May 22, 2017

REMEDIAL INVESTIGATION WORK PLAN

207th Street/9th Avenue
NYSDEC BCP Site No. C231102
3875 9th Avenue
New York, New York 10034

Prepared for

J.207 ST LLC and MFC REALTY CORP.
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TABLE OF CONTENTS

LIST OF ACRONYMS....1

1.0 INTRODUCTION....3
- 1.1 Brownfields Cleanup Program Application and Environmental Work Plans....3
- 1.2 RI Work Plan Document Organization....3
- 1.3 Project Team Contact Information....3
- 1.4 Certification....4

2.0 BACKGROUND....5
- 2.1 Site Description and Setting....5
  - 2.1.1 Property Operations....5
  - 2.1.2 Utilities....6
  - 2.1.3 Topography....6
  - 2.1.4 Wetland Areas and Surface Water Bodies....6
  - 2.1.5 Soils....7
  - 2.1.6 Underlying Formation....7
  - 2.1.7 Groundwater/Hydrogeology....7
  - 2.1.8 Neighboring Properties....7
- 2.2 Site History....8
  - 2.2.1 City Directories....9
  - 2.2.2 Aerial Photographs....9
  - 2.2.3 Fire Insurance Maps....9
- 2.3 Results of Previous Environmental Investigations....9
  - 2.3.1 Bulk Storage Tanks....9
  - 2.3.2 Soil....10
  - 2.3.3 Groundwater....12
  - 2.3.4 Soil Vapor....13
  - 2.3.5 Summary of Previous Environmental Sampling....13
- 2.4 Data Usability....14

3.0 RI WORK PLAN OBJECTIVES, SCOPE AND RATIONALE....15
- 3.1 Objectives and Relationship to RAWP....15
- 3.2 RI Scope....16
  - 3.2.1 Site Reconnaissance....17
  - 3.2.2 Geophysical Survey....17
  - 3.2.3 Soil Investigation....17
  - 3.2.4 Groundwater Investigation....18
  - 3.2.5 Soil Vapor Investigation....19
    - 3.2.5.1 Soil Vapor Sampling....19
  - 3.2.6 Qualitative Exposure Assessment....19

4.0 QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) PROTOCOLS....21

5.0 HEALTH AND SAFETY....22

6.0 REPORTING AND SCHEDULE....23

FIGURES

1. Site Location Map
2. Site Plan
3. Tax Map
4. Tidal Wetlands Inventory Map
5. Land Use and Sensitive Receptors Map
6. Proposed Sampling Locations

APPENDICES

A. Site Historical Information
B. Previous Environmental Investigations
C. Field Sampling Plan
D. Quality Assurance Project Plan
E. Site Health and Safety Plan

LIST OF ACRONYMS

Acronym	Definition
amsl	Above mean sea level
AOC	Area of Concern
ASP	Analytical Services Protocol
AST	Aboveground Storage Tank
AWQSGVs	Ambient Water Quality Standards and Guidance Values
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bls	Below land surface
DER-10	Department of Environmental Remediation Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Summary Report
EA	Exposure Assessment
FSP	Field Sampling Plan
ft	foot/feet
HASP	Health and Safety Plan
NTUs	Nephelometric Turbidity Units
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Polychlorinated Biphenyls
PID	Photo-ionization Detector
ppb	Parts per billion
ppm	Parts per million
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RIWP	Remedial Investigation Work Plan
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
RRSCOs	Restricted Residential Soil Cleanup Objectives
RIR	Remedial Investigation Report

Acronym	Definition
SCOs	Soil Cleanup Objectives
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
µg/L	Micrograms per liter
µg/kg	Micrograms per kilogram
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
UUSCOs	Unrestricted Use Soil Cleanup Objectives
VOC	Volatile Organic Compound

1.0 INTRODUCTION

Roux Associates, Inc. (Roux Associates), on behalf of J.207 St LLC and MFC Realty Corp. (Applicant), has prepared this Remedial Investigation Work Plan (RIWP) for the property located at 3875 9th Avenue within the Inwood section of the Borough of Manhattan, City of New York, and State of New York (Site), depicted on Figure 1.

1.1 Brownfields Cleanup Program Application and Environmental Work Plans

Due to the presence of contaminated groundwater, soil, and soil vapor at the Site, the Applicant plans to remediate the Site under the New York State Brownfield Cleanup Program (BCP). The Application was deemed complete on August 26, 2016 and the Applicant was accepted into the BCP as a Volunteer on December 22, 2016. Site Number C231102 has been assigned.

The scope of the remedial investigation (RI) has been developed in accordance with the DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010 (DER-10) issued by the New York State Department of Environmental Conservation (NYSDEC). The purpose of the RI is to determine the nature and extent of contamination at the Site, characterize environmental media at the Site, qualitatively assess the potential exposure of receptors to Site contaminants, and develop any other additional data necessary to support the development of a Remedial Action Work Plan (RAWP).

1.2 RI Work Plan Document Organization

This RIWP contains a background section (Section 2) describing the Site, its history, and results of previous environmental investigations; a section defining the objectives and scope of the RI (Section 3); and Sections 4 and 5 that describe various project operations plans (e.g., Quality Assurance/Quality Control, Health and Safety). Reporting requirements and the project schedule are discussed in Section 6. Tables are also provided that summarize pertinent previously collected environmental quality data. Finally, maps are provided to illustrate Site conditions and locations of proposed sampling efforts.

1.3 Project Team Contact Information

Roux Associates' Principal-In-Charge for this Site will be Craig Werle, P.G. Mr. Werle, who is based in Roux Associates' Islandia, New York headquarters office and can be reached at

(631) 232-2600, will be responsible for the overall implementation of the project. Roux Associates' Project Manager will be Kathryn Sommo, Project Scientist, who will be responsible for day-to-day management of the project, including preparation of work plans, and scoping and directing field activities. The Field Manager for the duration of the project is yet to be determined, and will be responsible for implementing and directing field activities onsite.

The name and contact information for the Applicant are provided as follows.

J.207 St LLC and MFC Realty Corp.
Attention: Ms. Ana Maria Polonia
15 Verbena Avenue, Suite 200
Floral Park, New York 11001

ana@madddequities.com

At this time, drilling, analytical, waste disposal, and other subcontracted services have not yet been selected. This information will be provided to NYSDEC prior to the start of field activities.

1.4 Certification

I, Craig Werle, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Work Plan (RIWP) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Craig A. Werle	May 22, 2017	
Qualified Environmental Professional	Date	Signature

2.0 BACKGROUND

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

2.1 Site Description and Setting

The Site is located at 3875 9th Avenue within the Inwood section of the Borough of Manhattan, City of New York, and State of New York as shown on Figure 1. The Site is 71,575 square feet in size encompassing an entire city block (block 2188 lot 1) for a total area encompassing 1.64 acres as shown on Figure 2. The New York City Digital Tax Map shown on Figure 3 identifies the Site as Block 2188, Lots 1. According to the New York City tax maps, the BCP Site is bounded by Ninth Avenue to its west, West 207th Street/ University Heights Bridge approach to the south, West 208th Street to the north (mapped but not built street), and Exterior Street to the east (mapped but not built street). Beyond the Site boundary to the east and to the north the land is a natural wooded riparian area bounded by the Harlem River and North Cove, respectively. Currently, the entire Site is an asphalt-paved lot used for parking. There is a parking attendant trailer in the northwestern corner of the parking lot, and the parking lot is surrounded by a chain link fence.

2.1.1 Property Operations

Multiple businesses have operated at the Site, the most recent of which is shown in the table below:

Owner: Applicant		
Block/Lot	**Occupant Name**	**Mailing Address**
Block 2188 / Lot 1	207 Garage, LLC	Leslie Valerio President / COO 207 Garage, LLC 3875 9th Ave. New York, NY 10034

2.1.2 Utilities

The following companies and municipalities currently provide utility services to the Site:

Utility	Provider
Electricity:	Con Edison
Natural Gas:	TBD
Sanitary Sewerage:	City of New York
Potable Water:	City of New York
Solid Waste Removal:	TBD

It is possible that utilities have influenced contaminant migration at the Site because of the shallow groundwater at the Site, which is approximately 8 to 11 feet below land surface (bls).

2.1.3 Topography

Review of topographic data reveals that the maximum elevation of the Site is approximately 13 feet above mean sea level (amsl) in National Geodetic Vertical Datum (NGVD29). The Site topography slopes gently to the East until it reaches a low of approximately 9 feet amsl.

2.1.4 Wetland Areas and Surface Water Bodies

The Harlem River is a tidal strait that connects the Hudson River to the East River. North Cove is tidal basin that serves as an inlet from the Harlem River. The North Cove is tidally inundated twice a day with tides that range approximately 4.6 feet (*http://tidesandcurrents.noaa.gov/datums.html?id=8518643*). Portions of North Cove are exposed at low tides. A bulkhead bounds the north side of the cove. The Hudson River and North Cove shoreline near the Site is comprised of riprap stone, armor stone, concrete blocks and woody vegetation (above the apparent high water line). The 1974 NYSDEC Tidal Wetlands Inventory Maps (Figure 4) identifies the Harlem River as Littoral Zone (LZ) and the North Cove as Coastal Shoals, Bars, and Mudflats (SM). The U.S. Fish and Wildlife Service identifies this area of the Harlem River as estuarine sub-tidal unconsolidated bottom (E1UBL) as shown on Figure 4.

2.1.5 Soils

Based upon the AKRF Subsurface (Phase II) Investigation completed in 2014, the Site is generally characterized by historic fill from ground surface to a depth of approximately 10 feet bls consisting of anthropogenic materials such as brick, concrete, ash, plastic, and wood with intermittent sandy and/or gravely silt and silty sand layers. Silty clay, clay, and vegetative matter (peat) was observed in several borings at depths ranging between 10.5 to 12.5 feet bls, consistent with the historical river and associated wetlands. The Site soils are classified as urban land, tidal marsh substratum (UmA), 0-3 percent slopes and urban land, reclaimed substratum, 0-3 percent slopes (UrA).

2.1.6 Underlying Formation

The geology in the area of the Site consists primarily of metamorphic rock and bedrock consists of Cambrian-Ordovician Inwood Marble (USGS). Bedrock was not encountered during the AKRF Subsurface (Phase II) Investigation.

2.1.7 Groundwater/Hydrogeology

The average depth to groundwater is 9.3 feet bls and the range in depth is 8 to 11 feet bls. Groundwater flow most likely flows in a northeasterly or southeasterly direction toward the Harlem River and it may be tidally influenced given the proximity to the Harlem River.

2.1.8 Neighboring Properties

Review of neighboring properties from the Site and from public thoroughfares, and research of available information regarding the neighboring properties, was performed to identify evidence of environmental concerns that could adversely impact the Site. The Site is located in a mixed-use area of Manhattan, New York. General types of development surrounding the Site are:

Direction	Operations
North	Vacant Land, North Cove, Transportation & Utility
South	Industrial / Manufacturing, Commercial
East	Harlem River
West	Parking, Commercial & Office Buildings

Immediately North and East of the Site lies vacant land that abuts the North Cove and Harlem River, respectively. Beyond the North Cove to the North and to the West is a railyard owned by New York City Transit. Also, located West of the Site across 9th Avenue is a Hess Gasoline Station. Immediately to the South of the Site is the University Height Bridge and beyond the access road to the bridge is a supermarket.

There is no agricultural land use within 1/2 mile of the Site. Isham Park is located approximately ½ mile northwest of the Site and Sherman Creek Park is located approximately ¼ mile south of the Site. North Cove is located immediately north of the Site. Galex Family Daycare, Manhattan Christian Academy, Saint Jude School and Inwood Academy for Leadership are located 0.2 mile southwest of the Site, PS-366 (Washington Heights Academy) is located 0.3 mile west of the Site, and PS-98 (Shorac Kappock) is located 0.4 mile northwest of the Site near Isham Park. The adjacent and nearby property usage is identified in Figure 5.

2.2 Site History

Roux Associates evaluated several information sources to determine historical uses of the property. The Site historical uses are summarized below, references used are included in Appendix A and B (city directories, historical aerials and historical Sanborn maps).

Year	Site Historical Use
1900 to 1922	Vacant Land Harlem River within Eastern portion of Site
1924 to 1954	Auto Wrecking Yard (northeast portion) Auto Sales & Service (southeast portion) House Boat Mooring (eastern portion) Harlem River within Eastern portion of Site
1961 - Current	Parking Lot

Details regarding the Site historical resources are summarized in the following sections.

2.2.1 City Directories

Roux Associates reviewed historical city directories for the Site for the years 2006, 2008, and 2013 from EDR of Milford, Connecticut. The directory listings are provided in the AKRF, Inc. (AKRF) Phase I Environmental Site Assessment Report (Phase I Report) in Appendix B.

2.2.2 Aerial Photographs

Roux Associates reviewed aerial photographs of the Site and surrounding area for the years 1924, 1940, 1951, 1954, 1966, 1974, 1975, 1984, 1991, 1995, 2006, 2009, and 2011, from EDR of Milford, Connecticut. The aerial photographs were reviewed for evidence of environmental concerns on or near the Site and are provided in Appendix A.

2.2.3 Fire Insurance Maps

A collection of Sanborn fire insurance maps covering the Site for the years 1893, 1900, 1913, 1922, 1928, 1935, 1951, 1968, 1979, 1989, 2007 were obtained from EDR of Milford, Connecticut. The fire insurance maps were reviewed for historical uses and evidence of environmental concern on or near the Site and are provided in the AKRF Phase I Report in Appendix B.

2.3 Results of Previous Environmental Investigations

The following sections provide an overview of the previous environmental inspections and investigations at the Site. AKRF completed a Phase I Environmental Site Assessment (ESA) in September 2014 and a Subsurface (Phase II) Investigation in October 2014. Previous environmental investigation reports are included in Appendix B.

The AKRF Subsurface (Phase II) Investigation included the collection of 21 soil samples at 7 soil boring locations; 3 groundwater grab samples; and 4 soil vapor samples. The sections that follow summarize the AKRF Subsurface (Phase II) Investigation results.

2.3.1 Bulk Storage Tanks

According to the AKRF reports, no underground storage tanks (USTs) or above ground storage tanks (ASTs) were identified on Site. Based upon the historical automobile related Site use unregistered USTs are potentially present. However, soil samples collected by AKRF

during their Subsurface (Phase II) Investigation in the vicinity of the automotive operations indicated that soils are not impacted by the presence of volatile organic compounds (VOCs), or semi-volatile organic compounds (SVOCs).

2.3.2 Soil

As part of the AKRF Subsurface (Phase II) Investigation seven soil borings were advanced (SB-1 through SB-7) to the water table. During completion of soil borings, lithology was recorded and soil was screened in the field for the presence of volatile organic vapors using a photo-ionization detector (PID), or for any visual evidence of contamination. AKRF reported that the highest PID reading was 2.0 parts per million (ppm) detected at SB-1.

Fill was found uniformly across the Site. It generally varied in thickness from six feet to 10 feet bls.

VOC detections were limited to the shallow soils (0-2 feet bls) at location SB-1, except for the acetone detections at locations SB-6 and SB-7 (exceeded the Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) but were below the Restricted Residential SCOs (RRSCOs)). The following VOCs at location SB-1 were above the RRSCOs:

SB-1 (0-2 feet bls)

- 1,2,4-Trimethylbenezene (300 milligrams/kilogram [mg/kg]);
- 1,3,5-Trimethylbenezene (66 mg/kg);
- p/m Xylene (110 mg/kg);
- Vinyl chloride (2.2 mg/kg); and
- Xylene-Total (150 mg/kg).

SVOCs were detected above the RRSCOs at the following locations along the southern and eastern areas of the property:

SB-1 (0-2 feet bls)

- Indeno(1,2,3-cd)Pyrene (0.75 mg/kg).

SB-2 (0-2 feet bls)

- Benzo(a)pyrene (1.1 mg/kg)

- Benzo(b)fluoranthene (1.5 mg/kg); and
- Indeno(1,2,3-cd)Pyrene (0.95 mg/kg).

SB-3 (0-2 feet bls)

- Benzo(b)fluoranthene (1.2 mg/kg); and
- Indeno(1,2,3-cd)Pyrene (0.68 mg/kg).

SB-7 (9-11 feet bls)

- Benzo(a)anthracene (2.8 mg/kg)
- Benzo(a)pyrene (2.6 mg/kg)
- Benzo(b)fluoranthene (3.1 mg/kg);
- Dibenzo(a,h)anthracene (0.35 mg/kg); and
- Indeno(1,2,3-cd)Pyrene (1.9 mg/kg).

There were several metal detections above the RRSCOs at locations within the eastern area of the property (SB-1 and SB-7) and one detection for cadmium at SB-5 in the western area of the property above the RRSCOs. A summary of the exceedences are below:

SB-1 (0-2 feet bls)

- Arsenic (23 mg/kg);
- Barium (1,100 mg/kg)
- Cadmium (32 mg/kg);
- Copper (860 mg/kg); and
- Lead (2,200 mg/kg).

SB-5 (0-2 feet bls)

- Cadmium (14 mg/kg).

SB-7 (0-2 feet bls)

- Lead (1,100 mg/kg).

Polychlorinated biphenyls (PCBs) were detected in 8 of the 14 samples; however, only one sample exceeded the RRSCOs: SB-1 at a depth of 0-2 feet bls with a concentration of

1.56 mg/kg. Deeper samples collected at this location were below the RRSCOs. The 0 to 2 foot samples at SB-5 and SB-7 had total PCB concentrations of 0.424 mg/kg and 0.789 mg/kg respectively which both exceed the UUSCO but are below the RRSCO.

There were detections of pesticides in shallow soils (0-2 feet bls) at locations SB-2 and SB-5. However, the pesticide detections were all below the RRSCOs.

2.3.3 Groundwater

AKRF collected three groundwater grab samples during their 2014 Subsurface (Phase II) Investigation. Groundwater laboratory analytical data were compared to the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGVs) for Class GA groundwater.

VOC detections were limited to the eastern side of the property at location GW-1; napthalene (31 micrograms/liter [µg/L]), p/m-xylene (5.6 µg/L) and total xylenes (8.7 µg/L) were all detected at concentrations above the AWQSGVs. SVOCs were detected in groundwater at all three locations above the AWQSGVs for the following parameters and concentrations:

GW-1

- Bis(2-Ethylhexyl)phthalate (5.7 µg/L); and
- Naphthalene (11 µg/L).

GW-2

- Benzo(a)anthracene (0.21 J µg/L);
- Benzo(b)fluoranthene (0.23 J µg/L);
- Chrysene (0.2 J); and
- Indeno (1,2,3-cd) Pyrene (0.12 J µg/L).

GW-3

- Bis(2-Ethylhexyl)phthalate (9.8 µg/L).

Metals (antimony, iron, magnesium, manganese, and sodium) were detected in both filtered and unfiltered groundwater at all three locations above the AWQSGVs. The presence metals in both the filtered and unfiltered may be attributed to sediment in the grab samples and/or the

shallow water table and tidal intrusion from the close proximity of the Harlem River. The highest concentration of total chromium was present in the Eastern area of the Site at location GW-1 (149.2 µg/L). The highest concentration of total lead was detected in the Southwestern area of the Site at location GW-2 (365.7 µg/L). The filtered samples were below the AWQSGVs for both chromium and lead.

PCBs and Pesticides were not detected in groundwater.

2.3.4 Soil Vapor

As part of the AKRF Subsurface (Phase II) Investigation, soil vapor samples were collected from 4 soil vapor points throughout the Site as shown on Figure 6 and were analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method TO-15.

The analytical results identified detections of a range of chlorinated and petroleum-related VOCs. The greatest concentrations of VOCs were detected within the Eastern area of the Site at location SV-1. This data suggests that there is an onsite source of VOCs.

2.3.5 Summary of Previous Environmental Sampling

The highest concentrations detected in soil and soil vapor are located within the eastern portion of the property. VOCs, metals, and PCBs were present above applicable regulatory guidance values within shallow soils at SB-1 (0-2 feet bls) and chlorinated and non-chlorinated hydrocarbons were present in soil vapor at adjacent location SV-1. SVOCs were detected in deeper soils at SB-7 (9-11 feet bls).

Groundwater concentrations were detected at all three locations above the AWQSGVs. VOCs in groundwater were limited to the eastern portion of the property, and SVOCs and metals were detected throughout the property. PCBs and Pesticides were not detected in groundwater.

The presence of VOCs, SVOCs and PCBs is likely attributable to the historical filling of the Harlem River within the Eastern section of the Site.

2.4 Data Usability

Previous soil, groundwater and soil vapor analytical data developed by AKRF were evaluated by Roux Associates for data usability purposes during the RI. The purpose (data use) of the data was to:

1) Provide analytical data of sufficient quality to characterize the soil, groundwater, and soil vapor; and

2) Provide "screening level" quality data to guide/support future RI sampling efforts.

The laboratory data package deliverables from AKRF were not produced in accordance with NYSDEC ASP Category B deliverables and, therefore, cannot be validated by means of a Data Usability Summary Report (DUSR). Therefore, the data generated in these reports should be considered qualitative and used only as "screening level" quality data to guide/support future RI sampling efforts.

The data generated by the Roux Associates RI for the Site will be produced in accordance with NYSDEC ASP Category B deliverables. All data generated by the Roux Associates RI will be reviewed and validated by an independent party in a DUSR before being incorporated into the remedial investigation report (RIR) for the Site.

3.0 RI WORK PLAN OBJECTIVES, SCOPE AND RATIONALE

3.1 Objectives and Relationship to RAWP

The objective of this RIWP is the "investigation and characterization of the nature and extent of the contamination within the boundary of the Site," per Environmental Conservation Law Article 27, Title 14 (Brownfield Legislation). The Remedial Investigation (RI) will be conducted in accordance with 6NYCRR Part 375-3.8, NYSDEC DER-10, and applicable New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

The objectives and goals of the RI will be:

- Define the nature and extent of contamination in all media at or emanating from the Site;
- Generate sufficient data to evaluate the remedial action alternatives; and
- Generate sufficient data to evaluate the actual and potential threats to human health and the environment.

Previous investigations and historic documentation have documented the presence of the following areas of concern (AOCs):

- Former auto repair garage with potential for undocumented USTs and former auto wrecking area located on the western section of Site;
- Historical filling of Harlem River within eastern portion of the property; and
- Potential upgradient sources.

Based on the existing analytical data for the Site and known data gaps, the following objectives have been identified for the RIWP:

- Inspect and identify all historic AOCs;
- Evaluate soil quality associated with all AOCs;
- Fill data gaps from prior AKRF Subsurface (Phase II) Investigation;
- Delineate thickness of fill layer across the Site and confirm vertical depth of contamination, as applicable;

- Identify the existence and three-dimensional extent of soil quality impacts in any potential previously unknown USTs and potential unknown subsurface structures;
- Delineate the three-dimensional extent of previously documented VOC and metals impacts to groundwater; and
- Evaluate the potential for VOC impacts to soil vapor at the perimeter the Site.

Environmental data collected during the RI will be used to qualitatively assess the potential exposure of receptors to Site contaminants, and develop the information necessary to support the development of a RAWP.

3.2 RI Scope

The scope of the RI will entail the collection of sufficient Site characterization data so that, together with the historic data including groundwater, soil, and soil vapor sampling, the entire Site will be sufficiently characterized to support the development of the Site-wide RAWP. To accomplish this, the RI will focus on the following:

- The completion of a geophysical survey to attempt to identify any potential previously unknown USTs and potential associated appurtenances or pumps , and any potential unknown subsurface structures at the Site;
- The collection of soil and groundwater data sufficient to fill data gaps from the prior AKRF Subsurface (Phase II) Investigation;
- The collection of soil, groundwater and soil vapor data sufficient to define the nature and extent of contamination for impacted areas;
- The collection of additional land survey data as needed for developing a groundwater contour map; and
- The performance of a qualitative exposure assessment to identify exposure pathways, and evaluate contaminant fate and transport.

The Site sources of contamination will be identified during the RI, if present.

All data will be produced in accordance with NYSDEC ASP Category B deliverables and will be reviewed and validated by an independent party in a DUSR before being incorporated into the RIR for the Site.

The overall scope of each component of the RI is discussed in the following subsections. Detailed field sampling procedures are provided in the Field Sampling Plan (FSP), Appendix C. The proposed locations are shown on Figure 6.

3.2.1 Site Reconnaissance

Roux Associates will perform Site reconnaissance prior to RI field activities to determine final locations of soil borings based on actual field conditions and to verify there are no additional potential AOCs present.

3.2.2 Geophysical Survey

A geophysical survey will be performed at the Site in effort to locate any previously undocumented USTs, identify any other potential AOCs, and to perform borehole utility clearance for any proposed RI drilling locations. Any boring locations that the geophysical survey determines to be near subsurface utilities will be relocated to the safest, closest alternative drilling location that still represents the targeted AOC.

3.2.3 Soil Investigation

To characterize the soil conditions for the various AOCs at the Site, 12 soil borings will be advanced at the locations shown in Figure 6 (SB-101 through SB-112). Soil samples will be collected to evaluate Site wide soil quality, and verify and/or delineate previously identified impacts (sampling rationale is provided in Appendix C FSP). The soil investigation will be completed in compliance with DER-10 3.5.2. Following soil sampling activities, monitoring wells will be installed in boreholes SB-101 through SB-105 as described in Section 3.2.4.

Additional borings may be advanced if the geophysical survey is able to locate potential former USTs. Actual locations may vary slightly based on field conditions. If a boring is proposed to be moved more than 10 feet from the location shown on Figure 6, the NYSDEC project manager will be consulted prior to installing the boring at the new location.

Soil samples will be collected using the Geoprobe® direct push method. Geoprobe® samples will be collected continuously using either a four foot or five-foot macro core sampler depending on the drilling unit used. A minimum of two soil samples will be collected for

laboratory analysis from each soil boring and will include a shallow sample from 0 to 2 feet bls and a deeper sample from 10-12 feet bls. A third soil sample may be collected from each or several test boring(s) if 1) elevated PID readings and/or visual and olfactory observations are noted during borehole advancement and/or if 2) field observations identify an upper fill layer underlain by native material (shallower than 10 feet bls) then an additional soil sample from the upper zone of the native layer will be collected to delineate the vertical migration of impacts (if any), as well as determine a more detailed remedy and potentially provide a cost savings for disposal options.

During installation of the soil borings, the lithology will be recorded and soil will be inspected for evidence (visual or olfactory) of contamination and field screened continuously for volatile organic vapors using a PID with a 11.7 eV lamp. All soil samples will be analyzed for the full Target Compound List (TCL) VOCs and SVOCs, Target Analyte List (TAL) metals, hexavalent chromium, total cyanide, organochlorine pesticides, PCBs, and herbicides. If free product is encountered, representative samples of the product will be collected for laboratory analysis.

3.2.4 Groundwater Investigation

To characterize onsite groundwater flow and quality conditions, five monitoring wells will be installed (MW-101 through MW-105) in corresponding boreholes SB-101 through SB-105. The groundwater monitoring well locations are shown on Figure 6. The wells will be installed to approximately 20 feet deep, based on an anticipated groundwater depth range of 8-11 feet bls.

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

Groundwater samples will be collected from the monitoring wells and submitted for laboratory analysis for full TCL VOCs and SVOCs, TAL metals, hexavalent chromium, total

cyanide, organochlorine pesticides, PCBs, and herbicides. Field parameters (e.g., pH, dissolved oxygen, ORP, etc.) will also be collected using a water quality meter during sampling. All monitoring wells will be surveyed by a licensed New York State land surveyor. Groundwater elevations will be calculated for each well and a groundwater contour map will be developed. See the FSP in Appendix C for monitoring well design details.

3.2.5 Soil Vapor Investigation

Nine soil vapor samples (SV-101 through SV-109) will be collected during the RI to evaluate soil vapor conditions at the Site. All soil vapor samples will be collected in accordance with the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH Guidance). All soil vapor samples will be collected using pre-cleaned 6-liter summa canisters with regulators calibrated to collect samples over a 2-hour period and analyzed using USEPA Method TO-15 for VOCs. A helium tracer gas test will be performed on each vapor point prior to sampling in accordance with the procedures outlined in the NYSDOH Guidance. Additional details regarding sampling methods are provided in the FSP (Appendix C).

3.2.5.1 Soil Vapor Sampling

Nine soil vapor samples (SV-101 through SV-109 will be collected from temporary soil vapor points from borings installed using a Geoprobe® to the target depth of six feet. Groundwater is expected to be encountered at a depth of 8 to 11 feet below land surface. The soil vapor probe will be installed between one and two feet above the groundwater interface. New Teflon lined tubing will be attached to an expendable soil vapor sampling point with a 6-inch stainless steel screen inside the rods, to prevent infiltration of ambient air. The soil vapor points will be backfilled with #2 Morie sand to approximately one foot above the screen. The remainder of the borehole will be backfilled with a concrete/bentonite slurry to grade.

3.2.6 Qualitative Exposure Assessment

A qualitative human health exposure assessment (EA) will be performed following the collection of all RI data. The EA will be performed in accordance with Section 3.3(c)4 of DER-10 and the NYSDOH guidance for performing a qualitative EA (NYSDEC DER-10; Appendix 3 B). The results of the qualitative EA will be provided in the RI report.

According to Section 3.10 of DER-10, and the Fish and Wildlife Resources Impact Analysis Decision Key in DER-10 Appendix 3C, a Fish and Wildlife exposure assessment is not needed for this Site.

4.0 QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) PROTOCOLS

The goal of the QA/QC aspect of the RI is to ensure that suitable and verifiable data results from sampling and analysis performed. To accomplish this, a Quality Assurance Project Plan (QAPP) has been prepared and is provided as Appendix D. As described in Section 2.4 above and in the QAPP, all data generated by the Roux Associates RI for the Site will be produced in accordance with NYSDEC ASP Category B deliverables. All data generated by the Roux Associates RI will be reviewed and validated by an independent party in a DUSR in accordance with DER-10 Appendix 2B (2) before being incorporated into the RIR for the Site.

5.0 HEALTH AND SAFETY

A Site-specific Health and Safety Plan (HASP), including a Community Air Monitoring Plan (CAMP) has been prepared for the Site and is provided in Appendix E.

6.0 REPORTING AND SCHEDULE

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

Progress Reports

Progress report submittals to be provided to the NYSDEC include the following.

1) Progress reports will be submitted by the 10th day of each month as required by the BCA, during RI activities.
2) Identification of any previously unknown contaminated media identified during RI activities will be promptly communicated to NYSDEC's project manager by official contact number (md.hoque@dec.ny.gov/ 518-402-9475).
3) A Site map will be provided to identify locations discussed in progress reports provided to NYSDEC.

RI Summary Report

Following the completion of the RI, a RIR will be prepared to summarize the results of the RI and address any remaining contamination at the Site.

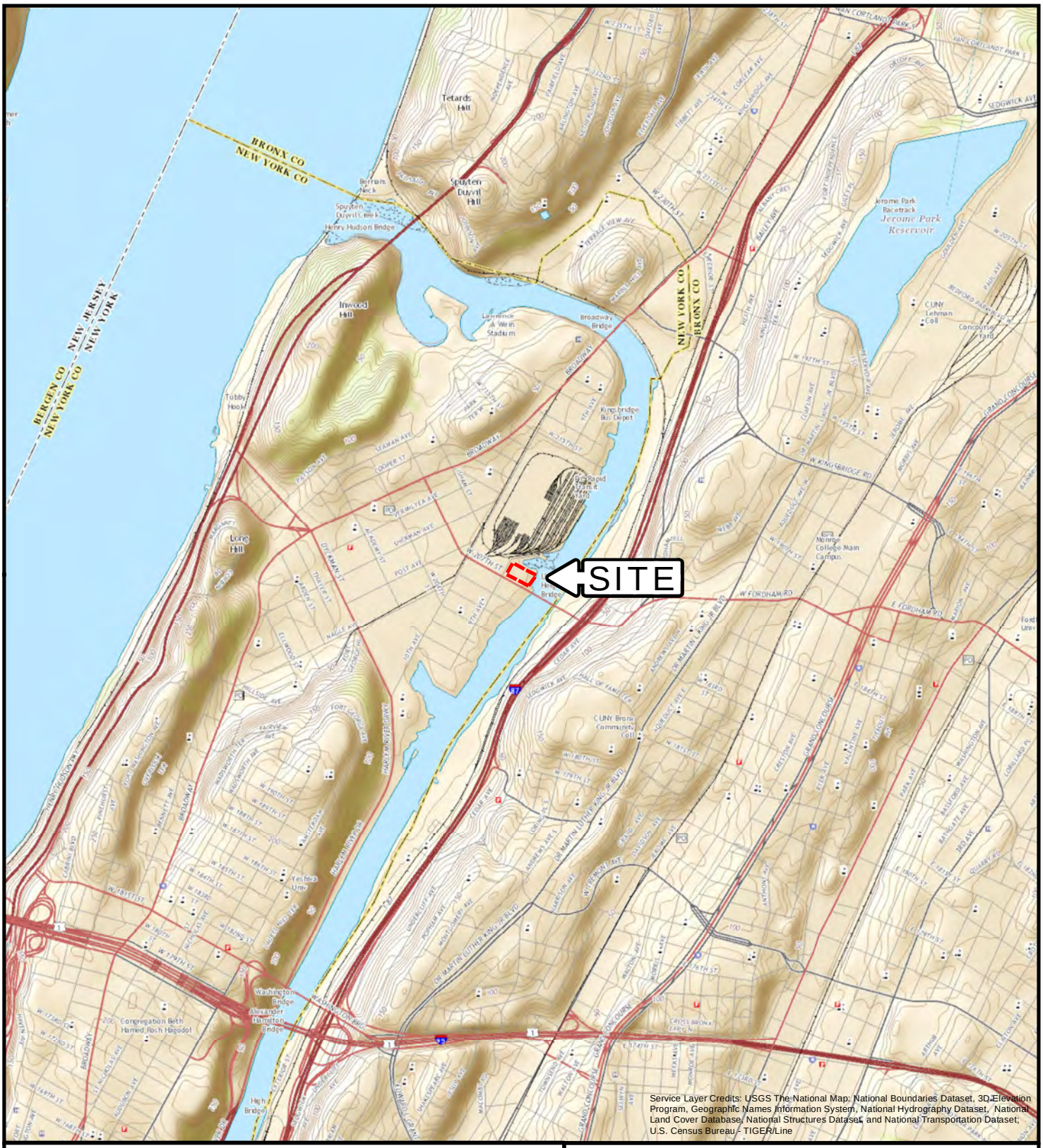
The RI report will include all data developed during the RI, and will meet the technical requirements of NYSDEC's DER-10.

SCHEDULE	
Conduct Remedial Investigation	June 2017
Submit Remedial Investigation Report	July 2017
NYSDEC and NYSDOH Review of RIR and 45-day Public Comment Period	July- August 2017
Submission of Remedial Action Work Plan	October 2017
NYSDEC and NYSDOH Review of RAWP and 45-day Public Comment Period	November - December 2017
Demolition	Estimated Winter 2018
Implement Remedial Action Work Plan	To Be Determined Estimated Spring 2018
Submit Remedial Action Report	To Be Determined Estimated Summer-Fall 2018

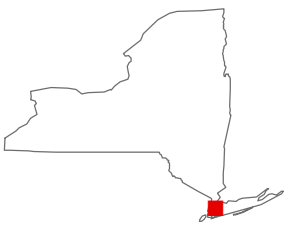
Note: Schedule is contingent on the completion of demolition.

FIGURES

1. Site Location Map
2. Site Plan
3. Tax Map
4. Tidal Wetlands Inventory Map
5. Land Use Map and Sensitive Receptor Survey
6. Proposed Sampling Locations



QUADRANGLE LOCATION



N

1,000 0 1,000 2,000

Feet

Title:

SITE LOCATION MAP

REMEDIAL INVESTIGATION WORK PLAN
3875 9TH AVENUE, NEW YORK, NY

Prepared For:

J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 18MAY17	FIGURE
Prepared by: M.R.	Scale: AS SHOWN	1
Project Mgr: K.S.	Project: 2699.0001Y002	
File: 2699.0001Y107.1R.mxd		

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V:\GIS\Projects\2699Y\0001Y\107R\2699.0001Y107.2R.mxd



LEGEND

- SITE BOUNDARY
- AREAS OF CONCERN (AOC)

N

50 0 50 100 Feet

Title:

SITE PLAN

REMEDIAL INVESTIGATION WORK PLAN
3875 9TH AVENUE, NEW YORK, NY

Prepared For:

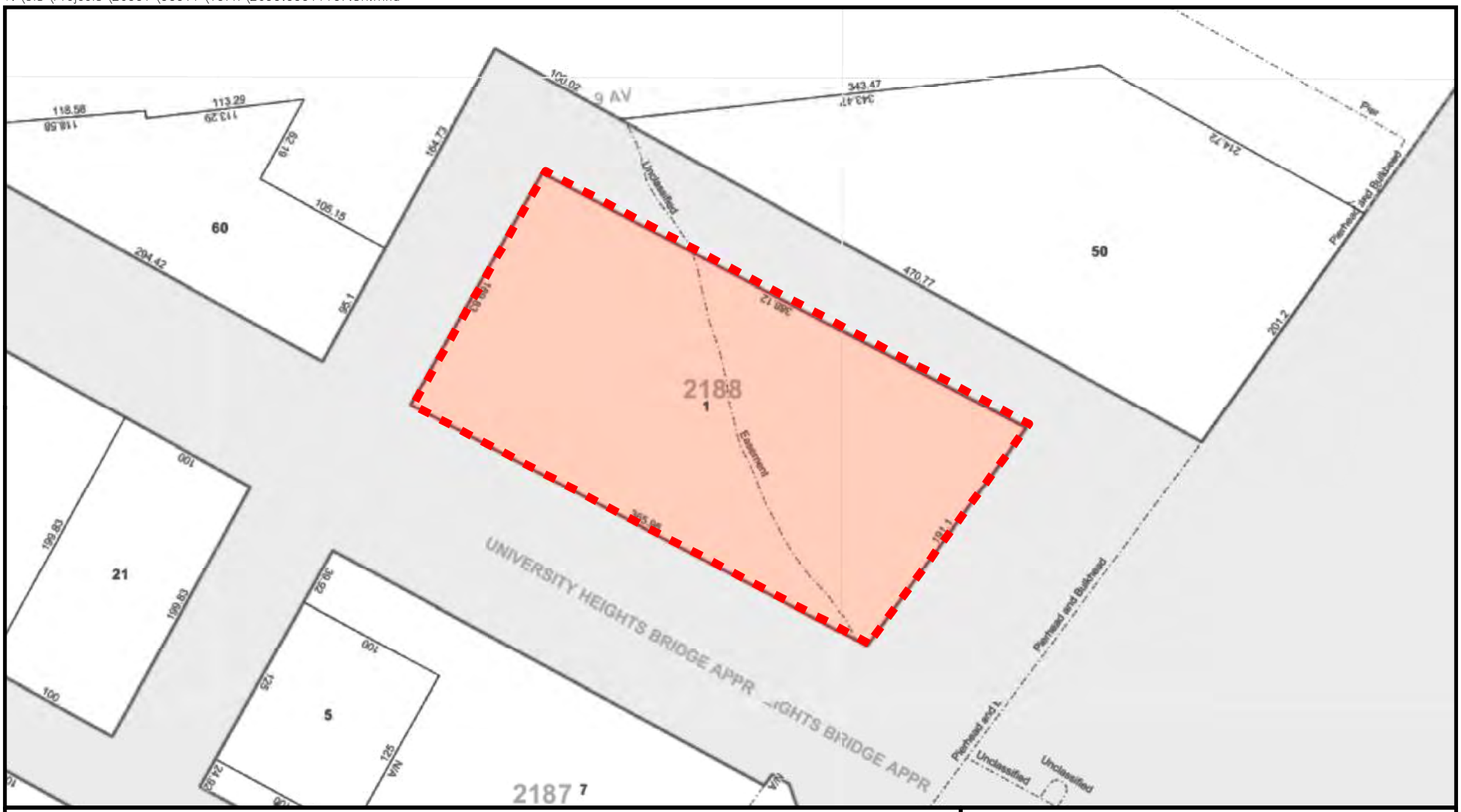
J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 19MAY17
Prepared by: M.R.	Scale: AS SHOWN
Project Mgr: K.S.	Project: 2699.0001Y002
File: 2699.0001Y107.2R.mxd	

FIGURE
2

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LEGEND

SITE BOUNDARY

N

50 0 50 100 Feet

SOURCE

NYC DEPARTMENT OF FINANCE

Title:

TAX MAP

REMEDIAL INVESTIGATION WORK PLAN
3875 9TH AVENUE, NEW YORK, NY

Prepared For:

J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 18MAY17
Prepared by: M.R.	Scale: AS SHOWN
Project Mgr: K.S.	Project: 2699.0001Y002
File: 2699.0001Y107.3R.mxd	

FIGURE 3

V:\GIS\Projects\2699Y\0001Y\107R\2699.0001Y107.4R.mxd



LEGEND

- NYSDEC TIDAL WETLANDS – LZ – LITTORAL ZONE
- NYSDEC TIDAL WETLANDS – SM – COASTAL SHOALS, BARS, AND MUDFLATS
- USFWS NATIONAL WETLANDS INVENTORY
  E1UBL ESTUARINE SUBTIDAL UNCONSOLIDATED BOTTOM
- SITE BOUNDARY

N

75 0 75 150 Feet

Title:

TIDAL WETLANDS INVENTORY MAP

REMEDIAL INVESTIGATION WORK PLAN
3875 9TH AVENUE, NEW YORK, NY

Prepared For:

J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 18MAY17
Prepared by: M.R.	Scale: AS SHOWN
Project Mgr: K.S.	Project: 2699.0001Y002
File: 2699.0001Y107.4R.mxd	

FIGURE
4



N

LEGEND

- SITE BOUNDARY
- COMMERICAL & OFFICE BUILDINGS
- INDUSTRIAL & MANUFACTURING BUILDINGS
- MIXED RESIDENTIAL & COMMERICAL BUILDINGS
- MULTI–FAMILY ELEVATOR BUILDINGS
- MULTI–FAMILY WALK–UP BUILDINGS
- OPEN SPACE & OUTDOOR RECREATION
- PARKING FACILITIES
- PUBLIC FACILITIES & INSTITUTIONS
- TRANSPORTATION & UTILITY
- VACANT LAND
- (1) PUBLIC SCHOOL 98: SHORAC KAPPOCK
- (2) PUBLIC SCHOOL 366: WASHINGTON HEIGHTS ACADEMY
- (3) PEDIATRICS 2000
- (4) INWOOD'S NORTH COVE
- (5) ALFONSO DENTAL OFFICE
- (6) GALEX FAMILY DAYCARE
- (7) SAINT JUDE SCHOOL & CHRIST CRUCIFIED FELLOWSHIP
- (8) MANHATTAN CHRISTIAN ACADEMY & MANHATTAN BIBLE CHURCH
- (9) SAINT JUDE'S ROMAN CATHOLIC CHURCH

550 0 550
Feet

0.25 0
Miles

Title:

LAND USE AND SENSTIVE RECEPTORS MAP

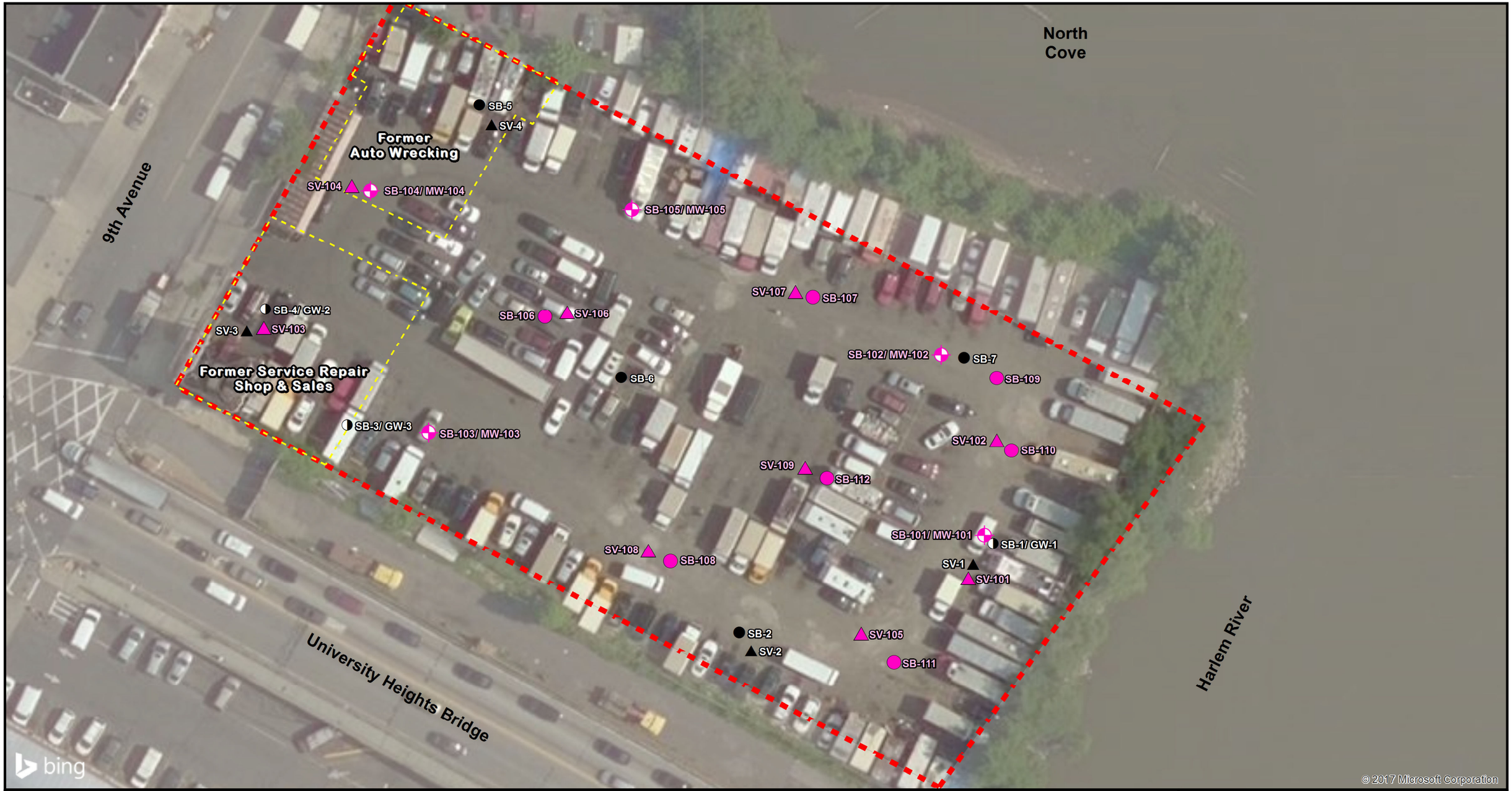
REMEDIAL INVESTIGATION WORK PLAN
3875 9TH AVENUE, NEW YORK, NY

Prepared For:
J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 18MAY17	FIGURE
Prepared by: M.R.	Scale: AS SHOWN	5
Project Mgr: K.S.	Project: 2699.0001Y002	
File: 2699.0001Y107.5R.mxd		

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LEGEND

- ROUX PROPOSED SOIL BORING SAMPLING LOCATION
- ROUX PROPOSED SOIL BORING & MONITORING WELL SAMPLING LOCATION
- ROUX PROPOSED SOIL VAPOR SAMPLING LOCATION
- AKRF PHASE II SOIL BORING SAMPLING LOCATION (2014)
- AKRF PHASE II SOIL BORING & GROUNDWATER GRAB SAMPLING LOCATION (2014)
- AKRF PHASE II SOIL VAPOR SAMPLING LOCATION (2014)
- AREAS OF CONCERN (AOC)
- SITE BOUNDARY

N

20 0 20 40 Feet

Title:

PROPOSED SAMPING LOCATIONS

REMEDIAL INVESTIGATION WORK PLAN
3875 9TH AVENUE, NEW YORK, NY

Prepared For:
J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 19MAY17
Prepared by: M.R.	Scale: AS SHOWN
Project Mgr: K.S.	Project: 2699.0001Y002
File: 2699.0001Y107.6R.mxd	

FIGURE 6

V:\GIS\Projects\2699Y\0001Y\107R\2699.0001Y107.6R.mxd

APPENDICES

A. Site Historical Information
B. Previous Environmental Investigations
C. Field Sampling Plan
D Quality Assurance Project Plan
E. Site Health and Safety Plan

APPENDIX A

Site Historical Information

3875 9th Avenue
3875 9th Avenue
New York, NY 10034

Inquiry Number: 4265723.2
April 16, 2015

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography April 16, 2015

Target Property:

3875 9th Avenue

New York, NY 10034

Year	***Scale***	***Details***	***Source***
1924	Aerial Photograph. Scale: 1"=500'	Flight Date: July 01, 1924	EDR
1940	Aerial Photograph. Scale: 1"=500'	Flight Date: April 02, 1940	EDR Proprietary Aerial Viewpoint
1951	Aerial Photograph. Scale: 1"=500'	Flight Date: April 21, 1951	EDR Proprietary Aerial Viewpoint
1954	Aerial Photograph. Scale: 1"=500'	Flight Date: February 23, 1954	EDR
1961	Aerial Photograph. Scale: 1"=500'	Flight Date: April 12, 1961	EDR Proprietary Aerial Viewpoint
1966	Aerial Photograph. Scale: 1"=500'	Flight Date: January 12, 1966	USGS
1974	Aerial Photograph. Scale: 1"=500'	Flight Date: March 25, 1974	EDR Proprietary Aerial Viewpoint
1975	Aerial Photograph. Scale: 1"=500'	Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=500'	Flight Date: March 26, 1984	USGS
1991	Aerial Photograph. Scale: 1"=500'	Flight Date: March 09, 1991	USGS
1995	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 13, 1995	USGS/DOQQ
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP



INQUIRY #: 4265723.2

YEAR: 1924

= 500'

N

EDR



INQUIRY #: 4265723.2

YEAR: 1940

= 500'

N

EDR



INQUIRY #: 4265723.2

YEAR: 1951

= 500'

N

EDR


INQUIRY #: 4265723.2
YEAR: 1954
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 1961
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 1966
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 1974
= 500'
N
EDR



INQUIRY #: 4265723.2

YEAR: 1975

= 500'

N

EDR


INQUIRY #: 4265723.2
YEAR: 1984
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 1991
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 1995
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4265723.2
YEAR: 2011
= 500'
N
EDR

APPENDIX B

Previous Environmental Investigations

AKRF

Environmental and Planning Consultants

440 Park Avenue South
7th Floor
New York, NY 10016
tel: 212 696-0670
fax: 212 213-3191
www.akrf.com

September 4, 2014

Mr. Jorge Madruga
Maddd Equities
15 Verbena Avenue, Suite 200
Floral Park, NY 11001

Re: Phase I Environmental Site Assessment
3875 Ninth Avenue, New York, NY
AKRF Project Number 11995

Dear Mr. Madruga:

AKRF, Inc. is pleased to submit this Phase I Environmental Site Assessment Report for the above-referenced Property. This report includes the findings of a reconnaissance of the Property, an evaluation of readily available historical information and selected environmental databases and electronic records. AKRF, Inc. met the requirements of American Society for Testing and Materials (ASTM) as established by ASTM Standard E1527-13 unless noted otherwise in Section 8.0: "Limitations and Data Gaps".

We appreciate the opportunity to provide you with our services. If you should have any questions, please do not hesitate to contact us.

Sincerely,
AKRF, Inc.

Marcus Simons
Senior Vice President

Asya Bychkov, P.E.
Environmental Engineer

Enc.

3875 Ninth Avenue

Tax Block 2188, Lots 1 and 10

NEW YORK, NEW YORK

Phase I Environmental Site Assessment

AKRF Project Number: 11995



Prepared for:

Maddd Equities
15 Verbena Avenue, Suite 200
Floral Park, NY 11001

Prepared by:

AKRF, Inc.
440 Park Avenue South
New York, NY 10016
212-696-0670

SEPTEMBER 2014

EXECUTIVE SUMMARY

AKRF, Inc. (AKRF) was retained by Maddd Equities to perform a Phase I Environmental Site Assessment of a Property located at 3875 Ninth Avenue (also identified as New York City Tax Block 2188, Lots 1 and 10). The approximately 86,700-square foot Property is a paved surface parking lot.

This Phase I Environmental Site Assessment was performed in conformance with ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice*. Any exceptions to, or deletions from, the Standard are described in Section 8.0. The term "Recognized Environmental Condition" or REC means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The Standard also includes definitions of Historic REC (HREC), Controlled REC (CREC), and *De Minimis* Condition. A *De Minimis* Condition is defined as an environmental concern that is not a threat to human health or the environment and would not be subject to enforcement action.

Prior to its current use, the waterfront Property was at various times vacant land, houseboat mooring, auto sales and service, auto wrecking, trailer parking, and a dump. The western portion of the Property was used as paved parking or vacant since approximately 1974. The existing parking lot has occupied the Property since approximately the early 2000s. At the time of AKRF's reconnaissance, the Property included an attendant's trailer. The greater surrounding area was mixed-use and included apartment buildings, commercial uses, warehouses, a filling station, and a New York City Transit Authority (NYCTA) rail yard. The University Heights Bridge and approach roads are immediately to the south.

This assessment revealed the following:

Recognized Environmental Conditions (RECs)

- Historical uses of the Property included: a one-story (plus basement) auto sales and service shop in the southwestern corner; auto wrecking in the northeastern corner; houseboat mooring; trailer parking; dumping; and vacant land. The eastern portion of the Property was within the Harlem River until the mid-20th century, and was filled between 1951 and 1968 with material of unknown origin. The former bed of the Harlem River beneath this portion of the Property has a high potential to contain hazardous materials.
- No evidence of past or present on-site petroleum storage tanks was identified. However, historical uses of the Property (particularly the auto service building present in its southwestern corner between 1931 and 1954) would likely have included tanks, which may have been removed or may remain beneath the Property.
- The surrounding area historically included a laundry and cleaner (which may have used petroleum-based solvents based on their age), a carpet cleaner (which may have used chlorinated solvents based on its age), a boat works, filling stations, garages with gasoline USTs, auto repair shops, and factories. A large rail yard was constructed north and northwest of the Property across Ninth Avenue between 1922 and 1928. The rail yard and a filling station located west of the Property across Ninth Avenue were observed during the reconnaissance, and were identified in the regulatory database with active- and closed-status spill listings, hazardous waste generator listings, and petroleum bulk storage (PBS) tank registrations. A monitoring well observed west-adjacent to the Property in the Ninth Avenue sidewalk may have been associated with an investigation conducted by the filling station. The south-adjacent University Heights Bridge may be covered with lead-based paint, which may have affected shallow soils at the Property (particularly before the entire Property was paved).

De Minimis Condition

- Two apparently abandoned portable petroleum-powered generators were observed in the southwestern corner of the site and on the adjacent Ninth Avenue sidewalk. Surface staining was noted in the vicinity of the generator on the sidewalk, but no evidence of a significant release was noted.

Other On-Site Environmental Concerns (items outside the scope of E1527-13 such as ACM, LBP and/or PCBs in building materials or fill/debris)

- Based on the age of the attendant's trailer, asbestos-containing materials (ACM) are not likely to be present. Suspect ACM vinyl floor tiles in fair condition were observed in the attendant's trailer during the reconnaissance. The trailer's roofing may include ACM.
- Based on the age of the attendant's trailer, lead-based paint is not likely to be present on interior surfaces, but could be present on exterior surfaces. Interior and exterior painted surfaces were observed to be in good condition. During the reconnaissance, there was no observation of uses at the property (such as residential occupancy or child care facilities) where the extended presence of children would be expected.
- Based on the age of the parking lot, fluorescent lighting fixtures and electrical equipment on the Property are not likely to contain polychlorinated biphenyls (PCBs). No evidence of leaks or stains from these fixtures and equipment was observed.
- Trash bags and rats were observed on the sidewalk next to the southwestern corner of the Property.

Potential for Vapor Migration

This Phase I assessment identified a potential for subsurface vapors and thus a potential for vapor migration at or onto the Property, based on the RECs noted above.

RECOMMENDATIONS

- Subsurface conditions beneath the Property may have been affected by filling with materials of unknown origin, historical uses at the Property, and/or past and present uses in the surrounding area. A subsurface (Phase II) investigation involving the collection of subsurface samples for laboratory analysis is recommended prior to Property redevelopment. It is possible that this investigation may uncover evidence of a petroleum spill or other situation reportable to NYSDEC and/or other regulatory agencies.
- If any USTs are encountered during Property redevelopment, they should be properly closed in accordance with the applicable regulations, which may include NYSDEC registration and/or spill reporting requirements.
- Suspect ACM at the Property need to be maintained in good condition in accordance with applicable regulations. Prior to any renovation or demolition activities with the potential to disturb suspect ACM, an asbestos survey of the areas to be disturbed should be conducted and any ACM that would be disturbed should be removed and disposed of in accordance with local, state and federal requirements.
- Unless there is labeling or test data indicating that fluorescent lighting fixtures are not mercury-containing, if disposal is required (e.g., as part of routine replacement or renovation activities), it should be performed in accordance with applicable federal, state, and local regulations and guidelines.

- Any activities (such as renovation or demolition) with the potential to disturb lead-based paint must be performed in accordance with applicable requirements (including federal Occupational Safety and Health Administration regulation 29 CFR 1926.62 - *Lead Exposure in Construction*).
- If disposal of any abandoned generators is required, it should be conducted properly in accordance with applicable regulations.
- Trash should be removed from the Property in a timely manner to avoid attracting rodents.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i
1.0 Introduction 1
2.0 Physical Site Description 2
2.1 General Site Conditions 2
2.2 Topography and Hydrogeology 2
2.3 Storage Tanks 3
2.3.1 Underground Storage Tanks (USTs) 3
2.3.2 Aboveground Storage Tanks (ASTs) 3
2.4 Polychlorinated Biphenyls (PCBs) 3
2.5 Lead-Based Paint 3
2.6 Utilities 4
2.7 Waste Management and Chemical Handling 4
2.8 Radon 4
3.0 Asbestos-Containing Materials (ACM) 4
4.0 Adjacent Land Use 4
5.0 Property History and Records Review 5
5.1 Prior Ownership and Usage 5
5.1.1 Historical Land Use Maps 5
5.1.2 Historical Aerial Photographs 7
5.1.3 Property Tax Files and Zoning Records 9
5.1.4 Recorded Land Title Records 9
5.1.5 Local Street Directories 10
5.2 Regulatory Review 10
5.2.1 Federal 10
5.2.2 State 12
5.2.3 Local 17
5.2.4 Additional Environmental Record Sources 18
6.0 User-Provided Information 19
7.0 Previous Studies 20
8.0 Limitations and Data Gaps 20
9.0 Findings 21
10.0 Conclusions and Recommendations 23
11.0 Signature Page 26
12.0 Qualifications 27
13.0 References 28

FIGURES

Figure 1 - Site Location
Figure 2 - Site Plan

APPENDICES

Appendix A - Photographic Documentation
Appendix B - Historical Sanborn Maps
Appendix C - Regulatory Records Review
Appendix D - Local Records
Appendix E - City Directories

1.0 INTRODUCTION

AKRF, Inc. (AKRF) was retained by Maddd Equities to perform a Phase I Environmental Site Assessment of a Property located at 3875 Ninth Avenue (also identified as New York City Tax Block 2188, Lots 1 and 10). The approximately 86,700-square foot Property is a paved surface parking lot.

At the time of AKRF's reconnaissance, the waterfront Property was occupied by the on-ground, asphalt-paved parking lot with an attendant's trailer. The greater surrounding area was mixed-use and included apartment buildings, commercial uses, warehouses, a filling station, and a New York City Transit Authority (NYCTA) rail yard. The University Heights Bridge and approach roads are immediately to the south.

The scope of services for this assessment was in conformance with ASTM Standard E1527-13 (*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice)*. Any exceptions to, or deletions from, this practice are described in Section 8.0. The scope included the following:

- Observations of the Property (reconnaissance) to identify potential sources or indications of hazardous substances, including: aboveground storage tanks (ASTs); underground storage tanks (USTs); tank vents and fill ports; transformers and other items that could contain polychlorinated biphenyls (PCBs), drums or areas where hazardous materials were used, stored, or disposed; stained surfaces and soils; stressed vegetation, leaks, odors. In addition, neighboring properties were viewed, but only from public rights-of-way, to identify similar concerns.
- Readily available geological and groundwater (hydrogeological) information was evaluated to assist in determining the potential for contamination migration (including in soil, soil vapor and/or groundwater) within, from and onto the Property.
- The reconnaissance of the Property included observation of any readily visible suspect asbestos-containing materials (ACMs) and potential lead-based paint. However, no samples were collected or analyzed and this reconnaissance provides neither definitive nor exhaustive information.
- A state database of county-level radon concentrations was used to determine typical indoor radon levels and compare them to United States Environmental Protection Agency (USEPA) guidelines.
- Historical land use maps for the Property and nearby sites were reviewed to evaluate historical land uses.
- The following federal regulatory databases were reviewed to determine the regulatory status of the Property and other properties within the ASTM-defined radii: National Priority List (NPL); Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS); Emergency Response Notification System (ERNS); Toxic Release Inventory System (TRIS); the Permit Compliance System of Toxic Wastewater Discharges (WWD); the Air Discharge Facilities Index (ADF) and the USEPA Civil Enforcement Docket. The federal listing of facilities which are subject to corrective action under the Resource Conservation and Recovery Act (CORRACTS) is discussed with the State databases of RCRA listings.
- The following state regulatory databases were reviewed to determine the regulatory status of the Property and other properties within predetermined radii: petroleum and hazardous material spills (SPILLS); Resource Conservation and Recovery Act Notifiers (RCRA); Chemical Bulk Storage (CBS); Solid Waste Facilities (SWF); Petroleum Bulk Storage (PBS); State Inactive Hazardous Waste Disposal Sites (SHWS); Hazardous Substance Disposal Site Draft Study; Hazardous Waste

Treatment, Storage or Disposal Facilities; Major Oil Storage Facilities (MOSF); Brownfield Cleanup Program (BCP); and Historic Utility Sites.

- Local agency reviews including NYC Fire Department records (obtained as part of the database search), online Buildings and Finance Departments records, and Environmental Quality Review (CEQR) E Designation Sites were conducted for the Property only.

2.0 PHYSICAL SITE DESCRIPTION

On August 14, 2014, Ms. Asya Bychkov of AKRF conducted a reconnaissance of the Property accompanied by Mr. Venicio Taveras, a parking lot representative, who answered pertinent questions. Neighboring properties were also viewed, but only from public rights-of-way. The weather was clear and approximately 75 °F, the visibility good, and the premises adequately illuminated. Photographs from the reconnaissance are included in Appendix A.

2.1 General Site Conditions

The Property was an on-ground, asphalt-paved parking lot surrounded by chain-link fence. A parking attendant's trailer supported by cinderblocks was located in the western portion of the Property. Several lampposts with apparent fluorescent lighting fixtures were observed throughout the parking lot. A billboard was located in the Property's southwestern corner. A portable petroleum-powered generator was stored next to the billboard. Pavement in portions of the Property was in poor condition (broken and pitted); however, no odors or staining were noted on-site. Food carts and a second portable generator were observed on the sidewalk adjacent to the southwestern corner of the Property, with staining noted near the generator. Trash bags and rats were also noted on the sidewalk next to the southwestern corner of the Property.

According to Mr. Taveras, the trailer was heated by an electrical heat pump. The trailer contained a parking attendant's office, restroom, and lounge area. Interior finishing materials included plastic wall and ceiling coverings, and vinyl tile floors. The finishing materials were observed to be in good condition.

Mr. Taveras and the parking attendants indicated that no chemicals were stored on-site, and that no petroleum storage tanks were present. Two 55-gallon plastic drums and a plastic container were observed in the western portion of the Property; according to Mr. Taveras, they contained water for washing vehicles.

Mr. Taveras believed that the Property has been a parking lot since the early 2000s, but was not certain of earlier uses.

2.2 Topography and Hydrogeology

The Property slopes down slightly toward the east. Based on the U.S. Geological Survey – Central Park Quadrangle map, the Property is approximately 10 feet above mean sea level. USGS mapping indicates that bedrock is anticipated to be approximately 10 to 30 feet below grade. Based on a spill report for the filling station at 401 West 207th Street, approximately 220 feet west-northwest of the Property, groundwater is anticipated to be approximately 7 to 11 feet below grade, flowing in an easterly direction. Groundwater flow is likely tidally influenced. In addition, the water table depth and groundwater flow direction can be affected by many factors including subsurface openings or obstructions such as basements, underground utilities, bedrock geology, and other factors beyond the scope of this assessment. Groundwater in Manhattan is not used as a source of potable water.

The U.S. Fish and Wildlife Service National Wetlands Index online wetlands map identified the Harlem River as an Estuarine and Marine Deepwater wetland. The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the Property indicated that the eastern portion of the Property was located the 100-year flood zone, and the entire Property was within the 500-year flood zone.

2.3 Storage Tanks

2.3.1 Underground Storage Tanks (USTs)

During the reconnaissance, no evidence, such as vent pipes, fill caps, or concrete patches, was observed that would indicate USTs are or were present. Additionally, the review of regulatory databases and computerized NYC Fire Department (FDNY) and NYC Buildings Department (DOB) records did not reveal any records relating to USTs on the Property.

Off-site USTs are discussed in Section 5.2.2.

2.3.2 Aboveground Storage Tanks (ASTs)

During the reconnaissance, no evidence, such as tanks or vaults likely to contain tanks, vent pipes or fill caps was observed during the reconnaissance to indicate that ASTs are or were present. Additionally, the review of regulatory databases and computerized FDNY and DOB records did not reveal any records relating to ASTs on the Property.

Off-site ASTs are discussed in Section 5.2.2.

2.4 Polychlorinated Biphenyls (PCBs)

Until 1979, polychlorinated biphenyls (PCBs), which provided beneficial insulating properties, were used in a variety of products, in particular electrical equipment such as transformers, capacitors, fluorescent light fixtures, and voltage regulators, but also in hydraulic fluids and some other products such as caulking.

Based on the age of the existing parking lot (created between 1996 and 2004), fluorescent lighting fixtures and electrical equipment in the attendant's trailer and lighting fixtures in the parking lot are not likely to contain PCBs. No evidence of leaks or stains from this equipment was observed.

2.5 Lead-Based Paint

After 1977, the use of lead-based paint inside commercial structures was restricted and its use elsewhere became less common, but lead-based paint may still sometimes be used outdoors. Lead-based paint can present a hazard, particularly to children, especially when it is in poor condition.

Based on the age of the parking lot, interior painted surfaces are unlikely to contain lead-based paint. Interior and exterior painted surfaces on the attendant's trailer were observed to be in good condition. During the reconnaissance, there was no observation of residential occupancy, child care facilities, or other facilities where the extended presence of children would be expected on the Property. The south-adjacent University Heights Bridge may be covered with lead-based paint, which may have affected shallow soils at the Property (particularly before the entire Property was paved).

Activities (such as renovation or demolition) with the potential to disturb lead-based paint are subject to a variety of requirements, including US Occupational Safety and Health Administration regulation 29 CFR 1926.62 (Lead Exposure in Construction).

2.6 Utilities

Consolidated Edison provides electricity to the Property and the surrounding area. The Property is connected to New York City municipal water and sewer systems. No storm drains were noted on the Property.

2.7 Waste Management and Chemical Handling

Commercial trash was generated on the Property. No chemical storage was observed. According to Mr. Taveras, no hazardous waste was generated and no chemicals were stored on the Property.

2.8 Radon

Radon is a colorless, odorless gas most commonly produced by the natural radioactive decay of certain rocks. According to a New York State Department of Health database, the average level of radon found in basements in Manhattan is 2.08 picocuries/liter, below the USEPA recommended action level of 4.0 picocuries/liter.

3.0 ASBESTOS-CONTAINING MATERIALS (ACM)

Asbestos refers to a group of natural minerals that provide good fire resistance and insulation. Asbestos is also commonly found in vinyl flooring, plaster, sheetrock, joint compound, ceiling tiles, roofing materials, gaskets, mastics, caulks and other products. Materials containing more than one percent asbestos are considered asbestos-containing materials (ACM). ACM are classified as either friable (i.e., more readily release fibers, such as most spray-applied fireproofing) or non-friable (such as floor tiles).

Suspect ACM vinyl floor tiles were observed in the parking attendant's trailer during the reconnaissance. The tiles were observed to be in fair condition. ACM (such as mastic beneath the floor tiles and roofing materials) may also be present in other locations not readily accessible during the reconnaissance.

This reconnaissance did not constitute and cannot substitute for an asbestos survey, which includes comprehensive inspection and material sampling with laboratory testing. Regulatory requirements for ACM (or suspect ACM until proven not to be ACM) include maintenance requirements and, prior to any renovation or demolition, inspection/sampling by a NYC-certified asbestos investigator to determine whether the project will disturb ACM. Any such ACM (and any other ACM subsequently identified) must be removed prior to the renovation or demolition.

4.0 ADJACENT LAND USE

The surrounding area was mixed-use and included apartment buildings, commercial uses, warehouses, a large NYCTA rail yard to the north and northwest of the Property across Ninth Avenue, and a filling station west of the Property across Ninth Avenue. An apparent monitoring well was observed west-adjacent to the Property in the Ninth Avenue sidewalk; this well may have been installed as part of an environmental investigation at the filling station. An on-ramp for the University Heights Bridge was south-adjacent to the Property. The Harlem River was east-adjacent to the Property, with a small cove (Inwood's North Cove) north-adjacent to the Property. Some dumped trash and cardboard boxes were noted on the riverbanks adjacent to the Property.

5.0 PROPERTY HISTORY AND RECORDS REVIEW

5.1 Prior Ownership and Usage

5.1.1 Historical Land Use Maps

Historical maps were reviewed for indications of uses (or other evidence) suggesting hazardous materials generation, usage or disposal on or near the Property. Specifically, Sanborn Fire Insurance Maps from 1893, 1900, 1913, 1922, 1928, 1935, 1951, 1968, 1979, 1989, and 2007 were reviewed.

1893

The Property was shown as vacant. The northeastern corner of the Property was shown within the Harlem River.

The surrounding area was primarily vacant but divided into city blocks. Sparse development with small apparent dwellings was shown several blocks to the northwest. The Harlem River was shown east-adjacent to the Property, with several inlets south of the Property (the nearest one was three blocks to the south).

1900

The Harlem River shoreline on the Property was shown further west compared to the 1893 map, with a larger portion of the Property (approximately the eastern one-third) within the river. The remainder of the Property was shown as vacant land subdivided into lots.

The surrounding area was generally similar to the 1893 map, although the surrounding blocks had been subdivided into lots. The Harlem River shoreline was shown to have shifted somewhat, with the former inlets south of the Property apparently filled, and with the shoreline moving further west compared to the 1893 map immediately north and south of the Property. A laundry (possibly with dry cleaning, which generally used petroleum-based solvents at the time) was shown on the north-adjacent block.

1913

The Property remained similar to the 1900 map.

Sparse development with stores and dwellings was noted in the surrounding area. A laundry was no longer shown on the north-adjacent block. The Manhattan Boat Works was shown on the eastern portion of the north-adjacent block (within the Harlem River). The Fordham Bridge approach was south-adjacent to the Property. A cleaner with four 275-gallon gasoline USTs was shown approximately 400 feet northwest of the Property at 409 West 209th Street. An Interboro Rapid Co. railroad was shown one block to the west, running along Tenth Avenue.

1922

Due to the map scale, limited details of the Property and surrounding area were shown. However, no significant changes from the 1913 map were noted.

1928

Due to the map scale, limited details of the Property and surrounding area were shown. However, no significant changes from the 1913 map were noted. The eastern portion of the Property was not shown as being underwater (possibly due to the level of map detail).

A large New York City Rapid Transit System rail yard, with several repair and maintenance buildings, was shown north and northwest of the Property across Ninth Avenue. This rail yard included the location of the former cleaner at 409 West 209th Street. The former Fordham Bridge was labeled as the University Heights Bridge. Several industrial and utility facilities were shown several blocks north and south of the Property on the banks of the Harlem River, but appeared unlikely to affect the Property based on their distance and the anticipated groundwater flow direction.

1935

The eastern portion of the Property was shown within the Harlem River, similar to the 1922 map. Several houseboats were shown in this area. The western portion of the Property included three one-story sheds, a one-story (plus basement) auto sales and service shop, and an auto wrecking yard. The remainder of the Property was vacant.

A houseboat was shown on West 208th Street (labeled as "not open") between the Property and the north-adjacent block. The west-adjacent block included a filling station, a garage with gasoline USTs, and numerous one-car parking garages. A bathhouse with a swimming pool was shown on the southwest-adjacent block. An auto body works and a garage with gasoline USTs were shown on the south-adjacent block, with additional garages with gasoline USTs shown further south. No further significant changes from the 1928 map were noted.

1951

Two additional one-story sheds were shown on the Property, which was otherwise similar to the 1935 map. The auto wrecking yard extended from the Property off-site onto the north-adjacent block.

The surrounding area was more densely developed with residential and commercial uses compared to the 1935 map. A parking lot and a filling station were shown southwest of the Property across the intersection of Ninth Avenue and West 207th Street. The former garage on the south-adjacent block was labeled as a carpet cleaner, and a new auto repair shop was shown on the same block. A furniture factory was shown two blocks to the south. No further significant changes from the 1935 map were noted.

1968

The western portion of the Property block appeared to have been filled, and the Property was shown as vacant land.

The former one-car garages on the west-adjacent block were no longer present. An auto sales shop and a large store were shown on the block to the southwest. An electrical product factory was shown two blocks to the southwest. The former

carpet cleaner on the south-adjacent block was shown as a warehouse, and a lumber yard was shown in the eastern portion of this block. The former furniture factory two blocks to the south was labeled as an unspecified factory; the remainder of this block was occupied by a Department of Public Works repair shop. No further significant changes from the 1951 map were noted.

1979

The Property appeared similar to the 1968 map.

A filling station and an auto repair shop were no longer shown on the block to the southwest. The former auto repair shop on the south-adjacent block was replaced by a warehouse, and the former lumber yard on this block was replaced by a factory and warehouses for Sola Metal Co. A car wash and numerous one-car garages were shown on the west-adjacent block. No further significant changes from the 1968 map were noted.

1989

The Property was labeled as a parking lot and dump.

One-car garages were no longer shown on the west-adjacent block. The former factory two blocks to the south was labeled as a truck rental and auto repair shop. No further significant changes from the 1979 map were noted.

2007

The Property was shown as vacant land.

No significant changes from the 1989 map were noted in the surrounding area.

To summarize, the historical maps indicated that the eastern portion of the Property was within the Harlem River until the mid-20th century, and was filled between 1951 and 1968 with material of unknown origin. The Property was vacant through 1928. By 1935, the western portion of the Property was developed with a one-story (plus basement) auto sales and service shop, several sheds, and an auto wrecking yard, while the eastern portion was used for mooring houseboats. Between 1968 and 1979, the Property was once again vacant. By 1989, the Property was shown as a parking lot and a dump. By 2007, the Property was again shown as vacant land.

The surrounding area was sparsely developed, primarily with dwellings, in the late 19th and early 20th centuries. The surrounding area was subsequently developed with primarily industrial, commercial and auto-related uses and a large rail yard (constructed between 1922 and 1928). Portions of the blocks south of the Property appeared to have been filled with materials of unknown origin in the early 20th century. The University Heights Bridge south-adjacent to the Property was constructed between 1900 and 1913. Nearby historical uses that may have affected subsurface conditions beneath the Property included: a laundry and a cleaner (both of which may have used petroleum-based solvents); a boat works; the rail yard; filling stations; garages with gasoline USTs; auto repair shops; factories; and a carpet cleaner (which may have used chlorinated solvents).

5.1.2 Historical Aerial Photographs

Historical aerial photographs were reviewed for evidence of prior land usage. Specifically, online 1954, 1966, 1974, 1980 and 2004 aerial photographs provided by

HistoricalAerials.com and online 1924, 1951, 1996, 2006, 2008, 2010 and 2012 aerial photographs included in the NYCityMap (http://maps.nyc.gov/doitt/nycitymap/) were reviewed.

1924

The eastern portion of the Property included six small structures (likely the houseboats shown on the 1935-1951 Sanborn maps). The Harlem River shoreline appeared to be further east than shown on the 1900-1951 Sanborn maps, possibly due to the photograph being taken at low tide. A building at the southwestern corner of the Property appeared to be the auto sales and service shop shown on the 1935 Sanborn map. The remainder of the Property was vegetated.

The surrounding area was divided into city blocks and was densely to sparsely developed with apparent dwellings and commercial or warehouse buildings. Portions of the blocks consisted of vegetated vacant land. Several small structures, vegetated vacant land, and a small cove were located on the north-adjacent block. The cove shoreline appeared to be further east than shown on the 1900-2007 Sanborn maps, possibly due to the photograph being taken at low tide. The University Heights Bridge was south-adjacent to the Property. The Harlem River was east-adjacent to the Property.

1951-1954

Due to image quality, the Property was not clearly legible. Some of the apparent houseboats located on the Property on the 1924 photograph appeared to have been moved or replaced with new houseboats. A shed was noted north-adjacent to the building in the southwestern corner of the Property (based on the 1935-1951 Sanborn maps, this shed was part of an auto wrecking yard).

The surrounding area was more densely developed with apparent residential, commercial and/or warehouse uses compared to the 1924 photograph. The shoreline of the cove to the north was further west compared to the 1924 photograph (consistent with the 1900-2007 Sanborn maps). A large rail yard was located north and northwest of the Property across Ninth Avenue.

1966

Due to image quality, the Property was not clearly legible. With the exception of a building in the southwestern corner, the Property appeared to be occupied by disturbed land or vegetation.

No significant changes from the 1951-1954 photographs were noted in the surrounding area.

1974

The former building in the southwestern corner of the Property had been demolished. The western portion of the Property was a parking lot, while the eastern portion appeared to be vegetated vacant land.

No significant changes from the 1966 photograph were noted in the surrounding area.

1980

The western portion of the Property was paved and vacant. The eastern portion remained unchanged from the 1974 photograph.

No significant changes from the 1974 photograph were noted in the surrounding area.

1996

The western portion of the Property appeared to be occupied by trailer parking and storage (possibly a junkyard). The eastern portion remained vegetated. An area of disturbed soil and/or dumping was noted in the southeastern corner of the Property.

No significant changes from the 1980 photograph were noted in the surrounding area.

2004-2012

The Property was entirely occupied by a paved parking lot, with an apparent attendant's trailer at its western edge. Some photographs showed the north-adjacent cove as exposed land due to tidal fluctuations.

No significant changes from the 1996 photograph were noted in the surrounding area.

To summarize, the aerial photographs indicated that between 1924 and 1954, the western portion of the Property was occupied by a structure (likely the auto sales and service shop shown on the 1935 Sanborn map) and the eastern portion of the Property was occupied by apparent houseboats. By 1966, the houseboats were no longer present and the eastern portion of the Property was vegetated and vacant. By 1974, the on-site structure had been demolished and the western portion of the Property was a parking lot. By 1980, the western portion of the Property was a paved vacant area. By 1996, this area was occupied by apparent trailer parking and storage (possibly a junk yard), and an area of disturbed soil and/or dumping was noted in the eastern portion of the Property. By 2004, the Property was entirely occupied by a paved parking lot (its current use).

The surrounding area was densely to sparsely developed with apparent dwellings and commercial or warehouse buildings by 1924, with some vegetated vacant land on nearby blocks. The University Heights Bridge was constructed prior to 1924. By the mid-20th century, the surrounding area was densely developed with apparent residential, commercial and/or warehouse uses. A large rail yard was constructed to the northwest of the Property between 1924 and 1951.

5.1.3 Property Tax Files and Zoning Records

Based on NYC Department of City Planning's Primary Land Use Tax Output (PLUTO) information provided by Toxics Targeting, Inc. of Ithaca, New York, the Property tax lots are zoned as M1-1 (light manufacturing – high performance), with Lot 1 classified as G6 (licensed parking lot) and Lot 10 classified as V1 (vacant land). No buildings were listed on either lot.

5.1.4 Recorded Land Title Records

No title records were obtained for the Property.

5.1.5 Local Street Directories

City Directories prepared by Environmental Data Resource, Inc. were reviewed. The City Directories consisted of the names of businesses located on-site and in adjacent properties, compiled from city and telephone directories and listed at approximately four-year intervals starting with 1920. The directories identified the Property address as "207 Garage" in 2006 through 2013, possibly referring to the existing parking lot.

Nearby uses with the potential to affect subsurface conditions beneath the Property included auto sales in 1963-1968 at 3884 Ninth Avenue, and a car wash (1973-198) and filling station (1934-2008) at 401 West 207th Street. Both of these were located west of the Property across Ninth Avenue. An auto repair shop was listed in 1963 at 390 West 207th Street, south of the Property across West 207th Street.

The City Directory search results are included in Appendix E.

5.2 Regulatory Review

Toxics Targeting, Inc. of Ithaca, New York, was contracted to obtain information regarding the regulatory status of the property and the surrounding area. This information included records from databases maintained by the USEPA and New York State Department of Environmental Conservation (NYSDEC). AKRF reviewed these records to identify the use, generation, storage, treatment and/or disposal of hazardous material and chemicals, or releases of such materials which may impact the project site. All applicable regulatory databases meet ASTM guidelines requesting utilization of information within 90 days' receipt from the appropriate agency. Copies of the pertinent sections of the Toxics Targeting, Inc. report are included in Appendix B.

5.2.1 Federal

The federal records reviewed included the National Priority List (NPL); Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS); Emergency Response Notification System (ERNS); Toxic Chemical Release Inventory System (TRIS); the Permit Compliance System of Toxic Wastewater Discharges (WWD); and the USEPA Civil Enforcement Docket. The federal listing of facilities which are subject to corrective action under the Resource Conservation and Recovery Act (CORRACTS) is discussed with the State databases of RCRA listings.

National Priority List (NPL)

The NPL is the USEPA's database of some of the most serious uncontrolled or abandoned hazardous waste sites identified for probable remedial action under the Superfund Program. These sites may constitute an immediate threat to human health and the environment. Due to the amount of public attention focused on NPL sites, they pose a significant risk of stigmatizing surrounding properties and potentially impacting property values.

One NPL site was identified within a one-mile radius of the Property. The Hudson River PCB Sediments site, associated with sediment contamination in the Hudson River, approximately 0.8 miles west of the Property, is not anticipated to affect the Property based on its location and listing details.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)

CERCLIS is a compilation of known or suspected, uncontrolled or abandoned hazardous waste sites which the USEPA has investigated, or plans to investigate, for a release, or threatened release, of hazardous substances pursuant to the Superfund Act of 1980 (CERCLA). Some of these sites may constitute a potential threat to human health and the environment. While it has been determined by the USEPA that some CERCLIS sites require no action, others could pose a real or perceived environmental threat to neighboring properties, thus affecting property values.

One CERCLIS site was reported within a one-mile radius of the Property. The Hudson River PCB Sediments site, located approximately 0.8 miles west of the Property, was not anticipated to have affected the Property based on its location and listing details.

Emergency Response Notification System (ERNS)

This federal database, compiled by the Emergency Response Notification System, records and stores information on reported releases of petroleum and other potentially hazardous substances.

One potentially on-site ERNS listing was identified. According to the listing, a discharge of approximately 12 gallons of ethyl ether (a solvent) was reported on Ninth Avenue at an unspecified date, suggesting that the spill affected the East River or the river's shoreline. The U.S. Coast Guard reportedly responded and cleaned up the spill. The spill may have occurred in close proximity to the Property, although the potential for significant impact is limited based on the reported size of the spill.

Toxic Chemical Release Inventory System (TRIS)

The TRIS contains information reported to the USEPA and/or NYSDEC by a variety of industries on their annual estimated releases of certain chemicals to the environment. The TRIS was mandated by Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986. Available information includes the maximum amount of chemicals stored on-site; the estimated quantity emitted into the air, discharged into bodies of water, injected underground, or released to land; methods used in waste treatment and their efficiency; and data on the transfer of chemicals off-site.

No Toxic Chemical Release Inventory System (TRIS) sites were identified within a ⅛-mile radius of the Property.

Permit Compliance System of Toxic Wastewater Discharge (WWD)

This federal- and state-maintained database contains a listing of sites which discharge wastewater containing potentially hazardous chemicals.

No WWD facilities were reported within a ⅛-mile radius of the Property.

United States Environmental Protection Agency Civil Enforcement Docket

This database is the USEPA's system for tracking civil judiciary cases filed on behalf of the agency by the Department of Justice.

One facility was listed in the USEPA's Civil Enforcement Docket within a ⅛-mile radius of the Property. The 207th Street Subway Yard, located approximately 100 feet northwest of the Property, was listed with no docket details provided. Based on other listings for

this facility, the 207th Street Subway Yard may have affected subsurface conditions beneath the Property.

5.2.2 State

The state records reviewed included the listings of hazardous material spills (SPILLS); Resource Conservation and Recovery Act Notifiers (RCRA); Chemical Bulk Storage (CBS) Sites; Solid Waste Facilities (SWF); Petroleum Bulk Storage (PBS) Sites; State Inactive Hazardous Waste Disposal Sites (SHWS); State Hazardous Substance Waste Disposal Sites (SHSWDS); Major Oil Storage Facilities (MOSF); Air Discharge Facilities (ADF); Brownfields Cleanup Program (BCP) Sites; and Historic Utility Facilities.

New York SPILLS Database

The New York SPILLS database includes a list of releases reported to the NYSDEC, including those attributed to tank test failures and tank failures. The tank test failures list only covers tanks that are below ground, while the tank failures list includes those that are either below or above ground. This database also lists spills that occur during the transportation of chemicals.

Five hundred and thirty spills were reported within a ½-mile radius of the Property, including 33 active-status spills and 497 closed-status spills. Releases with some potential to affect subsurface conditions beneath the Property included the following:

- The NYCTA 207th Street rail yard, located at 3961 Tenth Avenue, approximately 630 feet north of the Property (but potentially up to approximately 100 feet north or northwest depending on the exact spill location), was listed with one active-status tank test failure reported in September 2001 (Spill No. 0106375). According to the listing, two 35,000-gallon No. 6 fuel oil USTs failed a tightness test, and subsequent investigation revealed soil contamination and oil floating on groundwater. The tanks and contaminated soil were to be removed in 2008; no further information was provided. In addition, 14 closed-status spills were reported for the rail yard facility between 1989 and 2011, including a No. 6 fuel oil tank test failure, releases of various contaminants with no significant subsurface impact reported, and releases of petroleum and an alkaline cleaning chemical to the Harlem River.

  In addition, a closed-status spill reported in December 1987 identified 3961 Tenth Avenue as a filling station; however, based on the listing details, this spill in fact occurred at 3761 Tenth Avenue and is not likely to have affected the Property based on its distance and the anticipated groundwater flow direction.

- Hess Station 32515, located at 401 West 207th Street, approximately 190 feet west-northwest of the Property, was listed with an active-status spill reported in May 2002 (Spill No. 0201957). According to the listing, gasoline-contaminated soil and groundwater, as well as gasoline floating on groundwater, were identified. A soil vapor extraction system operated through 2009, and groundwater monitoring through April 2013 (the most recent listing update) indicated elevated concentrations of gasoline-related compounds including the gasoline additive MTBE in groundwater. The listing indicated that groundwater was encountered approximately 7 to 11 feet below grade, flowing toward the east. In addition, six closed-status spills were

reported for this facility between 1995 and 2013, including a gasoline tank test failure, spills resulting in subsurface contamination, and minor releases.

- In May 2007, contaminated soil was reportedly encountered during a utility excavation at the intersection of West 207th Street and Ninth Avenue, approximately 70 feet west of the Property. The spill was reportedly cleaned up, and the listing was closed in November 2007. A similar spill was reported in April 2007; the filling station at 401 West 207th Street was believed to be the source. This spill was also cleaned up, and the listing was closed in June 2007.

Based on listing details, status, distance, and/or the anticipated groundwater flow direction, the remaining listings are not likely to have affected subsurface conditions beneath the Property. Details from all listed spills are included in Appendix C.

Resource Conservation and Recovery Act (RCRA) Notifiers Listings

The NYSDEC's Bureau of Hazardous Waste Facility Compliance regulates hazardous waste from the point of generation to the point of disposal. The identified sites tracked on this list are those which have filed notification forms in accordance with the Resource Conservation and Recovery Act requirements regarding their hazardous waste activity. These sites include treatment, storage and disposal facilities (TSDs); small-quantity and large-quantity generators; and transporters of hazardous waste regulated under RCRA. The discussion below includes any CORRACTS listings of facilities which are subject to corrective action under RCRA.

No TSD facilities were identified within a ½-mile radius of the Property. No CORRACTS sites were reported within a one-mile radius of the Property.

Twenty-four RCRA generators were reported within a ⅛-mile radius of the Property. Facilities with some potential to affect subsurface conditions beneath the Property, based on proximity and/or the nature of the listings, are as follows:

- The south-adjacent University Heights Bridge was listed twice in the database. The listings may have been associated with lead-based paint removal; however, no listing details were provided.
- A Consolidated Edison structure at the intersection of West 207th Street and Ninth Avenue, approximately 70 feet west of the Property, was listed as a generator of PCB-contaminated liquids and solids in 2007; this listing may be associated with contamination encountered in a utility excavation at this intersection in April and May 2007.
- Amerada Hess Corporation, located at 401 West 207th Street, approximately 190 feet west-northwest of the Property, was listed as a generator of ignitable solid waste in 1996.
- The NYCTA 207th Street rail yard, located at 3961 Tenth Avenue, approximately 630 feet north of the Property (but potentially up to approximately 100 feet north or northwest), was listed five times as a generator of various waste including: heavy metal waste; ignitable and corrosive solid waste; PCB-contaminated solids and liquids; PCB-containing transformers; spent halogenated and non-halogenated solvents; tetrachloroethylene; 1,1,1-trichloroethane; acetone; benzene, toluene and xylene; and methyl ethyl ketone between 1982 and 2014. The listings noted

numerous RCRA and state regulation violations between 1982 and 2010, all of which were returned to compliance.

Releases associated with the above sites were recorded in the SPILLS database. Based on their location and/or listing details, the remaining RCRA facilities are not anticipated to have affected the Property.

Chemical Bulk Storage (CBS) Database

The New York CBS is a list of facilities that store regulated non-petroleum substances in aboveground tanks with capacities greater than 185 gallons and/or in underground tanks of any size.

No CBS sites were listed within a ⅛-mile radius of the Property.

Solid Waste Facilities (SWF)

This database includes a listing of landfills, incinerators, transfer stations, recycling centers, and other sites which manage solid waste.

One Solid Waste Facility (SWF) was listed within one mile of the Property, approximately 470 feet to the southeast across the intervening Harlem River. In addition, a 1934 New York City municipal waste disposal site was identified approximately 0.45 mile northwest of the Property at the intersection of Seaman Avenue and West 207th Street. Based on their distance and the anticipated groundwater flow direction, these facilities are not expected to have affected environmental conditions at the Property.

Petroleum Bulk Storage (PBS) Database

The New York State PBS lists commercial facilities with registered petroleum tanks located either above or below ground in excess of 1,100 gallons and less than 400,000 gallons.

The Property address was not listed in the PBS database. Nine facilities were listed within a ⅛-mile radius of the Property. Details of PBS facilities with some potential to affect environmental conditions at the Property based on their proximity and/or listing details are listed in Table 1.

Table 1
Area Petroleum Bulk Storage Facility Data

Location	Capacity (gallons)	Product Stored	Status	Approximate Distance/Direction from Property
Ninth Avenue Shop 3884 Ninth Avenue (part of NYCTA rail yard)	2 x 275 AST	Waste Oil	In Service	75 feet / west

Table 1
Area Petroleum Bulk Storage Facility Data

Location	Capacity (gallons)	Product Stored	Status	Approximate Distance/Direction from Property
Hess 32517 401 West 207th Street	4 x 4,000 UST	Gasoline	Closed-Removed	190 feet / west-northwest
	2 x 2,000 UST	Gasoline	Closed-Removed	
	2,000 UST	No. 2 Fuel Oil	Closed-Removed	
	2 x 550 UST	Other	Closed-Removed	
	36 x 550 UST	Gasoline	Closed-Removed	
	4 x 4,000 UST	Gasoline/Ethanol	In Service	
	4,000 UST	Diesel	In Service	
	550 UST	Other	In Service	
NYCTA 207th Street Overhaul Shop 3961 Tenth Avenue	120 AST	Kerosene	Closed-Removed	630 feet / north (potentially within 100 feet of the Property)
	35,000 UST	No. 6 Fuel Oil	In Service	
	35,000 UST	No. 6 Fuel Oil	Temp. Out of Service	
	275 AST	No. 2 Fuel Oil	Closed-Removed	
	35 AST	Diesel	Closed-Removed	
	180 AST	Diesel	In Service	
	400 AST	No. 2 Fuel Oil	In Service	
	12 AST	Diesel	In Service	
	6 x 120 AST	Waste Oil	In Service	

Notes: AST – above-ground storage tank
UST - underground storage tank

Active and closed-status spills with some potential to affect the Property were reported for 401 West 207th Street and 3961 Tenth Avenue. Based on listing details, distance and/or the anticipated groundwater flow direction, the remaining PBS listings are unlikely to have affected the Property. No releases with the potential to affect the Property were reported for the other PBS facilities. Details of the PBS facilities located within ⅛ mile of the Property are included in Appendix C.

State Inactive Hazardous Waste Disposal Site Registry (SHWS)

This database maintains information and aids decision-making regarding the investigation and clean-up of hazardous sites. The Registry's information includes the clean-up status, type of clean-up, types and quantities of contaminants involved, and the assessment of health and environmental concerns. SHWS records are the state's equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list.

Three State Inactive Hazardous Waste Disposal Sites were reported within a one-mile radius of the Property. Based on their locations more than 0.75 miles away across the intervening Harlem River, these facilities are not anticipated to have affected the Property.

State Hazardous Substance Waste Disposal Site Study (SHSWDS)

This database tracks waste disposal sites that may pose threats to public health or the environment, but that cannot be remediated using monies from the Hazardous Waste Remediation Fund.

No SHSWDSs were identified within a ½-mile radius of the Property.

Major Oil Storage Facilities (MOSF) Database

These facilities may be on-shore facilities or vessels with petroleum storage capacities of 400,000 gallons or more.

No Major Oil Storage Facilities were reported within a one-mile radius of the Property.

Air Discharge Facilities Index (ADF)

This listing of sites tracked by the New York State Regulatory Compliance Information System includes address information on each facility and the source of its associated air emissions.

Four ADFs were identified within a ⅛-mile radius of the Property as follows:

- Manhattan Recycling Center, located at 332 West 207th Street, approximately 120 feet south-southwest of the Property, was listed for potential discharges of chlorofluorocarbons (CFCs). No applicable state regulations were noted.
- Merit, located at 401 West 207th Street, approximately 190 feet west-northwest of the Property, was listed for potential discharges of volatile organic compounds (VOCs), and was reportedly in compliance with the applicable regulations.
- The NYCTA – 207th Street Shop, located at 3961 Tenth Avenue, approximately 630 feet north of the Property (but potentially up to approximately 100 feet north or northwest), was listed for potential discharges of CFCs (with no applicable state regulations noted) and VOCs (reportedly in regulatory compliance). A second listing for this facility contained no discharge information.

Discharges associated with these facilities may have affected subsurface conditions beneath the Property.

Environmental Restoration Program (ERP)

These sites (which are generally municipally-owned) are receiving New York State funding for site investigation and remediation. Some sites in this program have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

No ERP sites were identified within a ½-mile radius of the Property.

Voluntary Cleanup Program (VCP)

The Voluntary Cleanup Program is a NYSDEC program for investigation and remediation of (generally) privately-owned sites. Some sites in this program have known contamination, whereas others have not had sufficient investigation to determine whether contamination is present.

One VCP site was identified within a ½-mile radius of the Property. Based on its location more than 1,200 feet away, across the intervening Harlem River, this listing is not likely to have affected the Property.

Brownfield Cleanup Program (BCP) Sites

In 2003, a New York State law established this successor to the Voluntary Cleanup Program. In addition to liability releases, it established a variety of tax credits for sites

remediated through the program. Some sites in this program have known extensive contamination, whereas others have more limited contamination or have not had sufficient investigation to determine whether or not contamination is present.

No BCP sites were listed within a one-mile radius of the Property.

Historic Utility Facilities

This is an inventory of selected power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites identified in various historic documents, maps and annual reports from 1898 to 1950.

No Historic Utility Sites were listed within a ⅛-mile radius of the Property.

5.2.3 Local

Records available online from the New York City Fire, Buildings and Finance Departments were viewed for the Property. The Fire Department records were obtained by Toxics Targeting, Inc. as part of the regulatory database search. Since the records typically address a multitude of issues, the review focused on items likely to relate to the potential presence of hazardous materials, e.g., petroleum tank installation applications and permits, and records indicating prior uses. Copies of pertinent information are included in Appendices C (Fire Department Records) and D (Buildings and Finance Department Records).

Fire Department (FDNY)

The computerized FDNY Tanks database was searched regarding past or current motor vehicle fuel and heating oil tank listings within a ⅛-mile radius of the Property. The Property was not identified in the FDNY database. Two listings were identified in computerized FDNY tank records within this radius. The filling station at 401 West 207th Street, approximately 220 feet west-northwest of the Property, was listed under an alternate address (3876 Ninth Avenue) with two 2,000-gallon tanks, four 4,000-gallon tanks, and a lube oil tank. No further information was provided; however, additional information about this facility is summarized in Section 5.2.2. Known spills and potential undetected releases from this facility may have affected the Property.

Based on distance and anticipated groundwater flow direction, the remaining Fire Department listing is unlikely to have affected the Property.

Buildings Department (DOB)

Computerized Buildings Department records for the Property tax lots identified the following:

- Two new building permits dated 1919 and 1959.
- A 1931 Certificate of Occupancy (C of O) for a one-story auto showroom, service station and repair shop, with a boiler room in the basement.
- Three demolition permits dated 1961, 1967 and 2001.
- A 1968 C of O for a parking lot with an attendant's shelter.
- A 2005 application to extend a parking lot on Lot 1 (the western portion of the Property) onto Lot 10 (its eastern portion).

Most of the other listed actions were associated with various inspections, alterations and repairs. Files pertaining to the new building permits and demolition permits were unavailable for review.

Land Title Records and Tax Records

Electronic property transaction records for the Property tax lot were reviewed from the New York City Department of Finance Office of the City Register Automated City Register Information System (ACRIS).

Lot 1

Year	Grantor/Grantee Listed on Deed
1966	Grantor: H & C Realty Corp.; Grantee: Rae F. Cronin
1966	Grantor: Rae F. Cronin; Grantee: Bannockburn Realty Corp.
1999	Grantor: Pathmark Stores, Inc.; Grantee: Kotel Partners LLC.
2004	Grantor: Kotel Partners LLC.; Grantee: MFC Realty Corp.

Lot 10

Year	Grantor/Grantee Listed on Deed
1999	Grantor: Pathmark Stores, Inc.; Grantee: Kotel Partners LLC.
2004	Grantor: Kotel Partners LLC.; Grantee: MFC Realty Corp.

Records for Lot 10 also included three Certificates of Tax Lien Sale between the City of New York (grantor) and Bank of New York (grantee), dated 2006, 2009 and 2010. The certificates indicated that Lot 10 was among several tax lots (the remainder were off-site) which were assigned tax liens. A 2008 Discharge of Tax Lien indicated that the 2006 lien on Lot 10 was addressed. Based on the available information, there was no evidence that the tax liens were associated with environmental conditions.

The title information search did not indicate evidence of environmental liens, RECs, or activity and use limitations (AULs) associated with environmental conditions for the Property.

Department of City Planning

A search of NYC Environmental Quality Review Requirements (CEQR) data by Toxics Targeting, Inc. did not identify (E) designations within a ⅛-mile radius of the Property.

5.2.4 Additional Environmental Record Sources

To enhance the search, ASTM requires that additional local records be reviewed (i.e., beyond those included as part of the standard database search or checked online) when, in judgment of the environmental professional, such records for the Property or any adjoining property would be reasonably ascertainable; useful, accurate and complete in light of the objective of the records review. These records may include:

- Local Brownfields Lists
- Local Lists of Landfill/solid waste disposal sites
- Local Lists of Hazardous Waste/Contaminated Sites
- Local Lists of Registered Tanks
- Local Land Records (for activity use limitations)

- Records of emergency release reports
- Records of contaminated public wells

Sources for these records include:

- Department of Health/Environmental Division
- Fire Department
- Building Permit/Inspection Department
- Local/Regional Pollution Control Agency
- Local/Regional Water Quality Agency
- Local Electric Utility (for PCB records)

A Freedom of Information Law (FOIL) request for additional information regarding nearby active spills No. 0106375 and 0201957 was submitted to the NYSDEC. As of the date of this report, NYSDEC has not responded to the FOIL request. If issues of potential concern are noted upon receipt of this information, an addendum to this report will be created to discuss relevant findings.

In AKRF's judgment, no other additional local records meeting the ASTM criteria are pertinent for the Property or any adjoining properties, and a review of additional records would not likely add significant pertinent information or affect the conclusions of this report.

6.0 USER-PROVIDED INFORMATION

In preparing this Phase I ESA, AKRF requested that Maddd Equities provide any pertinent information regarding the Property, specifically:

- Whether any *environmental liens* or *activity and land use limitations (AULs)* are in place or filed or recorded against the Property?
- Whether they had any specialized knowledge or experience related to the Property or nearby properties (e.g., specialized knowledge of any chemicals used on-site)?
- Whether the (anticipated) purchase price reflects that the Property is or could be contaminated?
- Whether they were aware of commonly known or reasonably ascertainable information about environmental conditions of the Property?
- Whether they were aware of any obvious indicators of contamination at the Property?
- Whether they were aware of any pending, threatened, ongoing or past litigation/enforcement action/consent order/notice of violation related to hazardous substances or petroleum products?

The Phase I was performed as part of due diligence for potential purchase of the Property. Mr. William Bollinger of Maddd Equities was not aware of any: environmental liens or other activity use limitations on the Property; Property value reduction due to environmental issues; pending, threatened, ongoing or past litigation/enforcement action/consent order/notice of violation related to hazardous substances or petroleum products; or obvious indicators of contamination on the Property. To the extent that pertinent additional information was provided, it has been summarized elsewhere in this report.

7.0 PREVIOUS STUDIES

No previous studies were provided to AKRF.

8.0 LIMITATIONS AND DATA GAPS

This assessment met the requirements of the American Society for Testing and Materials (ASTM) as established by ASTM Standard E1527-13 at the time it was performed, with the following limitations:

- Results of this investigation are valid as of the dates on which the investigation was performed.
- Portions of the Property pavement were obscured by parked vehicles, which limited the ability to inspect them for staining and surface features.
- Interviews and user-provided information were limited to those discussed in Section 6.0. To the extent that interviews were not conducted with the list of interviewees cited in the ASTM Standard (past and present owners, operators, and occupants of the Property and local government officials), AKRF does not believe that this represents a significant data gap likely to result in additional or significantly changed recognized environmental conditions or conclusions.
- The Property area history was not conducted in five-year intervals. However, sufficient information about the history of the site and surrounding area could be obtained from the available historical Sanborn maps and aerial photographs, and this data gap is not likely to alter the conclusions of this report.
- Agency file reviews for the Property and adjacent properties consisted of a review of standard databases and electronic records maintained by pertinent departments and agencies (summarized in Section 5.2). AKRF believes that this file review was sufficient in determining the potential for recognized environmental conditions or other environmental concerns at the Property and additional reviews beyond this are not warranted and would not likely change the conclusions of this assessment.

9.0 FINDINGS

This assessment revealed the following Recognized Environmental Conditions (RECs), Controlled RECs (CRECs), Historic RECs (HRECs), *De Minimis* Conditions and/or Environmental Concerns:

Recognized Environmental Conditions (RECs)

- Historical uses of the Property included: a one-story (plus basement) auto sales and service shop in the southwestern corner; auto wrecking in the northeastern corner; houseboat mooring; trailer parking; dumping; and vacant land. The eastern portion of the Property was within the Harlem River until the mid-20th century, and was filled between 1951 and 1968 with material of unknown origin. The former bed of the Harlem River beneath this portion of the Property has a high potential to contain hazardous materials.
- No evidence of past or present on-site petroleum storage tanks was identified. However, historical uses of the Property (particularly the auto service building present in its southwestern corner between 1931 and 1954) would likely have included tanks, which may have been removed or may remain beneath the Property.
- The surrounding area historically included a laundry and cleaner (which may have used petroleum-based solvents based on their age), a carpet cleaner (which may have used chlorinated solvents based on its age), a boat works, filling stations, garages with gasoline USTs, auto repair shops, and factories. A large rail yard was constructed north and northwest of the Property across Ninth Avenue between 1922 and 1928. The rail yard and a filling station located west of the Property across Ninth Avenue were observed during the reconnaissance, and were identified in the regulatory database with active- and closed-status spill listings, hazardous waste generator listings, and petroleum bulk storage (PBS) tank registrations. A monitoring well observed west-adjacent to the Property in the Ninth Avenue sidewalk may have been associated with an investigation conducted by the filling station. The south-adjacent University Heights Bridge may be covered with lead-based paint, which may have affected shallow soils at the Property (particularly before the entire Property was paved).

De Minimis Condition

- Two apparently abandoned portable petroleum-powered generators were observed in the southwestern corner of the site and on the adjacent Ninth Avenue sidewalk. Surface staining was noted in the vicinity of the generator on the sidewalk, but no evidence of a significant release was noted.

Other On-Site Environmental Concerns (items outside the scope of E1527-13 such as ACM, LBP and/or PCBs in building materials or fill/debris)

- Based on the age of the attendant's trailer, asbestos-containing materials (ACM) are not likely to be present. Suspect ACM vinyl floor tiles in fair condition were observed in the attendant's trailer during the reconnaissance. The trailer's roofing may include ACM.
- Based on the age of the attendant's trailer, lead-based paint is not likely to be present on interior surfaces, but could be present on exterior surfaces. Interior and exterior painted surfaces were observed to be in good condition. During the reconnaissance, there was no observation of uses at the property (such as residential occupancy or child care facilities) where the extended presence of children would be expected.

- Based on the age of the parking lot, fluorescent lighting fixtures and electrical equipment on the Property are not likely to contain polychlorinated biphenyls (PCBs). No evidence of leaks or stains from these fixtures and equipment was observed.
- Trash bags and rats were observed on the sidewalk next to the southwestern corner of the Property.

Potential for Vapor Migration

This Phase I assessment identified a potential for subsurface vapors and thus a potential for vapor migration at or onto the Property, based on the RECs noted above.

10.0 CONCLUSIONS AND RECOMMENDATIONS

This Phase I Environmental Site Assessment was performed in conformance with ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice*. Any exceptions to, or deletions from, the Standard are described in Section 8.0. The term "Recognized Environmental Condition" or REC means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The Standard also includes definitions of Historic REC (HREC), Controlled REC (CREC), and *De Minimis* Condition. A *De Minimis* Condition is defined as an environmental concern that is not a threat to human health or the environment and would not be subject to enforcement action.

Prior to its current use, the waterfront Property was at various times vacant land, houseboat mooring, auto sales and service, auto wrecking, trailer parking, and a dump. The western portion of the Property was used as paved parking or vacant since approximately 1974. The existing parking lot has occupied the Property since approximately the early 2000s. At the time of AKRF's reconnaissance, the Property included an attendant's trailer. The greater surrounding area was mixed-use and included apartment buildings, commercial uses, warehouses, a filling station, and a New York City Transit Authority (NYCTA) rail yard. The University Heights Bridge and approach roads are immediately to the south.

This assessment revealed the following:

Recognized Environmental Conditions (RECs)

- Historical uses of the Property included: a one-story (plus basement) auto sales and service shop in the southwestern corner; auto wrecking in the northeastern corner; houseboat mooring; trailer parking; dumping; and vacant land. The eastern portion of the Property was within the Harlem River until the mid-20th century, and was filled between 1951 and 1968 with material of unknown origin. The former bed of the Harlem River beneath this portion of the Property has a high potential to contain hazardous materials.
- No evidence of past or present on-site petroleum storage tanks was identified. However, historical uses of the Property (particularly the auto service building present in its southwestern corner between 1931 and 1954) would likely have included tanks, which may have been removed or may remain beneath the Property.
- The surrounding area historically included a laundry and cleaner (which may have used petroleum-based solvents based on their age), a carpet cleaner (which may have used chlorinated solvents based on its age), a boat works, filling stations, garages with gasoline USTs, auto repair shops, and factories. A large rail yard was constructed north and northwest of the Property across Ninth Avenue between 1922 and 1928. The rail yard and a filling station located west of the Property across Ninth Avenue were observed during the reconnaissance, and were identified in the regulatory database with active- and closed-status spill listings, hazardous waste generator listings, and petroleum bulk storage (PBS) tank registrations. A monitoring well observed west-adjacent to the Property in the Ninth Avenue sidewalk may have been associated with an investigation conducted by the filling station. The south-adjacent University Heights Bridge may be covered with lead-based paint, which may have affected shallow soils at the Property (particularly before the entire Property was paved).

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- Based on the age of the attendant's trailer, asbestos-containing materials (ACM) are not likely to be present. Suspect ACM vinyl floor tiles in fair condition were observed in the attendant's trailer during the reconnaissance. The trailer's roofing may include ACM.
- Based on the age of the attendant's trailer, lead-based paint is not likely to be present on interior surfaces, but could be present on exterior surfaces. Interior and exterior painted surfaces were observed to be in good condition. During the reconnaissance, there was no observation of uses at the property (such as residential occupancy or child care facilities) where the extended presence of children would be expected.
- Based on the age of the parking lot, fluorescent lighting fixtures and electrical equipment on the Property are not likely to contain polychlorinated biphenyls (PCBs). No evidence of leaks or stains from these fixtures and equipment was observed.
- Trash bags and rats were observed on the sidewalk next to the southwestern corner of the Property.

Potential for Vapor Migration

This Phase I assessment identified a potential for subsurface vapors and thus a potential for vapor migration at or onto the Property, based on the RECs noted above.

RECOMMENDATIONS

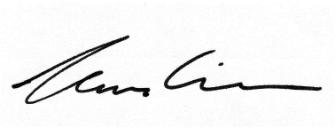
- Subsurface conditions beneath the Property may have been affected by filling with materials of unknown origin, historical uses at the Property, and/or past and present uses in the surrounding area. A subsurface (Phase II) investigation involving the collection of subsurface samples for laboratory analysis is recommended prior to Property redevelopment. It is possible that this investigation may uncover evidence of a petroleum spill or other situation reportable to NYSDEC and/or other regulatory agencies.
- If any USTs are encountered during Property redevelopment, they should be properly closed in accordance with the applicable regulations, which may include NYSDEC registration and/or spill reporting requirements.
- Suspect ACM at the Property need to be maintained in good condition in accordance with applicable regulations. Prior to any renovation or demolition activities with the potential to disturb suspect ACM, an asbestos survey of the areas to be disturbed should be conducted and any ACM that would be disturbed should be removed and disposed of in accordance with local, state and federal requirements.
- Unless there is labeling or test data indicating that fluorescent lighting fixtures are not mercury-containing, if disposal is required (e.g., as part of routine replacement or renovation activities), it should be performed in accordance with applicable federal, state, and local regulations and guidelines.

- Any activities (such as renovation or demolition) with the potential to disturb lead-based paint must be performed in accordance with applicable requirements (including federal Occupational Safety and Health Administration regulation 29 CFR 1926.62 - *Lead Exposure in Construction*).
- If disposal of any abandoned generators is required, it should be conducted properly in accordance with applicable regulations.
- Trash should be removed from the Property in a timely manner to avoid attracting rodents.

11.0 SIGNATURE PAGE

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property for which the assessment was performed. We have performed all the appropriate inquiries in conformance with standards and practices set forth in 40 CFR Part 312.



Marcus Simons
Senior Vice President



Asya Bychkov, P.E.
Environmental Engineer

12.0 QUALIFICATIONS

The purpose of this assessment was to convey a professional opinion about the potential presence or absence of contamination, or possible sources of contamination on the Property, and to identify existing and/or potential environmental issues associated with the Property including *Recognized Environmental Conditions* as defined in ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice*.

The assessment was performed in accordance with customary principles and practices in the environmental consulting industry, and in accordance with the above-referenced ASTM Standard, except as noted otherwise in Section 8.0. It should only be used as a guide in determining the possible presence or absence of hazardous materials on the Property at the time of the reconnaissance, as it is based upon the review of readily available records relating to both the Property and the surrounding area, as well as a visual reconnaissance of current conditions.

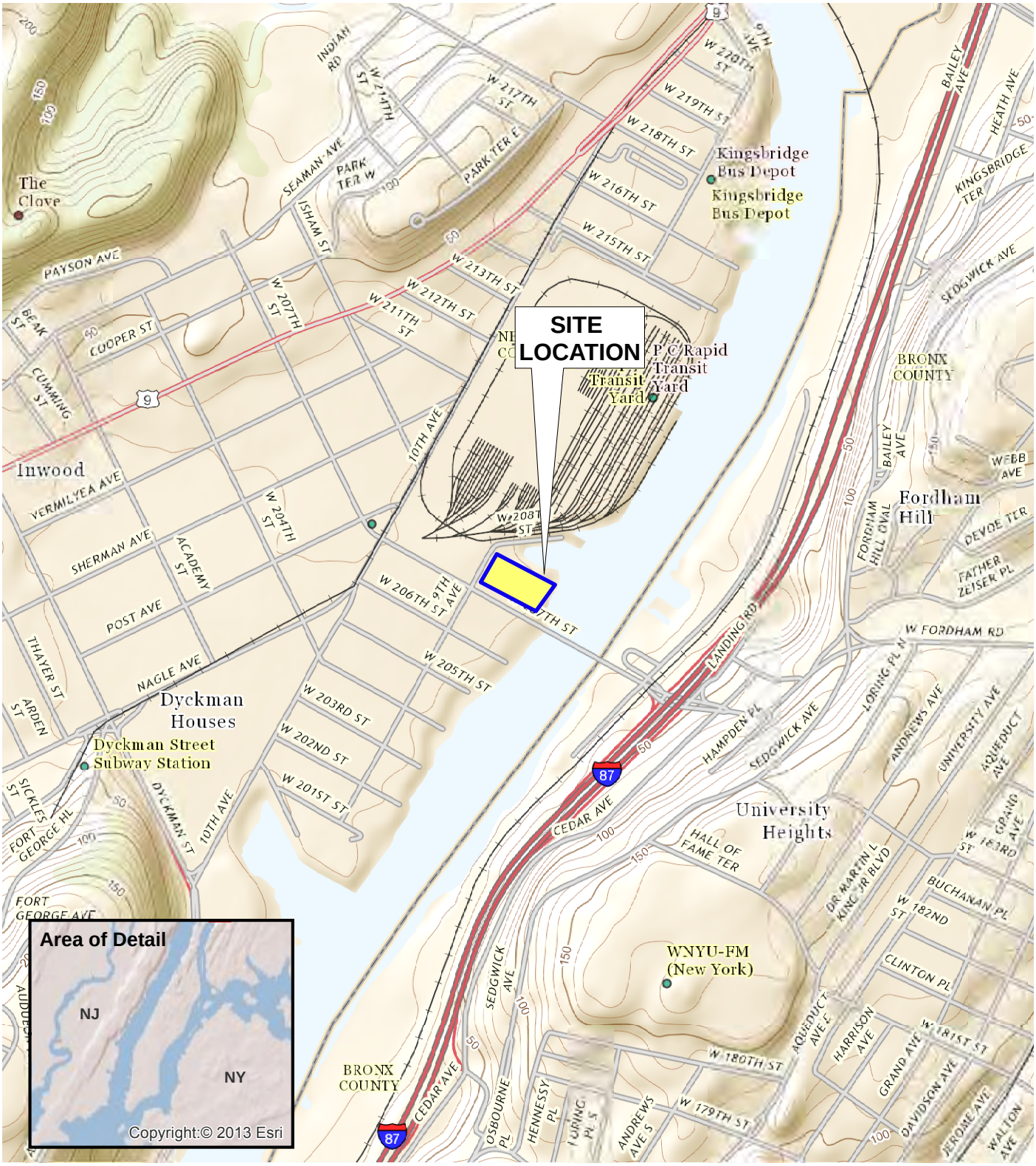
This Phase I Assessment is not, and should not be construed as, a guarantee, warranty, or certification of the presence or absence of hazardous substances, which can be made only with testing, and contains no formal plans or recommendations to rectify or remediate the presence of any hazardous substances which may be subject to regulatory approval. This report is not a regulatory compliance audit.

This report is based on services performed by AKRF, Inc. professional staff and observation of the Property and its surroundings. We represent that observations made in this assessment are accurate to the best of our knowledge, and that no findings or observations concerning the potential presence of hazardous substances have been withheld or amended. The research and reconnaissance have been carried to a level that meets accepted industry and professional standards. Nevertheless, AKRF and the undersigned shall have no liability or obligation to any party other than Maddd Equities and their successors or assignees, and AKRF's obligations and liabilities to the above, their successors or assignees is limited to fraudulent statements made, or grossly negligent or willful acts or omissions.

13.0 REFERENCES

1. Toxics Targeting, Inc., 3875 Ninth Avenue – New York, NY 10034, Regulatory Radius Search, August 12, 2014.
2. U.S. Geological Survey, *Central Park, N.Y. – N.J. Quadrangle*, 7.5 minute Series (Topographic), Scale 1:24,000, 1966, Photorevised 2011.
3. U.S. Geological Survey, Open Files Report 89-462, Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey, Sheet 3 - Bedrock Contours and Outcrops, 1990.
4. New York State Department of Health: Office of Public Health - Environmental Radiation Section, Basement Radon Screening Data, October 2012.
5. Historical Sanborn maps dated 1893, 1900, 1913, 1922, 1928, 1935, 1951, 1968, 1979, 1989, and 2007.
6. Historical aerial photographs dated 1924, 1951, 1954, 1966, 1974, 1980, 1996, 2004, 2006, 2008, 2010, and 2012.
7. Environmental Data Resources, Inc., 3875 Ninth Avenue – New York, NY 10034, City Directory Abstract, August 14, 2014.
8. United States Fish and Wildlife Service National Wetlands Index Wetland Digital Data (http://www.fws.gov/wetlands/data/index.html).
9. Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Community Panel Number 3604970081F, effective date September 2007.

FIGURES



SOURCE
USGS 7.5 Minute Topographic Map
Central Park Quad 2011

0 1,000 2,000 Feet

3875 Ninth Avenue
New York, New York

PROPERTY LOCATION

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
9/3/2014

PROJECT No.
11995

FIGURE
1

©2014 AKRF, Inc. Environmental Consultants O:\Projects\11995 - SHERMAN CREEK (3875 9TH AVE)\Hazmat\11995 Fig 1 prop loc map.mxd



Legend

- Project Site Boundary
- Lots
- Existing Monitoring Well

0 100 200 400

Feet

3875 Ninth Avenue
New York, New York

SITE PLAN

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
9/3/2014

PROJECT No.
11995

FIGURE
2

©2014 AKRF, Inc. Environmental Consultants O:\Projects\11995 - SHERMAN CREEK (3875 9TH AVE)\Hazmat\11995 Fig 2 Site Plan.mxd

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION



Photograph 1. The Property, view east with the attendant's trailer on the left.



Photograph 2. The interior of the on-site attendant's trailer.



Photograph 3. The Property, view west. Note an area of pitted pavement in the foreground.



Photograph 4. Plastic drums (reportedly containing water) at the western edge of the Property.



Photograph 5. Vegetated land and dumped trash east-adjacent to the Property along the Harlem River bank, view east.



Photograph 6. A food cart and trash adjacent to the southwestern corner of the Property on West 207th Street, view south.



Photograph 7. A food cart and a petroleum-powered generator adjacent to the southwestern corner of the Property on Ninth Avenue, view southwest. Note staining on the Ninth Avenue sidewalk.



Photograph 8. A groundwater monitoring well in the Ninth Avenue sidewalk west-adjacent to the Property.



Photograph 9. The University Heights bridge approach southwest of the Property, view east.



Photograph 10. A filling station west of the Property across Ninth Avenue, view east.

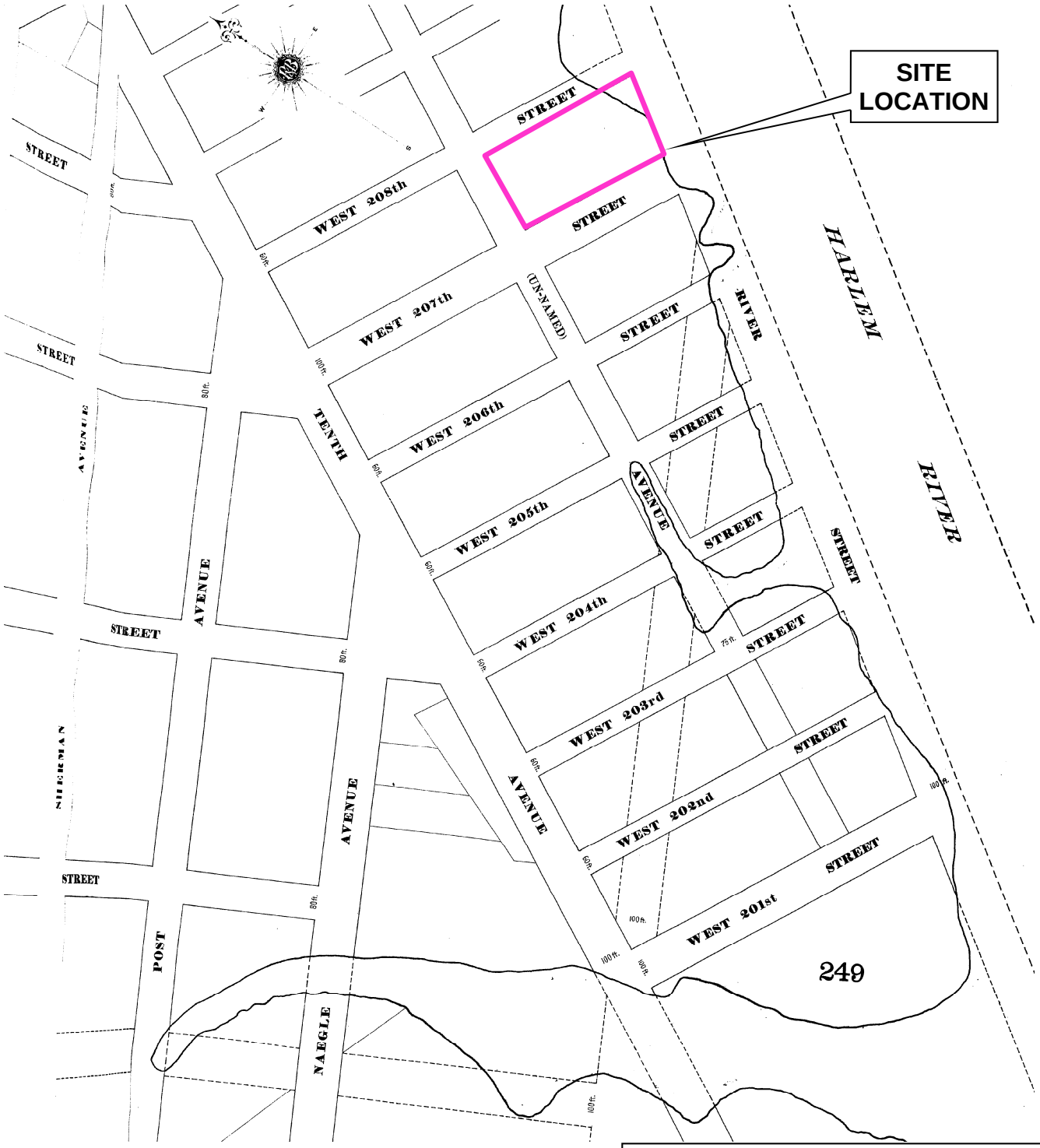


Photograph 11. A NYC Transit Authority (NYCTA) maintenance building northwest of the Property across Ninth Avenue, view northwest.



Photograph 12. A NYCTA rail yard north and northwest of the Property, view northeast.

APPENDIX B
HISTORICAL SANBORN MAPS



LEGEND:

PROJECT SITE BOUNDARY

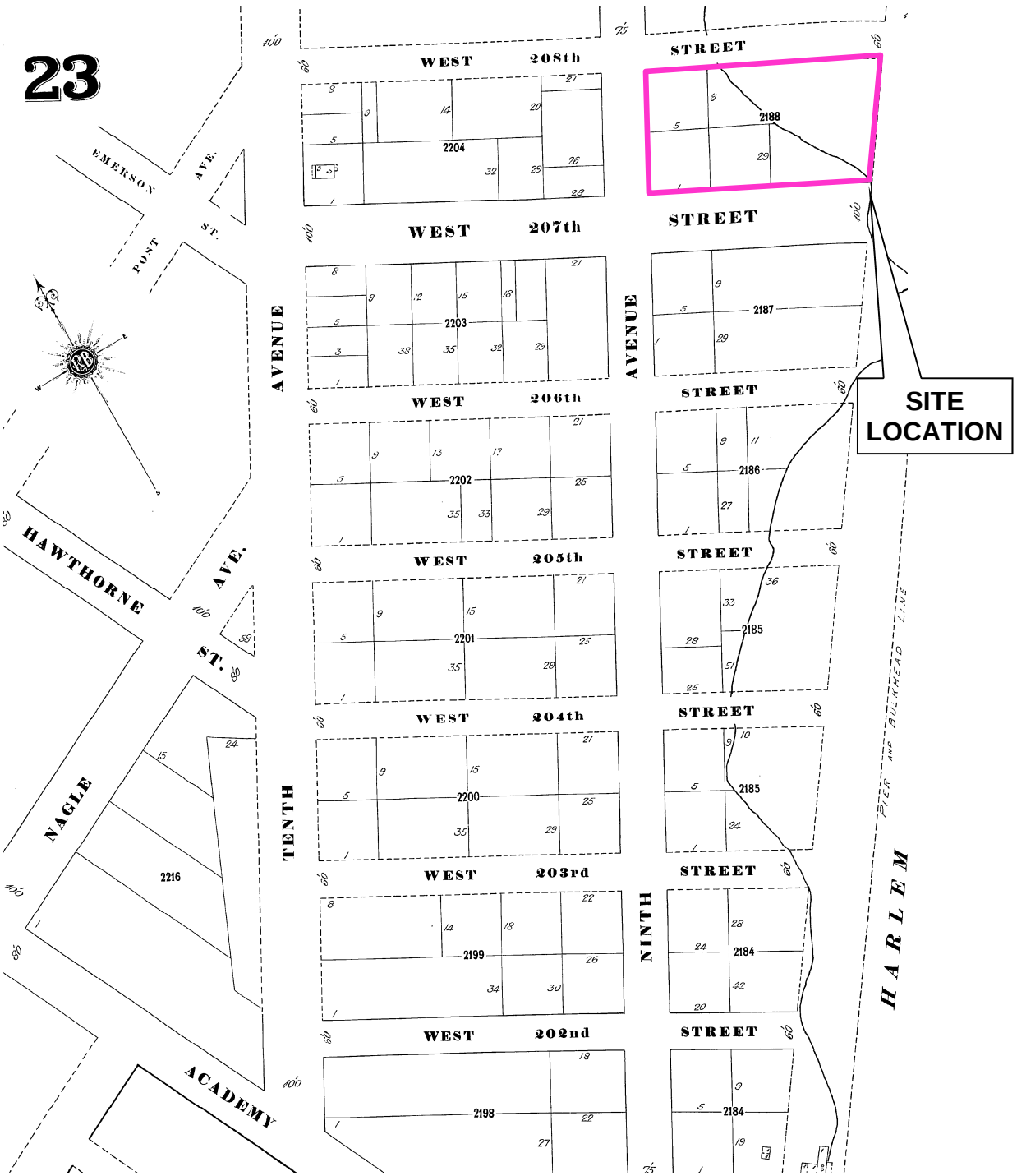
3875 Ninth Ave
New York, New York

1893 SANBORN MAP

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE	8.21.14
PROJECT No.	11995
SCALE	nts
FIGURE	Appx B

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W:\Projects\11995 - SHERMAN CREEK (3875 9TH AVE)\Technical\Hazardous Materials\Phase I ESA\Sanborns



LEGEND:

PROJECT SITE BOUNDARY

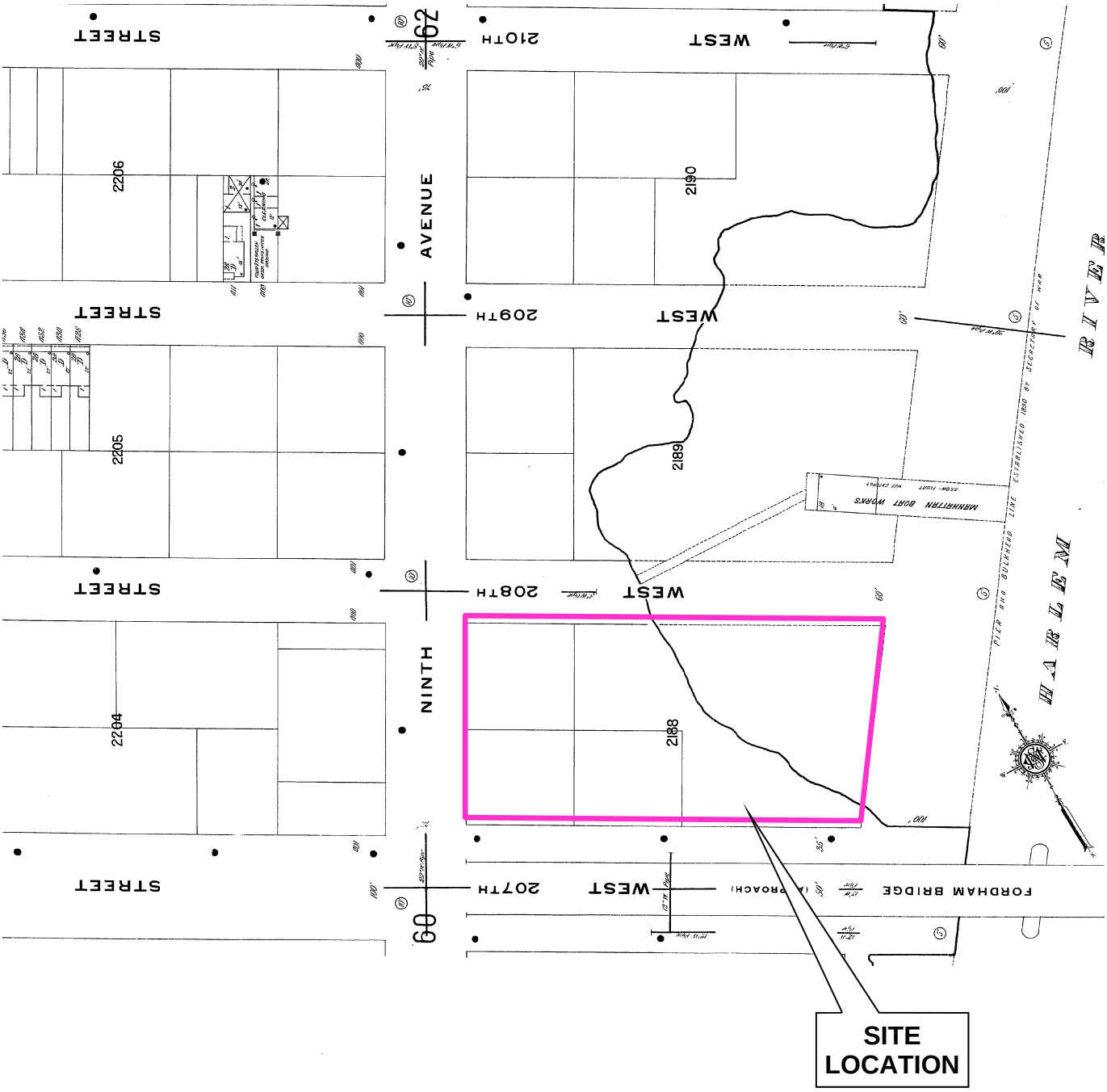
3875 Ninth Ave
New York, New York

1900 SANBORN MAP

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE 8.21.14
PROJECT No. 11995
SCALE nts
FIGURE Appx B

© 2014 AKRF, Inc. Environmental Consultants
W:\Projects\11995 - SHERMAN CREEK (3875 9TH AVE)\Technical\Hazardous Materials\Phase I ESA\Sanborns



LEGEND:

PROJECT SITE BOUNDARY

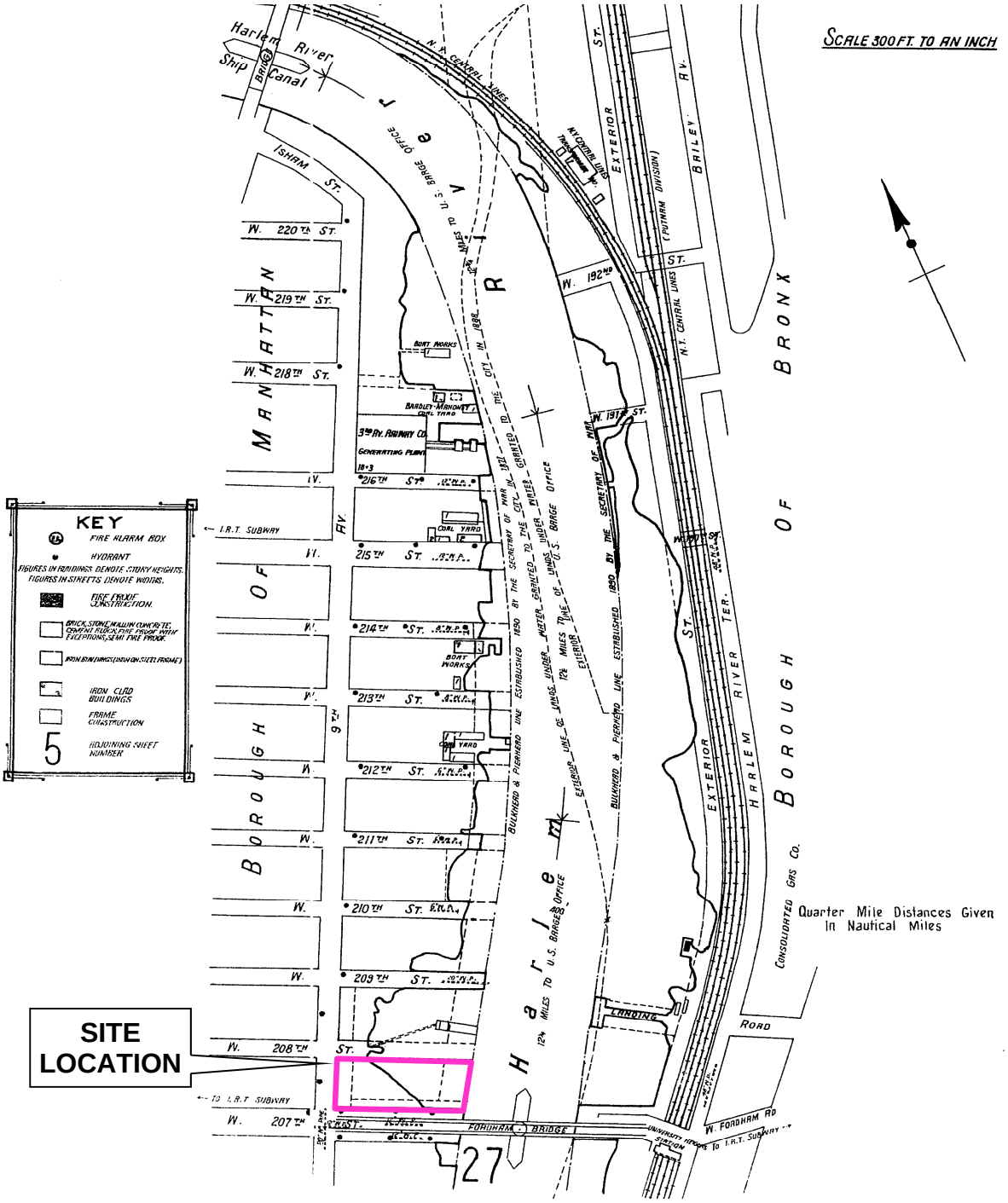
3875 Ninth Ave
New York, New York

1913 SANBORN MAP

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE	8.21.14
PROJECT No.	11995
SCALE	nts
FIGURE	Appx B

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W:\Projects\11995 - SHERMAN CREEK (3875 9TH AVE)\Technical\Hazardous Materials\Phase I ESA\Sanborns



LEGEND:

PROJECT SITE BOUNDARY

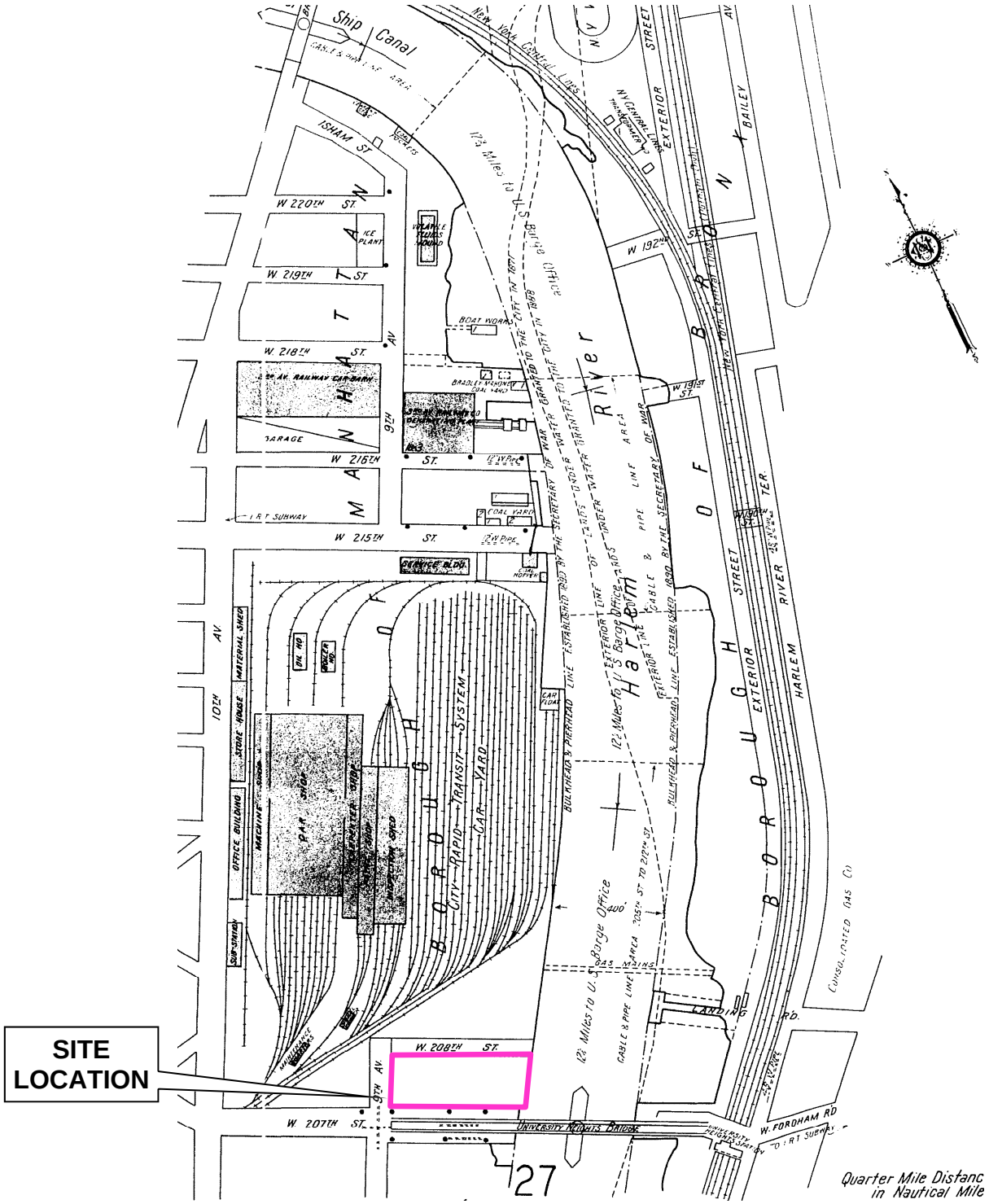
3875 Ninth Ave
New York, New York

1922 SANBORN MAP

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SITE LOCATION

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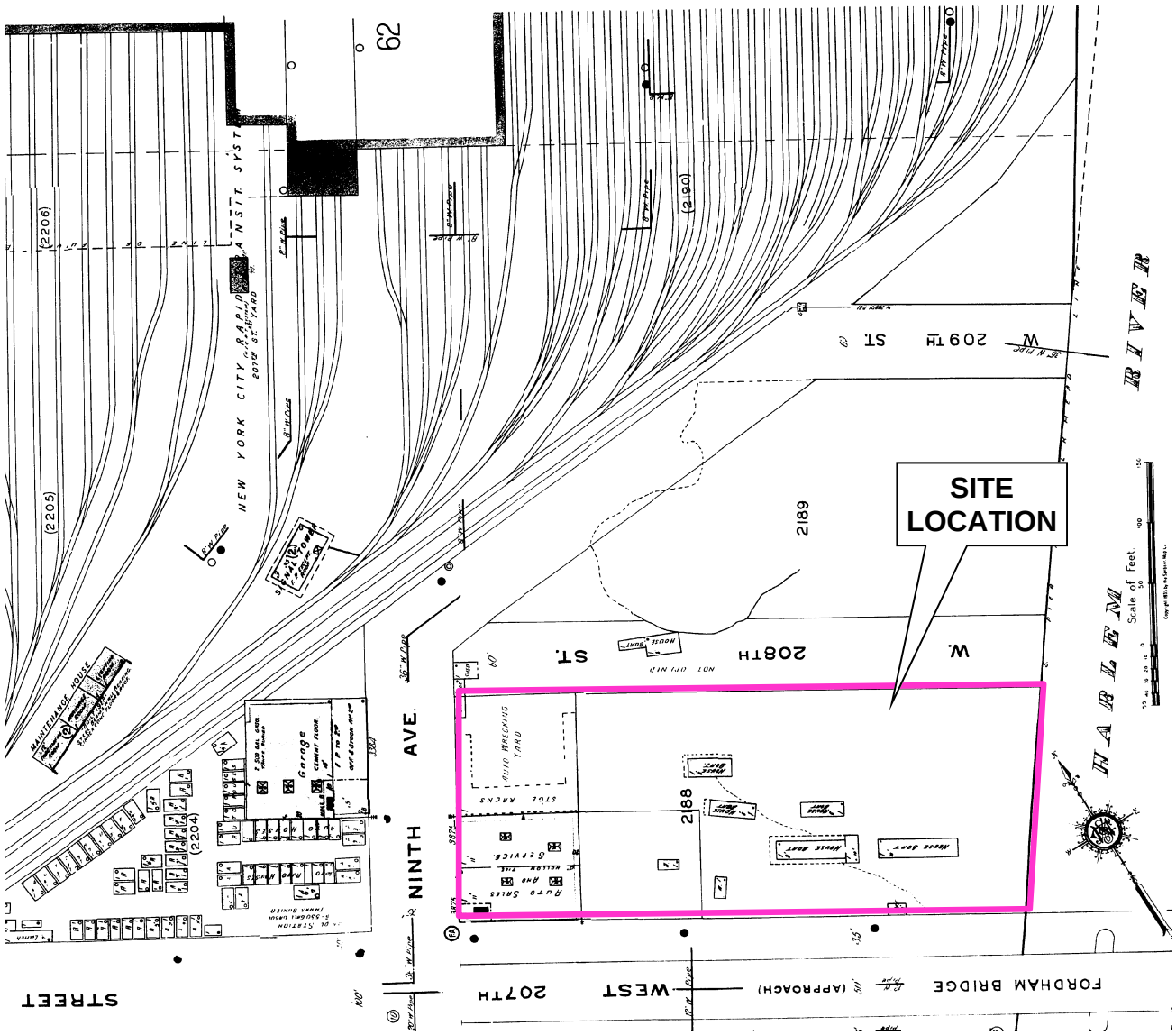
3875 Ninth Ave
New York, New York

1928 SANBORN MAP

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LEGEND:

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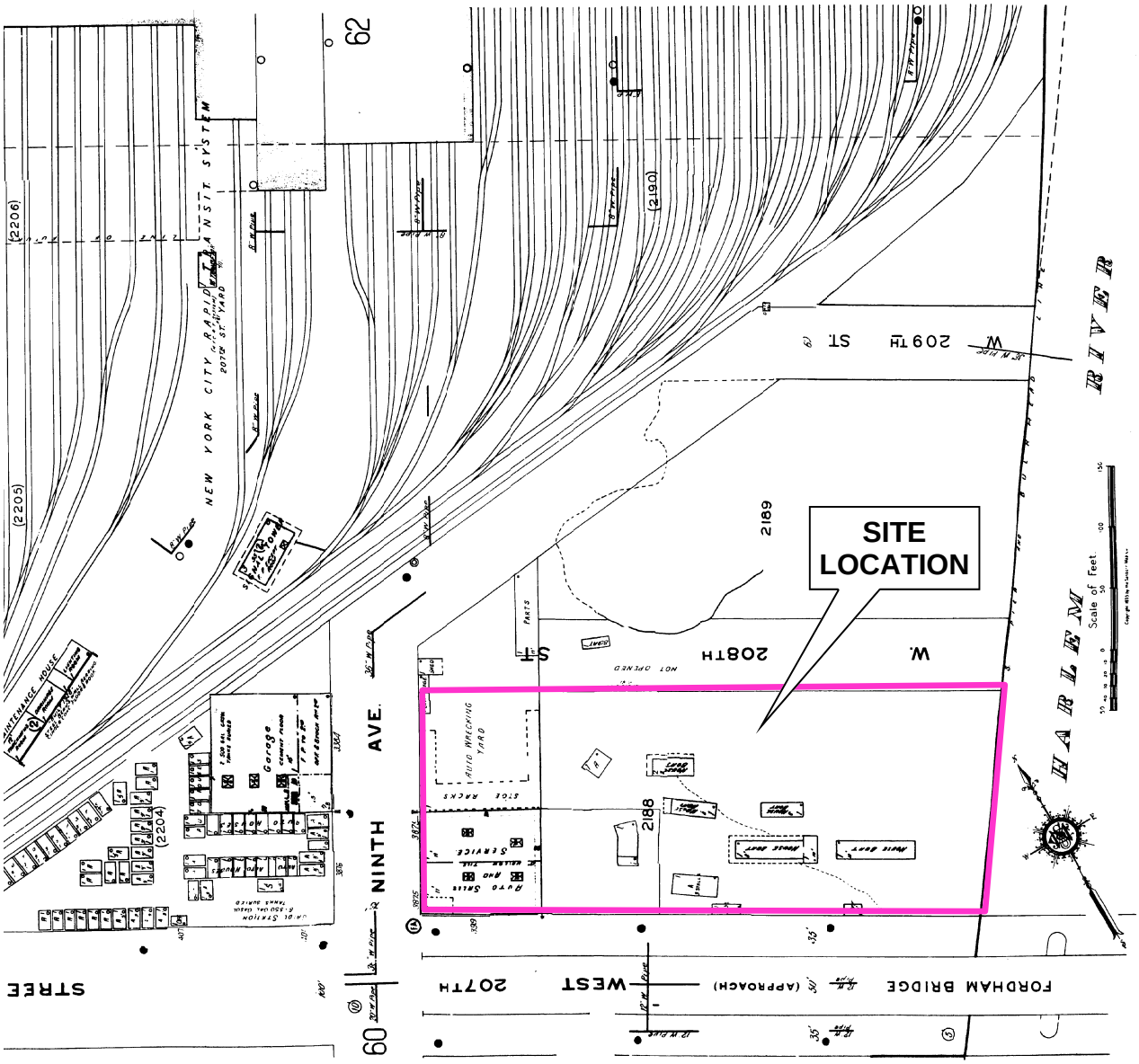
3875 Ninth Ave
New York, New York

1935 SANBORN MAP

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LEGEND:

PROJECT SITE BOUNDARY

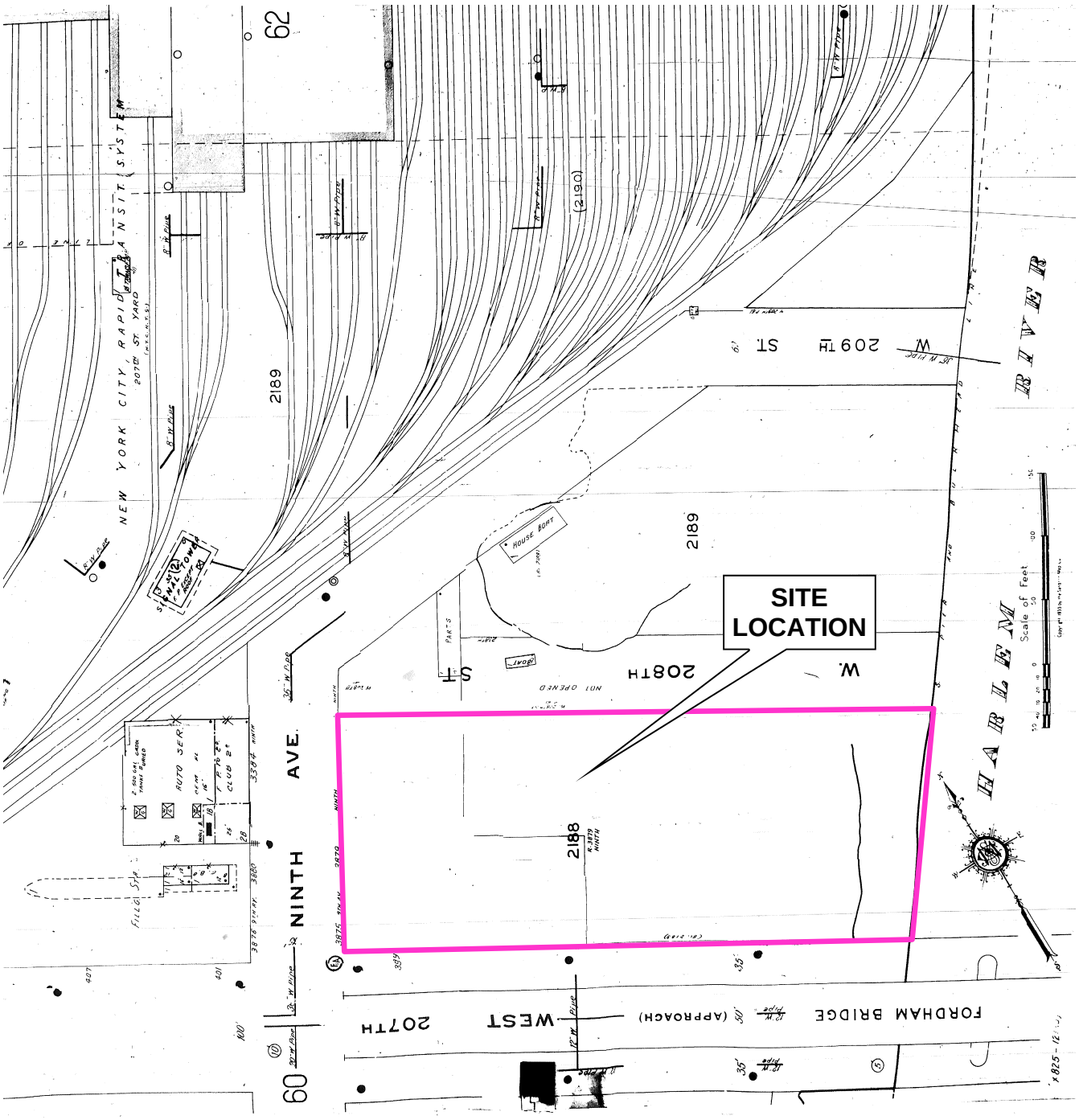
3875 Ninth Ave
New York, New York

1951 SANBORN MAP

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PROJECT No. 11995
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LEGEND:

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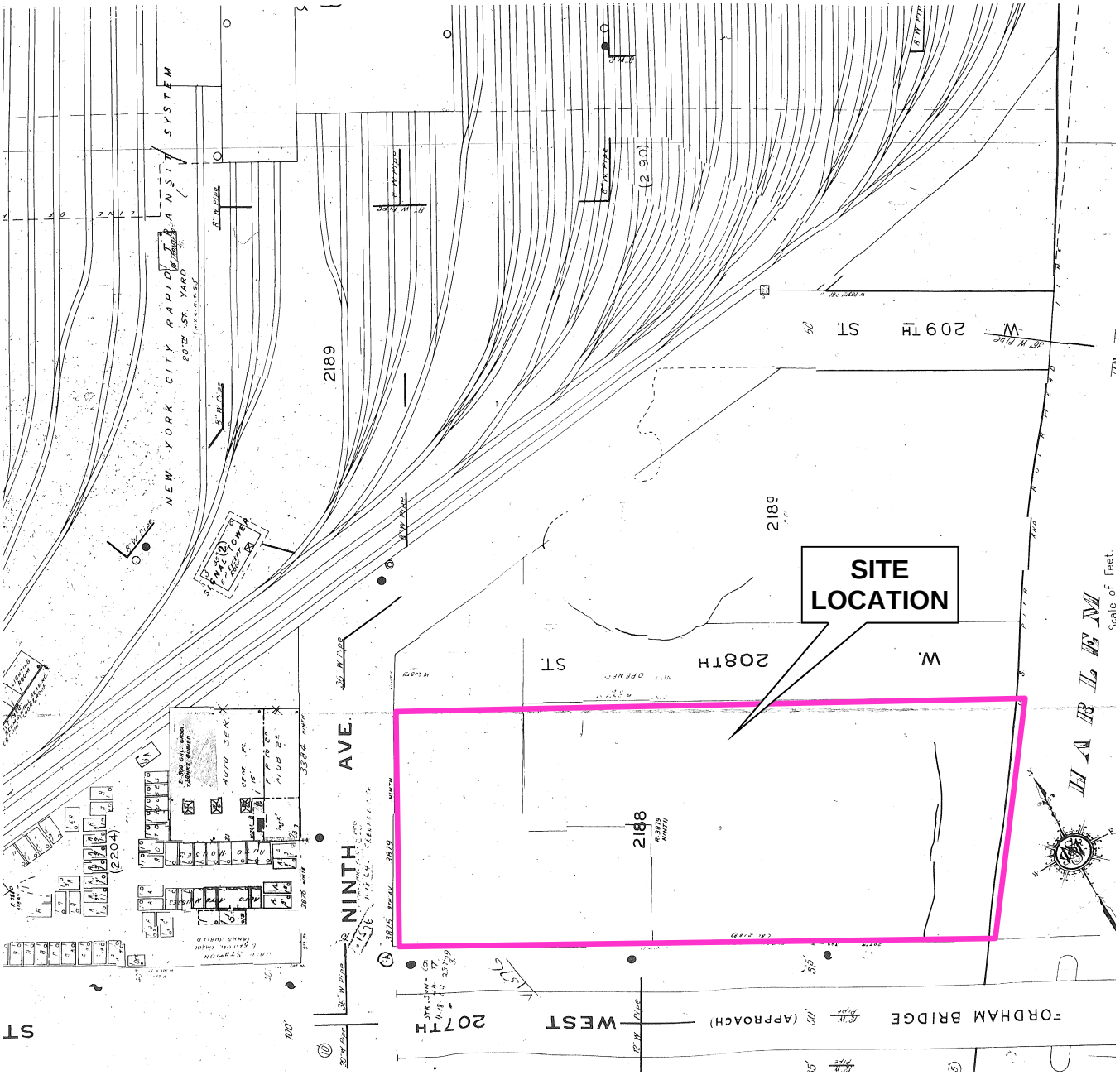
3875 Ninth Ave
New York, New York

1968 SANBORN MAP

AKRF
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440 Park Avenue South, New York, N.Y. 10016

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PROJECT No.	11995
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LEGEND:

PROJECT SITE BOUNDARY

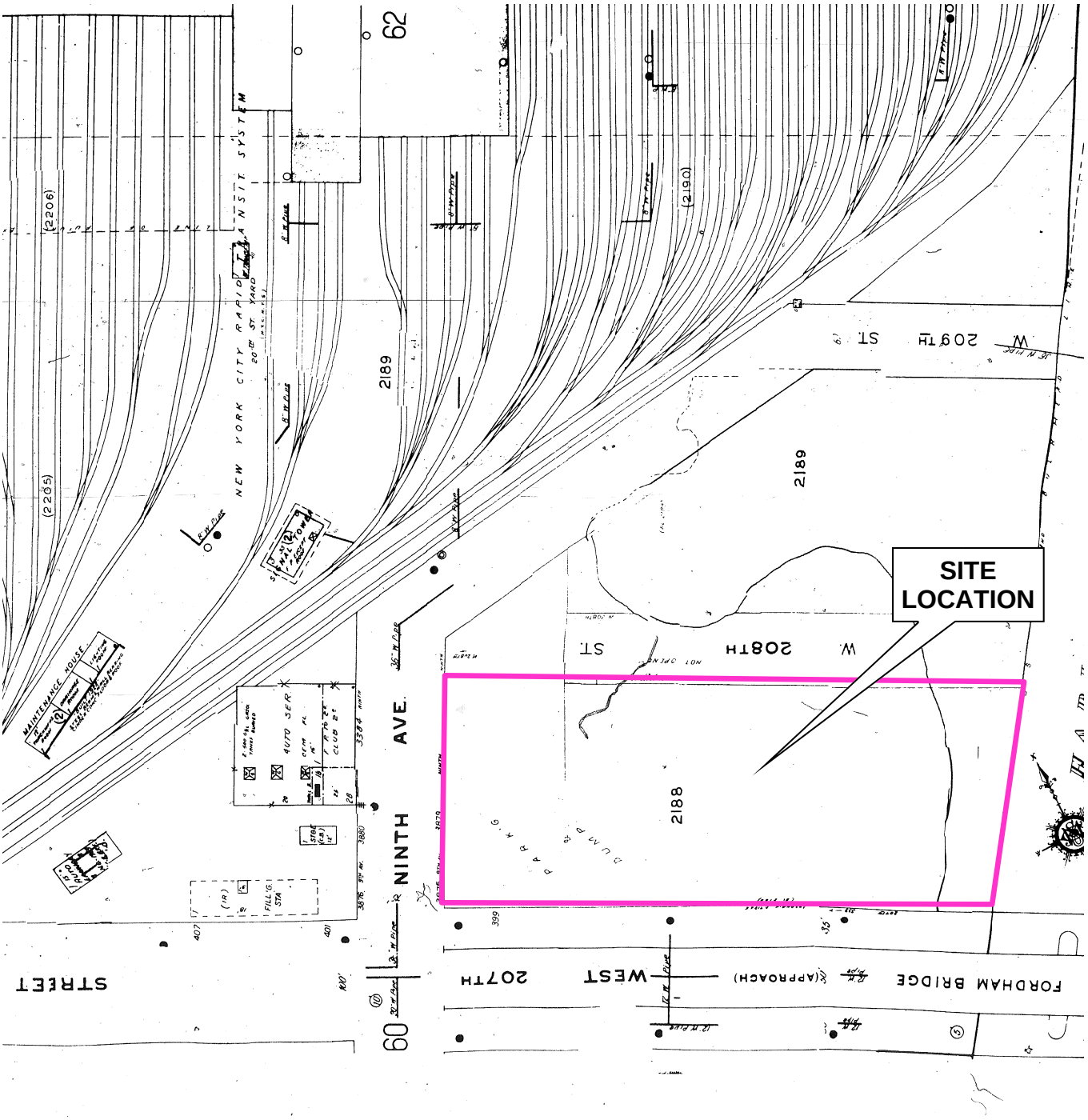
3875 Ninth Ave
New York, New York

1979 SANBORN MAP

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LEGEND:

PROJECT SITE BOUNDARY

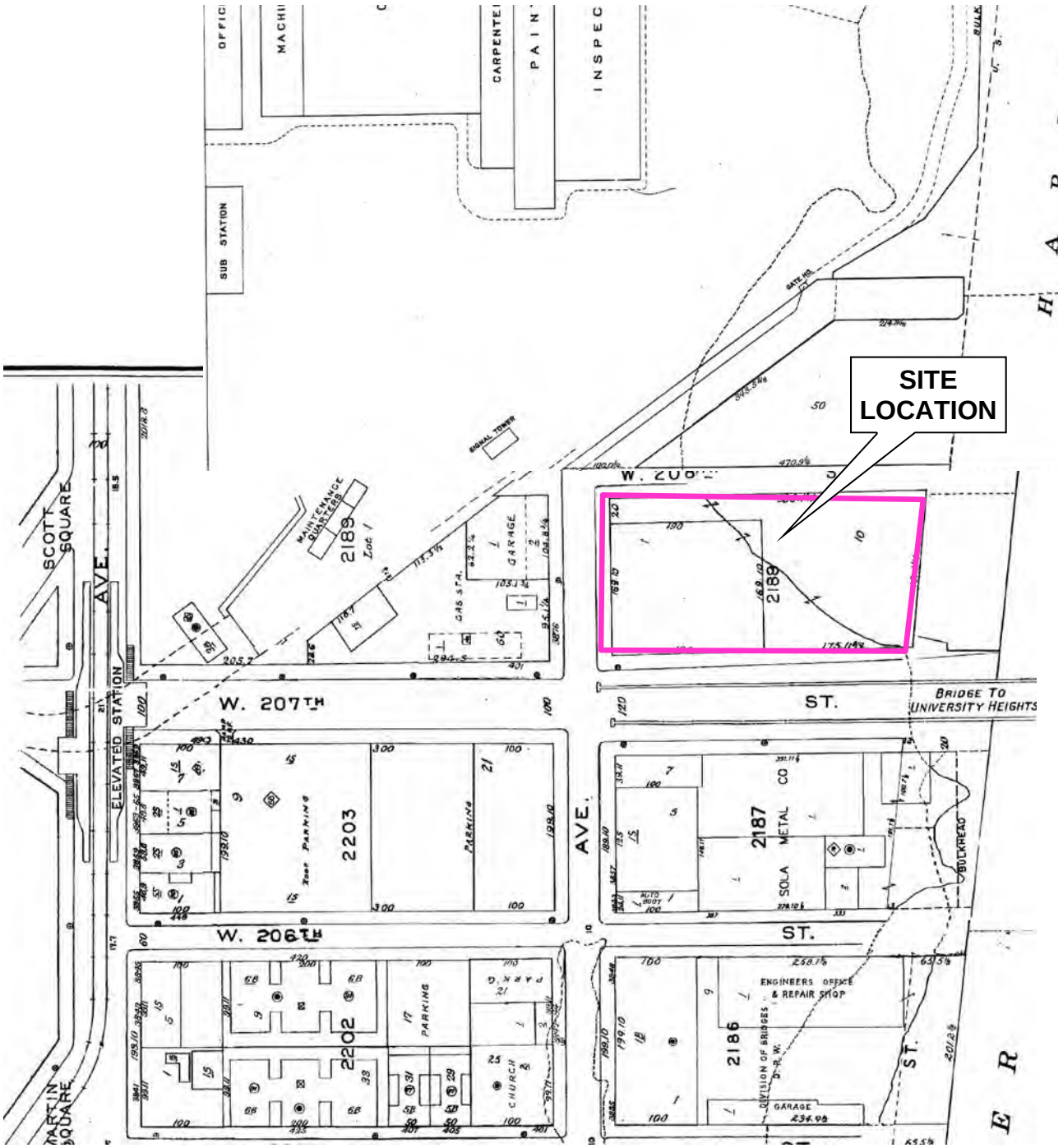
3875 Ninth Ave
New York, New York

1989 SANBORN MAP

AKRF
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440 Park Avenue South, New York, N.Y. 10016

DATE	8.21.14
PROJECT No.	11995
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FIGURE	Appx B

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LEGEND:

PROJECT SITE BOUNDARY

3875 Ninth Ave
New York, New York

2007 SANBORN MAP

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DATE **8.21.14**
PROJECT No. **11995**
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FIGURE **Appx B**

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APPENDIX C
REGULATORY RECORDS REVIEW

TOXICS TARGETING

Phase I
Environmental Database Report

3875 Ninth Ave
New York, NY

August 12, 2014

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PLEASE REFER TO PAGES ONE AND FIVE FOR A DESCRIPTION OF SOME OF THE LIMITATIONS OF THIS ENVIRONMENTAL REPORT.

Table of Contents

Introduction..... 1

- *The Three Sections of Your Report*
- *How to Use Your Report*
- *Toxic Site Databases Analyzed In Your Report*
- *Limitations Of the Information In Your Report*

Section One: Your Report Summary..... 7

- *Table One: Number of Identified Toxic Sites By Distance Interval*
- *Table Two: Identified Toxic Sites By Direction*
- *Table Three: Identified Toxic Sites By Category*
- *Table Four: Identified Toxic Sites By Proximity*
- *Map One: One-Mile Radius Map*
- *Map Two: Half-Mile Radius Map*
- *Map Three: Eighth-Mile Radius Map*
- *Map Four: Eighth-Mile Radius Close-up Map*
- *Map Five: Tax Parcel Map*
- *Table Five: Tax Parcel Map Information Table*

Section Two: Toxic Site Profiles

Section Three: Appendices

- *USEPA ERNS Check*
- *Unmappable Sites*
- *Hazardous Waste Codes*
- *Information Source Guide*

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Introduction

Toxics Targeting has combined environmental database searches, extensive regulatory analysis and sophisticated mapping techniques to produce your *Environmental Report.* It checks for the presence of 25 categories of government-reported toxic sites and provides detailed, up-to-date information on each identified site. The findings of your report are presented in an easy-to-understand format that:

1. ***Maps*** the approximate locations of selected government-reported toxic sites identified on or near a specified target address.

2. ***Estimates*** the distance and direction between the target address and each identified toxic site.

3. ***Reports*** air and water permit non-compliance and other regulatory violations.

4. ***Profiles*** some aspects of the usage, manufacture, storage, handling, transport or disposal of toxic chemicals at individual sites.

5. ***Summarizes*** some potential health effect information and drinking water standards for selected chemicals reported at individual sites.

The Three Sections Of Your Report

The first section highlights your report's findings by summarizing identified sites according to: **a)** distance intervals, **b)** direction, **c)** proximity to the target address and **d)** individual site categories. In addition, the locations of all identified toxic sites are illustrated on individual maps for each radius search distance used in your report. A close-up map illustrates the locations of all identified toxic sites, at the shortest radius search distance used in your report. Finally, a map of tax parcels and a table of selected information about those parcels are included.

The second section of your report contains *Toxic Site Profiles* that provide detailed information on each identified toxic site. The information in each *Toxic Site Profile* varies according to its source. Some toxic site categories have extensive information and some have limited information. All the information is updated on a regular basis.

The third section of the report contains appendices that identify: **1)** on-site spills reported to the national Emergency Response Notification System (ERNS), **2)** various toxic sites that cannot be mapped due to incomplete or erroneous addresses or other mapping problems, **3)** codes that characterize hazardous wastes reported at various facilities, **4)** methods used to map toxic sites identified in your report and **5)** information sources used in your report.

How to Use Your Report

- Check Table One to see the number of identified sites by distance intervals.

- Check Table Two to see identified sites sorted by direction.

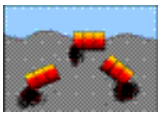
- Check Table Three to see identified sites ranked by proximity to the target address.

- Check Table Four to see identified sites sorted by site categories.

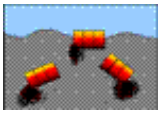
- Use Table Five to get info for the subject parcel and every parcel found on the Tax Parcel Map
- Refer to the various maps to see the locations of identified toxic sites. Refer to the *Toxic Site Profile* and *Appendix* sections for additional information.

Toxic Site Databases Analyzed In Your Report

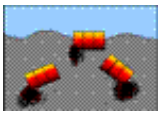
Search Radius

One-Mile 

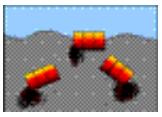
1) ***National Priority List for Federal Superfund Cleanup****:* a listing of sites known to pose environmental or health hazards that are being investigated or cleaned up under the Federal Superfund program.

Half-Mile 

2) ***Delisted National Priority List Sites****:* a listing of NPL sites that have been removed from the National Priority List.

One-Mile 

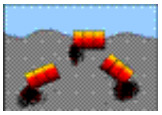
3) ***New York Inactive Hazardous Waste Disposal Site Registry****:* a state listing of sites that can pose environmental or public health hazards requiring investigation or clean up.

One-Mile 

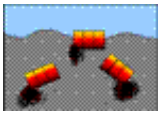
4) ***New York Inactive Hazardous Waste Disposal Site Registry Qualifying****:* a state listing of sites that qualify for possible inclusion to the NYDEC Inactive Haz. Waste Disposal Site Registry.

One-Mile 

5) ***RCRA Corrective Action Activity (CORRACTS):*** waste facilities with RCRA corrective action activity reported by the USEPA.

Half-Mile 

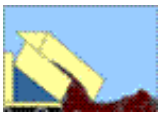
6) ***CERCLIS*** (Comprehensive Environmental Response, Compensation and Liability Information System): a federal listing of Non-NFRAP sites that can pose environmental or public health hazards requiring investigation or clean up.

Half-Mile 

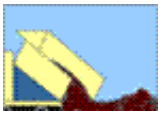
7) ***CERCLIS NFRAP:*** a federal listing of CERCLIS sites that have no further remedial action planned.

Half-Mile 

8) ***New York State Brownfield Cleanup Sites****:* a listing of sites that are abandoned, idled or under-used industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Half-Mile 

9) ***New York Solid Waste Facilities Registry****:* active and inactive landfills, incinerators, transfer stations or other solid waste management facilities.

Half-Mile 

10) ***New York City 1934 Solid Waste Sites****:* a listing of solid waste disposal sites operated by New York City municipal authorities circa 1934.

Half-Mile 

11) ***New York and Federal Hazardous Waste Treatment, Storage or Disposal Facilities****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRIS). Also includes the following database:

- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

Half-Mile 

12) ***Toxic Spills: active and inactive or closed*** spills reported to state environmental authorities, including *remediated* and *unremediated* leaking underground storage tanks. This database includes the following categories:

- Tank Failures
- Tank Test Failures
- Unknown Spill Cause or Other Spill Causes
- Miscellaneous Spill Causes

Eighth-Mile 

13) ***New York State Major Oil Storage Facilities****:* sites with more than a 400,000 gallon capacity for storing petroleum products.

Eighth-Mile 

14) ***New York State Petroleum Bulk Storage Facilities****:* sites with more than an 1,100 gallon capacity for storing petroleum products.

Eighth-Mile 

15) ***New York City Fire Dept Tank Data****:* tank data from 1997.

Eighth-Mile 

16) ***New York and Federal Hazardous Waste Generators and Transporters****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRA). Also includes the following database:

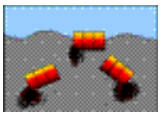
- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

Eighth-Mile 

17) ***New York Chemical Bulk Storage Facilities****:* sites storing hazardous substances listed in 6 NYCRR Part 597 in aboveground tanks with capacities of 185 gallons or more and/or underground tanks of any size

Eighth-Mile 

18) ***Historic New York City Utility Sites (1890's to 1940's)****:* power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites.

Half-Mile 

19) ***New York Hazardous Substance Disposal Site Draft Study****:* a state listing of sites contaminated with toxic substances that can pose environmental or public health hazards. These sites were not eligible for state clean up funding programs.

Eighth-Mile 

20) ***Federal Toxic Release Inventory Facilities****:* discharges of selected toxic chemicals to air, land, water or treatment facilities.

Eighth-Mile 

21) ***Federal Air Discharges****:* air pollution point sources monitored by U.S. EPA and/or state and local air regulatory agencies.

Eighth-Mile 

22) ***Federal Permit Compliance System Toxic Wastewater Discharges:*** permitted toxic wastewater discharges.

Eighth-Mile 

23) ***Federal Civil and Administrative Enforcement Docket****:* judiciary cases filed on behalf of the U. S. Environmental Protection Agency by the Department of Justice.

On-site only (250 ft) 

24) ***New York City Environmental Quality Review (CEQR) – E Designation Sites****:* parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed.

Property only 

25) ***ERNS: Federal Emergency Response Notification System Spills****:* a listing of federally reported spills.

Limitations Of The Information In Your Report

The information presented in your *Environmental Report* has been obtained from various local, state and federal government agencies. Please be aware that: **1)** additional information on individual sites may be available, **2)** newly discovered sites are continually reported and **3)** all map locations are approximate. As a result, this report is intended to be the FIRST STEP in the process of identifying and evaluating possible environmental threats to specific properties and can only serve as a guide for conducting on-site visits or additional, more detailed toxic hazard research.

Toxics Targeting tries to ensure that the information in your report is presented accurately and with minimal alteration. Systematic changes are made to correct obvious address errors in order to allow sites to be mapped. Any address changes that are made are noted in the map information section at the top of each corresponding *Toxic Site Profile*. Some information that has been withheld by government authorities remains included in Toxic Site Profiles and is identified as archival information. Since the information presented in your report is not edited, please be aware that it can contain reporting errors or typographical mistakes made by the site owners/operators or government agencies that produced the information. Also please be aware of some other limitations of the information in your report:

- The digital map used by *Toxics Targeting* is the same one used by the U. S. Census or local authorities in New York City. While the map is generally accurate, no map is perfect. In addition, *Toxics Targeting's* mapping methods estimate where toxic site addresses are located if the address is not specifically designated. FOR THESE REASONS, ALL MAP LOCATIONS OF ADDRESSES AND REPORTED TOXIC SITES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY ON-SITE VISITS;

- UNDISCOVERED, UNREPORTED OR UNMAPPABLE TOXIC SITES MIGHT NOT BE IDENTIFIED BY THIS REPORT'S CHECK OF 25 TOXIC SITE CATEGORIES. TOXIC SITES REPORTED IN OTHER GOVERNMENT DATABASES MIGHT ALSO EXIST. FOR THESE REASONS, YOUR REPORT MIGHT NOT IDENTIFY ALL THE TOXIC SITES THAT EXIST IN THE AREA IT SEARCHES;

- The appendix of your report contains a listing of sites that could not be mapped due to incomplete or erroneous address information or other mapping problems. This listing includes unmappable toxic sites in the zip codes searched for the report as well as toxic sites without zip codes reported in the same county. IF YOU WOULD LIKE INFORMATION ON ANY OF THE LISTED SITES, PLEASE CONTACT *TOXICS TARGETING AND REFER TO THE SITE ID NUMBER.*

- New York State Department of Environmental Conservation Remediation Site Borders are approximate and may not align with tax parcel boundaries mapped by local authorities or the digital map used by the US Census Bureau. As a result, Remediation Site Borders may overlap parcels that do not involve site remediation activities. Selected parcels also can involve multiple Remediation Site Borders. Refer to individual site profiles for more information. Sites without profiles include potential new sites or sites that have not yet been publicly listed by DEC.

- Some toxic sites identified in your report may be classified as **known hazards**. Most of the toxic sites identified in your report involve **potential hazards** related to the on-site use, manufacture, handling, storage, transport or disposal of toxic chemicals. Some of the toxic sites identified in your report may be the addresses of parties responsible for toxic sites located elsewhere. YOU SHOULD ONLY CONCLUDE THAT TOXIC HAZARDS ACTUALLY EXIST AT A SPECIFIC SITE WHEN GOVERNMENT AUTHORITIES MAKE THAT DETERMINATION OR WHEN THAT CONCLUSION IS FULLY DOCUMENTED BY THE FINDINGS OF AN APPROPRIATE SITE INVESTIGATION UNDERTAKEN BY LICENSED PROFESSIONALS;

- Compass directions and distances are approximate. Compass directions are calculated from the subject property address to the mapped location of each identified toxic site. The compass direction does not necessarily refer to the closest property boundary of an identified toxic site. The compass direction also can vary substantially for toxic sites that are located very close to the subject property address.

- The information presented in your report is a summary of the information that *Toxics Targeting* obtains from government agencies on reported toxic sites. YOU MAY BE ABLE TO OBTAIN ADDITIONAL INFORMATION ABOUT REPORTED SITES WITH THE FREEDOM OF INFORMATION REQUEST FORM LETTERS THAT ARE PROVIDED ON THE INSIDE OF THE BACK COVER.

Section One:

Report Summary

- *Table One: Number of Identified Toxic Sites By Distance Interval*
- *Table Two: Identified Toxic Sites By Direction*
- *Table Three: Identified Toxic Sites By Category*
- *Table Four: Identified Toxic Sites By Proximity*
- *Map One: One-Mile Radius Map*
- *Map Two: Half-Mile Radius Map*
- *Map Three: Eighth-Mile Radius Map*
- *Map Four: Eighth-Mile Radius Close up Map*
- *Map Five: Tax Parcel Map*
- *Table Five: Tax Parcel Map Information Table*

NUMBER OF IDENTIFIED SITES BY DISTANCE INTERVAL

Database Searched	0 − 100 ft	100 ft − 1/8 mi	1/8 mi − 1/4 mi	1/4 mi − 1/2 mi	1/2 mi − 1 mi	Site Category Totals
ASTM−Required 1 Mile Search						
National Priority List (NPL) Sites	0	0	0	0	0	0
NYS Inactive Hazardous Waste Disposal Site Registry	0	0	0	0	3	3
NYS Inactive Haz Waste Disposal Site Registry Qualifying	0	0	0	0	0	0
RCRA Corrective Action (CORRACTS) Sites	0	0	0	0	0	0
ASTM−Required 1/2 Mile Search						
Delisted National Priority List (NPL) Sites	0	0	0	0	Not searched	0
CERCLIS Superfund Non−NFRAP Sites	0	0	0	0	Not searched	0
CERCLIS Superfund NFRAP Sites	0	0	0	0	Not searched	0
Brownfields Sites						
Voluntary Cleanup Program	0	0	0	1	Not searched	1
Environmental Restoration Program	0	0	0	0	Not searched	0
Brownfield Cleanup Program	0	0	0	0	Not searched	0
NYSDEC Solid Waste Facilities / Landfills	0	1	0	0	Not searched	1
RCRA Hazardous Waste Treatment, Storage, Disposal Sites	0	0	0	0	Not searched	0
NYS Toxic Spills						
Active Tank Failures	0	0	0	0	Not searched	0
Active Tank Test Failures	0	1	0	5	Not searched	6
Active Spills − Unknown / Other Causes	0	2	2	9	Not searched	13
Active Spills − Miscellaneous Causes	0	0	0	1(13)	Not searched	1(13)
Closed Tank Failures	0	0	2	12	Not searched	14
Closed Tank Test Failures	0	4	7	28	Not searched	39
Closed Spills − Unknown / Other Causes	1	15	22	135	Not searched	173
Closed Spills − Miscellaneous Causes	1	15	4(35)	18(198)	Not searched	38(233)
ASTM−Required Property & Adjacent Property (1/8 Mile Search)						
NYS Major Oil Storage Facilities	0	0	Not searched	Not searched	Not searched	0
Local & State Petroleum Bulk Storage Sites	0	11	Not searched	Not searched	Not searched	11
RCRA Hazardous Waste Generators & Transporters	3	21	Not searched	Not searched	Not searched	24
NYS Chemical Bulk Storage Sites	0	0	Not searched	Not searched	Not searched	0
Historic Utility Facilities	0	0	Not searched	Not searched	Not searched	0
ASTM−Required On−Site Only Search						
NYC Environmental Quality Review Requirements ("E") Sites*	0	0	Not searched	Not searched	Not searched	0
Emergency Response Notification System (ERNS)	0	Not searched	Not searched	Not searched	Not searched	0
Institutional Controls / Engineering Controls (IC/EC)	See databases for NPL, CERCLIS, Inactive Hazardous Waste Disposal Site Registry and Brownfield Sites.					
ASTM−Required Databases Distance Interval Totals	**5**	**70**	**37(35)**	**209(211)**	**3**	**324(246)**

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

* NYC Environmental Quality Review Requirements ("E") Sites were searched at 250 feet.

NOTE: Table continues on next page.

Non−ASTM Databases 1/2 Mile Search						
1934 NYC Municipal Waste Landfills	0	0	0	1	Not searched	1
Hazardous Substance Waste Disposal Sites	0	0	0	0	Not searched	0
Non−ASTM Databases 1/8 Mile Search						
Toxic Release Inventory Sites (TRI)	0	0	Not searched	Not searched	Not searched	0
Permit Compliance System (PCS) Toxic Wastewater Discharges	0	0	Not searched	Not searched	Not searched	0
Air Discharges	0	4	Not searched	Not searched	Not searched	4
Civil & Administrative Enforcement Docket Facilities	0	1	Not searched	Not searched	Not searched	1
Non−ASTM Databases Distance Interval Totals	**0**	**5**	**0**	**1**	**Not Searched**	**6**
Distance Interval Totals	***5***	***75***	***37(35)***	***210(211)***	***3***	***330(246)***

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

Identified Toxic Sites by Direction

3875 Ninth Ave
New York, NY

* Compass directions can vary substantially for sites located very close to the subject property address.

Sites less than 100 feet from subject property sorted by distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
81	ONE QT OIL LEAKED FROM PIPE IN	207 STREET & 9 AVENUE	67 feet to the W*	Closed Status Spill (Unk/Other Cause)
254	MANHOLE #40048	207TH ST/9TH AVE	67 feet to the W*	Closed Status Spill (Misc. Spill Cause)
303	NYNEX	207TH ST/9TH AVE	67 feet to the W*	Hazardous Waste Generator/Transporter
304	CONSOLIDATED EDISON	W 207 ST & 9 AVE	67 feet to the W*	Hazardous Waste Generator/Transporter
305	CONED	9TH AVE	67 feet to the W*	Hazardous Waste Generator/Transporter

Sites between 100 ft and 400 ft from the subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
306	NYSDOT G CAMPBELL PAINTING D500777	207 ST OVER HARLEM RIVER	108 feet to the SSE*	Hazardous Waste Generator/Transporter
327	MANHATTAN RECYCLING CENTER	332 W. 207 STREET	119 feet to the SSW*	Air Discharge Site
86	ON STREET	WEST 206TH ST./9TH AVE (	339 feet to the SW	Closed Status Spill (Unk/Other Cause)
308	CONSOLIDATED EDISON − MH 40047	N/E/C WEST 206 ST & 9TH AVE	339 feet to the SW	Hazardous Waste Generator/Transporter
328	MERIT	401 W. 207TH ST @ 9T	188 feet to the WNW*	Air Discharge Site
307	AMERADA HESS CORPORATION	401 WEST 207 STREET	195 feet to the WNW*	Hazardous Waste Generator/Transporter
292	HESS 32517	401 WEST 207TH STREET @ 9TH AVE.	204 feet to the WNW	Petroleum Bulk Storage Site
293	MERIT OIL OF NY INC	3876 9 AVE	204 feet to the WNW	Petroleum Bulk Storage Site
14	HESS STATION 32517	401 WEST 207TH STREET	218 feet to the WNW	Active Haz Spill (Unknown/Other Cause)
42	HESS/MERIT SERVICE STATIO	401 WEST 207TH STREET	218 feet to the WNW	Closed Status Tank Test Failure
82	MERIT SERVICE STATION	401 WEST 207TH STREET	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
83	MERIT INWOOD GAS STATION	401 WEST 207TH STREET	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
84	STREET	401 WEST 207TH	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
85	HESS 32517	401 WEST 207TH ST	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
255	HESS CORP	401 WEST 207TH ST	218 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
256	HESS STATION	401 WEST 207TH ST	218 feet to the WNW	Closed Status Spill (Misc. Spill Cause)

Sites equal to or greater than 400 ft from subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
311	NYCTA 215 ST SIGNALS	396 WEST 215TH STREET	558 feet to the N	Hazardous Waste Generator/Transporter
312	NYCTA	396 W 215TH ST	558 feet to the N	Hazardous Waste Generator/Transporter

313	MTA NYCT	3961 10TH AVENUE	558 feet to the N	Hazardous Waste Generator/Transporter
314	NYCTA	3884 9TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
315	CONSOLIDATED EDISON	MH43451−F/O 3961 10TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
316	CON EDISON	3955 10TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
317	CON EDISON	3955 10TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
318	NEW YORK CITY TRANSIT AUTH	3961 10TH AVE NYD980646335	558 feet to the N	Hazardous Waste Generator/Transporter
329	NYC TRANSIT AUTHORITY − 207 ST SHOP	3961 10TH AVENUE	587 feet to the N	Air Discharge Site
330	207TH STREET SUBWAY YARD	207 STREET	587 feet to the N	Air Discharge Site
331	207TH STREET SUBWAY YARD	207 STREET	612 feet to the N	Civil & Admin. Enforcement Docket Site
8	207 TH STREET YARD−NYCT	3961 TENTH AVE	630 feet to the N	Active Tank Test Failure
44	3961 TENTH AVE/SHELL SERV	3961 TENTH AVE	630 feet to the N	Closed Status Tank Test Failure
45	NYC TRANSIT AUTHORITY	207TH ST YARD	630 feet to the N	Closed Status Tank Test Failure
93	CONCRETE PAD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Unk/Other Cause)
94	207TH STREET YARD	3961 TENTH AVE	630 feet to the N	Closed Status Spill (Unk/Other Cause)
95	207TH STREET YARD	207TH ST	630 feet to the N	Closed Status Spill (Unk/Other Cause)
96	207TH ST OVERHAUL SHOP	3961 TENTH AVE	630 feet to the N	Closed Status Spill (Unk/Other Cause)
262	NYCTA TRAIN REPAIR MAINT	3961 TENTH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
263	207TH ST YARD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
264	I/F/O 3915 10TH AVE	3915 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
265	207TH ST YARD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
266	207TH STREET YARD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
267	DRIPS FROM RETIRED GAS MAIN	207 STREET & MTA RAILYARD	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
268	SPILL NUMBER 0202959	207TH ST YARD	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
269	SIGNAL SHOP/207TH ST YARD	396 WEST 215TH ST	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
301	NYCTA 207TH STREET OVERHAUL SHOP	3961 TENTH AVENUE	633 feet to the N	Petroleum Bulk Storage Site
302	9TH AVENUE SHOP	3884 NINTH AVENUE	633 feet to the N	Petroleum Bulk Storage Site
157	XFMR IN VAULT 5675 LEAKED FIVE GAL	5030 BROADWAY/ WEST 213 STREET	1703 feet to the N	Closed Status Spill (Unk/Other Cause)
158	MANHOLE 57914	5030 BROADWAY	1703 feet to the N	Closed Status Spill (Unk/Other Cause)
197	215TH ST/HARLEM RIVER DR	215TH ST/HARLEM RIVER DR	1971 feet to the N	Closed Status Spill (Unk/Other Cause)
280	HARLEM RIVER DRIVE / W.215TH	HARLEM RIVER DR./W.215TH ST	1971 feet to the N	Closed Status Spill (Misc. Spill Cause)
204	PVT DWELLING/APT. COMPLEX	30 PARK TERRACE EAST	2063 feet to the N	Closed Status Spill (Unk/Other Cause)
209	SPILL NUMBER 0201424	5049 BROADWAY	2148 feet to the N	Closed Status Spill (Unk/Other Cause)
285	#4 IN EAST RIVER	216TH ST.&HARLEM R. DRIVE	2238 feet to the N	Closed Status Spill (Misc. Spill Cause)
73	NORTH EASTERN ACADEMY − TTF	532 WEST 215TH ST	2239 feet to the N	Closed Status Tank Test Failure
40	KINGSBRIDGE BUS DEPOT	4056 10TH AVE	2317 feet to the N	Closed Status Tank Failure
227	KINGSBRIDGE BUS DEPOT	4056 10TH AVE	2317 feet to the N	Closed Status Spill (Unk/Other Cause)
75	70 PARK TERR EAST	70 PARK TERR EAST	2323 feet to the N	Closed Status Tank Test Failure
13	65 PARK TERRACE WEST	65−67 PARK TERRACE EAST	2375 feet to the N	Active Tank Test Failure
287	APT BLDG	65−67 PARK TERRACE EAST	2375 feet to the N	Closed Status Spill (Misc. Spill Cause)
249	57 PARK TERR WEST	57 PARK TERR WEST	2596 feet to the N	Closed Status Spill (Unk/Other Cause)
250	APARTMENT BUILDING	95 PARK TERRACE EAST	2602 feet to the N	Closed Status Spill (Unk/Other Cause)
252	MANHOLE #415	BROADWAY & 218TH ST	2626 feet to the N	Closed Status Spill (Unk/Other Cause)
186	214249; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
187	214248; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
188	214246; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
189	STREET	W 215TH ST/9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
10	M12 SANITATION GARAGE	301 WEST 215 ST	2035 feet to the NNE	Active Tank Test Failure
66	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Tank Test Failure
67	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Tank Test Failure
68	NYC DEPT OF SANITATION	301 WEST 215TH ST	2035 feet to the NNE	Closed Status Tank Test Failure
69	SANITATION GARGE	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Tank Test Failure
70	NYC DEPT OF SANTIATION	301 WEST 214TH ST	2035 feet to the NNE	Closed Status Tank Test Failure

199	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
200	215TH STREET	215TH STREET	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
201	W 215TH ST & HARLEM RIVER	W 215TH ST / HARLEM RIVER	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
202	NYC DOS	301 WEST 215TH ST.	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
203	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
282	NYCDOS 12TH GARAGE FLOOR	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
11	MANHATTAN DISTR. 8 (OLD BX W. 7) DOS −DDC	4036 9TH AVE	2071 feet to the NNE	Active Tank Test Failure
12	NYC DEPT OF SANITATION	423 WEST 215TH ST	2071 feet to the NNE	Active Tank Test Failure
71	BRONX WEST 08 DOS −DDC	423 WEST 215TH STREET	2071 feet to the NNE	Closed Status Tank Test Failure
205	BRONX WEST 08 DOS −DDC	423 WEST 215TH STREET	2071 feet to the NNE	Closed Status Spill (Unk/Other Cause)
210	53101 MANHOLE	NORTH WEST WEST 216 ST 9TH AVE.	2151 feet to the NNE	Closed Status Spill (Unk/Other Cause)
211	MANHOLE #53101	216 & 9TH AVE	2151 feet to the NNE	Closed Status Spill (Unk/Other Cause)
223	COMMERCIAL PROPERTY	4055 10TH AVE	2268 feet to the NNE	Closed Status Spill (Unk/Other Cause)
233	KINGSBRIDGE DEPOT	4065 TENTH AVENUE	2416 feet to the NNE	Closed Status Spill (Unk/Other Cause)
234	KINGSBRIDGE BUS DEPOT	4065 10TH AVE	2416 feet to the NNE	Closed Status Spill (Unk/Other Cause)
235	KINGSBRIDGE DEPOT	4069−75 10TH AVE	2416 feet to the NNE	Closed Status Spill (Unk/Other Cause)
289	PRIVATE BUS DEPOT	4065 10TH AVE	2416 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
290	MAINTENANCE SHOP	4065 10TH AVE	2416 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
244	218TH ST QUTFALL	218TH ST. & 9TH AVE.	2544 feet to the NNE	Closed Status Spill (Unk/Other Cause)
185	SB 24271 HAS FIFTY GALLONS	IN FRONT OF 230 WEST 215 STREET	1840 feet to the NE	Closed Status Spill (Unk/Other Cause)
246	2548 BAILEY AVENUE	2548 BAILEY AVENUE	2567 feet to the NE	Closed Status Spill (Unk/Other Cause)
34	2445 SEDGWICK AVE	2445 SEDGWICK AVE	1924 feet to the ENE	Closed Status Tank Failure
5	CE − KINGSBRIDGE STATION	BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45	1933 feet to the ENE	Brownfields Site
195	MANHOLE #31136	SEDGWYCK AVE/BAILEY AVE	1964 feet to the ENE	Closed Status Spill (Unk/Other Cause)
196	M51 FEEDER LEAK INTO MH 29001	SEDGWICK AVE & BAILEY AVENUE &	1964 feet to the ENE	Closed Status Spill (Unk/Other Cause)
279	FEEDER M51 − MANHOLE 29001	SEDGWICK & BAILEY AVENUES	1964 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
1	2614 UNIVERSITY AVENUE	2614 UNIVERSITY AVENUE	4120 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
2	2628 UNIVERSITY AVENUE	2628 UNIVERSITY AVENUE	4184 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
25	VAULT 1863	SEDGWICK AVE NORTH OF WEBB	1738 feet to the E	Active Haz Spill (Unknown/Other Cause)
179	MANHOLE 29002	W FORDAM RD/ FREDWICK AVE	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
180	MANHOLE 29002	WEST FORDHAM RD NEAR SEDGEWICK AVE	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
181	MH 26481	BAILEY AVE AND FORDHAM RD	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
182	MANHOLE # 29002	W FORDHAM RD/SEDGWICK AV	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
183	APARTMENT BUILDING 8	FORDHAM/SEDGWICK	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
184	MANHOLE 12719	IFO 2400 SEDGEWICK AVE	1800 feet to the E	Closed Status Spill (Unk/Other Cause)
36	FORHDHAM HILL	1 FORDHAM HILL OVAL	2090 feet to the E	Closed Status Tank Failure
283	FORDHAM HILL APARTMENTS	2421 WEBB AVENUE	2090 feet to the E	Closed Status Spill (Misc. Spill Cause)
208	MANHOLE 23135	WEBB AVE & FATHER ZEISER PLACE	2138 feet to the E	Closed Status Spill (Unk/Other Cause)
228	MANHOLE #25852	WEBB AVE & DEVOE TERRACE	2353 feet to the E	Closed Status Spill (Unk/Other Cause)
79	ST.NICHOLAS OF TOLENTINE	2345 UNIVERSITY AVE	2587 feet to the E	Closed Status Tank Test Failure
80	CLOSED−LACKOF RECENT INFO	2345 UNIVERSITY AVE.	2587 feet to the E	Closed Status Tank Test Failure
106	EXTERIOR ST − LANDING RD	EXTERIOR ST − LANDING RD	1045 feet to the ESE	Closed Status Spill (Unk/Other Cause)
107	205006; EXTERIOR ST 140‘ N/O LANDING ROAD RAMP	EXTERIOR ST 140‘ N/O LANDING ROAD RAMP	1045 feet to the ESE	Closed Status Spill (Unk/Other Cause)
115	OIL COMING INTO MH 23033 FROM DUCTS.	CEDAR AVENUE & FORDAHM ROAD	1203 feet to the ESE	Closed Status Spill (Unk/Other Cause)
4	CE − KINGSBRIDGE STATION	BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45	1228 feet to the ESE	Brownfields Site
30	GASETERIA	205 WEST FORDHAM ROAD	1563 feet to the ESE	Closed Status Tank Failure
144	FORDHAM AND	LANDING AVE	1582 feet to the ESE	Closed Status Spill (Unk/Other Cause)
38	ECR REALTY	2326 LORING PLACE	2189 feet to the ESE	Closed Status Tank Failure
72	APARTMENT BUILDING	2277 ANDREWS AVENUE	2193 feet to the ESE	Closed Status Tank Test Failure

225	MANHOLE #23638	WEST 183RD ST/ANDREWS AVE	2281 feet to the ESE	Closed Status Spill (Unk/Other Cause)
238	APT BUILDING	2291 UNIVERCITY AVE	2503 feet to the ESE	Closed Status Spill (Unk/Other Cause)
239	MANHOLE	2291 DR MARTIN LUTHER KING	2503 feet to the ESE	Closed Status Spill (Unk/Other Cause)
247	MAN HOLE	IFO 2291 UNIVERSITY AVE	2580 feet to the ESE	Closed Status Spill (Unk/Other Cause)
248	MANHOLE 11894	IFO 2291 UNIVERSITY AVE	2580 feet to the ESE	Closed Status Spill (Unk/Other Cause)
6	SANTILLI LAND DEVELOPMENT CORP.	WEST FORDHAM ROAD @ HARLEM RIVER	469 feet to the SE	Solid Waste Facility
309	NYCDOT BIN 2240120	W 207TH ST BRG OVER HARLEM RIV	469 feet to the SE	Hazardous Waste Generator/Transporter
99	MAJOR DEEGAN & W FORDHAM	MAJOR DEEGAN & W FORDHAM	953 feet to the SE	Closed Status Spill (Unk/Other Cause)
100	MAJOR DEEGAN & FORDHAM RD	MAJOR DEEGAN & FORDHAM RD	953 feet to the SE	Closed Status Spill (Unk/Other Cause)
101	1GAL FROM DEAD A TRANS FEEDER	120 EXTERIOR ROAD & FORDAM ROAD	953 feet to the SE	Closed Status Spill (Unk/Other Cause)
272	FORDHAM ROAD/MAJOR DEEGAN	FORDHAM ROAD/MAJOR DEEGAN	953 feet to the SE	Closed Status Spill (Misc. Spill Cause)
273	2175 CEDAR AVE	2175 CEDAR AVE	1065 feet to the SE	Closed Status Spill (Misc. Spill Cause)
28	MOBIL	296 WEST FORDHAM ROAD	1096 feet to the SE	Closed Status Tank Failure
29	GASETERIA	296 WEST FORDHAM ROAD	1096 feet to the SE	Closed Status Tank Failure
49	MOBIL S/S	296 WEST FORDHAM ROAD.	1096 feet to the SE	Closed Status Tank Test Failure
50	MOBIL	296 W. FORDHAM RD	1096 feet to the SE	Closed Status Tank Test Failure
113	216143; CEDAR AVENUE AND W 182 STREET	CEDAR AVENUE AND W 182 STREET	1166 feet to the SE	Closed Status Spill (Unk/Other Cause)
114	MAN HOLE # 445	CEDAR AVE/182ND STREET	1166 feet to the SE	Closed Status Spill (Unk/Other Cause)
117	APT BLDG	2254 CEDAR AVE	1269 feet to the SE	Closed Status Spill (Unk/Other Cause)
141	214712; SEDGWICK AVE AND W 182ST	SEDGWICK AVE AND W 182ST	1556 feet to the SE	Closed Status Spill (Unk/Other Cause)
37	PUBLIC SCHOOL 15	2195 ANDREWS AVE	2159 feet to the SE	Closed Status Tank Failure
212	BRONX COMMUNITY COLLEGE	135 HALL OF FAME TERRACE	2159 feet to the SE	Closed Status Spill (Unk/Other Cause)
224	I/F/O 2241 ANDREWS AVE	I/F/O 2241 ANDREWS AVE	2270 feet to the SE	Closed Status Spill (Unk/Other Cause)
41	SHELTERING ARMS	2207 UNIVERSITY AVE	2484 feet to the SE	Closed Status Tank Failure
78	MACRACKEN HALL	2155 UNIVERSITY AVE	2555 feet to the SE	Closed Status Tank Test Failure
35	CUNY− BRONX COLLEGE	WEST 181 STREET/UNIVERSIT	2002 feet to the SSE	Closed Status Tank Failure
65	BRONX COMMUNITY COLLEGE	WEST 181ST & UNIVERSITY AVE	2002 feet to the SSE	Closed Status Tank Test Failure
281	BRONX COMMUNITY COLLEGE	UNIVERSITY AVE & WST 181	2002 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
207	MANHOLE 23478	NORTH OF 1981 SEDGWICK AV	2132 feet to the S	Closed Status Spill (Unk/Other Cause)
220	PRIVATE RESD	1985 SEDGWICK AVE	2240 feet to the S	Closed Status Spill (Unk/Other Cause)
221	APT. BUILDING	1985 SEDGWICK AVE	2240 feet to the S	Closed Status Spill (Unk/Other Cause)
231	215259; CEDAR AVENUE AND W 180TH STREET	CEDAR AVENUE AND W 180TH STREET	2396 feet to the S	Closed Status Spill (Unk/Other Cause)
232	213822; CEDAR AVE AND W 180 ST	CEDAR AVE AND W 180 ST	2396 feet to the S	Closed Status Spill (Unk/Other Cause)
288	29003 MANHOLE	CEDAR AVE/ 180TH ST	2396 feet to the S	Closed Status Spill (Misc. Spill Cause)
291	ROADWAY	DEEGAN EXPRESSWAY AT WEST 179 ST EXIT	2427 feet to the S	Closed Status Spill (Misc. Spill Cause)
241	1972,74 CEDAR AVENUE. / B	1972,74 CEDAR AVENUE.	2521 feet to the S	Closed Status Spill (Unk/Other Cause)
245	BACK YARD	1970 CEDAR AVE	2545 feet to the S	Closed Status Spill (Unk/Other Cause)
294	HARLEM RIVER BRIDGES	300 WEST 206TH STREET	433 feet to the SSW	Petroleum Bulk Storage Site
295	NYC DEPT. TRANSPORTATION	300 W 206 ST	433 feet to the SSW	Petroleum Bulk Storage Site
43	HARLEM RIVER BRIDGE − DDC	300 WEST 206TH ST	448 feet to the SSW	Closed Status Tank Test Failure
87	HARLEM RIVER FACILITY	300 206TH STREET	448 feet to the SSW	Closed Status Spill (Unk/Other Cause)
310	NYSDOT HARLEM RIVER GARAGE	300 W 206TH ST	499 feet to the SSW	Hazardous Waste Generator/Transporter
127	MANHOLE #56424	MARGINAL ST & W. 202 ST	1388 feet to the SSW	Closed Status Spill (Unk/Other Cause)
128	OIL FOUND IN TIDAL MANHOLE: M56062	WEST 202 STREET & HARLEM RIVER	1388 feet to the SSW	Closed Status Spill (Unk/Other Cause)
274	CON ED TRANSFORMER SPILL	301 201ST STREET	1608 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
191	MANHOLE 56411	ACADEMY ST/MARGINAL ST	1942 feet to the SSW	Closed Status Spill (Unk/Other Cause)
192	MANHOLE # 56414 EMIS 218119	ACADEMY ST & EXTERIOR ST	1942 feet to the SSW	Closed Status Spill (Unk/Other Cause)
193	MANHOLES 24340 & 24339 (TIDAL)	ACADEMY ST & MARGINAL STREET	1942 feet to the SSW	Closed Status Spill (Unk/Other Cause)
3	HARLEM RIVER YARD	275 HARLEM RIVER PARK BRIDGE	4220 feet to the SSW	NYSDEC Inactive Haz Waste Disposal Site

88	SPILL NUMBER 0204986	3835 9TH AVE	458 feet to the SW	Closed Status Spill (Unk/Other Cause)
296	MANHATTAN BIBLE CHURCH INC	401 W 205TH ST	516 feet to the SW	Petroleum Bulk Storage Site
90	VAULT V1734	205TH ST / 9TH AV	600 feet to the SW	Closed Status Spill (Unk/Other Cause)
91	ONE QT OIL IN MH 40038 (TIDAL)	WEST 205 STREET & 9 AVENUE	600 feet to the SW	Closed Status Spill (Unk/Other Cause)
258	VAULT 1734	9TH AV & W 205TH ST	600 feet to the SW	Closed Status Spill (Misc. Spill Cause)
319	CONSOLIDATED EDISON OF NY	W. 205 ST & 9 AVE	600 feet to the SW	Hazardous Waste Generator/Transporter
111	LAB RESULTS RADIO FUEL SCREENING	425 WEST 203RD ST	1099 feet to the SW	Closed Status Spill (Unk/Other Cause)
112	SERVICE BOX #S24164	431 W 203RD ST	1099 feet to the SW	Closed Status Spill (Unk/Other Cause)
17	DYCKMAN AUTO SERVICES	431 W. 202ND ST	1308 feet to the SW	Active Haz Spill (Unknown/Other Cause)
18	MANHOLE 56063	W 202 ST & 9 AVE	1378 feet to the SW	Active Haz Spill (Unknown/Other Cause)
120	MANHOLE 451M	W 202NC ST AT 9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
121	MANHOLE #451	202TH ST & 9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
122	221399; W 202 ST	W 202 ST	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
123	HALF GAL IN TIDAL MANHOLE 56062	WEST 202 STREET & 9 AVENUE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
124	MANHOLE # 400	9TH AVE/WEST 202 ST	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
125	MANHOLE #451	W 202ND ST & 9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
126	MANHOLE #451	202ND ST/9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
19	SHERMAN CREEK SUBSTATION TR #3	425 WEST 201 STREET	1524 feet to the SW	Active Haz Spill (Unknown/Other Cause)
20	SHERMAN CREEK SUBSTATION	425 WEST 201 STREET	1524 feet to the SW	Active Haz Spill (Unknown/Other Cause)
21	SHERMAN CREEK SUBST − TR#6	425 201ST ST	1524 feet to the SW	Active Haz Spill (Unknown/Other Cause)
133	SHERMAN CREEK S/S. SPARE XFMR, 1 QT	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
134	SHERMAN CREEK S/S. 200 GAL IN MH	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
135	SHERMAN CREEK S/S. 1 PT IN MH 24339 & 40	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
136	MANHOLE # 400	425 WEST 201 STREET	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
137	SHERMAN CREEK SUBSTATION	425 201ST STREET	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
138	SHERMAN CREEK SUB−STATION	425 WEST 201ST STREET	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
139	ROADWAY	9TH AVE BET 201 & 202 ST	1527 feet to the SW	Closed Status Spill (Unk/Other Cause)
54	3761 TENTH AVE	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Tank Test Failure
145	10 AUTO CENTER	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
146	201 ST & 10TH AVE/SHELL	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
147	SHELL SERVICE STATION	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
148	SHELL SERVICE # 138678	3761 TENTH AVE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
151	MANHOLE 56066	WEST 201 ST & 9TH AV	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
152	MANHOLE #24157	SO SIDE W201ST ST/9TH AVE	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
153	INSIDE MANHOLE 24151	WEST 201 ST − 9TH AVE	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
154	MANHOLE 24157	WEST 201ST ST	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
155	MANHOLE # 56064	WEST 201 ST AND 9TH AVE	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
27	FEEDER 99031	SHERMAN CR−DUNWOODIE S/S	1646 feet to the SW	Active Haz Spill (Misc. Spill Cause)
156	SHERMAN CREEK SUBSTATION	W 201ST STREET	1646 feet to the SW	Closed Status Spill (Unk/Other Cause)
275	MANHOLE 60578 IN FRT OF	3758 TENTH AVE	1676 feet to the SW	Closed Status Spill (Misc. Spill Cause)
24	ACADEMY SUBSTATION	416 WEST 201 ST	1707 feet to the SW	Active Haz Spill (Unknown/Other Cause)
159	221558; 416 WEST 201ST STREET	416 WEST 201ST STREET	1707 feet to the SW	Closed Status Spill (Unk/Other Cause)
160	SHERMAN CREEK CONSTRUCTION SITE	416 WEST 201 STREET	1707 feet to the SW	Closed Status Spill (Unk/Other Cause)
161	SHERMAN CREEK SUBSTATION MH	416 WEST 201ST STREET	1707 feet to the SW	Closed Status Spill (Unk/Other Cause)
276	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	1707 feet to the SW	Closed Status Spill (Misc. Spill Cause)
162	SHERMAN CREEK POWER PLANT	ACADEMY ST & 201ST ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
163	MAHOLE #24336	W. 201ST ST AND ACADEMY	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
164	MAN HOLE # 24329	W 201ST ST/ACADEMY AVE	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
165	MANHOLE #24334	ACADEMY ST / WEST 201ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
166	MANHOLE #24333	ACADEMY ST/W 201ST ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
167	ACADEMY SUB STATION	201ST & ACADEMY ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
168	TIDAL MANHOLE 24331 HAS ONE PINT	ACADEMY STREET & WEST 201 STREET	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)

169	TIDAL MANHOLES # 24336 & 24341	ACADEMY & WEST 201 STREETS	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
170	MANHOLE 24335	ACADAMY ST/10TH AVE	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
171	219633; 10 AVENUE AND ACADEMY STREET	10 AVENUE AND ACADEMY STREET	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
172	MANHOLE #60078	WEST 201ST ST/10TH AVE	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
173	MH 43417	WEST 201 ST/ 10TH AV	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
174	SHERMAN CREEK MARINA	201ST ST/10TH AVE	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
175	I/F/O 300 WEST 201ST ST	300 WEST 201ST ST	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
176	ACADEMY STREET SUBSTATION	1 ACADEMY ST	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
177	CONED −ACADEMY ST SUBSTATION	300 WEST 201ST STREET	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
178	ACADEMY S/S SITE. OIL IN EXCAVATION	300 WEST 201 STREET	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
190	IN SWAMPY AREA/BOAT BASIN	3725 10TH AV	1937 feet to the SW	Closed Status Spill (Unk/Other Cause)
236	MAN HOLE 61887	HARLEM RIVER DR/DYKEMAN S	2437 feet to the SW	Closed Status Spill (Unk/Other Cause)
253	NYCSCA − PUBLIC SCHOOL #5	3703 10TH AVENUE	2627 feet to the SW	Closed Status Spill (Unk/Other Cause)
297	420 WEST 206TH ST OWNERS CORP	420 WEST 206TH STREET	548 feet to the WSW	Petroleum Bulk Storage Site
298	MIRIAM YEDID REALTY LLC	403 WEST 205TH ST	550 feet to the WSW	Petroleum Bulk Storage Site
89	420 W 206TH ST OWNERS	420 W 206TH ST	564 feet to the WSW	Closed Status Spill (Unk/Other Cause)
299	407 WEST 205TH STREET	407 WEST 205TH STREET	570 feet to the WSW	Petroleum Bulk Storage Site
300	425 WEST 205TH ST CORP	425 WEST 205TH ST	627 feet to the WSW	Petroleum Bulk Storage Site
105	MANHOLE #00404	10TH AVE/WEST 204TH	1040 feet to the WSW	Closed Status Spill (Unk/Other Cause)
108	NAGLE AV	NAGLE AVE & 204TH ST	1068 feet to the WSW	Closed Status Spill (Unk/Other Cause)
109	204TH ST & NAGLE AVE	204TH ST & NAGLE AVE	1068 feet to the WSW	Closed Status Spill (Unk/Other Cause)
110	MANHOLE # 39481	W 204TH ST & NAGEL AVE	1068 feet to the WSW	Closed Status Spill (Unk/Other Cause)
149	MANHOLE 39475	NAGLE AVE/ACADEMY ST	1638 feet to the WSW	Closed Status Spill (Unk/Other Cause)
150	MAN HOLE # 60580	ACADEMY ST / NAGLE AV	1638 feet to the WSW	Closed Status Spill (Unk/Other Cause)
26	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Active Haz Spill (Unknown/Other Cause)
56	DYCKMAN HOUSES −NYCHA	215 NAGLE AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
57	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
58	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
59	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
278	DYCKMAN HOUSES	3790 10TH AVENUE	1873 feet to the WSW	Closed Status Spill (Misc. Spill Cause)
284	IN STREET	182 NAGLE AVE	2146 feet to the WSW	Closed Status Spill (Misc. Spill Cause)
257	MANHOLE #43436	3871 10TH AVE	544 feet to the W	Closed Status Spill (Misc. Spill Cause)
320	CON EDISON	F/O 449 W 206 ST & 10TH AVE	616 feet to the W	Hazardous Waste Generator/Transporter
270	3852−6 10TH AVE/RAMIERO	3852−3856 TENTH AVE	790 feet to the W	Closed Status Spill (Misc. Spill Cause)
48	TTF	266−272 NAGLE AVE	936 feet to the W	Closed Status Tank Test Failure
51	518 WEST 204TH ST	518 WEST 204TH	1238 feet to the W	Closed Status Tank Test Failure
116	MANHOLE 24185	518 − 522 W 204TH ST	1238 feet to the W	Closed Status Spill (Unk/Other Cause)
52	DERMOT COMPANY	87 POST AVE	1279 feet to the W	Closed Status Tank Test Failure
118	DERMOT COMPANY APT. BUILDING	87 POST AVE	1279 feet to the W	Closed Status Spill (Unk/Other Cause)
22	EXCAVATION	61 POST AVE	1540 feet to the W	Active Haz Spill (Unknown/Other Cause)
23	EXCAVATION	61 POST AVE	1540 feet to the W	Active Haz Spill (Unknown/Other Cause)
140	SERVICE BOX 42918	63 POST AVE	1540 feet to the W	Closed Status Spill (Unk/Other Cause)
143	SERVICE BOX #46188	165 SHERMAN AVE	1571 feet to the W	Closed Status Spill (Unk/Other Cause)
206	AP MART	610 ACADEMY STREET	2123 feet to the W	Closed Status Spill (Unk/Other Cause)
217	APT BLDG	618 ACADEMY STREET	2175 feet to the W	Closed Status Spill (Unk/Other Cause)
218	9−15 POST AVE	9−15 POST AVE	2180 feet to the W	Closed Status Spill (Unk/Other Cause)
286	33 VERMILYEA AVENUE	33 VERMILYEA AVENUE	2261 feet to the W	Closed Status Spill (Misc. Spill Cause)
240	SIDEWALK	11 VERMILYEA AVE	2512 feet to the W	Closed Status Spill (Unk/Other Cause)
242	SHERMAN AVE/DECKMAN AVE	SHERMAN AVE/DECKMAN AVE	2534 feet to the W	Closed Status Spill (Unk/Other Cause)
243	MANHOLE 46120	SHERMAN AV/DYCKMAN ST	2534 feet to the W	Closed Status Spill (Unk/Other Cause)
15	CON EDISON	10TH AVE AND WEST 207TH ST	628 feet to the WNW	Active Haz Spill (Unknown/Other Cause)

260	10TH AVE & 207TH STREET	10TH AVE / 207TH STREET	628 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
261	RAILWAY OVERPASS	WEST 207 ST & 10TH AVE	628 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
323	CONSOLIDATED EDISON	207 ST & 10TH AVE	628 feet to the WNW	Hazardous Waste Generator/Transporter
324	CON EDISON	NORTHWEST CORNER OF 207TH ST & 10TH AVE	628 feet to the WNW	Hazardous Waste Generator/Transporter
325	CON EDISON	N/S 207TH ST 180 E/O 10TH AVE	628 feet to the WNW	Hazardous Waste Generator/Transporter
326	MTA NYCT − 207TH STREET STATION 1 LINE	10TH AVE & W 207TH ST	628 feet to the WNW	Hazardous Waste Generator/Transporter
46	COMMERCIAL BLDG	513 W. 207TH ST.	791 feet to the WNW	Closed Status Tank Test Failure
47	BUSINESS	513 WEST 207TH STREET	791 feet to the WNW	Closed Status Tank Test Failure
271	TANK FAILURE AND #2 SPILL IN BOILER ROOM	130 POST AVENUE	949 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
53	204 SHERMAN AVE	204 SHERMAN AVE	1413 feet to the WNW	Closed Status Tank Test Failure
131	ST. MATTHEWS EVANGELICAL	200−202 SHERMAN AVE	1465 feet to the WNW	Closed Status Spill (Unk/Other Cause)
132	MANHOLE #5160	WEST 204TH ST. AND SHERMA	1471 feet to the WNW	Closed Status Spill (Unk/Other Cause)
142	SERVICE BOX # 47454	111−113 VERMILYEA AVENUE	1560 feet to the WNW	Closed Status Spill (Unk/Other Cause)
32	85−87 VERMILYEA AVE	85−87 VERMILYEA AVE	1766 feet to the WNW	Closed Status Tank Failure
277	85−87 VERMILYEA AVE	85−87 VERMILYEA AVE	1766 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
62	4880 BROADWAY/MANH/GETTY	4880 BROADWAY	1962 feet to the WNW	Closed Status Tank Test Failure
63	GETTY − MAN	4880 BROADWAY	1962 feet to the WNW	Closed Status Tank Test Failure
194	GETTY #339 − GETTY PROPERTIES	4880 BROADWAY	1962 feet to the WNW	Closed Status Spill (Unk/Other Cause)
198	SVC BOX 24309	619 ACADEMY AVENUE	1982 feet to the WNW	Closed Status Spill (Unk/Other Cause)
213	THREE GAL XFMR LEAK IN VS #93990	VERMELIAR AVE & ACADEMY STREET	2161 feet to the WNW	Closed Status Spill (Unk/Other Cause)
214	MANHOLE 47441	ACADEMY ST/VERMILYEA AV	2161 feet to the WNW	Closed Status Spill (Unk/Other Cause)
215	MANHOLE # 47441	ACADEMY ST/VERMILYEA AV	2161 feet to the WNW	Closed Status Spill (Unk/Other Cause)
216	4856−66 BROADWAY	4856−66 BROADWAY	2175 feet to the WNW	Closed Status Spill (Unk/Other Cause)
219	SERVICE BOX #24308	IFO 631 ACADEMY ST	2202 feet to the WNW	Closed Status Spill (Unk/Other Cause)
74	4848 BROADWAY	4848 BROADWAY	2239 feet to the WNW	Closed Status Tank Test Failure
39	RESIDENTIAL APT COMPLEX	4861 BROADWAY	2312 feet to the WNW	Closed Status Tank Failure
226	4863 BROADWAY/NY CLEANERS	4863 BROADWAY	2312 feet to the WNW	Closed Status Spill (Unk/Other Cause)
230	VACANT COMMERCIAL LOT	4857 BROADWAY	2375 feet to the WNW	Closed Status Spill (Unk/Other Cause)
237	MANHOLE 28185	BROADWAY & ACADEMY ST	2438 feet to the WNW	Closed Status Spill (Unk/Other Cause)
251	MANHOLE 28174	CUMMINS ST/ BROADWAY	2625 feet to the WNW	Closed Status Spill (Unk/Other Cause)
92	MAN HOLE # 406	10TH AVE / POST AVE	621 feet to the NW	Closed Status Spill (Unk/Other Cause)
259	TRAIN MAINTAINANCE FACILI	3900 10TH AVE (208TH ST)	621 feet to the NW	Closed Status Spill (Misc. Spill Cause)
321	CONSOLIDATED EDISON	10TH AVE	621 feet to the NW	Hazardous Waste Generator/Transporter
322	CONSOLIDATED EDISON	POST AVE & 10TH AVE	621 feet to the NW	Hazardous Waste Generator/Transporter
97	AUTO REPAIR SHOP	10TH AVE & ISHAM ST	662 feet to the NW	Closed Status Spill (Unk/Other Cause)
98	SHERMAN AV AND	ISHAM ST	951 feet to the NW	Closed Status Spill (Unk/Other Cause)
119	RESIDENCE	145 VERMILYEA AVE	1359 feet to the NW	Closed Status Spill (Unk/Other Cause)
129	I/F/O 560 ISHAM ST	560 ISHAM ST	1454 feet to the NW	Closed Status Spill (Unk/Other Cause)
130	MANHOLE	W 207TH ST & VERMILYEA AVE	1459 feet to the NW	Closed Status Spill (Unk/Other Cause)
55	4960 BROADWAY	4960 BROADWAY	1623 feet to the NW	Closed Status Tank Test Failure
33	BROADWAY & 207TH ST	207TH ST & BROADWAY	1809 feet to the NW	Closed Status Tank Failure
60	608 ISHAM STREET	608 ISHAM STREET	1906 feet to the NW	Closed Status Tank Test Failure
61	608 ISHAM STREET	608 ISHAM STREET	1906 feet to the NW	Closed Status Tank Test Failure
9	PVT DWELLING TTF	101 COOPER ST	1979 feet to the NW	Active Tank Test Failure
64	THE DERMOT COMPANY	623−631 WEST 207TH ST	1982 feet to the NW	Closed Status Tank Test Failure
222	SPILL NUMBER 0306293	647 WEST 207TH ST	2245 feet to the NW	Closed Status Spill (Unk/Other Cause)
7		ISHAM PARK SEAMAN AVE & 207 ST	2372 feet to the NW	Solid Waste Facility
76	THE DERMOT COMPANY	121 SEAMAN AVE	2438 feet to the NW	Closed Status Tank Test Failure
16	BP AMOCO STATION #5053	3936 10TH AVE	850 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
102	WEST 211TH ST & 10TH AVE.	WEST 211TH ST / 10TH AVE	1026 feet to the NNW	Closed Status Spill (Unk/Other Cause)
103	MANHOLE # 43454	10TH AVE/WEST 211TH ST	1026 feet to the NNW	Closed Status Spill (Unk/Other Cause)

104	MANHOLE #43454	W 211 ST & 10TH AV	1026 feet to the NNW	Closed Status Spill (Unk/Other Cause)
31	KINGSBRIDGE BUS DEPOT	212TH ST AT BROADWAY	1646 feet to the NNW	Closed Status Tank Failure
229	APT. BUILDING	50 PARK TERRACE WEST	2372 feet to the NNW	Closed Status Spill (Unk/Other Cause)
77	X	45 PARK TERRACE WEST	2508 feet to the NNW	Closed Status Tank Test Failure

Identified Toxic Sites by Category

3875 Ninth Ave
New York, NY

* Compass directions can vary substantially for sites located very close to the subject property address.

NYSDEC Inactive Haz. Waste Disposal Site Registry −− Total Sites − 3

Database searched at 1 MILE − ASTM required search distance: 1 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
1	203006	2614 UNIVERSITY AVENUE	2614 UNIVERSITY AVENUE	4120 feet to the ENE
2	203008	2628 UNIVERSITY AVENUE	2628 UNIVERSITY AVENUE	4184 feet to the ENE
3	203011	HARLEM RIVER YARD	275 HARLEM RIVER PARK BRIDGE	4220 feet to the SSW

Brownfields Sites −− Total Sites − 1

Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
4	V00559	CE − KINGSBRIDGE STATION	BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45	1228 feet to the ESE
5	V00559	CE − KINGSBRIDGE STATION	BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45	1933 feet to the ENE

Solid Waste Facilities −− Total Sites − 2

Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
6	NY00000000437	SANTILLI LAND DEVELOPMENT CORP.	WEST FORDHAM ROAD @ HARLEM RIVER	469 feet to the SE
7	NY206		ISHAM PARK SEAMAN AVE & 207 ST	2372 feet to the NW

Active Tank Test Failures −− Total Sites − 6

Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
8	0106375	207 TH STREET YARD−NYCT	3961 TENTH AVE	630 feet to the N
9	1003365	PVT DWELLING TTF	101 COOPER ST	1979 feet to the NW
10	1400730	M12 SANITATION GARAGE	301 WEST 215 ST	2035 feet to the NNE
11	9705837	MANHATTAN DISTR. 8 (OLD BX W. 7) DOS −DDC	4036 9TH AVE	2071 feet to the NNE
12	1310377	NYC DEPT OF SANITATION	423 WEST 215TH ST	2071 feet to the NNE
13	0109660	65 PARK TERRACE WEST	65−67 PARK TERRACE EAST	2375 feet to the N

Active Haz Spills (Unknown Causes & Other Causes) −− Total Sites − 13

Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
14	0201957	HESS STATION 32517	401 WEST 207TH STREET	218 feet to the WNW
15	1006377	CON EDISON	10TH AVE AND WEST 207TH ST	628 feet to the WNW
16	0111502	BP AMOCO STATION #5053	3936 10TH AVE	850 feet to the NNW
17	9901562	DYCKMAN AUTO SERVICES	431 W. 202ND ST	1308 feet to the SW
18	0509690	MANHOLE 56063	W 202 ST & 9 AVE	1378 feet to the SW
19	0200867	SHERMAN CREEK SUBSTATION TR #3	425 WEST 201 STREET	1524 feet to the SW
20	0200866	SHERMAN CREEK SUBSTATION	425 WEST 201 STREET	1524 feet to the SW
21	0200790	SHERMAN CREEK SUBST − TR#6	425 201ST ST	1524 feet to the SW
22	1311717	EXCAVATION	61 POST AVE	1540 feet to the W
23	1311647	EXCAVATION	61 POST AVE	1540 feet to the W
24	1105649	ACADEMY SUBSTATION	416 WEST 201 ST	1707 feet to the SW
25	1310895	VAULT 1863	SEDGWICK AVE NORTH OF WEBB	1738 feet to the E
26	9409078	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW

Active Haz Spills (Miscellaneous Spill Causes) −− Total Sites − 1

Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
27	9601217	FEEDER 99031	SHERMAN CR−DUNWOODIE S/S	1646 feet to the SW

Closed Status Tank Failures −− Total Sites − 14

Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
28	8705665	MOBIL	296 WEST FORDHAM ROAD	1096 feet to the SE

29	0230030	GASETERIA	296 WEST FORDHAM ROAD	1096 feet to the SE
30	0230037	GASETERIA	205 WEST FORDHAM ROAD	1563 feet to the ESE
31	0405531	KINGSBRIDGE BUS DEPOT	212TH ST AT BROADWAY	1646 feet to the NNW
32	9303264	85−87 VERMILYEA AVE	85−87 VERMILYEA AVE	1766 feet to the WNW
33	9812706	BROADWAY & 207TH ST	207TH ST & BROADWAY	1809 feet to the NW
34	9303142	2445 SEDGWICK AVE	2445 SEDGWICK AVE	1924 feet to the ENE
35	0409356	CUNY− BRONX COLLEGE	WEST 181 STREET/UNIVERSIT	2002 feet to the SSE
36	0700673	FORHDHAM HILL	1 FORDHAM HILL OVAL	2090 feet to the E
37	0013233	PUBLIC SCHOOL 15	2195 ANDREWS AVE	2159 feet to the SE
38	9811009	ECR REALTY	2326 LORING PLACE	2189 feet to the ESE
39	9607064	RESIDENTIAL APT COMPLEX	4861 BROADWAY	2312 feet to the WNW
40	9812375	KINGSBRIDGE BUS DEPOT	4056 10TH AVE	2317 feet to the N
41	0308539	SHELTERING ARMS	2207 UNIVERSITY AVE	2484 feet to the SE

Closed Status Tank Test Failures −− Total Sites − 39 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
42	9706124	HESS/MERIT SERVICE STATIO	401 WEST 207TH STREET	218 feet to the WNW
43	0104067	HARLEM RIVER BRIDGE − DDC	300 WEST 206TH ST	448 feet to the SSW
44	8708221	3961 TENTH AVE/SHELL SERV	3961 TENTH AVE	630 feet to the N
45	0204997	NYC TRANSIT AUTHORITY	207TH ST YARD	630 feet to the N
46	0509515	COMMERCIAL BLDG	513 W. 207TH ST.	791 feet to the WNW
47	0507807	BUSINESS	513 WEST 207TH STREET	791 feet to the WNW
48	1012487	TTF	266−272 NAGLE AVE	936 feet to the W
49	8701260	MOBIL S/S	296 WEST FORDHAM ROAD.	1096 feet to the SE
50	8701258	MOBIL	296 W. FORDHAM RD	1096 feet to the SE
51	0801121	518 WEST 204TH ST	518 WEST 204TH	1238 feet to the W
52	0800991	DERMOT COMPANY	87 POST AVE	1279 feet to the W
53	8800633	204 SHERMAN AVE	204 SHERMAN AVE	1413 feet to the WNW
54	9301145	3761 TENTH AVE	3761 TENTH AVENUE	1595 feet to the SW
55	9513703	4960 BROADWAY	4960 BROADWAY	1623 feet to the NW
56	9315476	DYCKMAN HOUSES −NYCHA	215 NAGLE AVENUE	1873 feet to the WSW
57	9300549	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW
58	9200115	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW
59	9004308	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW
60	0205348	608 ISHAM STREET	608 ISHAM STREET	1906 feet to the NW
61	0205346	608 ISHAM STREET	608 ISHAM STREET	1906 feet to the NW
62	9002535	4880 BROADWAY/MANH/GETTY	4880 BROADWAY	1962 feet to the WNW
63	8911776	GETTY − MAN	4880 BROADWAY	1962 feet to the WNW
64	0800990	THE DERMOT COMPANY	623−631 WEST 207TH ST	1982 feet to the NW
65	0811391	BRONX COMMUNITY COLLEGE	WEST 181ST & UNIVERSITY AVE	2002 feet to the SSE
66	9807598	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE
67	9604675	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE
68	1214373	NYC DEPT OF SANITATION	301 WEST 215TH ST	2035 feet to the NNE
69	0802569	SANITATION GARGE	301 WEST 215TH STREET	2035 feet to the NNE
70	0012251	NYC DEPT OF SANTIATION	301 WEST 214TH ST	2035 feet to the NNE
71	0411096	BRONX WEST 08 DOS −DDC	423 WEST 215TH STREET	2071 feet to the NNE
72	9705847	APARTMENT BUILDING	2277 ANDREWS AVENUE	2193 feet to the ESE
73	0900070	NORTH EASTERN ACADEMY − TTF	532 WEST 215TH ST	2239 feet to the N
74	0801120	4848 BROADWAY	4848 BROADWAY	2239 feet to the WNW
75	9714576	70 PARK TERR EAST	70 PARK TERR EAST	2323 feet to the N
76	0800992	THE DERMOT COMPANY	121 SEAMAN AVE	2438 feet to the NW
77	0201002	X	45 PARK TERRACE WEST	2508 feet to the NNW
78	0813266	MACRACKEN HALL	2155 UNIVERSITY AVE	2555 feet to the SE

79	9702784	ST.NICHOLAS OF TOLENTINE	2345 UNIVERSITY AVE	2587 feet to the E
80	8706856	CLOSED−LACKOF RECENT INFO	2345 UNIVERSITY AVE.	2587 feet to the E

Closed Status Spills (Unknown Causes & Other Causes) −− Total Sites − 173 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
81	0701614	ONE QT OIL LEAKED FROM PIPE IN	207 STREET & 9 AVENUE	67 feet to the W*
82	9516087	MERIT SERVICE STATION	401 WEST 207TH STREET	218 feet to the WNW
83	9504685	MERIT INWOOD GAS STATION	401 WEST 207TH STREET	218 feet to the WNW
84	0700699	STREET	401 WEST 207TH	218 feet to the WNW
85	0206149	HESS 32517	401 WEST 207TH ST	218 feet to the WNW
86	0402794	ON STREET	WEST 206TH ST./9TH AVE (	339 feet to the SW
87	9515576	HARLEM RIVER FACILITY	300 206TH STREET	448 feet to the SSW
88	0204986	SPILL NUMBER 0204986	3835 9TH AVE	458 feet to the SW
89	9514127	420 W 206TH ST OWNERS	420 W 206TH ST	564 feet to the WSW
90	9911939	VAULT V1734	205TH ST / 9TH AV	600 feet to the SW
91	0712932	ONE QT OIL IN MH 40038 (TIDAL)	WEST 205 STREET & 9 AVENUE	600 feet to the SW
92	0105510	MAN HOLE # 406	10TH AVE / POST AVE	621 feet to the NW
93	0902593	CONCRETE PAD	3961 10TH AVE	630 feet to the N
94	0405363	207TH STREET YARD	3961 TENTH AVE	630 feet to the N
95	0208829	207TH STREET YARD	207TH ST	630 feet to the N
96	0101334	207TH ST OVERHAUL SHOP	3961 TENTH AVE	630 feet to the N
97	0709713	AUTO REPAIR SHOP	10TH AVE & ISHAM ST	662 feet to the NW
98	0304194	SHERMAN AV AND	ISHAM ST	951 feet to the NW
99	9703877	MAJOR DEEGAN & W FORDHAM	MAJOR DEEGAN & W FORDHAM	953 feet to the SE
100	8909821	MAJOR DEEGAN & FORDHAM RD	MAJOR DEEGAN & FORDHAM RD	953 feet to the SE
101	0606852	1GAL FROM DEAD A TRANS FEEDER	120 EXTERIOR ROAD & FORDAM ROAD	953 feet to the SE
102	9309778	WEST 211TH ST & 10TH AVE.	WEST 211TH ST / 10TH AVE	1026 feet to the NNW
103	0101081	MANHOLE # 43454	10TH AVE/WEST 211TH ST	1026 feet to the NNW
104	0006049	MANHOLE #43454	W 211 ST & 10TH AV	1026 feet to the NNW
105	0504949	MANHOLE #00404	10TH AVE/WEST 204TH	1040 feet to the WSW
106	9508967	EXTERIOR ST − LANDING RD	EXTERIOR ST − LANDING RD	1045 feet to the ESE
107	0890018	205006; EXTERIOR ST 140‘ N/O LANDING ROAD RAMP	EXTERIOR ST 140‘ N/O LANDING ROAD RAMP	1045 feet to the ESE
108	9802755	NAGLE AV	NAGLE AVE & 204TH ST	1068 feet to the WSW
109	9205403	204TH ST & NAGLE AVE	204TH ST & NAGLE AVE	1068 feet to the WSW
110	0003888	MANHOLE # 39481	W 204TH ST & NAGEL AVE	1068 feet to the WSW
111	1204627	LAB RESULTS RADIO FUEL SCREENING	425 WEST 203RD ST	1099 feet to the SW
112	0411620	SERVICE BOX #S24164	431 W 203RD ST	1099 feet to the SW
113	0914112	216143; CEDAR AVENUE AND W 182 STREET	CEDAR AVENUE AND W 182 STREET	1166 feet to the SE
114	0307078	MAN HOLE # 445	CEDAR AVE/182ND STREET	1166 feet to the SE
115	0803054	OIL COMING INTO MH 23033 FROM DUCTS.	CEDAR AVENUE & FORDAHM ROAD	1203 feet to the ESE
116	9903826	MANHOLE 24185	518 − 522 W 204TH ST	1238 feet to the W
117	1216029	APT BLDG	2254 CEDAR AVE	1269 feet to the SE
118	0805791	DERMOT COMPANY APT. BUILDING	87 POST AVE	1279 feet to the W
119	0606880	RESIDENCE	145 VERMILYEA AVE	1359 feet to the NW
120	9912714	MANHOLE 451M	W 202NC ST AT 9TH AVE	1378 feet to the SW
121	9808098	MANHOLE #451	202TH ST & 9TH AVE	1378 feet to the SW
122	1009086	221399; W 202 ST	W 202 ST	1378 feet to the SW
123	0713210	HALF GAL IN TIDAL MANHOLE 56062	WEST 202 STREET & 9 AVENUE	1378 feet to the SW
124	0504993	MANHOLE # 400	9TH AVE/WEST 202 ST	1378 feet to the SW
125	0210155	MANHOLE #451	W 202ND ST & 9TH AVE	1378 feet to the SW
126	0105182	MANHOLE #451	202ND ST/9TH AVE	1378 feet to the SW
127	9901605	MANHOLE #56424	MARGINAL ST & W. 202 ST	1388 feet to the SSW
128	0800080	OIL FOUND IN TIDAL MANHOLE: M56062	WEST 202 STREET & HARLEM RIVER	1388 feet to the SSW

129	0811833	I/F/O 560 ISHAM ST	560 ISHAM ST	1454 feet to the NW
130	9701191	MANHOLE	W 207TH ST & VERMILYEA AVE	1459 feet to the NW
131	0510059	ST. MATTHEWS EVANGELICAL	200−202 SHERMAN AVE	1465 feet to the WNW
132	0404683	MANHOLE #5160	WEST 204TH ST. AND SHERMA	1471 feet to the WNW
133	0713055	SHERMAN CREEK S/S. SPARE XFMR, 1 QT	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW
134	0700417	SHERMAN CREEK S/S. 200 GAL IN MH	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW
135	0700416	SHERMAN CREEK S/S. 1 PT IN MH 24339 & 40	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW
136	0602530	MANHOLE # 400	425 WEST 201 STREET	1524 feet to the SW
137	0307502	SHERMAN CREEK SUBSTATION	425 201ST STREET	1524 feet to the SW
138	0200651	SHERMAN CREEK SUB−STATION	425 WEST 201ST STREET	1524 feet to the SW
139	0202963	ROADWAY	9TH AVE BET 201 & 202 ST	1527 feet to the SW
140	9904273	SERVICE BOX 42918	63 POST AVE	1540 feet to the W
141	0814618	214712; SEDGWICK AVE AND W 182ST	SEDGWICK AVE AND W 182ST	1556 feet to the SE
142	0409873	SERVICE BOX # 47454	111−113 VERMILYEA AVENUE	1560 feet to the WNW
143	9904264	SERVICE BOX #46188	165 SHERMAN AVE	1571 feet to the W
144	9909822	FORDHAM AND	LANDING AVE	1582 feet to the ESE
145	9410208	10 AUTO CENTER	3761 TENTH AVENUE	1595 feet to the SW
146	8807698	201 ST & 10TH AVE/SHELL	3761 TENTH AVENUE	1595 feet to the SW
147	0430011	SHELL SERVICE STATION	3761 TENTH AVENUE	1595 feet to the SW
148	0411456	SHELL SERVICE # 138678	3761 TENTH AVE	1595 feet to the SW
149	9914087	MANHOLE 39475	NAGLE AVE/ACADEMY ST	1638 feet to the WSW
150	9904375	MAN HOLE # 60580	ACADEMY ST / NAGLE AV	1638 feet to the WSW
151	9908258	MANHOLE 56066	WEST 201 ST & 9TH AV	1640 feet to the SW
152	9902923	MANHOLE #24157	SO SIDE W201ST ST/9TH AVE	1640 feet to the SW
153	9812586	INSIDE MANHOLE 24151	WEST 201 ST − 9TH AVE	1640 feet to the SW
154	9809104	MANHOLE 24157	WEST 201ST ST	1640 feet to the SW
155	0502280	MANHOLE # 56064	WEST 201 ST AND 9TH AVE	1640 feet to the SW
156	0011061	SHERMAN CREEK SUBSTATION	W 201ST STREET	1646 feet to the SW
157	0800181	XFMR IN VAULT 5675 LEAKED FIVE GAL	5030 BROADWAY/ WEST 213 STREET	1703 feet to the N
158	0004114	MANHOLE 57914	5030 BROADWAY	1703 feet to the N
159	1008889	221558; 416 WEST 201ST STREET	416 WEST 201ST STREET	1707 feet to the SW
160	0801586	SHERMAN CREEK CONSTRUCTION SITE	416 WEST 201 STREET	1707 feet to the SW
161	0408019	SHERMAN CREEK SUBSTATION MH	416 WEST 201ST STREET	1707 feet to the SW
162	9910791	SHERMAN CREEK POWER PLANT	ACADEMY ST & 201ST ST	1709 feet to the SW
163	9908766	MAHOLE #24336	W. 201ST ST AND ACADEMY	1709 feet to the SW
164	9903065	MAN HOLE # 24329	W 201ST ST/ACADEMY AVE	1709 feet to the SW
165	9809226	MANHOLE #24334	ACADEMY ST / WEST 201ST	1709 feet to the SW
166	9809225	MANHOLE #24333	ACADEMY ST/W 201ST ST	1709 feet to the SW
167	0811866	ACADEMY SUB STATION	201ST & ACADEMY ST	1709 feet to the SW
168	0710888	TIDAL MANHOLE 24331 HAS ONE PINT	ACADEMY STREET & WEST 201 STREET	1709 feet to the SW
169	0709310	TIDAL MANHOLES # 24336 & 24341	ACADEMY & WEST 201 STREETS	1709 feet to the SW
170	9809305	MANHOLE 24335	ACADAMY ST/10TH AVE	1715 feet to the SW
171	0914663	219633; 10 AVENUE AND ACADEMY STREET	10 AVENUE AND ACADEMY STREET	1715 feet to the SW
172	0106312	MANHOLE #60078	WEST 201ST ST/10TH AVE	1715 feet to the SW
173	0000979	MH 43417	WEST 201 ST/ 10TH AV	1715 feet to the SW
174	0000613	SHERMAN CREEK MARINA	201ST ST/10TH AVE	1715 feet to the SW
175	0912120	I/F/O 300 WEST 201ST ST	300 WEST 201ST ST	1735 feet to the SW
176	0805834	ACADEMY STREET SUBSTATION	1 ACADEMY ST	1735 feet to the SW
177	0804331	CONED −ACADEMY ST SUBSTATION	300 WEST 201ST STREET	1735 feet to the SW
178	0803776	ACADEMY S/S SITE. OIL IN EXCAVATION	300 WEST 201 STREET	1735 feet to the SW
179	9814036	MANHOLE 29002	W FORDAM RD/ FREDWICK AVE	1765 feet to the E
180	1309432	MANHOLE 29002	WEST FORDHAM RD NEAR SEDGEWICK AVE	1765 feet to the E
181	0504375	MH 26481	BAILEY AVE AND FORDHAM RD	1765 feet to the E

182	0305541	MANHOLE # 29002	W FORDHAM RD/SEDGWICK AV	1765 feet to the E
183	0012998	APARTMENT BUILDING 8	FORDHAM/SEDGWICK	1765 feet to the E
184	9905354	MANHOLE 12719	IFO 2400 SEDGEWICK AVE	1800 feet to the E
185	0801424	SB 24271 HAS FIFTY GALLONS	IN FRONT OF 230 WEST 215 STREET	1840 feet to the NE
186	0814552	214249; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE
187	0814551	214248; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE
188	0814550	214246; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE
189	0104026	STREET	W 215TH ST/9TH AVE	1871 feet to the NNE
190	9705749	IN SWAMPY AREA/BOAT BASIN	3725 10TH AV	1937 feet to the SW
191	9810323	MANHOLE 56411	ACADEMY ST/MARGINAL ST	1942 feet to the SSW
192	0905952	MANHOLE # 56414 EMIS 218119	ACADEMY ST & EXTERIOR ST	1942 feet to the SSW
193	0802105	MANHOLES 24340 & 24339 (TIDAL)	ACADEMY ST & MARGINAL STREET	1942 feet to the SSW
194	9601093	GETTY #339 − GETTY PROPERTIES	4880 BROADWAY	1962 feet to the WNW
195	9812981	MANHOLE #31136	SEDGWYCK AVE/BAILEY AVE	1964 feet to the ENE
196	0706033	M51 FEEDER LEAK INTO MH 29001	SEDGWICK AVE & BAILEY AVENUE &	1964 feet to the ENE
197	9202341	215TH ST/HARLEM RIVER DR	215TH ST/HARLEM RIVER DR	1971 feet to the N
198	0513297	SVC BOX 24309	619 ACADEMY AVENUE	1982 feet to the WNW
199	9604262	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE
200	9307674	215TH STREET	215TH STREET	2035 feet to the NNE
201	9200093	W 215TH ST & HARLEM RIVER	W 215TH ST / HARLEM RIVER	2035 feet to the NNE
202	0802073	NYC DOS	301 WEST 215TH ST.	2035 feet to the NNE
203	0504296	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE
204	1113089	PVT DWELLING/APT. COMPLEX	30 PARK TERRACE EAST	2063 feet to the N
205	9705745	BRONX WEST 08 DOS −DDC	423 WEST 215TH STREET	2071 feet to the NNE
206	0604157	AP MART	610 ACADEMY STREET	2123 feet to the W
207	9908752	MANHOLE 23478	NORTH OF 1981 SEDGWICK AV	2132 feet to the S
208	9906645	MANHOLE 23135	WEBB AVE & FATHER ZEISER PLACE	2138 feet to the E
209	0201424	SPILL NUMBER 0201424	5049 BROADWAY	2148 feet to the N
210	1204322	53101 MANHOLE	NORTH WEST WEST 216 ST 9TH AVE.	2151 feet to the NNE
211	0812798	MANHOLE #53101	216 & 9TH AVE	2151 feet to the NNE
212	0013188	BRONX COMMUNITY COLLEGE	135 HALL OF FAME TERRACE	2159 feet to the SE
213	0703078	THREE GAL XFMR LEAK IN VS #93990	VERMELIAR AVE & ACADEMY STREET	2161 feet to the WNW
214	0100003	MANHOLE 47441	ACADEMY ST/VERMILYEA AV	2161 feet to the WNW
215	0002488	MANHOLE # 47441	ACADEMY ST/VERMILYEA AV	2161 feet to the WNW
216	0809562	4856−66 BROADWAY	4856−66 BROADWAY	2175 feet to the WNW
217	0712178	APT BLDG	618 ACADEMY STREET	2175 feet to the W
218	9512806	9−15 POST AVE	9−15 POST AVE	2180 feet to the W
219	0002923	SERVICE BOX #24308	IFO 631 ACADEMY ST	2202 feet to the WNW
220	1202211	PRIVATE RESD	1985 SEDGWICK AVE	2240 feet to the S
221	0803894	APT. BUILDING	1985 SEDGWICK AVE	2240 feet to the S
222	0306293	SPILL NUMBER 0306293	647 WEST 207TH ST	2245 feet to the NW
223	0604173	COMMERCIAL PROPERTY	4055 10TH AVE	2268 feet to the NNE
224	0809202	I/F/O 2241 ANDREWS AVE	I/F/O 2241 ANDREWS AVE	2270 feet to the SE
225	9911093	MANHOLE #23638	WEST 183RD ST/ANDREWS AVE	2281 feet to the ESE
226	8808009	4863 BROADWAY/NY CLEANERS	4863 BROADWAY	2312 feet to the WNW
227	0400394	KINGSBRIDGE BUS DEPOT	4056 10TH AVE	2317 feet to the N
228	0203135	MANHOLE #25852	WEBB AVE & DEVOE TERRACE	2353 feet to the E
229	0708134	APT. BUILDING	50 PARK TERRACE WEST	2372 feet to the NNW
230	1211103	VACANT COMMERCIAL LOT	4857 BROADWAY	2375 feet to the WNW
231	0913965	215259; CEDAR AVENUE AND W 180TH STREET	CEDAR AVENUE AND W 180TH STREET	2396 feet to the S
232	0814496	213822; CEDAR AVE AND W 180 ST	CEDAR AVE AND W 180 ST	2396 feet to the S
233	9007496	KINGSBRIDGE DEPOT	4065 TENTH AVENUE	2416 feet to the NNE
234	0907811	KINGSBRIDGE BUS DEPOT	4065 10TH AVE	2416 feet to the NNE

235	0210401	KINGSBRIDGE DEPOT	4069−75 10TH AVE	2416 feet to the NNE
236	9810405	MAN HOLE 61887	HARLEM RIVER DR/DYKEMAN S	2437 feet to the SW
237	0004077	MANHOLE 28185	BROADWAY & ACADEMY ST	2438 feet to the WNW
238	1002813	APT BUILDING	2291 UNIVERCITY AVE	2503 feet to the ESE
239	0602067	MANHOLE	2291 DR MARTIN LUTHER KING	2503 feet to the ESE
240	0812082	SIDEWALK	11 VERMILYEA AVE	2512 feet to the W
241	8701256	1972,74 CEDAR AVENUE. / B	1972,74 CEDAR AVENUE.	2521 feet to the S
242	0905761	SHERMAN AVE/DECKMAN AVE	SHERMAN AVE/DECKMAN AVE	2534 feet to the W
243	0204091	MANHOLE 46120	SHERMAN AV/DYCKMAN ST	2534 feet to the W
244	8600099	218TH ST QUTFALL	218TH ST. & 9TH AVE.	2544 feet to the NNE
245	1307030	BACK YARD	1970 CEDAR AVE	2545 feet to the S
246	9416663	2548 BAILEY AVENUE	2548 BAILEY AVENUE	2567 feet to the NE
247	9713077	MAN HOLE	IFO 2291 UNIVERSITY AVE	2580 feet to the ESE
248	9713073	MANHOLE 11894	IFO 2291 UNIVERSITY AVE	2580 feet to the ESE
249	9906115	57 PARK TERR WEST	57 PARK TERR WEST	2596 feet to the N
250	0606857	APARTMENT BUILDING	95 PARK TERRACE EAST	2602 feet to the N
251	0402193	MANHOLE 28174	CUMMINS ST/ BROADWAY	2625 feet to the WNW
252	9808855	MANHOLE #415	BROADWAY & 218TH ST	2626 feet to the N
253	9005185	NYCSCA − PUBLIC SCHOOL #5	3703 10TH AVENUE	2627 feet to the SW

Closed Status Spills (Miscellaneous Spill Causes) −− Total Sites − 38 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
254	9903956	MANHOLE #40048	207TH ST/9TH AVE	67 feet to the W*
255	1309515	HESS CORP	401 WEST 207TH ST	218 feet to the WNW
256	0010612	HESS STATION	401 WEST 207TH ST	218 feet to the WNW
257	9904135	MANHOLE #43436	3871 10TH AVE	544 feet to the W
258	9911453	VAULT 1734	9TH AV & W 205TH ST	600 feet to the SW
259	0008710	TRAIN MAINTAINANCE FACILI	3900 10TH AVE (208TH ST)	621 feet to the NW
260	9415475	10TH AVE & 207TH STREET	10TH AVE / 207TH STREET	628 feet to the WNW
261	1203445	RAILWAY OVERPASS	WEST 207 ST & 10TH AVE	628 feet to the WNW
262	8906241	NYCTA TRAIN REPAIR MAINT	3961 TENTH AVE	630 feet to the N
263	1104750	207TH ST YARD	3961 10TH AVE	630 feet to the N
264	0911081	I/F/O 3915 10TH AVE	3915 10TH AVE	630 feet to the N
265	0805520	207TH ST YARD	3961 10TH AVE	630 feet to the N
266	0711741	207TH STREET YARD	3961 10TH AVE	630 feet to the N
267	0609445	DRIPS FROM RETIRED GAS MAIN	207 STREET & MTA RAILYARD	630 feet to the N
268	0202959	SPILL NUMBER 0202959	207TH ST YARD	630 feet to the N
269	0111506	SIGNAL SHOP/207TH ST YARD	396 WEST 215TH ST	630 feet to the N
270	9110175	3852−6 10TH AVE/RAMIERO	3852−3856 TENTH AVE	790 feet to the W
271	1306652	TANK FAILURE AND #2 SPILL IN BOILER ROOM	130 POST AVENUE	949 feet to the WNW
272	8703950	FORDHAM ROAD/MAJOR DEEGAN	FORDHAM ROAD/MAJOR DEEGAN	953 feet to the SE
273	9205906	2175 CEDAR AVE	2175 CEDAR AVE	1065 feet to the SE
274	1011811	CON ED TRANSFORMER SPILL	301 201ST STREET	1608 feet to the SSW
275	9811243	MANHOLE 60578 IN FRT OF	3758 TENTH AVE	1676 feet to the SW
276	9802465	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	1707 feet to the SW
277	9009853	85−87 VERMILYEA AVE	85−87 VERMILYEA AVE	1766 feet to the WNW
278	9013033	DYCKMAN HOUSES	3790 10TH AVENUE	1873 feet to the WSW
279	0706027	FEEDER M51 − MANHOLE 29001	SEDGWICK & BAILEY AVENUES	1964 feet to the ENE
280	8701103	HARLEM RIVER DRIVE / W.215TH	HARLEM RIVER DR./W.215TH ST	1971 feet to the N
281	0709008	BRONX COMMUNITY COLLEGE	UNIVERSITY AVE & WST 181	2002 feet to the SSE
282	1007143	NYCDOS 12TH GARAGE FLOOR	301 WEST 215TH STREET	2035 feet to the NNE
283	0212509	FORDHAM HILL APARTMENTS	2421 WEBB AVENUE	2090 feet to the E
284	9612843	IN STREET	182 NAGLE AVE	2146 feet to the WSW

285	8601172	#4 IN EAST RIVER	216TH ST.&HARLEM R. DRIVE	2238 feet to the N
286	0412559	33 VERMILYEA AVENUE	33 VERMILYEA AVENUE	2261 feet to the W
287	0911984	APT BLDG	65−67 PARK TERRACE EAST	2375 feet to the N
288	1104125	29003 MANHOLE	CEDAR AVE/ 180TH ST	2396 feet to the S
289	1216627	PRIVATE BUS DEPOT	4065 10TH AVE	2416 feet to the NNE
290	1005813	MAINTENANCE SHOP	4065 10TH AVE	2416 feet to the NNE
291	1207371	ROADWAY	DEEGAN EXPRESSWAY AT WEST 179 ST EXIT	2427 feet to the S

Petroleum Bulk Storage Sites −− Total Sites − 11 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
292	2−297453	HESS 32517	401 WEST 207TH STREET @ 9TH AVE.	204 feet to the WNW
293	NY06631	MERIT OIL OF NY INC	3876 9 AVE	204 feet to the WNW
294	2−242179	HARLEM RIVER BRIDGES	300 WEST 206TH STREET	433 feet to the SSW
295	NY07432	NYC DEPT. TRANSPORTATION	300 W 206 ST	433 feet to the SSW
296	2−197432	MANHATTAN BIBLE CHURCH INC	401 W 205TH ST	516 feet to the SW
297	2−147362	420 WEST 206TH ST OWNERS CORP	420 WEST 206TH STREET	548 feet to the WSW
298	2−266353	MIRIAM YEDID REALTY LLC	403 WEST 205TH ST	550 feet to the WSW
299	2−129925	407 WEST 205TH STREET	407 WEST 205TH STREET	570 feet to the WSW
300	2−241164	425 WEST 205TH ST CORP	425 WEST 205TH ST	627 feet to the WSW
301	2−189960	NYCTA 207TH STREET OVERHAUL SHOP	3961 TENTH AVENUE	633 feet to the N
302	2−609046	9TH AVENUE SHOP	3884 NINTH AVENUE	633 feet to the N

Hazardous Waste Generators, Transporters −− Total Sites − 24 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
303	NYP000922252	NYNEX	207TH ST/9TH AVE	67 feet to the W*
304	NYP004148946	CONSOLIDATED EDISON	W 207 ST & 9 AVE	67 feet to the W*
305	NYP004181194	CONED	9TH AVE	67 feet to the W*
306	NYD986943256	NYSDOT G CAMPBELL PAINTING D500777	207 ST OVER HARLEM RIVER	108 feet to the SSE*
307	NYD982185662	AMERADA HESS CORPORATION	401 WEST 207 STREET	195 feet to the WNW*
308	NYP004221727	CONSOLIDATED EDISON − MH 40047	N/E/C WEST 206 ST & 9TH AVE	339 feet to the SW
309	NYR000052464	NYCDOT BIN 2240120	W 207TH ST BRG OVER HARLEM RIV	469 feet to the SE
310	NY0000709394	NYSDOT HARLEM RIVER GARAGE	300 W 206TH ST	499 feet to the SSW
311	NY0000366542	NYCTA 215 ST SIGNALS	396 WEST 215TH STREET	558 feet to the N
312	NYD000366542	NYCTA	396 W 215TH ST	558 feet to the N
313	NYD980646335	MTA NYCT	3961 10TH AVENUE	558 feet to the N
314	NYD982269573	NYCTA	3884 9TH AVE	558 feet to the N
315	NYP004091252	CONSOLIDATED EDISON	MH43451−F/O 3961 10TH AVE	558 feet to the N
316	NYP004410148	CON EDISON	3955 10TH AVE	558 feet to the N
317	NYP004410163	CON EDISON	3955 10TH AVE	558 feet to the N
318	NYT370011363	NEW YORK CITY TRANSIT AUTH	3961 10TH AVE NYD980646335	558 feet to the N
319	NYP004157202	CONSOLIDATED EDISON OF NY	W. 205 ST & 9 AVE	600 feet to the SW
320	NYP004278982	CON EDISON	F/O 449 W 206 ST & 10TH AVE	616 feet to the W
321	NYP004088464	CONSOLIDATED EDISON	10TH AVE	621 feet to the NW
322	NYP004231726	CONSOLIDATED EDISON	POST AVE & 10TH AVE	621 feet to the NW
323	NYP004220158	CONSOLIDATED EDISON	207 ST & 10TH AVE	628 feet to the WNW
324	NYP004403762	CON EDISON	NORTHWEST CORNER OF 207TH ST & 10TH AVE	628 feet to the WNW
325	NYP004403952	CON EDISON	N/S 207TH ST 180 E/O 10TH AVE	628 feet to the WNW
326	NYR000177469	MTA NYCT − 207TH STREET STATION 1 LINE	10TH AVE & W 207TH ST	628 feet to the WNW

Air Discharge Sites −− Total Sites − 4 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
327	3606100593	MANHATTAN RECYCLING CENTER	332 W. 207 STREET	119 feet to the SSW*
328	3606100304	MERIT	401 W. 207TH ST @ 9T	188 feet to the WNW*

329	3606100416	NYC TRANSIT AUTHORITY − 207 ST SHOP	3961 10TH AVENUE	587 feet to the N
330	3606103009	207TH STREET SUBWAY YARD	207 STREET	587 feet to the N

Civil & Administrative Enforcement Docket Sites −− Total Sites − 1 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
331	NYD981138506	207TH STREET SUBWAY YARD	207 STREET	612 feet to the N

Identified Toxic Sites by Proximity

3875 Ninth Ave, New York, NY

* Compass directions can vary substantially for sites located very close to the subject property address.

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
81	ONE QT OIL LEAKED FROM PIPE IN	207 STREET & 9 AVENUE	67 feet to the W*	Closed Status Spill (Unk/Other Cause)
254	MANHOLE #40048	207TH ST/9TH AVE	67 feet to the W*	Closed Status Spill (Misc. Spill Cause)
303	NYNEX	207TH ST/9TH AVE	67 feet to the W*	Hazardous Waste Generator/Transporter
304	CONSOLIDATED EDISON	W 207 ST & 9 AVE	67 feet to the W*	Hazardous Waste Generator/Transporter
305	CONED	9TH AVE	67 feet to the W*	Hazardous Waste Generator/Transporter
306	NYSDOT G CAMPBELL PAINTING D500777	207 ST OVER HARLEM RIVER	108 feet to the SSE*	Hazardous Waste Generator/Transporter
327	MANHATTAN RECYCLING CENTER	332 W. 207 STREET	119 feet to the SSW*	Air Discharge Site
328	MERIT	401 W. 207TH ST @ 9T	188 feet to the WNW*	Air Discharge Site
307	AMERADA HESS CORPORATION	401 WEST 207 STREET	195 feet to the WNW*	Hazardous Waste Generator/Transporter
292	HESS 32517	401 WEST 207TH STREET @ 9TH AVE.	204 feet to the WNW	Petroleum Bulk Storage Site
293	MERIT OIL OF NY INC	3876 9 AVE	204 feet to the WNW	Petroleum Bulk Storage Site
14	HESS STATION 32517	401 WEST 207TH STREET	218 feet to the WNW	Active Haz Spill (Unknown/Other Cause)
42	HESS/MERIT SERVICE STATIO	401 WEST 207TH STREET	218 feet to the WNW	Closed Status Tank Test Failure
82	MERIT SERVICE STATION	401 WEST 207TH STREET	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
83	MERIT INWOOD GAS STATION	401 WEST 207TH STREET	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
84	STREET	401 WEST 207TH	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
85	HESS 32517	401 WEST 207TH ST	218 feet to the WNW	Closed Status Spill (Unk/Other Cause)
255	HESS CORP	401 WEST 207TH ST	218 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
256	HESS STATION	401 WEST 207TH ST	218 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
86	ON STREET	WEST 206TH ST./9TH AVE (	339 feet to the SW	Closed Status Spill (Unk/Other Cause)
308	CONSOLIDATED EDISON − MH 40047	N/E/C WEST 206 ST & 9TH AVE	339 feet to the SW	Hazardous Waste Generator/Transporter
294	HARLEM RIVER BRIDGES	300 WEST 206TH STREET	433 feet to the SSW	Petroleum Bulk Storage Site
295	NYC DEPT. TRANSPORTATION	300 W 206 ST	433 feet to the SSW	Petroleum Bulk Storage Site
43	HARLEM RIVER BRIDGE − DDC	300 WEST 206TH ST	448 feet to the SSW	Closed Status Tank Test Failure
87	HARLEM RIVER FACILITY	300 206TH STREET	448 feet to the SSW	Closed Status Spill (Unk/Other Cause)
88	SPILL NUMBER 0204986	3835 9TH AVE	458 feet to the SW	Closed Status Spill (Unk/Other Cause)
6	SANTILLI LAND DEVELOPMENT CORP.	WEST FORDHAM ROAD @ HARLEM RIVER	469 feet to the SE	Solid Waste Facility
309	NYCDOT BIN 2240120	W 207TH ST BRG OVER HARLEM RIV	469 feet to the SE	Hazardous Waste Generator/Transporter
310	NYSDOT HARLEM RIVER GARAGE	300 W 206TH ST	499 feet to the SSW	Hazardous Waste Generator/Transporter
296	MANHATTAN BIBLE CHURCH INC	401 W 205TH ST	516 feet to the SW	Petroleum Bulk Storage Site
257	MANHOLE #43436	3871 10TH AVE	544 feet to the W	Closed Status Spill (Misc. Spill Cause)
297	420 WEST 206TH ST OWNERS CORP	420 WEST 206TH STREET	548 feet to the WSW	Petroleum Bulk Storage Site
298	MIRIAM YEDID REALTY LLC	403 WEST 205TH ST	550 feet to the WSW	Petroleum Bulk Storage Site
311	NYCTA 215 ST SIGNALS	396 WEST 215TH STREET	558 feet to the N	Hazardous Waste Generator/Transporter
312	NYCTA	396 W 215TH ST	558 feet to the N	Hazardous Waste Generator/Transporter
313	MTA NYCT	3961 10TH AVENUE	558 feet to the N	Hazardous Waste Generator/Transporter
314	NYCTA	3884 9TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
315	CONSOLIDATED EDISON	MH43451−F/O 3961 10TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
316	CON EDISON	3955 10TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
317	CON EDISON	3955 10TH AVE	558 feet to the N	Hazardous Waste Generator/Transporter
318	NEW YORK CITY TRANSIT AUTH	3961 10TH AVE NYD980646335	558 feet to the N	Hazardous Waste Generator/Transporter
89	420 W 206TH ST OWNERS	420 W 206TH ST	564 feet to the WSW	Closed Status Spill (Unk/Other Cause)
299	407 WEST 205TH STREET	407 WEST 205TH STREET	570 feet to the WSW	Petroleum Bulk Storage Site
329	NYC TRANSIT AUTHORITY − 207 ST SHOP	3961 10TH AVENUE	587 feet to the N	Air Discharge Site
330	207TH STREET SUBWAY YARD	207 STREET	587 feet to the N	Air Discharge Site

90	VAULT V1734	205TH ST / 9TH AV	600 feet to the SW	Closed Status Spill (Unk/Other Cause)
91	ONE QT OIL IN MH 40038 (TIDAL)	WEST 205 STREET & 9 AVENUE	600 feet to the SW	Closed Status Spill (Unk/Other Cause)
258	VAULT 1734	9TH AV & W 205TH ST	600 feet to the SW	Closed Status Spill (Misc. Spill Cause)
319	CONSOLIDATED EDISON OF NY	W. 205 ST & 9 AVE	600 feet to the SW	Hazardous Waste Generator/Transporter
331	207TH STREET SUBWAY YARD	207 STREET	612 feet to the N	Civil & Admin. Enforcement Docket Site
320	CON EDISON	F/O 449 W 206 ST & 10TH AVE	616 feet to the W	Hazardous Waste Generator/Transporter
92	MAN HOLE # 406	10TH AVE / POST AVE	621 feet to the NW	Closed Status Spill (Unk/Other Cause)
259	TRAIN MAINTAINANCE FACILI	3900 10TH AVE (208TH ST)	621 feet to the NW	Closed Status Spill (Misc. Spill Cause)
321	CONSOLIDATED EDISON	10TH AVE	621 feet to the NW	Hazardous Waste Generator/Transporter
322	CONSOLIDATED EDISON	POST AVE & 10TH AVE	621 feet to the NW	Hazardous Waste Generator/Transporter
300	425 WEST 205TH ST CORP	425 WEST 205TH ST	627 feet to the WSW	Petroleum Bulk Storage Site
15	CON EDISON	10TH AVE AND WEST 207TH ST	628 feet to the WNW	Active Haz Spill (Unknown/Other Cause)
260	10TH AVE & 207TH STREET	10TH AVE / 207TH STREET	628 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
261	RAILWAY OVERPASS	WEST 207 ST & 10TH AVE	628 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
323	CONSOLIDATED EDISON	207 ST & 10TH AVE	628 feet to the WNW	Hazardous Waste Generator/Transporter
324	CON EDISON	NORTHWEST CORNER OF 207TH ST & 10TH AVE	628 feet to the WNW	Hazardous Waste Generator/Transporter
325	CON EDISON	N/S 207TH ST 180 E/O 10TH AVE	628 feet to the WNW	Hazardous Waste Generator/Transporter
326	MTA NYCT − 207TH STREET STATION 1 LINE	10TH AVE & W 207TH ST	628 feet to the WNW	Hazardous Waste Generator/Transporter
8	207 TH STREET YARD−NYCT	3961 TENTH AVE	630 feet to the N	Active Tank Test Failure
44	3961 TENTH AVE/SHELL SERV	3961 TENTH AVE	630 feet to the N	Closed Status Tank Test Failure
45	NYC TRANSIT AUTHORITY	207TH ST YARD	630 feet to the N	Closed Status Tank Test Failure
93	CONCRETE PAD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Unk/Other Cause)
94	207TH STREET YARD	3961 TENTH AVE	630 feet to the N	Closed Status Spill (Unk/Other Cause)
95	207TH STREET YARD	207TH ST	630 feet to the N	Closed Status Spill (Unk/Other Cause)
96	207TH ST OVERHAUL SHOP	3961 TENTH AVE	630 feet to the N	Closed Status Spill (Unk/Other Cause)
262	NYCTA TRAIN REPAIR MAINT	3961 TENTH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
263	207TH ST YARD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
264	I/F/O 3915 10TH AVE	3915 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
265	207TH ST YARD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
266	207TH STREET YARD	3961 10TH AVE	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
267	DRIPS FROM RETIRED GAS MAIN	207 STREET & MTA RAILYARD	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
268	SPILL NUMBER 0202959	207TH ST YARD	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
269	SIGNAL SHOP/207TH ST YARD	396 WEST 215TH ST	630 feet to the N	Closed Status Spill (Misc. Spill Cause)
301	NYCTA 207TH STREET OVERHAUL SHOP	3961 TENTH AVENUE	633 feet to the N	Petroleum Bulk Storage Site
302	9TH AVENUE SHOP	3884 NINTH AVENUE	633 feet to the N	Petroleum Bulk Storage Site
97	AUTO REPAIR SHOP	10TH AVE & ISHAM ST	662 feet to the NW	Closed Status Spill (Unk/Other Cause)
270	3852−6 10TH AVE/RAMIERO	3852−3856 TENTH AVE	790 feet to the W	Closed Status Spill (Misc. Spill Cause)
46	COMMERCIAL BLDG	513 W. 207TH ST.	791 feet to the WNW	Closed Status Tank Test Failure
47	BUSINESS	513 WEST 207TH STREET	791 feet to the WNW	Closed Status Tank Test Failure
16	BP AMOCO STATION #5053	3936 10TH AVE	850 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
48	TTF	266−272 NAGLE AVE	936 feet to the W	Closed Status Tank Test Failure
271	TANK FAILURE AND #2 SPILL IN BOILER ROOM	130 POST AVENUE	949 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
98	SHERMAN AV AND	ISHAM ST	951 feet to the NW	Closed Status Spill (Unk/Other Cause)
99	MAJOR DEEGAN & W FORDHAM	MAJOR DEEGAN & W FORDHAM	953 feet to the SE	Closed Status Spill (Unk/Other Cause)
100	MAJOR DEEGAN & FORDHAM RD	MAJOR DEEGAN & FORDHAM RD	953 feet to the SE	Closed Status Spill (Unk/Other Cause)
101	1GAL FROM DEAD A TRANS FEEDER	120 EXTERIOR ROAD & FORDAM ROAD	953 feet to the SE	Closed Status Spill (Unk/Other Cause)
272	FORDHAM ROAD/MAJOR DEEGAN	FORDHAM ROAD/MAJOR DEEGAN	953 feet to the SE	Closed Status Spill (Misc. Spill Cause)
102	WEST 211TH ST & 10TH AVE.	WEST 211TH ST / 10TH AVE	1026 feet to the NNW	Closed Status Spill (Unk/Other Cause)
103	MANHOLE # 43454	10TH AVE/WEST 211TH ST	1026 feet to the NNW	Closed Status Spill (Unk/Other Cause)
104	MANHOLE #43454	W 211 ST & 10TH AV	1026 feet to the NNW	Closed Status Spill (Unk/Other Cause)
105	MANHOLE #00404	10TH AVE/WEST 204TH	1040 feet to the WSW	Closed Status Spill (Unk/Other Cause)
106	EXTERIOR ST − LANDING RD	EXTERIOR ST − LANDING RD	1045 feet to the ESE	Closed Status Spill (Unk/Other Cause)
107	205006; EXTERIOR ST 140‘ N/O LANDING ROAD RAMP	EXTERIOR ST 140‘ N/O LANDING ROAD RAMP	1045 feet to the ESE	Closed Status Spill (Unk/Other Cause)

273	2175 CEDAR AVE	2175 CEDAR AVE	1065 feet to the SE	Closed Status Spill (Misc. Spill Cause)
108	NAGLE AV	NAGLE AVE & 204TH ST	1068 feet to the WSW	Closed Status Spill (Unk/Other Cause)
109	204TH ST & NAGLE AVE	204TH ST & NAGLE AVE	1068 feet to the WSW	Closed Status Spill (Unk/Other Cause)
110	MANHOLE # 39481	W 204TH ST & NAGEL AVE	1068 feet to the WSW	Closed Status Spill (Unk/Other Cause)
28	MOBIL	296 WEST FORDHAM ROAD	1096 feet to the SE	Closed Status Tank Failure
29	GASETERIA	296 WEST FORDHAM ROAD	1096 feet to the SE	Closed Status Tank Failure
49	MOBIL S/S	296 WEST FORDHAM ROAD.	1096 feet to the SE	Closed Status Tank Test Failure
50	MOBIL	296 W. FORDHAM RD	1096 feet to the SE	Closed Status Tank Test Failure
111	LAB RESULTS RADIO FUEL SCREENING	425 WEST 203RD ST	1099 feet to the SW	Closed Status Spill (Unk/Other Cause)
112	SERVICE BOX #S24164	431 W 203RD ST	1099 feet to the SW	Closed Status Spill (Unk/Other Cause)
113	216143; CEDAR AVENUE AND W 182 STREET	CEDAR AVENUE AND W 182 STREET	1166 feet to the SE	Closed Status Spill (Unk/Other Cause)
114	MAN HOLE # 445	CEDAR AVE/182ND STREET	1166 feet to the SE	Closed Status Spill (Unk/Other Cause)
115	OIL COMING INTO MH 23033 FROM DUCTS.	CEDAR AVENUE & FORDAHM ROAD	1203 feet to the ESE	Closed Status Spill (Unk/Other Cause)
4	CE − KINGSBRIDGE STATION	BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45	1228 feet to the ESE	Brownfields Site
51	518 WEST 204TH ST	518 WEST 204TH	1238 feet to the W	Closed Status Tank Test Failure
116	MANHOLE 24185	518 − 522 W 204TH ST	1238 feet to the W	Closed Status Spill (Unk/Other Cause)
117	APT BLDG	2254 CEDAR AVE	1269 feet to the SE	Closed Status Spill (Unk/Other Cause)
52	DERMOT COMPANY	87 POST AVE	1279 feet to the W	Closed Status Tank Test Failure
118	DERMOT COMPANY APT. BUILDING	87 POST AVE	1279 feet to the W	Closed Status Spill (Unk/Other Cause)
17	DYCKMAN AUTO SERVICES	431 W. 202ND ST	1308 feet to the SW	Active Haz Spill (Unknown/Other Cause)
119	RESIDENCE	145 VERMILYEA AVE	1359 feet to the NW	Closed Status Spill (Unk/Other Cause)
18	MANHOLE 56063	W 202 ST & 9 AVE	1378 feet to the SW	Active Haz Spill (Unknown/Other Cause)
120	MANHOLE 451M	W 202NC ST AT 9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
121	MANHOLE #451	202TH ST & 9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
122	221399; W 202 ST	W 202 ST	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
123	HALF GAL IN TIDAL MANHOLE 56062	WEST 202 STREET & 9 AVENUE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
124	MANHOLE # 400	9TH AVE/WEST 202 ST	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
125	MANHOLE #451	W 202ND ST & 9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
126	MANHOLE #451	202ND ST/9TH AVE	1378 feet to the SW	Closed Status Spill (Unk/Other Cause)
127	MANHOLE #56424	MARGINAL ST & W. 202 ST	1388 feet to the SSW	Closed Status Spill (Unk/Other Cause)
128	OIL FOUND IN TIDAL MANHOLE: M56062	WEST 202 STREET & HARLEM RIVER	1388 feet to the SSW	Closed Status Spill (Unk/Other Cause)
53	204 SHERMAN AVE	204 SHERMAN AVE	1413 feet to the WNW	Closed Status Tank Test Failure
129	I/F/O 560 ISHAM ST	560 ISHAM ST	1454 feet to the NW	Closed Status Spill (Unk/Other Cause)
130	MANHOLE	W 207TH ST & VERMILYEA AVE	1459 feet to the NW	Closed Status Spill (Unk/Other Cause)
131	ST. MATTHEWS EVANGELICAL	200−202 SHERMAN AVE	1465 feet to the WNW	Closed Status Spill (Unk/Other Cause)
132	MANHOLE #5160	WEST 204TH ST. AND SHERMA	1471 feet to the WNW	Closed Status Spill (Unk/Other Cause)
19	SHERMAN CREEK SUBSTATION TR #3	425 WEST 201 STREET	1524 feet to the SW	Active Haz Spill (Unknown/Other Cause)
20	SHERMAN CREEK SUBSTATION	425 WEST 201 STREET	1524 feet to the SW	Active Haz Spill (Unknown/Other Cause)
21	SHERMAN CREEK SUBST − TR#6	425 201ST ST	1524 feet to the SW	Active Haz Spill (Unknown/Other Cause)
133	SHERMAN CREEK S/S. SPARE XFMR, 1 QT	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
134	SHERMAN CREEK S/S. 200 GAL IN MH	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
135	SHERMAN CREEK S/S. 1 PT IN MH 24339 & 40	425 WEST 201 STREET. SUBSTATION	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
136	MANHOLE # 400	425 WEST 201 STREET	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
137	SHERMAN CREEK SUBSTATION	425 201ST STREET	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
138	SHERMAN CREEK SUB−STATION	425 WEST 201ST STREET	1524 feet to the SW	Closed Status Spill (Unk/Other Cause)
139	ROADWAY	9TH AVE BET 201 & 202 ST	1527 feet to the SW	Closed Status Spill (Unk/Other Cause)
22	EXCAVATION	61 POST AVE	1540 feet to the W	Active Haz Spill (Unknown/Other Cause)
23	EXCAVATION	61 POST AVE	1540 feet to the W	Active Haz Spill (Unknown/Other Cause)
140	SERVICE BOX 42918	63 POST AVE	1540 feet to the W	Closed Status Spill (Unk/Other Cause)
141	214712; SEDGWICK AVE AND W 182ST	SEDGWICK AVE AND W 182ST	1556 feet to the SE	Closed Status Spill (Unk/Other Cause)
142	SERVICE BOX # 47454	111−113 VERMILYEA AVENUE	1560 feet to the WNW	Closed Status Spill (Unk/Other Cause)
30	GASETERIA	205 WEST FORDHAM ROAD	1563 feet to the ESE	Closed Status Tank Failure
143	SERVICE BOX #46188	165 SHERMAN AVE	1571 feet to the W	Closed Status Spill (Unk/Other Cause)

144	FORDHAM AND	LANDING AVE	1582 feet to the ESE	Closed Status Spill (Unk/Other Cause)
54	3761 TENTH AVE	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Tank Test Failure
145	10 AUTO CENTER	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
146	201 ST & 10TH AVE/SHELL	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
147	SHELL SERVICE STATION	3761 TENTH AVENUE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
148	SHELL SERVICE # 138678	3761 TENTH AVE	1595 feet to the SW	Closed Status Spill (Unk/Other Cause)
274	CON ED TRANSFORMER SPILL	301 201ST STREET	1608 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
55	4960 BROADWAY	4960 BROADWAY	1623 feet to the NW	Closed Status Tank Test Failure
149	MANHOLE 39475	NAGLE AVE/ACADEMY ST	1638 feet to the WSW	Closed Status Spill (Unk/Other Cause)
150	MAN HOLE # 60580	ACADEMY ST / NAGLE AV	1638 feet to the WSW	Closed Status Spill (Unk/Other Cause)
151	MANHOLE 56066	WEST 201 ST & 9TH AV	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
152	MANHOLE #24157	SO SIDE W201ST ST/9TH AVE	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
153	INSIDE MANHOLE 24151	WEST 201 ST − 9TH AVE	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
154	MANHOLE 24157	WEST 201ST ST	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
155	MANHOLE # 56064	WEST 201 ST AND 9TH AVE	1640 feet to the SW	Closed Status Spill (Unk/Other Cause)
27	FEEDER 99031	SHERMAN CR−DUNWOODIE S/S	1646 feet to the SW	Active Haz Spill (Misc. Spill Cause)
31	KINGSBRIDGE BUS DEPOT	212TH ST AT BROADWAY	1646 feet to the NNW	Closed Status Tank Failure
156	SHERMAN CREEK SUBSTATION	W 201ST STREET	1646 feet to the SW	Closed Status Spill (Unk/Other Cause)
275	MANHOLE 60578 IN FRT OF	3758 TENTH AVE	1676 feet to the SW	Closed Status Spill (Misc. Spill Cause)
157	XFMR IN VAULT 5675 LEAKED FIVE GAL	5030 BROADWAY/ WEST 213 STREET	1703 feet to the N	Closed Status Spill (Unk/Other Cause)
158	MANHOLE 57914	5030 BROADWAY	1703 feet to the N	Closed Status Spill (Unk/Other Cause)
24	ACADEMY SUBSTATION	416 WEST 201 ST	1707 feet to the SW	Active Haz Spill (Unknown/Other Cause)
159	221558; 416 WEST 201ST STREET	416 WEST 201ST STREET	1707 feet to the SW	Closed Status Spill (Unk/Other Cause)
160	SHERMAN CREEK CONSTRUCTION SITE	416 WEST 201 STREET	1707 feet to the SW	Closed Status Spill (Unk/Other Cause)
161	SHERMAN CREEK SUBSTATION MH	416 WEST 201ST STREET	1707 feet to the SW	Closed Status Spill (Unk/Other Cause)
276	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	1707 feet to the SW	Closed Status Spill (Misc. Spill Cause)
162	SHERMAN CREEK POWER PLANT	ACADEMY ST & 201ST ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
163	MAHOLE #24336	W. 201ST ST AND ACADEMY	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
164	MAN HOLE # 24329	W 201ST ST/ACADEMY AVE	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
165	MANHOLE #24334	ACADEMY ST / WEST 201ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
166	MANHOLE #24333	ACADEMY ST/W 201ST ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
167	ACADEMY SUB STATION	201ST & ACADEMY ST	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
168	TIDAL MANHOLE 24331 HAS ONE PINT	ACADEMY STREET & WEST 201 STREET	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
169	TIDAL MANHOLES # 24336 & 24341	ACADEMY & WEST 201 STREETS	1709 feet to the SW	Closed Status Spill (Unk/Other Cause)
170	MANHOLE 24335	ACADAMY ST/10TH AVE	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
171	219633; 10 AVENUE AND ACADEMY STREET	10 AVENUE AND ACADEMY STREET	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
172	MANHOLE #60078	WEST 201ST ST/10TH AVE	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
173	MH 43417	WEST 201 ST/ 10TH AV	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
174	SHERMAN CREEK MARINA	201ST ST/10TH AVE	1715 feet to the SW	Closed Status Spill (Unk/Other Cause)
175	I/F/O 300 WEST 201ST ST	300 WEST 201ST ST	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
176	ACADEMY STREET SUBSTATION	1 ACADEMY ST	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
177	CONED −ACADEMY ST SUBSTATION	300 WEST 201ST STREET	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
178	ACADEMY S/S SITE. OIL IN EXCAVATION	300 WEST 201 STREET	1735 feet to the SW	Closed Status Spill (Unk/Other Cause)
25	VAULT 1863	SEDGWICK AVE NORTH OF WEBB	1738 feet to the E	Active Haz Spill (Unknown/Other Cause)
179	MANHOLE 29002	W FORDAM RD/ FREDWICK AVE	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
180	MANHOLE 29002	WEST FORDHAM RD NEAR SEDGEWICK AVE	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
181	MH 26481	BAILEY AVE AND FORDHAM RD	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
182	MANHOLE # 29002	W FORDHAM RD/SEDGWICK AV	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
183	APARTMENT BUILDING 8	FORDHAM/SEDGWICK	1765 feet to the E	Closed Status Spill (Unk/Other Cause)
32	85−87 VERMILYEA AVE	85−87 VERMILYEA AVE	1766 feet to the WNW	Closed Status Tank Failure
277	85−87 VERMILYEA AVE	85−87 VERMILYEA AVE	1766 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
184	MANHOLE 12719	IFO 2400 SEDGEWICK AVE	1800 feet to the E	Closed Status Spill (Unk/Other Cause)
33	BROADWAY & 207TH ST	207TH ST & BROADWAY	1809 feet to the NW	Closed Status Tank Failure

185	SB 24271 HAS FIFTY GALLONS	IN FRONT OF 230 WEST 215 STREET	1840 feet to the NE	Closed Status Spill (Unk/Other Cause)
186	214249; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
187	214248; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
188	214246; W 215 ST AND 9TH AVE	W 215 ST AND 9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
189	STREET	W 215TH ST/9TH AVE	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
26	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Active Haz Spill (Unknown/Other Cause)
56	DYCKMAN HOUSES −NYCHA	215 NAGLE AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
57	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
58	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
59	DYCKMAN HOUSES −NYCHA	3796 10TH AVENUE	1873 feet to the WSW	Closed Status Tank Test Failure
278	DYCKMAN HOUSES	3790 10TH AVENUE	1873 feet to the WSW	Closed Status Spill (Misc. Spill Cause)
60	608 ISHAM STREET	608 ISHAM STREET	1906 feet to the NW	Closed Status Tank Test Failure
61	608 ISHAM STREET	608 ISHAM STREET	1906 feet to the NW	Closed Status Tank Test Failure
34	2445 SEDGWICK AVE	2445 SEDGWICK AVE	1924 feet to the ENE	Closed Status Tank Failure
5	CE − KINGSBRIDGE STATION	BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45	1933 feet to the ENE	Brownfields Site
190	IN SWAMPY AREA/BOAT BASIN	3725 10TH AV	1937 feet to the SW	Closed Status Spill (Unk/Other Cause)
191	MANHOLE 56411	ACADEMY ST/MARGINAL ST	1942 feet to the SSW	Closed Status Spill (Unk/Other Cause)
192	MANHOLE # 56414 EMIS 218119	ACADEMY ST & EXTERIOR ST	1942 feet to the SSW	Closed Status Spill (Unk/Other Cause)
193	MANHOLES 24340 & 24339 (TIDAL)	ACADEMY ST & MARGINAL STREET	1942 feet to the SSW	Closed Status Spill (Unk/Other Cause)
62	4880 BROADWAY/MANH/GETTY	4880 BROADWAY	1962 feet to the WNW	Closed Status Tank Test Failure
63	GETTY − MAN	4880 BROADWAY	1962 feet to the WNW	Closed Status Tank Test Failure
194	GETTY #339 − GETTY PROPERTIES	4880 BROADWAY	1962 feet to the WNW	Closed Status Spill (Unk/Other Cause)
195	MANHOLE #31136	SEDGWYCK AVE/BAILEY AVE	1964 feet to the ENE	Closed Status Spill (Unk/Other Cause)
196	M51 FEEDER LEAK INTO MH 29001	SEDGWICK AVE & BAILEY AVENUE &	1964 feet to the ENE	Closed Status Spill (Unk/Other Cause)
279	FEEDER M51 − MANHOLE 29001	SEDGWICK & BAILEY AVENUES	1964 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
197	215TH ST/HARLEM RIVER DR	215TH ST/HARLEM RIVER DR	1971 feet to the N	Closed Status Spill (Unk/Other Cause)
280	HARLEM RIVER DRIVE / W.215TH	HARLEM RIVER DR./W.215TH ST	1971 feet to the N	Closed Status Spill (Misc. Spill Cause)
9	PVT DWELLING TTF	101 COOPER ST	1979 feet to the NW	Active Tank Test Failure
64	THE DERMOT COMPANY	623−631 WEST 207TH ST	1982 feet to the NW	Closed Status Tank Test Failure
198	SVC BOX 24309	619 ACADEMY AVENUE	1982 feet to the WNW	Closed Status Spill (Unk/Other Cause)
35	CUNY− BRONX COLLEGE	WEST 181 STREET/UNIVERSIT	2002 feet to the SSE	Closed Status Tank Failure
65	BRONX COMMUNITY COLLEGE	WEST 181ST & UNIVERSITY AVE	2002 feet to the SSE	Closed Status Tank Test Failure
281	BRONX COMMUNITY COLLEGE	UNIVERSITY AVE & WST 181	2002 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
10	M12 SANITATION GARAGE	301 WEST 215 ST	2035 feet to the NNE	Active Tank Test Failure
66	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Tank Test Failure
67	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Tank Test Failure
68	NYC DEPT OF SANITATION	301 WEST 215TH ST	2035 feet to the NNE	Closed Status Tank Test Failure
69	SANITATION GARGE	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Tank Test Failure
70	NYC DEPT OF SANTIATION	301 WEST 214TH ST	2035 feet to the NNE	Closed Status Tank Test Failure
199	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
200	215TH STREET	215TH STREET	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
201	W 215TH ST & HARLEM RIVER	W 215TH ST / HARLEM RIVER	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
202	NYC DOS	301 WEST 215TH ST.	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
203	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Spill (Unk/Other Cause)
282	NYCDOS 12TH GARAGE FLOOR	301 WEST 215TH STREET	2035 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
204	PVT DWELLING/APT. COMPLEX	30 PARK TERRACE EAST	2063 feet to the N	Closed Status Spill (Unk/Other Cause)
11	MANHATTAN DISTR. 8 (OLD BX W. 7) DOS −DDC	4036 9TH AVE	2071 feet to the NNE	Active Tank Test Failure
12	NYC DEPT OF SANITATION	423 WEST 215TH ST	2071 feet to the NNE	Active Tank Test Failure
71	BRONX WEST 08 DOS −DDC	423 WEST 215TH STREET	2071 feet to the NNE	Closed Status Tank Test Failure
205	BRONX WEST 08 DOS −DDC	423 WEST 215TH STREET	2071 feet to the NNE	Closed Status Spill (Unk/Other Cause)
36	FORHDHAM HILL	1 FORDHAM HILL OVAL	2090 feet to the E	Closed Status Tank Failure
283	FORDHAM HILL APARTMENTS	2421 WEBB AVENUE	2090 feet to the E	Closed Status Spill (Misc. Spill Cause)
206	AP MART	610 ACADEMY STREET	2123 feet to the W	Closed Status Spill (Unk/Other Cause)

207	MANHOLE 23478	NORTH OF 1981 SEDGWICK AV	2132 feet to the S	Closed Status Spill (Unk/Other Cause)
208	MANHOLE 23135	WEBB AVE & FATHER ZEISER PLACE	2138 feet to the E	Closed Status Spill (Unk/Other Cause)
284	IN STREET	182 NAGLE AVE	2146 feet to the WSW	Closed Status Spill (Misc. Spill Cause)
209	SPILL NUMBER 0201424	5049 BROADWAY	2148 feet to the N	Closed Status Spill (Unk/Other Cause)
210	53101 MANHOLE	NORTH WEST WEST 216 ST 9TH AVE.	2151 feet to the NNE	Closed Status Spill (Unk/Other Cause)
211	MANHOLE #53101	216 & 9TH AVE	2151 feet to the NNE	Closed Status Spill (Unk/Other Cause)
37	PUBLIC SCHOOL 15	2195 ANDREWS AVE	2159 feet to the SE	Closed Status Tank Failure
212	BRONX COMMUNITY COLLEGE	135 HALL OF FAME TERRACE	2159 feet to the SE	Closed Status Spill (Unk/Other Cause)
213	THREE GAL XFMR LEAK IN VS #93990	VERMELIAR AVE & ACADEMY STREET	2161 feet to the WNW	Closed Status Spill (Unk/Other Cause)
214	MANHOLE 47441	ACADEMY ST/VERMILYEA AV	2161 feet to the WNW	Closed Status Spill (Unk/Other Cause)
215	MANHOLE # 47441	ACADEMY ST/VERMILYEA AV	2161 feet to the WNW	Closed Status Spill (Unk/Other Cause)
216	4856−66 BROADWAY	4856−66 BROADWAY	2175 feet to the WNW	Closed Status Spill (Unk/Other Cause)
217	APT BLDG	618 ACADEMY STREET	2175 feet to the W	Closed Status Spill (Unk/Other Cause)
218	9−15 POST AVE	9−15 POST AVE	2180 feet to the W	Closed Status Spill (Unk/Other Cause)
38	ECR REALTY	2326 LORING PLACE	2189 feet to the ESE	Closed Status Tank Failure
72	APARTMENT BUILDING	2277 ANDREWS AVENUE	2193 feet to the ESE	Closed Status Tank Test Failure
219	SERVICE BOX #24308	IFO 631 ACADEMY ST	2202 feet to the WNW	Closed Status Spill (Unk/Other Cause)
285	#4 IN EAST RIVER	216TH ST.&HARLEM R. DRIVE	2238 feet to the N	Closed Status Spill (Misc. Spill Cause)
73	NORTH EASTERN ACADEMY − TTF	532 WEST 215TH ST	2239 feet to the N	Closed Status Tank Test Failure
74	4848 BROADWAY	4848 BROADWAY	2239 feet to the WNW	Closed Status Tank Test Failure
220	PRIVATE RESD	1985 SEDGWICK AVE	2240 feet to the S	Closed Status Spill (Unk/Other Cause)
221	APT. BUILDING	1985 SEDGWICK AVE	2240 feet to the S	Closed Status Spill (Unk/Other Cause)
222	SPILL NUMBER 0306293	647 WEST 207TH ST	2245 feet to the NW	Closed Status Spill (Unk/Other Cause)
286	33 VERMILYEA AVENUE	33 VERMILYEA AVENUE	2261 feet to the W	Closed Status Spill (Misc. Spill Cause)
223	COMMERCIAL PROPERTY	4055 10TH AVE	2268 feet to the NNE	Closed Status Spill (Unk/Other Cause)
224	I/F/O 2241 ANDREWS AVE	I/F/O 2241 ANDREWS AVE	2270 feet to the SE	Closed Status Spill (Unk/Other Cause)
225	MANHOLE #23638	WEST 183RD ST/ANDREWS AVE	2281 feet to the ESE	Closed Status Spill (Unk/Other Cause)
39	RESIDENTIAL APT COMPLEX	4861 BROADWAY	2312 feet to the WNW	Closed Status Tank Failure
226	4863 BROADWAY/NY CLEANERS	4863 BROADWAY	2312 feet to the WNW	Closed Status Spill (Unk/Other Cause)
40	KINGSBRIDGE BUS DEPOT	4056 10TH AVE	2317 feet to the N	Closed Status Tank Failure
227	KINGSBRIDGE BUS DEPOT	4056 10TH AVE	2317 feet to the N	Closed Status Spill (Unk/Other Cause)
75	70 PARK TERR EAST	70 PARK TERR EAST	2323 feet to the N	Closed Status Tank Test Failure
228	MANHOLE #25852	WEBB AVE & DEVOE TERRACE	2353 feet to the E	Closed Status Spill (Unk/Other Cause)
7		ISHAM PARK SEAMAN AVE & 207 ST	2372 feet to the NW	Solid Waste Facility
229	APT. BUILDING	50 PARK TERRACE WEST	2372 feet to the NNW	Closed Status Spill (Unk/Other Cause)
13	65 PARK TERRACE WEST	65−67 PARK TERRACE EAST	2375 feet to the N	Active Tank Test Failure
230	VACANT COMMERCIAL LOT	4857 BROADWAY	2375 feet to the WNW	Closed Status Spill (Unk/Other Cause)
287	APT BLDG	65−67 PARK TERRACE EAST	2375 feet to the N	Closed Status Spill (Misc. Spill Cause)
231	215259; CEDAR AVENUE AND W 180TH STREET	CEDAR AVENUE AND W 180TH STREET	2396 feet to the S	Closed Status Spill (Unk/Other Cause)
232	213822; CEDAR AVE AND W 180 ST	CEDAR AVE AND W 180 ST	2396 feet to the S	Closed Status Spill (Unk/Other Cause)
288	29003 MANHOLE	CEDAR AVE/ 180TH ST	2396 feet to the S	Closed Status Spill (Misc. Spill Cause)
233	KINGSBRIDGE DEPOT	4065 TENTH AVENUE	2416 feet to the NNE	Closed Status Spill (Unk/Other Cause)
234	KINGSBRIDGE BUS DEPOT	4065 10TH AVE	2416 feet to the NNE	Closed Status Spill (Unk/Other Cause)
235	KINGSBRIDGE DEPOT	4069−75 10TH AVE	2416 feet to the NNE	Closed Status Spill (Unk/Other Cause)
289	PRIVATE BUS DEPOT	4065 10TH AVE	2416 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
290	MAINTENANCE SHOP	4065 10TH AVE	2416 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
291	ROADWAY	DEEGAN EXPRESSWAY AT WEST 179 ST EXIT	2427 feet to the S	Closed Status Spill (Misc. Spill Cause)
236	MAN HOLE 61887	HARLEM RIVER DR/DYKEMAN S	2437 feet to the SW	Closed Status Spill (Unk/Other Cause)
76	THE DERMOT COMPANY	121 SEAMAN AVE	2438 feet to the NW	Closed Status Tank Test Failure
237	MANHOLE 28185	BROADWAY & ACADEMY ST	2438 feet to the WNW	Closed Status Spill (Unk/Other Cause)
41	SHELTERING ARMS	2207 UNIVERSITY AVE	2484 feet to the SE	Closed Status Tank Failure
238	APT BUILDING	2291 UNIVERCITY AVE	2503 feet to the ESE	Closed Status Spill (Unk/Other Cause)
239	MANHOLE	2291 DR MARTIN LUTHER KING	2503 feet to the ESE	Closed Status Spill (Unk/Other Cause)

77	X	45 PARK TERRACE WEST	2508 feet to the NNW	Closed Status Tank Test Failure
240	SIDEWALK	11 VERMILYEA AVE	2512 feet to the W	Closed Status Spill (Unk/Other Cause)
241	1972,74 CEDAR AVENUE. / B	1972,74 CEDAR AVENUE.	2521 feet to the S	Closed Status Spill (Unk/Other Cause)
242	SHERMAN AVE/DECKMAN AVE	SHERMAN AVE/DECKMAN AVE	2534 feet to the W	Closed Status Spill (Unk/Other Cause)
243	MANHOLE 46120	SHERMAN AV/DYCKMAN ST	2534 feet to the W	Closed Status Spill (Unk/Other Cause)
244	218TH ST QUTFALL	218TH ST. & 9TH AVE.	2544 feet to the NNE	Closed Status Spill (Unk/Other Cause)
245	BACK YARD	1970 CEDAR AVE	2545 feet to the S	Closed Status Spill (Unk/Other Cause)
78	MACRACKEN HALL	2155 UNIVERSITY AVE	2555 feet to the SE	Closed Status Tank Test Failure
246	2548 BAILEY AVENUE	2548 BAILEY AVENUE	2567 feet to the NE	Closed Status Spill (Unk/Other Cause)
247	MAN HOLE	IFO 2291 UNIVERSITY AVE	2580 feet to the ESE	Closed Status Spill (Unk/Other Cause)
248	MANHOLE 11894	IFO 2291 UNIVERSITY AVE	2580 feet to the ESE	Closed Status Spill (Unk/Other Cause)
79	ST.NICHOLAS OF TOLENTINE	2345 UNIVERSITY AVE	2587 feet to the E	Closed Status Tank Test Failure
80	CLOSED−LACKOF RECENT INFO	2345 UNIVERSITY AVE.	2587 feet to the E	Closed Status Tank Test Failure
249	57 PARK TERR WEST	57 PARK TERR WEST	2596 feet to the N	Closed Status Spill (Unk/Other Cause)
250	APARTMENT BUILDING	95 PARK TERRACE EAST	2602 feet to the N	Closed Status Spill (Unk/Other Cause)
251	MANHOLE 28174	CUMMINS ST/ BROADWAY	2625 feet to the WNW	Closed Status Spill (Unk/Other Cause)
252	MANHOLE #415	BROADWAY & 218TH ST	2626 feet to the N	Closed Status Spill (Unk/Other Cause)
253	NYCSCA − PUBLIC SCHOOL #5	3703 10TH AVENUE	2627 feet to the SW	Closed Status Spill (Unk/Other Cause)
1	2614 UNIVERSITY AVENUE	2614 UNIVERSITY AVENUE	4120 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
2	2628 UNIVERSITY AVENUE	2628 UNIVERSITY AVENUE	4184 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
3	HARLEM RIVER YARD	275 HARLEM RIVER PARK BRIDGE	4220 feet to the SSW	NYSDEC Inactive Haz Waste Disposal Site

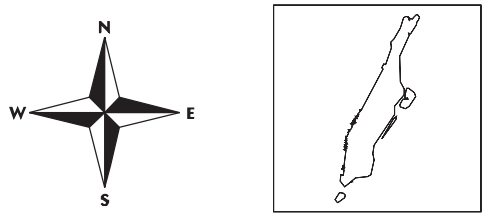


Scale: 1 inch = 1640 feet

Toxics Targeting
1 Mile Buffer Search Map

3875 Ninth Ave

New York, NY



New York County

National Priority List (NPL)

Inactive Hazardous Waste Disposal Registry Site

Inact. Haz Waste Disp. Registry Qualifying

RCRA Corrective Action Facility

Subject Area

County Border

1 Mile Radius

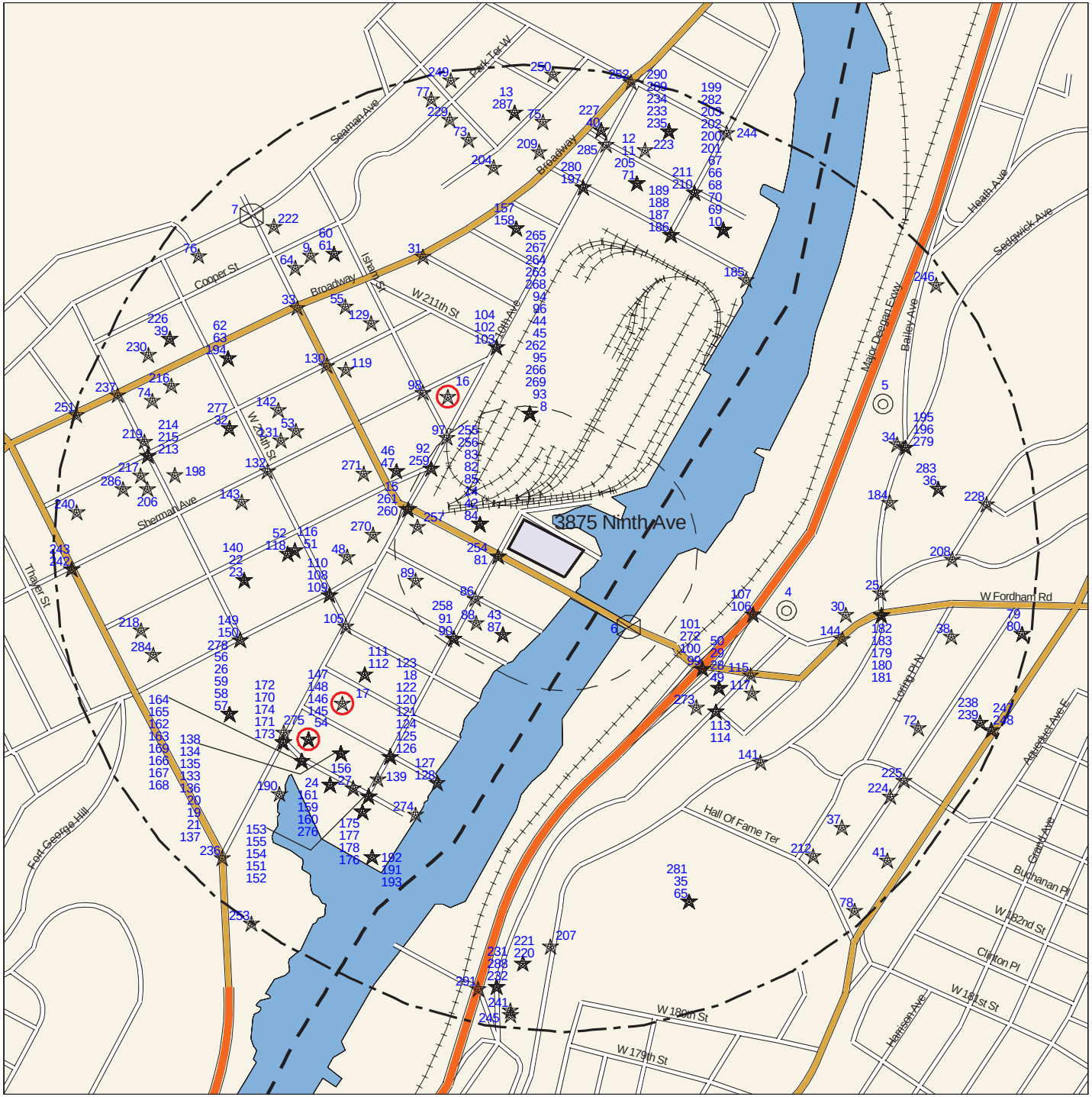
1/4 Mile Radius

Waterbody

Railroad Tracks

1/2 Mile Radius

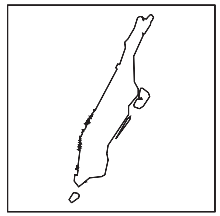
1/8 Mile Radius



Toxics Targeting
1/2 Mile Buffer Search Map

3875 Ninth Ave

New York, NY



New York County

Delisted NPL Site

CERCLIS Superfund Non-NFRAP Site

CERCLIS Superfund NFRAP Site

Hazardous Waste Treater, Storer, Disposer

Hazardous Substance Waste Disposal Site

Solid Waste Facility

Brownfields Site

Hazardous Material Spill

MTBE Gasoline Additive Spill

Subject Area

Waterbody

County Border

Railroad Tracks

1 Mile Radius

1/2 Mile Radius

1/4 Mile Radius

1/8 Mile Radius

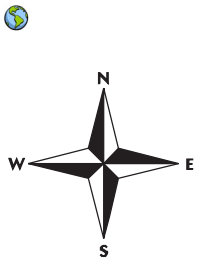
Scale: 1 inch = 853 feet

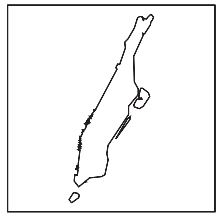


Toxics Targeting
1/8 Mile Buffer Search Map

3875 Ninth Ave

New York, NY



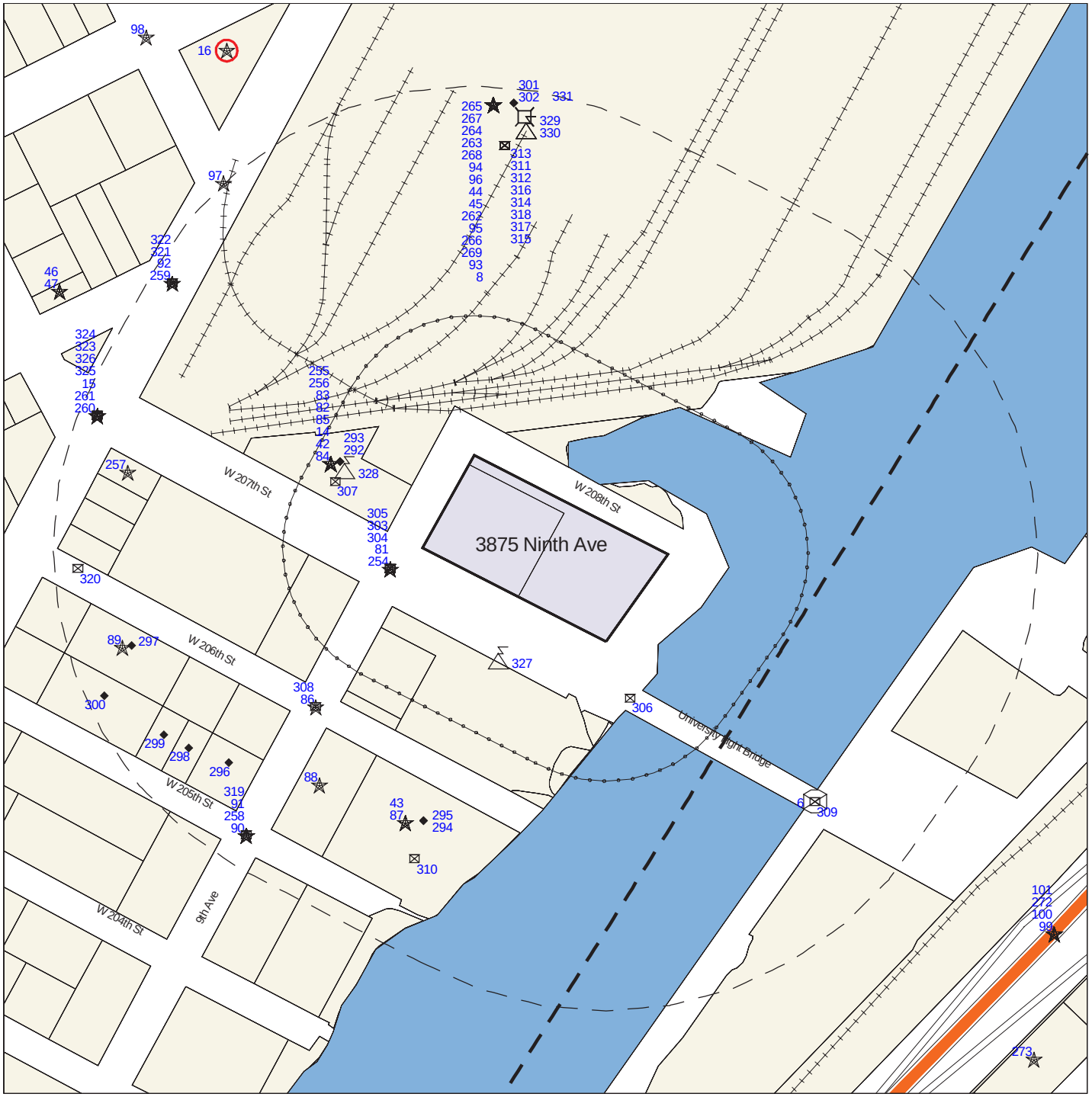


New York County

- Major Oil Storage Facility
- Chemical Storage Facility
- Toxic Release
- Wastewater Discharge
- Hazardous Waste Generator, Transp.
- Enforcement Docket Facility
- Air Release
- Env Qual Review E Designation
- Petroleum Bulk Storage Facility
- Historic Utility Site

- Subject Area
- County Border
- 1/8 Mile Radius
- Waterbody
- Railroad Tracks
- 250 Foot Radius

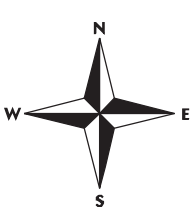
Scale: 1 inch = 262 feet

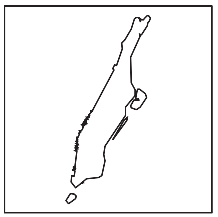


Toxics Targeting
1/8 Mile Buffer Closeup Map

3875 Ninth Ave

New York, NY





New York County

- National Priority List (NPL) *
- Delisted NPL Site **
- CERCLIS Superfund Non-NFRAP Site **
- CERCLIS Superfund NFRAP Site **
- Inactive Hazardous Waste Disposal Registry Site *
- Inact. Haz Waste Disp. Registry Qualifying *
- Hazardous Waste Treater, Storer, Disposer **
- RCRA Corrective Action Facility *
- Hazardous Substance Waste Disposal Site **
- Solid Waste Facility **
- Major Oil Storage Facility ****
- Brownfields Site **
- Chemical Storage Facility ****
- Hazardous Material Spill **
- Toxic Release ****
- MTBE Gasoline Additive Spill **
- Wastewater Discharge ****
- Petroleum Bulk Storage Facility ****
- Hazardous Waste Generator, Transp. ****
- Historic Utility Site ****
- Enforcement Docket Facility ****
- Air Release ****
- Env Qual Review E Designation *****
- Remediation Site Borders

- Subject Area
- Waterbody
- County Border
- Railroad Tracks
- 1/8 Mile Radius
- 250 Foot Radius

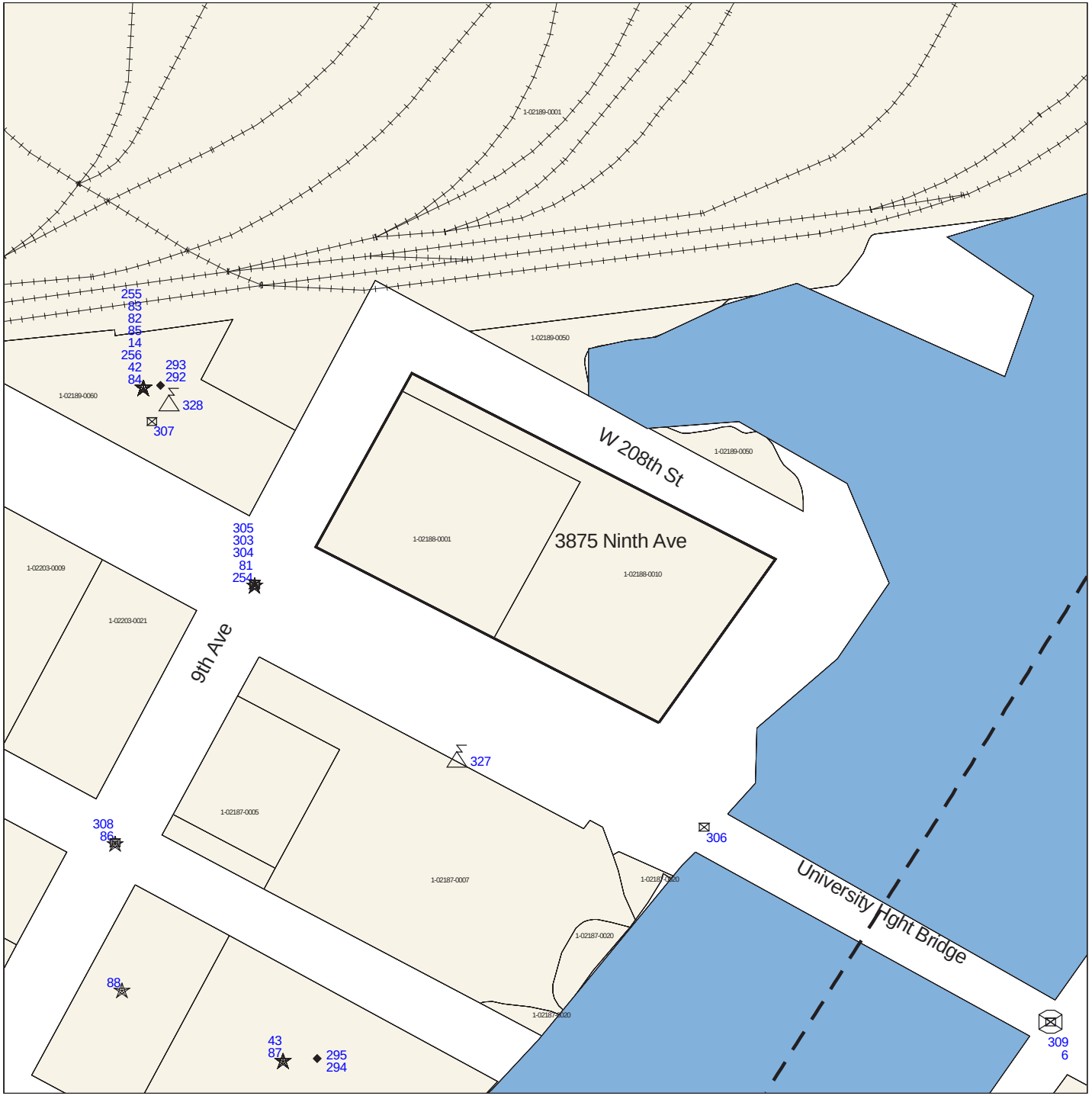
* 1 Mile Search Radius

** 1/2 Mile Search Radius

**** 1/8 Mile Search Radius

***** Onsite Search (250 Ft)

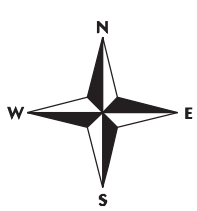
Scale: 1 inch = 262 feet

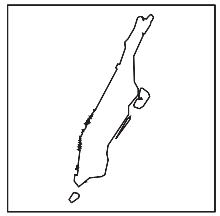


Toxics Targeting Tax Parcel Map

3875 Ninth Ave

New York, NY





New York County

- National Priority List (NPL)
- Delisted NPL Site
- CERCLIS Superfund Non-NFRAP Site
- CERCLIS Superfund NFRAP Site
- Inactive Hazardous Waste Disposal Registry Site
- Inact. Haz Waste Disp. Registry Qualifying
- Hazardous Waste Treater, Storer, Disposer
- RCRA Corrective Action Facility
- Hazardous Substance Waste Disposal Site
- Solid Waste Facility
- Major Oil Storage Facility
- Brownfields Site
- Chemical Storage Facility
- Hazardous Material Spill
- Toxic Release
- MTBE Gasoline Additive Spill
- Wastewater Discharge
- Petroleum Bulk Storage Facility
- Hazardous Waste Generator, Transp.
- Historic Utility Site
- Enforcement Docket Facility
- Air Release
- Env Qual Review E Designation
- Remediation Site Borders
- Subject Area
- Waterbody
- County Border
- Railroad Tracks

Scale: 1 inch = 140 feet

Tax Parcel Information Table

3875 Ninth Ave
New York, NY

Subject Parcel or Parcels

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
1−02188−0010	WEST 207 STREET	MFC REALTY CORP.	M1−1	V1	0		4284450	54470
1−02188−0001	3875 9 AVENUE	MFC REALTY CORP	M1−1	G6	0		621450	32268

Other Parcels Found On The Tax Parcel Map

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
1−02187−0007	3859 9 AVENUE	FLAIR BEVERAGE CORP	M3−1	E4	4	1964	1064250	60650
1−02203−0009	430 WEST 207 STREET	SAND MERGER CORP. C/O	R7−2	K1	1	1968	1672650	79600
1−02187−0020	WEST 207 STREET	DEPT OF SMALL BUSINES	M3−1	V9	0		36900	9427
1−02187−0005	3851 9 AVENUE	FLAIR BEVERAGE CORP	M3−1	E4	1	1950	564750	12500
1−02189−0060	401 WEST 207 STREET	MERIT OIL OF NY INC	M1−1	G5	2	2004	850950	27450
1−02189−0001	10 AVENUE	NYC TRANSIT AUTHORITY	M1−1	U7	15			
1−02189−0050	WEST 208 STREET	D C A S	M1−1	V9	0		268650	68257
1−02203−0021	408 WEST 207 STREET	ALTSCHULER, MORRIS	M1−1	G7	0		360000	19984

Section Two: Toxic Site Profiles

The heading of each *Toxic Site Profile* refers to the site's map location and details:

- The facility name, address, city, state, and zip code.
- Any changes that were made to a site's address in order to map its location.
- The site mapping method that was used (see ***How Sites are Located***, at the end of this section for more information).

Toxic Site Profiles summarize information provided by site owners or operators and government agencies regarding various toxic chemical activities reported at each site, such as:

- Whether chemicals were stored, produced, transported, discharged or disposed of.
- The name of chemicals and their Chemical Abstract Series (CAS) numbers.
- The amount of chemicals and the units (gallons/pounds) the chemical was measured in.
- Whether the site or storage tanks at the site are currently active or inactive.
- Special codes used by government agencies to regulate hazardous waste activities at some sites, or a complete description of the codes follows the profiles section.

For selected individual chemicals reported at various toxic sites, some potential health effect summary information appears below the site profile. Each potential health effect summary identifies chemicals by name and by Chemical Abstract Series (CAS) Number. An "x" under each potential health effect heading indicates positive toxicity testing results reported by the National Institute of Occupational Safety and Health's Registry of Toxic Effects of Chemical Substances (RTECS). Some chemicals (mostly appearing in profiles of Hazardous Waste facilities), are reported as mixtures, and RTECS health effect information is only available for individual chemicals. In addition, RTECS only provides information on approximately 100,000 common chemicals. Consequently, the absence of potential health effect summary information for a particular chemical identified in a Toxic Site Profile does not necessarily mean that the chemical does not pose potential health effects.

The Maximum Contaminant Level (MCL) in drinking water allowed for selected chemicals is also noted. In most cases, the only applicable MCL has been set by the New York State Department of Health (NYSDOH). Where NYSDOH has not set an MCL, the federal standard, if one exists, is listed and is marked by an asterisk.

Presented below are column headings that describe the health effect definitions used in RTECS and applicable New York State and federal drinking water standards. Reference sources for information presented in this section are also provided.

ACUTE TOX: **Acute Toxicity**: Short-term exposure to this chemical can cause lethal and non-lethal toxicity effects not included in the following four categories.

TUMOR TOX: **Tumorigenic Toxicity**: The chemical can cause an increase in the incidence of tumors.

MUTAG TOX: **Mutagenic Toxicity**: The chemical can cause genetic alterations that are passed from one generation to the next.

REPRO TOX: **Reproductive Toxicity**: May signify one of the following effects: maternal effects, paternal effects, effects on fertility, effects on the embryo or fetus, specific developmental abnormalities, tumorigenic effects, or effects on the newborn (only positive reproductive effects data for mammalian species are referenced).

IRRIT TOX: **Primary Irritant**: The chemical can cause eye or skin irritation.

MCL: **Drinking Water Standard - Maximum Contaminant Level** (MCL) listed under Drinking Water Supplies, 10 NYCRR Part 5, Subparts 1.51(f),(g), and (h) for NYDOH MCL's and under the Safe Drinking Water Act, 40 CFR 141, Subparts B and G, (* indicates value for total trihalomethanes) for federal MCL's.

Reference Source for Toxicity Information: Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH (on-line database); For further information, contact: NIOSH, 4676 Columbia Parkway, Cincinnati, OH, 45226, 800/35-NIOSH.

Reference Source for Drinking Water Standards: New York State Department of Health, Bureau of Toxic Substances Assessment, 2 University Place, Room 240, Albany, NY 12203, 518/458-6373.

U.S. Environmental Protection Agency, Office of Drinking Water, 401 M St SW, Mailstop WH-556, Washington, DC, 20460, 202/260-5700.

Inactive Hazardous Waste Disposal Site Classifications:

1 -- Causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or the environment -- immediate action required;
2 -- Significant threat to the public health or environment -- action required;
3 -- Does not Present a significant threat to the environment or public health -- action may be deferred;
4 -- Site properly closed --requires continued management;
5 -- Site properly closed, no evidence of present or potential adverse impact -- no further action required;
2a -- This temporary classification has been assigned to sites where there is inadequate data to assign them to the five classifications specified by law;
A -- Work underway and not yet complete;
P -- Potential Site;
$D_{1, 2, 3}$ -- Delisted Site (1: hazardous waste not found; 2: remediated; 3: consolidated site or site incorrectly listed);
C -- Remediation Complete (formerly D2).



NO NATIONAL PRIORITIES LIST (NPL) SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS



INACTIVE HAZ WASTE DISPOSAL REGISTRY OR REGISTRY−QUALIFYING SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 1 **2614 UNIVERSITY AVENUE** **Facility Id: 203006**
2614 UNIVERSITY AVENUE BRONX, NY 10468 TT−Id: 120A−0007−259

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 4120 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

****

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203006
CLASSIFICATION CODE: N REGION: 2 DEC ID: 58158
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: 2614 University Avenue
STREET ADDRESS: 2614 University Avenue TOWN: New York City
CITY: Bronx ZIP: 10468 COUNTY: Bronx

ESTIMATED SIZE:

SITE TYPE: Dump- Structure- Lagoon- Landfill- Treatment Pond-

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE

The following cross reference(s) have been deleted from the registry. Data reflects previous information.

V00181	VCP Site ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
None reported

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
See site V00181

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State-	Federal-
STATUS:	Negotiation in Progress-		Order Signed-	
REMEDIAL ACTION:	Proposed-	Under Design-	In Progress-	Completed-
NATURE OF ACTION:				

Map Identification Number 2 **2628 UNIVERSITY AVENUE** **Facility Id: 203008**
2628 UNIVERSITY AVENUE BRONX, NY 10468 TT−Id: 120A−0007−260

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 4184 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

****

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203008
CLASSIFICATION CODE: N REGION: 2 DEC ID: 57013
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: 2628 University Avenue
STREET ADDRESS: 2628 University Avenue TOWN: New York City
CITY: Bronx ZIP: 10468 COUNTY: Bronx

ESTIMATED SIZE:
SITE TYPE: Dump- Structure- Lagoon- Landfill- Treatment Pond-

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
None reported

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
The site did not qualify for addition to the Registry of Inactive Hazardous Waste Sites.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR: Air- Surface Water- Groundwater- Soil- Sediment-
APPLICABLE STANDARDS EXCEEDED IN: Groundwater- Drinking Water- Surface Water- Air-

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION: Type: State- Federal-
STATUS: Negotiation in Progress- Order Signed-
REMEDIAL ACTION: Proposed- Under Design- In Progress- Completed-
NATURE OF ACTION:

Map Identification Number 3 **HARLEM RIVER YARD** **Facility Id: 203011**
275 HARLEM RIVER PARK BRIDGE BRONX, NY 10453- TT-Id: 120A-0007-246

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (2)
Approximate distance from property: 4220 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 275 HARLEM RIVER PARK
Revised zip code: 10453

****

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203011
CLASSIFICATION CODE: N REGION: 2 DEC ID: 57954
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: Harlem River Yard
STREET ADDRESS: 275 Harlem River Park Bridge TOWN: New York City
CITY: Bronx ZIP: 10453- COUNTY: Bronx

ESTIMATED SIZE:
SITE TYPE: Dump- Structure- Lagoon- Landfill- Treatment Pond-

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
None reported

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
The site did not qualify for addition to the Registry of Inactive Hazardous Disposal Sites

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State-	Federal-
STATUS:	Negotiation in Progress-		Order Signed-	
REMEDIAL ACTION:	Proposed-	Under Design-	In Progress-	Completed-
NATURE OF ACTION:				



NO RCRA CORRECTIVE ACTION SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS



NO CERCLIS SUPERFUND SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS



BROWNFIELDS SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 4 **CE − KINGSBRIDGE STATION** **Facility Id: V00559**
BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45 BRONX, NY 10468 TT−Id: 280A−0001−459

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 1228 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: BLOCK 3236 LOTS 25 & 45
Revised zip code: UNKNOWN

Brownfield Program: Voluntary Cleanup Program

Volunteer: CONSOLIDATED EDISON C

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
VOLUNTARY CLEANUP PROGRAM

SITE CODE: V00559
CLASSIFICATION CODE: C REGION: 2 DEC ID: 57098
CLASSIFICATION CODE DESCRIPTION:
Remediation Complete (formerly D2). Sites may still require some degree of site management associated with either operation, maintenance, and monitoring or with institutional/engineering controls (IC/ECs).

NAME OF SITE: CE - Kingsbridge Station
STREET ADDRESS: Block 3236, Lot 25 & Block 3236 Lot 45 TOWN: New York City
CITY: Bronx ZIP: 10468 COUNTY: Bronx

ESTIMATED SIZE: 6.68 Acres
SITE TYPE: Dump- Structure- Lagoon- Landfill- Treatment Pond-

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):

NAME: SIERRA BRONX SEAFOOD/ EVERGREEN CAP. Owner Type: PRP - Class 2 HazSubs
ADDRESS: 17 BATTERY PLACE
ROOM 2900
NEW YORK, NY 10004

NAME: NYC DEPT OF PARKS & RECREATION Owner Type: PRP - Class 2 HazSubs
ADDRESS: ARSENAL WEST
16 WEST 61ST STREET
NEW YORK, NY 10023

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:
NAME: SIERRA BRONX SEAFOOD/EVERGREEN CAP.
ADDRESS: 17 BATTERY PLACE
ROOM 2900
NEW YORK, NY 10004

APPLICANT REQUESTOR(S):
NAME: CONSOLIDATED EDISON CO OF NY.,INC. Applicant Type: Missing Code in Old Data
ADDRESS: 4 IRVING PLACE
NY, NY 10003

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
The site is located on Landing Road, along the Major Deegan Expressway in the Bronx. The site is currently occupied by a vacant parking lot, Fordham Landing Playground, and the Major Deegan Expressway. The site is the location of a former gas holder station which operated approximately between 1912 and 1952. A Site Characterization was completed in 2004 and no significant MGP contamination was encountered. A release and covenant not to sue was issued. No ECs/ICs required.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
A Site Characterization was completed in 2004 and no significant MGP contamination was encountered.

ASSESSMENT OF HEALTH PROBLEMS:
No evidence of former gas holders or waste material was found in the investigation. Review of data indicates that polycyclic aromatic hydrocarbons (PAHs) in soil are at levels that do not indicate a public health concern. Exposure to groundwater is unlikely since the area is served by public water supply.

PROJECT COMPLETIONS:
Operable Unit 01 - Holder Station

PROJECT	DESCRIPTION	END DATE	STATUS

Site Characterization 06/07/2005 No Further Action

Map Identification Number 5 **CE − KINGSBRIDGE STATION** **Facility Id: V00559**
BLOCK 3236, LOT 25 & BLOCK 3236 LOT 45 BRONX, NY 10468 TT−Id: 280A−0002−356

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1933 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: BLOCK 3236 LOTS 25 & 45
Revised zip code: UNKNOWN

Brownfield Program: Voluntary Cleanup Program

Volunteer: CONSOLIDATED EDISON C

See initial profile for 'CE − KINGSBRIDGE STATION' above.



SOLID WASTE FACILITIES IDENTIFIED WITHIN THE 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 6 **SANTILLI LAND DEVELOPMENT CORP.** **Facility Id: NY00000000437**
WEST FORDHAM ROAD @ HARLEM RIVER, BRONX, NY 10468 TT−Id: 390A−0014−297

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 469 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: W FORDHAM RD / HARLEM RIVER
Revised zip code: NO CHANGE

Activity Number	Activity Type	Active?	Regulatory Status	Activity Start Date	Activity End Date	Activity Closed Date	Activity Delisted Date
03W85	C&D processing − registration	No		02/17/2002			

Affiliation	Affiliation Type	Affiliation Start Date	Affiliation End Date
ANTHONY SANTILLI United States	Contact	02/08/2002	

Map Identification Number 7 **Facility Id: NY206**
ISHAM PARK SEAMAN AVE & 207 ST, MANHATTAN TT−Id: 400A−0001−787

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2372 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / SEAMAN AVE
Revised zip code: 10034

1934 New York City municipal waste disposal site −−− Cubic yards dumped in 1934: 17974



NO HAZARDOUS WASTE TREATMENT/STORAGE/DISPOSERS IDENTIFIED WITHIN THE 1/2 MILE SEARCH RADIUS



HAZARDOUS MATERIAL SPILLS INTRODUCTION

The Hazardous Material Spills in this section are divided into eight spill cause groupings. These include:

Active Spills Section: Spills with incomplete paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

1) Tank Failures
2) Tank Test Failures
3) Unknown Spill Cause or Other Spill Cause Hazardous Spills
4) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

Closed Status Spills Section: Spills with completed paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

5) Tank Failures
6) Tank Test Failures
7) Unknown Spill Cause or Other Spill Cause Hazardous Spills
8) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

All spills within each spill cause category are presented in order of proximity to the subject site address.

Please note that spills reported within 0.25 mile (or one−eighth mile in New York City) are mapped and profiled.

Between 0.25 mile (or one−eighth mile in New York City) and 0.5 mile, only the following spills are mapped and profiled:

* Tank Failures;

* Tank Test Failures;

* Unknown Spill Cause or Other Spill Cause;

* Spills greater than 100 units of quantity; and

* Spills reported in the NYSDEC Fall 1998 MTBE Survey.

A table at the end of each section presents a listing of reported Miscellanous Spills with less than 100 units located between 0.25 mile (or one−eighth mile in Manhattan) and 0.5 mile. These spills are neither mapped nor profiled.



NO ACTIVE TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS



ACTIVE TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 8 **207 TH STREET YARD−NYCT** **Spill Number: 0106375** **Close Date:**
3961 TENTH AVE MANHATTAN, NY TT−Id: 520A−0098−333

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3961 10TH AVE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	FRANCIS VOLMUELLER − NYC TRANSIT.	Spiller Phone:	(718) 243−3449
Notifier Type:	Tank Tester	Notifier Name:	WILLIAM KLEIN	Notifier Phone:	(718) 762−5200
Caller Name:	WILLIAM KLEIN	Caller Agency:	FRANKLIN CO CONTRACTORS	Caller Phone:	(718) 762−5200
DEC Investigator:	RVKETANI	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/17/2001		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
3	35000	Horner EZ Check I or II	0.00	UNKNOWN
4	35000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

u/g tank failed test property manager will be advised asap retest may be tried later

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DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
See also 02−04997 & 02−02959. This spill will now refer to both #6 heating oil tanks.

06−23−05: Initial site investigation identified soil contamination and free product. It also identified another tank. A supplemental investigation work plan has been submitted and approved to define the extent of contamination and to provide monitroing and bailing points to monitor the plume while the yard is being reconstructed. The tanks and associated contamination will be removed during the reconstruction phase pertaining to the boiler plant.

09/28/06: Tenative schedule for tank and soil removal − December 2008, if NTP is issued in December 2006.

11/12/10 − spill re−assigned from Tibbe to Joe O'Connell

5/19/2011 The spill was reassigned from Joe O'Connell to Linda Ross

12/18/12 − Raphael Ketani. The spill was assigned to me during February 2012 as part of a caseload realignment. There have been monthly to bimonthly (once every two months) update meetings with the NYCT regarding this and 17 other sites. The information for the sites is in the UIS under e−docs, multiple sites, DER, Region 2, Petroleum Spills, NYCT.

Map Identification Number 9 **PVT DWELLING TTF** **Spill Number: 1003365** **Close Date:**
101 COOPER ST MANHATTAN, NY TT−Id: 520A−0253−020

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1979 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	101 COOPER ST	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	RENE LEWIS	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

---

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/25/2010		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

dry leak/5000gal ust

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 10 **M12 SANITATION GARAGE** **Spill Number: 1400730** **Close Date:**
301 WEST 215 ST NY, NY TT−Id: 520A−0297−318

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: 301 W 215TH ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	M12	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RMPIPER	Contact for more spill info:	JAY SHAH	Contact Person Phone:	(718) 334−9138

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/22/2014		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

12000 gal ust

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 11 **MANHATTAN DISTR. 8 (OLD BX W. 7) DOS −DDC** **Spill Number: 9705837** **Close Date:**
4036 9TH AVE NEW YORK CITY, NY TT−Id: 520A−0094−303

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2071 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: MR DI GERALAMO − NY SANITATION DEPT
Spiller Phone: (718) 334−9138
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: JOHN LEDDY
Caller Agency: PROTEST ENTERPRISES
Caller Phone: (516) 321−4670
DEC Investigator: ADZHITOM
Contact for more spill info: MR DI GERALAMO
Contact Person Phone: (718) 334−9138

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/14/1997		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	5000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

failed tank test info below

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"

10/04/05: Spill case transferred from J. Kolleeny to A. Zhitomirsky, who is DEC project manager for this DDC site. − J. Kolleeny

10/07/2005 The site has free product plume. AZ

10/24/2005 Quaterly Report from 5/24/2005 from LiRo was reviewed in July 2005. Reviewed and approved proposed soil boring

locations for the first round of soil sampling. AZ

1/24/07 At the meeting with DDC/URS on January 10, 2007, the site was discussed. URS will prepare a site map with existing borings/wells and tank locations. A site visit will be arranged. AZ

3−17−2009 An e−mail was sent to Jane Staten (URS):"What's the status of this spill? I do not have any updates since 2007." AZ

3−17−2008 J. Staten replied that she contacted Mike Murphy,DSNY, about
this spill number. URS wantS to make sure which tank the spill report is referring to before they spend the money for an investigation. AZ

Michael R. Murphy
NYC Department of Sanitation
Facilities & Equipment
125 Worth Street, Room 823B
New York, N.Y. 10013
(T) 646−885−4876
(C) 646−235−3041
(E) mrmurphy@dsny.nyc.gov

9−2−09 URS in their report dated April 24−09 stated that they continue to research spill #9705837. AZ

1−11−10 Reviewed free product recovery and groundwater monitoring data for the period April through June 2009. VOCs were detected in wells LMW−09 and LMW−11 ranging from 1,530 ppb to 1,017 ppb respectively. Contaminant concentrations increased in a couple of wells this quarter. AZ

4−5−2010 Reviewed a URS's report dated February 1, 2010. No free product has been detected at the site in over six months. URS will reduce the frequency of the product recovery visits from monthly to quarterly. VOC concentrations ranged from 6 ppb to 350 ppb. AZ

6−3−2011 An e−mail was sent to K. Shenahan: "Dear Kevin, I have reviewed a report covering the period of October − December 2010 and dated April 28, 2010. The report provided a table with bulk storage records. This table indicated that a number of discrepancies exist between the URS records and the current PBS records including contents, status and capacity of tanks. A field inspection should be performed by URS. A reconciliation of existing tanks, past site plans, tank closure reports and NYSDEC's PBS registry data should be performed. URS should verify how many USTs were historically present and/or may still be located on site. Size, status (active/closed in place/removed) and contents of the existing/closed in place/removed tanks should be confirmed. Corrected detailed information should be reported to the DEC PBS Section and included in next monitoring report." AZ

11−7−2011 An email was sent to URS (Kevin Shenahan):"Dear Kevin,
I have reviewed a report covering the period of January − March 2011 and dated July 28, 2011. The report provided a table with bulk storage records. This table indicated that a number of discrepancies exist between the URS records and the current PBS records including contents, status and capacity of tanks.
During a recent site visit, URS confirmed the accuracy of the status of several tanks. However, the status of many tanks is still unknown. The tank status should finalized in the next monitoring report. Corrected detailed information should be reported

to the DEC PBS Section.
Sincerely,
Alexander Zhitomirsky
Engineering Geologist 2
NYSDEC Region 2
Division of Environmental Remediation" AZ

7−31−2012 The following e−mail was sent to URS/V. Brevdo/M. Asbagh:"Dear Kevin,

I have received a groundwater monitoring data report for the first quarter 2012 and dated May 1, 2012. This report evaluated criteria for closure of spill #9705837. According to the report, the source of contamination was at Tank Area 4 and 5, which contained a 2,000−gallon gasoline UST (Area 4) and 1,000−gallon waste oil UST (Area 5). The tanks in Area 4 were removed in 1994 and the tank in Area 5 was replaced in 2000.
However, spill report #9705837 states that spill#9705837 was reported when 5,000−gallon #2 fuel tank failed the test. This discrepancy should be resolved.
Sincerely,
Alexander Zhitomirsky
Engineering Geologist 2
NYSDEC Region 2
Division of Environmental Remediation" AZ

3/15/2013 Reviewed report dated 10−11−2012. The report requested that this spill number is transferred to Manhattan West 8 site. This spill is already attributed to Manhattan West 8 site. AZ

5/28/2013 Reviewed a proposed Work Plan dated February 20, 2013. Discussed the ste with K. Shenahan over the phone. An e−mail was sent to K. Shenahan/V. brevdo/M. Asbagh:

Dear Kevin,

I have reviewed a Work Plan for the above site dated February 20, 2013. The Work Plan calls for investigation of a 5,000 gallon UST which failed a tightness test. This tank was presumably closed in place.

The Work Plan submitted by URS is conditionally approved. URS should proceed with a geophysical survey of the designated areas.

However, the Work Plan has not recommended any investigation of the piping and fill port associated with this UST. Also, only one well was recommended for installation. If soil contamination is encountered, three monitoring wells should be installed.

After geophysical survey is completed, a map with the proposed soil boring locations should be submitted to DEC. The Work Plan should be modified to reflect the above mentioned comments and submitted to DEC.

Sincerely,

Alex Zhitomirsky

5−28−2013 E−mail from K. Shenahan:

"Alex,

Thanks for the conditional approval. We will send you the results of the geophysical investigation and review the best locations for borings and wells. In addition, we will include investigation of remote fill and piping to the extend feasible. This will also be reviewed with you prior to drilling.

Kevin J. Shanahan"

7−29−2013 Contacted Kevin Shenahan. The geophysical showed potentially 3 USTs. A lot of potential piping was discovered. Nothing has been done at the site before. There two options: 1. Sample soil and ground water and if contamination is found, excavate the tanks and piping, if feasible. 2. Excavate the tanks and piping if feasible. Kevin will contact DDC and look for their input. AZ

8−6−2013 The following e−mail was received from K. Shenahan (URS):

Alex,

As you requested, URS is re−issuing this e−mail documenting the boring locations and plan to install groundwater monitoring wells in accordance with the approved March 8, 2013 Work Plan. A total of 15 borings are proposed. If petroleum contamination is encountered, we will install at three groundwater monitoring wells around each tank and sample groundwater. We will also install additional wells as necessary to delineate the extent of free product or dissolved phase contamination.

We have also attached the geophysical survey report for your files.

Thanks,

Kevin J. Shanahan

8−13−2013 The following e−mail was sent to K. Shenahan/V. Brevdo/M. Asbagh/H. Roberts:"

Dear Kevin,

I have reviewed a modified Work Plan to install soil borings and groundwater monitoring wells. The Responsible Party and Contractors are responsible for the safe execution of the Work Plan.

Sincerely,
Alexander Zhitomirsky"

4−10−2014 The following e−mail was sent to K. Shenahan and V. Brevdo:
"Dear Kevin,

I have reviewed an Investigation Summary and Remedial Plan for the above site. The Remedial Plan for this site proposed removal of tank#008 and any remaining piping within the footprint of the excavation. Also, limited soil excavation will be performed.

I concur with this Work Plan. Former fill port should located and excavated, if feasible.

Post excavation samples should be taken. URS should include proposed number and locations of the post excavation samples in the Design Analysis Report.

The Responsible Party and Contractors are responsible for the safe execution of the Work Plan.

Sincerely,

Alexander Zhitomirsky"

Map Identification Number 12 **NYC DEPT OF SANITATION** **Spill Number: 1310377** **Close Date:**
423 WEST 215TH ST NEW YORK, NY TT−Id: 520A−0293−401

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2071 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: MICHAEL SEPE − NYC DEPT OF SANITATION Spiller Phone:
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: RJFENG Contact for more spill info: MICHAEL SEPE Contact Person Phone: (631) 586−5900

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/29/2014		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

no product in secondary, line failure

DEC Investigator Remarks:

1/29/2014 − Feng − called the tank tester Michael Sepe (631−714−9156) and left a message for him to call back.

Map Identification Number 13 **65 PARK TERRACE WEST** **Spill Number: 0109660** **Close Date:**
65−67 PARK TERRACE EAST NEW YORK, NY 10034 TT−Id: 520A−0098−146
65 PARK TERRACE EAST

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2375 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Tank Tester
Caller Name: TOM LEDDY
DEC Investigator: VXBREVDO
Spiller: BRAD HUNTINGTON
Notifier Name: ALBERTO LOPEZ
Caller Agency: PROTEST ENTERPRISES
Contact for more spill info: BRAD HUNTINGTON
Spiller Phone: (914) 962−3692
Notifier Phone: (631) 321−4670
Caller Phone: (631) 321−4670
Contact Person Phone: (914) 962−3692

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/04/2002		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	5000	Alternate Test per 613.5a2v	0.00	FAIL

Caller Remarks:

dry leak − ez locator plus

DEC Investigator Remarks:

12/19/05 − Sent letter dated 12/19/05 to Art Lim requesting further information on the status of the petroleum spill.

11/23/05 − Brad's office called back and told me that we could send a letter to the building owner: GDA Realty Corp., attn: Art Lim, PO Box 864, Elmhurst, NY, 11373. He had no phone # for them.

11/21/05 − left message for John Leddy of Pro−test. Pro−test called me back and said they only tested the tank but they were a

subcontractor to TriState Engineers (914−962−3692) and we must follow up with them for cleanup details. Called triState and Brad Huntington is to call me back. Brad called back and said TriState was not called back in to do cleanup. He will call me back with contact person name/# for building.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"
ORIG. ASSIGNED TO ROSSAN

1/24/08 bf: Sent ttf letter to:
Anne Gillette
Compliance Department
Douglas Elliman Property Management
675 Third Ave.
New york, NY 10017

2/13/08 Received message yesterday from Cathy, managing agent for property (212)567−6376. Wants to discuss letter. Returned call and left message on machine for Cathy. bf

2/15/08 Cathy called and left message. Called her back. She could not find any info. Gave her J. Leddy's contact info (Pro Test) and suggested to call there for any info. She will be out of office until 2/25/08. Extension agreed upon to call me on 2/25/08. bf

07/16/13 − Spill Case is transferred from Brian Falvey (PBS Unit) to V. Brevdo (Section B) as per DER Region 2 decision − Tank Test Failure Spill Case. VB



ACTIVE UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 14 **HESS STATION 32517** **Spill Number: 0201957** **Close Date:**
401 WEST 207TH STREET NEW YORK CITY, NY TT−Id: 520A−0091−335

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	DAVID LEE − HESS AMERADA	Spiller Phone:	(518) 436−6585
Notifier Type:	Responsible Party	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	DAVID LEE	Caller Agency:	AMERADA HESS	Caller Phone:	(518) 436−6585
DEC Investigator:	RJFENG	Contact for more spill info:	DAVID LEE	Contact Person Phone:	(518) 436−6585

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/23/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

gas spilled at the premise.they will be testing tanks and lines there tommorow to see why spill occurred.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"
See 9706124. Rommel

10/28/05: Project reassigned from Sun to Andersen. Reviewed the quarterly report dated 8/19/05. An SVE/AS system has been operation since 1/03. There is still high contaminant concentration and free product in monitoring wells.

1/26/06: 1/25/06 meeting between Quantum, NYSDEC and ET. Fluctuating concentrations. Will wait one more quarter to assess situation.

2/2/06: Reviewed September − November 2005 update report. SVE/AS system is working fine. No product detected this quarter. Max BTEX 63,090 (MW2), max MTBE 175 ppb (MW2).

4/4/06: Reviewed First quarterly 2006 report. Remedial progress is slow. ORM socks installed in MW2 and SVE−4. Large BTEX and MTBE increase in SVE−4. Max BTEX 61,740 ppb (MW2) and max MTBE 1,250 ppb (SVE−4).

7/5/06: Meeting on 6/28/06 with Hess, Quantum, NYSDEC, EnviroTrac, and GSC. MW−2 is not hooked up to the SVE/AS system because utilities are in the way. ORC can't be used because it is too close to the tanks.

8/1/06: Reviewed second quarterly 2006 report. SVE/AS is operational. Depth to water 7−11 ft. Max BTEX 48,028 (MW2) and max MTBE 726 (SVE−4). Remediation at MW2 has not been resolved yet.

10/31/06: Reviewed the third quarterly 2006 update report. Wells sampled on 8/31/06. Max BTEX 21,677 (MW2) and max MTBE 602 (SVE4). Decreasing trend in contaminant concentrations. The SVE/AS system is operational and effective. ORM socks in MW−2 and SVE−4.

1/17/07: Meeting on 1/16/07 with Hess, Delta, and NYSDEC. Vacuum in AS/SVE3 may be increased to improve remediation in MW2.

2/12/07: Reviewed update report. AS/SVE3 dry. High concentrations remain in MW2. Wells sampled on 11/21/06. Max BTEX 31,253 ppb (MW2), max MTBE 261 ppb (SVE4). Requested that air effluent samples be laboratory analyzed if PID greater than 5.

4/18/07: New spill number 0700699 was opened when the city found petroleum contamination in the trench during the installation of a new sewer line in the street in front of this station. Spill 0700699 will be closed out once the sewer installation consultant confirms that the contaminated soil removed during the trenching was disposed of off site and not dumped back in the hole. This consultant DID NOT trace any information on the path/source/etc of this contamination.

4/20/07: Spoke to Steve Frank at Liro Engineering regarding Spill 0700699. Product was accumulating in the excavation. The product was fingerprinted (weathered gasoline) and he will send me the laboratory report. I notified Hess that they need to investigate this issue. There is no product on the Hess station, they have had an SVE/AS system in operation since 1/3/2003, and it appears as through the excavation is sidegradient of the Hess station. I am not clear if the product was in the vadose zone or on the groundwater table. The excavation was to a depth of 10 to 15 ft. The trench was sheeted.

4/23/07: See spill 0700699 for info about the sewer excavation: DEC Carlson performed site inspection. The sewer line is being installed at approximately 8 ft below grade. One portion about 10ft long is contains water and floating product.(see pics in edocs) This portion is directly downgradient of the Hess station. The portion with water and product is greater than 8 ft deep, and will have a concrete box and manhole around it. The construction operator reported seeing soil staining when groundwater was encountered at approximately 8 ft below grade. Met with the engineer on site Attef Farag (phone 973−623−2999, email

afarag@kseng.com). Met with Hess's consultant, Jonathan Curran from Delta. Tim Fisher from Delta will be managing this incident. I indicated to Attef Farag that the water in the excavation will need to pumped out and properly disposed of.

4/30/07: Received update report. Wells sampled on 2/26/07. LNAPL in MW2 (0.04 ft). The last reported presence of LNAPL was in 8/2005. The SVE/AS system was adjusted to focus on area around MW2. Sent tank test required letter.

5/9/07: Spoke to Steve Crompco (800−646−3161). Tanks will be tested tomorrow at 9am. Tanks last tested 5/25/2002. Tanks and lines are double wall fiberglass.

5/21/07: Received results of tank tightness test − all tanks, lines, leak detector passed.

6/22/07: See spill 0700699.

6/29/07: Sent additional delineation required letter, well required on the eastern side of 9th Avenue by 8/31/07.

7/26/07: Reviewed site status report. Wells sampled on 5/30/07. LNAPL present in MW2 at depth of 0.04 ft. SVE/AS in operation.

9/6/07: Approved monitoring well installation workplan and extension. Well installation and sampling data will be reported in October 2007 site status report.

10/22/07: Reviewed site status report. Wells sampled on 8/8/07. Off−site MW10 installed on 9/18/07. LNAPL present in MW2 (sheen). Max BTEX 4190 (MW4). Max MTBE 18 ppb (SVE3). SVE/AS in operation. System not operation on July 2007, back in operation in August. Air effluent sample collected in September 2007, benzene within limits.

2/13/08: Reviewed October 2007 − December 2007 Site Status Report. SVE/AS system in operation. Wells sampled on November 6, 2007. Max BTEX 508 ppb (SVE1), max MTBE 23 ppb (SVE3).

5/14/08 − Carlson: May 7th 2008 meeting with Hess and Envirotrac. The Department requested additional delineation around the pump island and product recovery from MW2. Reviewed the first quarterly 2008 update report. Wells sampled on 2/5/08. SVE−1 and SVE−3 were dry. LNAPL in MW2 (0.01 ft). Maximum BTEX concentration 257 ppb (MW4), maximum MTBE concentration 27 ppb (SVE4). SVE/AS in operation.

8/7/08 − Carlson: Reviewed July 2008 Update Report. Wells sampled on 5/6/08. Maximum BTEX concentration 39,950 ppb (MW2). SVE/AS in operation. Two on−site delineation well locations proposed.

8/11/08 − Carlson: Received email from Ed Russo indicating the two additional wells will be installed on 8/18/08. Sent email approving well locations.

10/22/08 − Carlson: Meeting with Hess/Envirotrac. Perform weekly VEFR for one month to evaluate effectiveness. Well installation data will be included in next quarterly report.

11/17/08 − Carlson: Reviewed October 2008 Update Report. Wells sampled on 8/26/08. Maximum BTEX concentration 62,360 ppb (MW2). No LNAPL detected this quarter. SVE/AS in operation. Wells MW11 and MW12 were installed 8/18/08. EFR events will be conducted from MW2.

2/20/09 − Carlson: Reviewed January 2009 Update Report. SVE/AS in operation. Weekly EFR from MW2 because of recent sheen. EFR will be conducted monthly henceforth.

3/18/09 − Carlson: Meeting with Hess and Envirotrac. Should another AS well be installed by MW2?

5/7/09 − Carlson: Reviewed April 2009 Update Report. SVE/AS in operation since 2003 − review effectiveness. Monthly EFR from MW2. Wells sampled on 2/25/09. Maximum BTEX concentration 19,277 ppb (MW2). Fluctuating concentrations.

8/7/09 − Carlson: Reviewed update report. SVE/AS down for repair since March. Hess is evaluating installation of additional remedials wells or injection points near MW2 and MW12.

8/19/09 − Carlson: Meeting with Hess. They are evaluating extending system/installing remedial well in MW2 area. Work plan will be submitted by 9/30/09.

11/17/09 − Carlson: Reviewed October 2009 update report. System down for evalutation of extending system to MW2 area.

1/27/2010 − Carlson: Meeting with Hess and Envirotrac. Delineation work plan received, need to review.

2/2/2010 − Carlson: Approved work plan for installation of one monitoring well and 3−4 air sparge wells, depending on site conditions. Results to be submitted in subsequest update report.

2/5/2010 − Carlson: Reviewed 4th Quarter 2009 Update report. SVE/AS down for system upgrade, as per above entry.

2/19/2010 − Carlson: Received notification − drilling scheduled for 2/22/2010.

5/20/2010 − Carlson: Meeting with Hess. SVE/AS is off, may be restarted.

5/28/2010 − Carlson: Reviewed update report. Three AS wells and one MW installed. Hess to conduct STRE in areas of contamination.

8/25/2010 − Carlson: Reviewed July 2010 update report. STRE conducted. Hess to evaluate STRE data to determine feasibility of retrofitting remediation system.

11/10/2011 − Carlson: Reviewed October 2011 update report. STRE conducted monthly. Hess to evaluate STRE data to determine feasibility of retrofitting remediation system. PID reading during 7/12/11 event was very high (2000 ppm) and a sample was not collected for VOC analysis. Emailed Ed Russo − is air effluent being treated?

11/22/11 − Carlson: Received email response from Joseph Rennie − air effluent is not being treated because effluent has historically been below effluent standard. 7/12/11 reading was an anamoly because all previous and recent effluent PID has been much lower. Sent email response − if a very large PID is encountered again − please collect a sample for laboratory analysis.

7/13/2012 − reviewed 1Q2012, 4/30/2012, by EnviroTrac. Groundwater was sampled on 2/24/2012. STRE was performed on selected wells. Confirmatory sample from SVE−3 was collected on 3/27/2012 due to erroneous BTEX concentration during the 2/24/2012 sampling event. MW−2, 4,377 ug/L BTEX, MTBE ND. MW−5, 96.7 BTEX, MTBE ND. MW−8, 9,003 BTEX, 1.3 MTBE. MW−9, 520.6 BTEX, 17.5

MTBE. MW−4, 218.2 BTEX, MTBE ND. SVE−2, 944.4 BTEX, 96.7 MTBE. SVE−4, 152.6 BTEX, 4.6 MTBE. MW−12, 372 BTEX, 1.7 MTBE.

10/19/2012 − 2Q2012, 7/31/2012, by EnviroTrac. Groundwater was sampled 5/17/2012. STRE on MW−2/AS−5, MW−12/AS−7, SVE−2/SVE−2 cluster, SVE−4/SVE−4 cluster on 4/25, and 5/8/2012. DTW 9.43 to 11.68. Flows to east. SVE/AS not operational, pending remedial option. Next sampling will be in August 2012. MW−2, 13,052 BTEX, MTBE ND. MW−4, 267.5 BTEX, MTBE ND. SVE−2, 1,384.8J BTEX, 71.7 MTBE. SVE−4, 760.4 BTEX, 9.1 MTBE. SVE−5, 3.69J BTEX, 4.2 MTBE. MW−11, 17.02 BTEX, MTBE ND. MW−12, 252.2 BTEX, 2.5 MTBE.

1/24/2013 − 3Q2012, 11/5/2012, by EnviroTrac. Groundwater was sampled on 8/31/2012. DTW 9.0 to 11.99 feet. Flows to east. MW−2, 14,068 BTEX, MTBE ND. SVE−1, 1,123 BTEX, 2.3J MTBE. MW−8, 13,089 BTEX, MTBE ND. MW−6, 39.9 BTEX, 2.6 MTBE. MW−9, 386 BTEX, MTBE ND. MW−4, 1,464 BTEX, MTBE ND. SVE−2, 2,070 BTEX, 81.1 MTBE. SVE−4, 1,587 BTEX, 22.1 MTBE. MW−12, 145.7 BTEX, MTBE ND. SVE/AS is not operational, pending on remedial options. Next sampling will be in 11/2012. STRE on MW−2/AS−5, SVE−4/SVE−4 on 8/29/2012.

8/1/2013 − 4Q2012, 1/31/2013, by EnviroTrac. The monitoring was done on 11/16/2012. DTW 8.83 to 11.55 feet. Flows to east. SVE/AS is NOT running, pending remedial option. Hess to condut STRE events on select wells beginning 1/2013. SVE−1, 366.9 BTEX. MW−2, 9,017 BTEX. MW−6, 11.5J BTEX. MW−4, 972.2 BTEX. SVE−4, 1,291.9 BTEX, 22.3 MTBE. MW−12, 717.9 BTEX, 1.8 MTBE.

1Q2013, 4/30/2013, by EnviroTrac. The monitoring was done on 2/26/2013. STRE on MW−2, SVE−2 and SVE−4 on 1/10 and 2/19/2013. DTW 9.44 to 11.72 feet. Flows to east. MW−2, 6,658 BTEX. MW−8, 926.9 BTEX. MW−6, 15.23J BTEX. MW−9, 359.3 BTEX, 12.5 MTBE. MW−4, 1,604.6 BTEX. SVE−4, 1,807.7 BTEX, 29.5 MTBE. MW−11, 15.87 BTEX. MW−12, 324.4 BTEX, 1.8 MTBE.

Map Identification Number 15 **CON EDISON** **Spill Number: 1006377** **Close Date:**
10TH AVE AND WEST 207TH ST MANHATTAN, NY TT−Id: 520A−0255−584

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 628 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 10TH AVE / WEST 207TH ST
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	Con Ed Unassigned	Contact for more spill info:	ERT	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/12/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0.25	GALLONS	0.00	GALLONS	

Caller Remarks:

Caller advised approximately 1 quart of dielectric fluid in a manhole at intersection given.

DEC Investigator Remarks:

09/13/10−Vought−Primary off hours responder. Spill assigned to DEC Feroze as part of routine Con Ed spill portfolio review and possible closure. Initial EMIS downloaded into E−docs and deleted from Proxy. EMIS #223282 added into Cross Reference Field.

Map Identification Number 16 **BP AMOCO STATION #5053** **Spill Number: 0111502** **Close Date:**
3936 10TH AVE MANHATTAN, NY TT−Id: 520A−0098−340
3936 TENTH AVE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 850 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION Spiller: OWNER − AMOCO STA 5053 Spiller Phone:
Notifier Type: Responsible Party Notifier Name: Notifier Phone:
Caller Name: BRAD FISHER Caller Agency: DELTA ENVIRONMENTAL Caller Phone: (914) 765−8198
DEC Investigator: rjfeng Contact for more spill info: CALLER Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/27/2002		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

contamination found on soil and ground water after tank removal.

DEC Investigator Remarks:

UST closure report submitted (Delta, 10/2/02).

5/5/03 Received Subsurface Hydrocarbon Assessment Report(Delta, 5/1/03) and second quarter 2003 monitoring report(Delta, 4/29/03).

6/6/03 Received Soil Gas Survey Report (Delta, 6/3/03).

12/3/03 Reassigned from Vought to Foley.

12/8/03 Received SHAR (Delta, 12/3/03) and First Quarter 2003 monitoring report(Delta, 12/2/03).
SHAR summary:
8/26/03 Delta advanced four soil borings to 17'bgs(MW−7 thru MW−10). Samples were collected directly above the water table and analyzed for VOCs. Lab analysis identified BTEX and other target VOCs above soil cleanup objectives in MW−7, MW−8, and MW−10. They were all converted to permanent wells and were developed.

10/16/03 The wells were purged, gauged and sampled. No LNAPL detected. Lab analysis identified BTEX and other target VOCs above groundwater standards in MW−9 and MW−10. MTBE exceeded standards in all wells.

Confirm groundwater flow direction(toward Harlem River?). Need to delineate across Sherman Ave.

5/7/04 Portfolio meeting: DTW 11−12'bgs, north−northeast, 0.10ft/day seepage velocity. Basements and utility vaults are receptors. Soil gas points to dispensers as a source area. Future initiatives include installation of 3 wells across Sherman Ave(2Q04), baildown test in MW−3, and evaluation of data for RAP development for LNAPL, soil and groundwater.

6/18/04 Delta to install three wells on north side of Sherman Ave. Provided sidewalk permit letter.

8/19/04 Received 3Q03 and 2Q04 monitoring report.
3Q03 BTEX from ND(MW−4, MW−6) to 34ppb(MW−5). MTBE from 53ppb(MW−5) to 27700ppb(MW−4). 1.0' LNAPL in MW−3.

2Q04 Downgradient well MW−9 showing high BTEX/MTBE at 25360ppb/24000ppb. 0.91' LNAPL in MW−3.

4/26/05
3Q04− 0.89' LNAPL detected in MW−3. BTEX from ND(MW−1,2,4,6,7,8,11,12) to 30700ppb(MW−9). MTBE from ND(MW−13) to 7570ppb(MW−14).

4Q04− 0.73' LNAPL detected in MW−3. BTEX from ND(MW−1,2,4,6,7,8,11,12) to 40490ppb(MW−3). MTBE from ND(MW−13) to 114000ppb(MW−3). MW−9 has 33820ppb BTEX and 699ppb MTBE.

4/27/05 Portfolio meeting− Isolated impacts from former tank mat and pump islands. Pilot for MPE conducted in 10/04, resulting in

an ROI of 15' from MW−3. 0.09' LNAPL in MW−9. Wells across Sherman are ND. Will conduct MPE pilot on MW−9.

11/9/05: Reviewed 2Q05 report dated October 3, 2005. Thirteen wells were sampled on April 12, 2005. Free product present in MW−3 (0.04 ft). Max BTEX 37930ppb (MW−9) and max MTBE 6660ppb (MW14). Hotspots located north of the pump island and west of the tanks. Contaminants present in all on site monitoring wells. Contamination increased in several wells.

11/25/05 3Q05− DTW 9.91−11.96'bgs. LNAPL detected in MW−3(0.72'). Max BTEX 30838ppb(MW−9). Max MTBE 6400ppb(MW−14).

3/16/06 Met with BP and Delta. Nick Onufrak of BP and Paul Meyer, Delta, are handling project. MPE pilot test showed good recovery but low flow (15' ROI). Delta to look into other remedial options.

4/13/06 4Q05 − DTW 10.29−12.37'bgs. 0.32' LNAPL detected in MW−3. Total BTEX ranged from ND(MW−1,2,4,7,8,12,13) to 57057ppb(MW−9). MTBE from ND(MW−13) to 11100ppb(MW−14).

6/8/2006 − Feng − project reassigned to RJFeng. (RJF)

7/27/2006 − Feng − Quarterly Monitoring Report, 1Q2006, 5/25/2006, submitted by Delta. The site is currently a gasoline station. As of sampling on 1/12/2006, groundwater depth at 9.76' to 11.66' bg and flows to north−northwest. 14 monitoring wells on and off site. W−1, BTEX ND, 22.2 ppb MTBE. W−2, 3.4 ppb BTEX, 0.84 ppb MTBE. W−3, LNAPL (0.04'). W−4, 0.25 ppb BTEX, 6 ppb MTBE. W−5, 6.8 ppb BTEX, 31.9 ppb MTBE. W−6, 0.14 ppb BTEX, 6.8 ppb MTBE. W−7, 47 ppb BTEX, 9.8 ppb MTBE. W−8, 76.7 ppb BTEX, 8.8 ppb MTBE. W−9, 35,247 ppb BTEX (857 ppb B, 14,300 ppb T, 2,690 ppb E, 17,400 ppb X), 106 ppb MTBE. W−11, 12.4 ppb BTEX, less than 1 ppb MTBE. W−12, 5.47 ppb BTEX, 1.3 ppb MTBE. W−13, 15.6 ppb BTEX, less than 1 ppb MTBE. W−14, 8,416 ppb BTEX (1,280 ppb B, 4,430 ppb T, 416 ppb E, 2,290 ppb X), 4,480 ppb MTBE. (RJF)

9/29/2006 − Feng − Portfolio meeting with BP and Delta. Delta will continue to monitor and evaluate another option for product removal, maybe sulfactant. Check 1Q2007. (RJF)

12/29/2006 − Feng − 2Q2006, 12/7/2006, by Delta. Groundwater sampled and gauged 4/3/2006. 12/14 monitoring wells were sampled. DTW 10.09' to 12.07' bg. Flows north−northeast. LNAPL in MW−3 (0.40'), and MW−9 (0.09'). MW−1, BTEX ND, 16.0 ppb MTBE. MW−2, BTEX ND, less than 1 ppb MTBE. MW−4, BTEX ND, 6.1 ppb MTBE. MW−5, 10.28 ppb BTEX, 37.4 ppb MTBE. MW−6, BTEX ND, 4 ppb MTBE. MW−7, BTEX ND, 6.3 ppb MTBE. MW−8, BTEX ND, 14.7 ppb MTBE. MW−9, 35,817 ppb BTEX, 133 ppb MTBE. MW−10, no access. MW−11, 35.8 ppb BTEX, 0.42 ppb MTBE. MW−12, 0.95 ppb BTEX, 0.52 ppb MTBE. MW−13, ND. MW−14, 3,805 ppb BTEX, 3,070 ppb MTBE. (RJF)

5/23/2007 − Feng − Sidewalk permit letter for re−installation of MW−10. (RJF)

6/15/2007 − Feng − 3Q2006, 3/22/2007. Groundwater sampled 7/28/2006. 12/14 monitoring wells were sampled. DTW 9.49' to 11.37' bg. Flows north−northeast. LNAPL in MW−3 (0.53'). MW−9, 37,940 ppb BTEX, 184 ppb MTBE. MW−14, 9,214 ppb BTEX, 8,110 ppb MTBE. The other wells are low. (RJF)

8/2/2007 − Feng − 4Q2006, 6/27/2007. Groundwater sampled 10/11/2006. 11/14 monitoring wells were sampled. DTW 9.75' to 11.76' bg. flows to north−northeast. LNAPL in MW−3 (0.30') and MW−9 (0.01'). MW−14, 19,221 ppb BTEX, 11,000 ppb MTBE. The other wells are low. (RJF)

Remedial Action Work Plan, 7/13/2007, by Delta. Delta proposed the application of surfactant, e.g. BioSolve, to remove the

product and enhanced the MNA process. Region staff has consulted with Central Office's technical support team on the matter of hydraulic control while applying surfactant.

10/10/2007 − Feng − Portfolio meeting with BP and Delta. Waiting for DEC's approval on the RAP for BioSolve application. Low recovery of MPE events. Very low transmissivity in subsurface due to the tied silty clay layer. Delta will apply the BioSolve in the MW−3 well first, then goes the one at the sidewalk. Following the sucessful LNAPL removal, geo−chemical samples for evaluation of MNA will be collected, or to evaluate for sulfate bio barrier as remedy. (RJF)

11/21/2007 − Feng − 1Q2007, 8/22/2007. Groundwater sampled 1/17/2007. 12/13/ monitoring wells were sampled. DTW 9.87' to 11.86' bg. Flows to north−northeast. LNAPL in MW−3 (0.23') and MW−9 (0.01'). BTEX range ND to 29,433 ppb (MW−9). MTBE range ND to 12,900 ppb (MW−14). (RJF)

12/12/2007 − Feng − 2Q2007, 9/4/2007. Active service station. The monitoring well network was gauged and sampled on 4/13/2007. The site is being remediate via the current operation of an LNAPL skimmer installed in monitoring well MW−3. The skimmer is being maintained on a regular basis. 13 monitoring wells were gauged. DTW 10.12' to 12.08' bg. Flows to north. LNAPL in MW−3 (0.01') and MW−9 (less than 0.01'). 12 monitoring wells were sampled. BTEX range ND to 72,540 ppb (MW−3). MTBE range ND to 59,300 ppb (MW−3). (RJF)

1/8/2008 − Feng − 3Q2007, 11/9/2007. Active service station. The monitoring well network was gauged and sampled on 7/5/2007. MW−10A was installed on 6/27/2007 as a replacement for MW−10, which was paved in 1Q2006. MW−10A was first gauged and sampled during this quarter. The site is being remediated via the current operation of an LNAPL skimmer installed in MW−3. 13/14 monitirong wells were gauged. DTW 9.81' to 11.64' bg. Flows to north. No LNAPL. 12 monitoring wells were sampled. BTEX range ND to 56,700 ppb (MW−3). MTBE range ND to 57,200 ppb (MW−3). (RJF)

3/20/2008 − Feng − eDoc Quarterly Monitoring Report 4Q2007 and 1Q2008. (RJF)

6/25/2008 − 4Q2007, 2/27/2008. Active service station. The monitoring well network was gauged and sampled 10/4/2007. The site is being remediated via the current operation of an LNAPL skimmer installed in MW−3. 14 monitoring wells were gauged. DTW 10.26' to 12.21' bg. Flows to north. LNAPL in MW−3 (0.06') and MW−9 (0.15'). 12 wells were sampled. BTEX range ND to 9,620 ppb (MW−11). MTBE range ND to 5,530 ppb (MW−11).

1Q2008, 3/10/2008. Active service station. The monitoring well network was gauged and sampled 1/29/2008. The site is being remediated via the current operation of an LNAPL skimmer installed in MW−3. 11 monitoring wells were gauged. DTW 6.12' to 12.20' bg. Flows to north−northeast. LNAPL in MW−3 (0.04') and MW−9 (0.17'). 11 wells were sampled. BTEX range ND to 332 ppb (MW−2). MTBE range ND to 49 ppb (MW−5). (RJF)

10/29/2008 − 2Q2008, 7/19/2008, by Delta. The well network was gauged and sampled on 4/23/2008. The site is being remediated via the operation of an LNAPL skimmer installed in monitoring well MW−3. 14 wells were gauged. LNAPL in MW−9 (0.08'). DTW 10.20' to 12.29' bg. Flows to north−northeast. 13 wells were sampled. BTEX range ND to 23,500 ug/L (MW−3). MTBE range ND to 19,000 ug/L (MW−3).

10/27/2008 − 3Q2008, 10/10/2008, by EnviroTrac. The monitoring well network was gauged and sampled 7/25/2008. The site is being remediated via the current operation of a LNAPL skimmer installed in monitoring well MW−3. The skimmer is being maintained on a monthly basis. 113 mL of LNAPL was recovered from MW−3 this quarter. 14 monitoring wells were gauged. LNAPL in MW−3, 0.02

feet. DTW 10.02' to 12.10' bg. Flows to north−northeast. 13 wells were sampled. MW−3 was not sampled due to LNAPL. Max benzene 2,800 ug/L (MW−14). Max BTEX 24,170 ug/L (MW−9). Max MTBE 5,700 ug/L (MW−14). (RJF)

3/4/2009 − 4Q2008, 1/5/2009, by EnviroTrac. Active BP Service Station. The site is being remediated via the current operation of a LNAPL skimmer installed in MW−3. The skimmer is being maintained on a monthly basis. During the October monitoring event, approx. 20 mL of LNAPL was recovered from MW−3 via the skimmer and hand bailing. Additionall, 150 mL of LNAPL was recovered from MW−9 via hand bailing. An absorbent sock was installed in MW−9 to assist in site remediation. The monitoring well network was gauged and sampled 10/13/2008. 14 wells were gauged. LNAPL in MW−9 (0.07'). DTW 10.10' to 12.86' bg. Flows to north−northeast. 13 wells were sampled. MW−9 was not sampled due to product. Max benzene 3,900 ug/L (MW−3). Max BTEX 35,400 ug/L (MW−3). Max MTBE 23,000 ug/L (MW−3). (RJF)

12/17/2009 − Drilling work plan, dated 9/30/2009, by Delta. Delta proposes to install two 4−inch wells close to MW−3 and MW−9 which have been had product, and one 2−inch well west to the dispensers. Work plan is approved. SHARA due 3/2010. (RJF)

3/9/2010 − email from Chris Meyer (Delta). The wells were installed on 2/2/2010 and the data are received. The quarterly sampling is scheduled for 4/2010. They want to include the water data in the investigation report and requests the SHARA to be submitted by 4/2010. (RJF)

6/8/2010 − 4Q2009, 1/14/2010, by EnviroTrac. The monitoring well network was gauged and sampled on 10/28/2009. The site is being remediated via the current ooperation of a LNAPL skimmer in monitoring well MW−3. The skimmer is being maintained on a monthly basis. 14 wells were gauged. NO LNAPL. DTW 10.17 − 12.20' bg. Flows to north−northeast. 14 wells were sampled. Max benzene 510 ug/L (MW−14). Max BTEX 12,080 ug/L (MW−9). Max MTBE 980 ug/L (MW−14).

1Q2010, 4/7/2010, by EnviroTrac. The monitoring well network was gauged and sampled on 1/26/2010. The site is being remediated via the current operation of a LNAPL skimmer in MW−3. The skimmer is being maintained on a monthly basis. 3 monitoring wells were installed in 2/2010. The wells were gauged and sampled on 2/12/2010. SHARA will be submitted in a separate cover. 17 wells were gauged. NO LNAPL. DTW 10.29 − 12.36' bg. Flows to north−northeast. 17 wells were sampled. Max benzene 4,000 ug/L (MW−16). Max BTEX 22,600 ug/L (MW−16). Max MTBE 2,200 ug/L (MW−14). The new monitoring wells MW−15, MW−16 and MW−17 show elevated contamination in the groundwater.

7/27/2010 − 2Q2010, 6/17/2010, by Delta. DTW 10.80 (MW−10A) to 11.38 (MW−1). Flows to north. NO LNAPL. Max BTEX 29,600 ug/L (MW−16). max MTBE 4,000 ug/L (MW−16).

Subsurface Hydrocarbon Assessment Report Addendum, dated 4/30/2010, by Delta. On February 2, 3, 2010, EnviroTrac advanced 3 soil borings MW−15, MW−16 and MW−17 using Geoprobe 6620 hollow stem auger and direct push, macro core sampling unit. A total of 5 soil samples were collected. MW−15 (9.5−10'), PID 475 ppm, 1,400 benzene, 6,400 toluene, 33,000 ethylbenzene, 39,400 xylenes, 80,200 BTEX, 7,500 isorpopylbenzene, 33,000 n−propylbenzene, 270,000 1,2,4−trimethylbenzene, 66,000 1,3,5−trimethylbenzene, 22,000 n−butylbenzene, 48,000 naphthalene, 538,170 total VOCs. MW−15 (12−12.5'), PID 280 ppm, 2,000 benzene, 69,000 toluene, 45,000 ethylbenzene, 114,400 xylenes, 230,000 BTEX, 7,800 isorpopylbenzene, 30,000 n−propylbenzene, 240,000 1,2,4−trimethylbenzene, 78,000 1,3,5−trimethylbenzene, 13,000 n−butylbenzene, 26,000 naphthalene, 632,510 total VOCs. MW−16 (11.5−12'), PID 29.1 ppm, 453 total VOCs. MW−16 (16.5−17'), PID 53.3 ppm, 1,000 benzene, 1,900 toluene, 2,250 xylenes, 5,500 BTEX, 300 MTBE, 6,987 total VOCs. MW−17 (12−12.5'), PID 545 ppm, 10,000 toluene, 64,000 ethylbenzene, 71,000 xylenes, 142,000 BTEX, 8,700 isorpopylbenzene, 38,000 n−propylbenzene, 260,000 1,2,4−trimethylbenzene, 77,000 1,3,5−trimethylbenzene, 16,000 n−butylbenzene, 43,000 naphthalene, 591,600 total VOCs.

Groundwater collected on 2/12/2010. MW−15, 160 benzene, 1,100 toluene, 130 ethylbenzene, 1,380 xylenes, 2,770 BTEX, 50 MTBE, 7.5J isopropylbenzene, 13 n−propylbenzene, 360 1,2,4−trimethylbenzene, 100 1,3,5−trimethylbenzene, 75 naphthalene, 3,381 total VOCs. MW−16, 4,000 benzene, 10,000 toluene, 1,200 ethylbenzene, 7,400 xylenes, 22,600 BTEX, 1,700 MTBE, 70J isopropylbenzene, 230 n−propylbenzene, 1,900 1,2,4−trimethylbenzene, 470 1,3,5−trimethylbenzene, 520 naphthalene, 27,490 total VOCs. MW−17, 41 benzene, 920 toluene, 630 ethylbenzene, 4,800 xylenes, 6,391 BTEX, 82 MTBE, 50 isopropylbenzene, 100 n−propylbenzene, 7.3J p−isopropylbenzene, 1,700 1,2,4−trimethylbenzene, 430 1,3,5−trimethylbenzene, 22J n−butylbenzene, 8.2J sec−butylbenzene, 350 naphthalene, 9,141 total VOCs.

Groundwater collected on 3/4/2010. MW−15, 150 benzene, 300 toluene, 67 ethylbenzene, 1,330 xylenes, 1,847 BTEX, 110 MTBE, 9.2 isopropylbenzene, 19 n−propylbenzene, 590 1,2,4−trimethylbenzene, 240 1,3,5−trimethylbenzene, 110 naphthalene, 2,933 total VOCs. MW−16, 3,400 benzene, 8,500 toluene, 1,100 ethylbenzene, 6,500 xylenes, 19,500 BTEX, 1,200 MTBE, 75 isopropylbenzene, 270 n−propylbenzene, 1,900 1,2,4−trimethylbenzene, 510 1,3,5−trimethylbenzene, 17J n−butylbenzene, 12J sec−butylbenzene, 490 naphthalene, 23,974 total VOCs. MW−17, 56 benzene, 1,300 toluene, 280 ethylbenzene, 6,300 xylenes, 7,396 BTEX, 87 MTBE, 33 isopropylbenzene, 57 n−propylbenzene, 8.3J p−isopropylbenzene, 2,200 1,2,4−trimethylbenzene, 600 1,3,5−trimethylbenzene, 17J n−butylbenzene, 5.6J sec−butylbenzene, 390 naphthalene, 11,334 total VOCs.

As agreed during the meeting of 6/23/2010, RAP for surfactant in the 4th quarter 2010.

8/6/10 Spill case temporarily transferred from June Feng to J.A. Maisonave. − JAM

4/11/2011 − Spill transferred back to JFeng.

6/27/2011 − received 2Q2011. eDoc. JF

9/15/2011 − 2Q2011, 6/27/2011, by Antea Group. The Groudwater samples were collected on April 4, 2011. 16 wells were sampled. MW−13 was not sampled due to dry. High BTEX 11,700 ug/L (MW−16), 4,849 ug/L (MW−9), 2,500 ug/L (MW−14). Max MTBE 5,200 ug/L (MW−16), 550 ug/L (MW−14).

11/3/2011 − 3Q2011, 9/27/2011, by Antea Group. The groundwater samples were collected on July 13, 2011. 16 wells were sampled. High BTEX and MTBE in multiple wells. MW−3, 173 ug/L BTEX, 31 ug/L MTBE. MW−9, 6,670 ug/L BTEX, 19 ug/L MTBE. MW−14, 3,880 ug/L BTEX, 1,200 ug/L MTBE. MW−15, 1,560 ug/L BTEX, 830 ug/L MTBE. MW−16, 14,700 ug/L BTEX, 5,300 ug/L MTBE.

1/11/2012 − 4Q2011, 12/29/2011, by Antea Group. The groundwater samples were collected on 10/5/2011. 17 wells. MW−3, 1,949 ug/L BTEX, 2,200 ug/L MTBe. MW−9, 8,320 ug/L BTEX, 4.5J ug/L MTBe. MW−14, 1,700 ug/L BTEX, 610 ug/L MTBE. MW−15, 2,170 ug/L BTEX, 37 ug/L MTBE. MW−16, 13,500 ug/L BTEX, 3,000 ug/L MTBE. MW−17, 275 ug/L BTEX, 1.9 ug/L MTBE.

8/16/2012 − 1Q2012, 4/30/2012, by GES. The groundwater was sampled on 1/25/2012. NO LNAPL. DTW 10.48' (MW−11) to 12.62' (MW−6) below TOC. Flows to northeast. MW−3, 4,360 BTEX, 5,400 MTBE. MW−5, 0.52 BTEX, 20 MTBE. MW−9, 11,840 BTEX, MTBE ND. MW−10A, 2 BTEX, 61 MTBE. MW−14, 3,810 BTEX, 960 MTBE. MW−15, 463 BTEX, MTBE ND. MW−16, 16,900 BTEX, 3,200 MTBE. The next sampling will be in 4/2012.

1/3/2013 − 3Q2012, 10/31/2012, by GES. The groundwater was sampled on 7/27/2012. LNAPL in MW−3 (0.02'). DTW 9.92 (MW−11) to 11.83 (MW−6). Flows to north northeast. MW−9, 8,720 BTEX. MW−15, 3,690 BTEX, 8.5 MTBE. MW−5, 5.2 BTEX, 12 MTBE. MW−16,

13,300 BTEX, 600 MTBE. MW−14, 2,010 BTEX, 1,200 MTBE. MW−17, 325.2 BTEX, 3.5 MTBE.

7/30/2013 − 4Q2012, 1/31/2013, by GES. The monitoring was done on 10/18/2012. LNAPL in MW−3 (0.09 feet) and MW−15 (Sheen). DTW 10.40 (MW−11) to 12.39 (MW−6). Flows to north−northeast. Will install absorbent socks and/or LPH passive skimmers in MW−3 and MW−15. MW−9, 6,990 BTEX. MW−15, 5,860 BTEX, 35 MTBE. MW−16, 10,090 BTEX, 2,700 MTBE. MW−14, 1,460 BTEX, 720 MTBE. MW−17, 42.95 BTEX.

1Q2013, 4/30/2013, by GES. The monitoring was done on 1/21/2013. LPH in MW−3 (0.02'). DTW 10.50 (MW−11) to 12.55 (MW−6). Flows to north. Begin LPH recovery visit in 5/2013. MW−9, 2,461 BTEX, 25 MTBE. MW−15, 1,706 BTEX, 41 MTBE. MW−3, 9,060 BTEX, 2,600 MTBE. MW−14, 1,220 BTEX, 850 MTBE. MW−16, 7,770 BTEX, 2,400 MTBE.

8/30/2013 − reviewed Feasibility Study Work Plan, dated 6/11/2013, by GES. GES proposes to do a feasibility study of SVE/AS including the SVE test, SVE/AS test (AS only, and SVE/AS combined). GES proposes to install: AS−1 onsite; AS−2, MW−18 and 3 soil borings at the sidewalk of Sherman Ave.

Spoke to Sarken Dressler of GES. DEC has concern regarding any potential vapor issue when conducting the AS only test. S. Dressler clarfified that the wells will be monitored for the concentration of VOCs and SVE shall be initiated if the VOCs rise to high level during the AS only test, and that's a general procedure. Dressler also said the soil borings are to delineate the extent of the contamination. In case the SVE/AS doesn't work, then the data will be used to evaluate the remedial alternatives such as excavation. Verbally approved the work plan.

Approval email to BP/GES. report shall be expected 11/2013.

Map Identification Number 17 **DYCKMAN AUTO SERVICES** **Spill Number: 9901562** **Close Date:**
431 W. 202ND ST MANHATTAN, NY TT−Id: 520A−0094−235

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1308 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	SAM SHATAYNER − DYCKMAN AUTO SERVICES	Spiller Phone:	(718) 729−7777
Notifier Type:	Other	Notifier Name:	JIM NEWTON	Notifier Phone:	(516) 249−3150
Caller Name:	JIM NEWTON	Caller Agency:	TYREE ENVIRONMENTAL	Caller Phone:	(516) 249−3150
DEC Investigator:	vszhune	Contact for more spill info:		Contact Person Phone:	(718) 729−7777

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/10/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

comp hired to complete tank removal, and test soil. samples tested and found to be contaminated.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
6/21/99 SPOKE WITH JIM NEWTON AT TYREE. INITIAL SOIL SAMPLES WERE CONTAMINATED. SS ASKED FOR ADDITIONAL TESTING. 7/2/99 REPORT FROM TYREE SHOWED 2 WATER SAMPLES TAKEN IN AREA OF CEMENT SLAB (GAS TANKS WERE ON). NORTH SIDE SAMPLE GOT BELOW THE SLAB AND CAME BACK RATHER CLEAN. SOUTH SIDE SAMPLE HIT REFUSAL SO A WATER SAMPLE WAS TAKEN FROM THE AREA ABOVE THE SLAB WITH CLEAN FILL OVER IT. THIS SAMPLE CAME BACK WITH SOME HIGH NUMBERS. MTBE= 58.9PPB TOLUENE= 74.3PPB m−XYLENE= 181PPB XYLENES TOTAL= 227

THESE VALUES SEEMED TOO HIGH TO CLOSE OUT, SO SS ASKED FOR 2 MORE BORINGS DONE ON THIS SOUTH SIDE, JUST BEYOND THE CEMENT SLAB AREA. IF THESE SAMPLES COME BACK CLEAN THEN JIM NEWTON IS RIGHT AND THE CONTAMINATION SHOWN ABOVE COULD HAVE COME FROM TRAPPED CONTAMINATION ABOVE THE SLAB.

1/7/2000 Environmental consultant for property owner called to find status. Owner would like to sell the lot and wanted to know what was needed to close it out. Sangesland read the above summary to the consultant. She said she would have 2 more borings drilled and tested as requested and would try to have the site closed out.

5/9/2003 Doug Rice from EDC (212−312−3750) called asking to find out status of the spill report. The site may be included in some type of development project.

12/2/2003 Transferred from Sangesland to Rommel

04/12/06 − Hough − Next Step: Determine current status of the spill with site visit. Property was potentially involved as part of property transaction.

4/1/09 − Austin − Transferred from Needs Reassignment to Zhune for further work to remediate and close − end

Map Identification Number 18 **MANHOLE 56063** **Spill Number: 0509690** **Close Date:**
W 202 ST & 9 AVE MANHATTAN, NY TT−Id: 520A−0099−686

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	ERT DESK − CON EDISON 151710	Spiller Phone:	(212) 580−8383
Notifier Type:	Other	Notifier Name:	MR CURTIS	Notifier Phone:	(212) 580−6763
Caller Name:	TOM ENRIGHT	Caller Agency:	CONED	Caller Phone:	(212) 580−6766
DEC Investigator:	JMOCONNE	Contact for more spill info:	ERT DESK‘	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/12/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1 qt of unkn oil. clean up pending lab results. no to 5 questions con ed ref # 161892.

DEC Investigator Remarks:

161892. 11/13/05 @08:10 hrs Note: the following incident was origanley in BXEDS site,and this desk was notifide that due to the fact that this manhole is in fact in Manhattan,this incident must be transferd to the E2MIS MEDS site. This has been discussed with R.Saladino ,section manager,on 11/13/05 @ 08:00 hrs via a phone conversation. And also with Bronx/Westchester EH&S Senior Specialist, L.Fischer 55784.

12−Nov−2005 15:50 hrs. Sr. Field Operator, George Justi (18598) while fault locating on feeder 1x28 in M−56063, located at W202 St 350’ e/o Ninth Ave, NY, reports finding ~ 1 qt
of unknown oil on 1000 gallons of water. No fire/smoke is/was involved. No sewers, waterways or private property were affected. No injuries were reported at this time. Crew hung environmental tag # 43154 in structure. Crew took a 2 samples for PCB & OIL ID on chain of custody (dd−13441). Clean up pending sample results. L Fischer 55784

13−Nov−2005 05:36
Lab Sequence Number: 05−11976−001. TOTAL PCB 4307 ppm

Update: 11/13/05 @ 08:15 hrs L.Fischer 55784 has informed this desk that a crew will be going to this location to add information to yellow tag 43154, that the PCB count is 4,307 This desk will be atempting to plan a clean up as soon as possable. Logger F.Curtis 38078

Note: this incident was in Bronx/Westchester site incident #161890 and this incident is now void as per L.Fischer 55784. 11/13/05 @ 09:18 hrs Logger F.Curtis 38078

UPDATE: 11/14/05 Cleanup Complete. At 04:30 D. Woods reported to the control center that the cleanup of m−56063 was completed at 03:50. 3 drums sold debris & PPE removed, 250 gal water & oil mix removed by tanker. Structure double washed with Bio−Gen 760. Environmental tag #43154 removed. Cleanup Personnel: Ed Cox (18594) Supv., S. Payne (03914), O. McGhie(85993), D. Woods (21014) Logged by: D. Gaynair 20079

Update: 11/15/05 @ 08:44 hrs. Mike Melendez #11285, UG Oper. Supervisor reported at 13:30 hrs. on 11/14/05 that this manhole was re−tagged with Environmental Spill Tag #18508 since the PCB count is 4307 ppm. Wipe samples are required for any structure with over 500 ppm PCB lab results. A. Drummings has requested dimensions of the manhole, water line and north/south orientation in order to prepare the wipe sample grid. Sampling by Chemist is pending grid diagram. R. Pellegrino #38620

Update: 11/15/05 @ 09:18 hrs. Lab Sequence Number: 05−11984−002. Oil Identification Analysis indicates the presence of a cable oil.

06/22/10 − changed Lead DEC to JMOCONNE (JOC)

Map Identification Number 19 **SHERMAN CREEK SUBSTATION TR #3** **Spill Number: 0200867** **Close Date:**
425 WEST 201 STREET MANHATTAN, NY TT−Id: 520A−0099−691

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	ENVIRONMENTAL OFFICE	Notifier Phone:	
Caller Name:	ANDREW MORRIS	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JMOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/23/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

part of remediation program ref # 142463

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"

NOTE: This is the "Master Spill Number" for Transformer #3. It is to remain open until all repairs on this equipment and remediation are completed. (JHO, 3/23/06)

~~~~~~~~~~~~~~~~~~~~~~~~~~~
Con Ed e2mis #142463 (master):

23−APR−2002 @ 12:27 Hrs.

Allen Chase, Field Operations Planner, reports during Substation inspection historic contamination was found on bluestone in/around transformer vault 3. By visual inspection the surface layer of the bluestone appears to be less than 10% stained/discolored (next to concrete pad infront of tap changer compt. southeast side). There is no active fire/smoke at this time. Release to sewer/waterway is not verified at this time. The substance is unknown, however it is likely to be identified as dielectric fluid. The quantity released is unknown, however for reporting purposes the volume has been entered as 1 gallon. The source of contamination is unknown. The cause of contamination is unknown. No private property has been affected. A station remediation plan will be prepared to determine the priority order for addressing this and other historic incidents as per SSO's letter to NYSDEC region II dated February 20, 2002. Housekeeping and maintenance activities, as required, will be documented.

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e2mis no. 147747 (sub):

02−Apr−2003 12:14
Senior Specialist C.Little 96080 reports discovering 3 oz of dielectric fluid leaking from the header pipe associated with Transformer #3N. Engineering controls in place and the bluestone will cleaned pending resources. Drip rate at 1oz per 30 minutes.

02−APR−2003 14:59
Clean up was completed by G. Butler, 04685 and B. Torres, 00780. Clean−up involved removing affected bluestone and cleaning

affected transformer parts. Additional engineering controls were put in place to prevent further release to the environment. Environmental Tag 000885 was put in place. Repairs are pending.

~~~~~~~~~~~~~~~~~~~~~~~~~~
e2mis no. 147915 (sub):

15−April−2003 14:07
Oper Superv T.Kavanah 18382 reports while performing an inspection discovered 8 oz. of dielectric fluid leaked on concrete from Tr#3 header valve. Env tag 000895 placed and engineering controls are in place consisting of pads and pans. Waitng the arrival of resources to perform cleanup and spill is contained.

16−APR−2003 06:24
UPDATE: Clean−up was completed 4/15/06 at 14:47 hrs.

05−MAY−2003 18:20
In discussion with T. Kavanah, Station Supervisor it is believed that repairs can be made without taking an outage. An update will be made once repairs are
made.

12−AUG−2005 15:46
Repair still have to be made.

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e2mis no. 148311 (sub):

11−MAY−2003 11:44
Substation Engineer T. Brunelle 04283 reports 1 gallon of dielectric fluid from TR#3 spilled onto concrete and bluestone when the cooling pump on TR#3 was being refilled during maintaince. Cleanup in progress.

~~~~~~~~~~~~~~~~~~~~~~~~~~
e2mis no. 149046 (sub):

02−July−2003 09:26hrs.
Substation Mech. Brandstetter # 16310 reports finding ~ 1/2 Gallon of transformer oil from a leaking valve onto soil and a concrete slab. Cleanup in progress. Lab sample (LSN # 98−09982) indicates 1ppm.

12−AUG−2005 15:49
Clean up was completed on 7/2 by W. Brandstetter. Marriage roll was placed uner the leak to prevent further impacts to the environment. Repairs still have to be made.

6/21/10 − changed Lead DEC to JMOCONNE (JOC)
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Map Identification Number 20 **SHERMAN CREEK SUBSTATION** **Spill Number: 0200866** **Close Date:**
425 WEST 201 STREET MANHATTAN, NY TT−Id: 520A−0099−690

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: KEVIN MCARDLE
DEC Investigator: JMOCONNE
Spiller: CON EDISON
Notifier Name: KOEHLER
Caller Agency: CON EDISON
Contact for more spill info: CALLER
Spiller Phone: (212) 580−6763
Notifier Phone:
Caller Phone: (212) 580−6763
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/23/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

part of the remediaion program. ref #142462. samples taken clean up pending.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
Con Ed e2mis #142462:

23−APR−2002 @ 12:23 Hrs.

Allen Chase, Field Operations Planner, reports during Substation inspection historic contamination was found on bluestone in/around transformer vault 4. By visual inspection the surface layer of the bluestone appears to be less than 10% stained/discolored (next to concrete pad in front of tap changer compt. southeast side). There is no active fire/smoke at this time. Release to sewer/waterway is not verified at this time. The substance is unknown, however it is likely to be identified as dielectric fluid. The quantity released is unknown, however for reporting purposes the volume has been entered as 1 gallon. The source of contamination is unknown. The cause of contamination is unknown. No private property has been affected. A station remediation plan will be prepared to determine the priority order for addressing this and other historic incidents as per SSO's letter to NYSDEC region II dated February 20, 2002. Housekeeping and maintenance activities, as required, will be documented.

C. Koehler 84220

6/21/10 − changed Lead DEC to JMOCONNE (JOC)

Map Identification Number 21 **SHERMAN CREEK SUBST − TR#6** **Spill Number: 0200790** **Close Date:**
425 201ST ST MANHATTAN, NY TT−Id: 520A−0099−695

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CON EDISON	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	CHRISTINE KOEHLER	Notifier Phone:	(212) 580−6765
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JMOCONNE	Contact for more spill info:	CHARLIE MCCARTHY	Contact Person Phone:	(212) 580−6763

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/20/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

found near transformer #6 − historical spill − con ed #142415

DEC Investigator Remarks:

NOTE: This is the "Master Spill Number" for Transformer #6. It is to remain open until all repairs on this equipment and remediation are completed. (JHO, 3/13/06)

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e2mis no. 142−415:
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20−APR−2002 @ 09:03Hrs.
Allen Chase, Field Operations Planner, reports during Substation inspection historic contamination was found on bluestone in/around transformer vault 6. By visual inspection the surface layer of the bluestone appears to be less than 10% stained/discolored (next to concrete pad primary side of transformer, north side and tap changer compartments). The substance is unknown, however it is likely to be identified as dielectric fluid. The quantity released is unknown, however for reporting purposes the volume has been entered as 1 gallon. A station remediation plan will be prepared to determine the priority order for addressing this and other historic incidents as per SSO's letter to NYSDEC region II dated February 20, 2002. Housekeeping and maintenance activities, as required, will be documented.

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e2mis no 159059

09−June−2005 07:18 Hrs
Senior Substation Operator Beresford C. D, 56562, reported finding 1−quart of dielectric fluid leaked from the breather element on the dehydrator conservator selector compartment on Transformer No. 6, Feeder 336, at the Sherman Creek Substation and spilled to concrete where the spill was contained using absorbant materials. No fire or smoke is/was involved. No sewers, waterways, or private properties affected. No injuries involved. Cleanup pending shift change.

6/21/10 − changed Lead DEC to JMOCONNE (JOC)

Map Identification Number 22 **EXCAVATION** **Spill Number: 1311717** **Close Date:**
61 POST AVE MANHATTAN, NY TT−Id: 520A−0297−275

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1540 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CASTLE OIL	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	Con Ed Unassigned	Contact for more spill info:	CONSOLIDATED EDISON, INC. ERT	Contact Person Phone:	2125808383

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/16/2014		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0.10	GALLONS	0.00	GALLONS	SOIL
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Caller Remarks:

1 Pint to soil, unknown how it happened.

DEC Investigator Remarks:

3/17/14 TJD
EMIS report uploaded to EDOCS.

Map Identification Number 23 **EXCAVATION** **Spill Number: 1311647** **Close Date:**
61 POST AVE NEW YORK, NY TT−Id: 520A−0297−268

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1540 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	Con Ed Unassigned	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2014		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0.25	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

contamination found during excavation,clean up pending lab results

DEC Investigator Remarks:

3/13/14: Mahat

Spill case is assigned to Con Ed Unassigned.

Map Identification Number 24 **ACADEMY SUBSTATION** **Spill Number: 1105649** **Close Date:**
416 WEST 201 ST MANHATTAN, NY TT−Id: 520A−0265−962

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1707 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 416 W 201ST ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: Con Ed Unassigned
Spiller: UNKNOWN
Notifier Name:
Caller Agency:
Contact for more spill info: ERT
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 580−8383

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/18/2011		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

2 oz − cleanup pending −

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 25 **VAULT 1863** **Spill Number: 1310895** **Close Date:**
SEDGWICK AVE NORTH OF WEBB BRONX, NY TT−Id: 520A−0297−760

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1738 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: SEDGWICK AVE / WEBB AVE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: Con Ed Unassigned
Spiller: JOHN − CON ED
Notifier Name:
Caller Agency:
Contact for more spill info: JOHN
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 580−6764

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/19/2014		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	10.00	GALLONS	0.00	GALLONS	

Caller Remarks:

Clean up is pending

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 26 **DYCKMAN HOUSES −NYCHA** **Spill Number: 9409078** **Close Date:**
3796 10TH AVENUE MANHATTAN, NY TT−Id: 520A−0098−351

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1873 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: 3798 10TH AVENUE
Revised zip code: 10034

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: NYC HOUSING AUTHORITY Spiller Phone: (212) 306−3142
Notifier Type: Affected Persons Notifier Name: Notifier Phone:
Caller Name: DECLAN POWER Caller Agency: ALPS MECHANICAL Caller Phone: (718) 779−8001
DEC Investigator: jkkann Contact for more spill info: Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/07/1994		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

UNKNOWN HAZARDOUS MATERIAL		HAZARDOUS MATERIAL	0	POUNDS	0	POUNDS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

CONTAMINATED SOIL FOUND DURING TANK PULL. SOIL BEING STOCKPILED − SAMPLES TAKEN FOR LAB ANALYSIS. See 9300549 and 9315476.
George Breen.

DEC Investigator Remarks:

10/3/08: Spill transferred from J. Kolleeney to J.Kann.

10/09/08: J.kann − Met with NYCHA and their consultant (Prefferred Environmental) on October 3 to discuss requirements of the site. Proposed and agreed to the installation of 5 borings (collection of gw and soil from each) and 1 additional wells (3 wells remains on site, 2 with product). Work Plan will be submitted shortly.

11/24/08: J.Kann − WP submitted on 11/19/08

5/25/12: J.Kann − assigned priority P0 to site as a part of monthly report tracking.



ACTIVE HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 27 **FEEDER 99031** **Spill Number: 9601217** **Close Date:**
SHERMAN CR−DUNWOODIE S/S MANHATTAN, NY TT−Id: 520A−0101−633

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1646 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	RICHARD ROACH − CON EDISON	Spiller Phone:	(212) 580−6764
Notifier Type:	Responsible Party	Notifier Name:	MR GONDER	Notifier Phone:	(718) 204−4441
Caller Name:	TIMOTHY SOLICH	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JMOCONNE	Contact for more spill info:	MR GONDER	Contact Person Phone:	(718) 204−4441

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/24/1996		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	525.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

THERE ARE 6 DIFFERENT LOCATIONS WHERE THE FEEDER IS LEAKING BETWEEN SHERMANCREEK SUB STATION AND THE DUNWOODIE SUB STATION WHICH ENDS ON SMART ST AND MARCO AV IN YONKERS WESTCHESTER COUNTY − THE SPILLS WHERE ASSIGNED 1 NUMBER BECAUSE THEY ARE ALL FROM THE SAME FEEDER LINE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
SECT'S 1,5,7,16,18 & 21

6/21/10 − changed Lead DEC to JMOCONNE (JOC)

09/03/2013 − sent email request to Con Edison 8/29 requesting information on feeder retirement project for the feeders (99031/99032) associated with this spill. (JOC)

THE FOLLOWING ACTIVE SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE SEARCH RADIUS FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM, OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
1401450	SHERMAN CREEK SUBSTATION	425 WEST 201ST	MANHATTAN
0911214	SHERMAN CREEK SUBSTATION	425 WEST 201ST STREET	MANHATTAN
0802137	SHERMAN CREEK S/S. 1PT. FDR 99032 (RET)	425 WEST 201 STREET. SUBSTATION	MANHATTAN
0713260	SHERMAN CREEK S/S. CAP BANK # 4	425 WEST 201 ST. SUBSTATION	MANHATTAN
0506723	SHERMAN CREEK S/S. XFMR # 4	425 WEST 201 STREET. SUBSTATION	MANHATTAN
0412305	SUBSTATION	425 W 201ST ST	MANHATTAN
0300548	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	MANHATTAN
1402469	MAN HOLE/TRANSFORMER	WEST 204 ST AND VERMILLIAN AVE	NEW YORK
1309847	SIDEWALK BY VENT / TANK ROOM	100 COOPER STREET	NEW YORK
1300122	APARTMENT BUILDING	65−67 PARK TERRACE EAST	MANHATTAN
9510775	KINGSBRIDGE BUS DEPOT−NYCT	4065 10TH AVE	MANHATTAN
1213693	APT COMPLEX	97 − 103 SEAMAN AVE	MANHATTAN
0500190	ON SIDEWALK	97−103 SEAMAN AVE	NEW YORK



CLOSED STATUS TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 28 **MOBIL** **Spill Number: 8705665** **Close Date: 12/05/2003**
296 WEST FORDHAM ROAD BRONX, NY TT−Id: 520A−0011−392

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1096 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION Spiller: MIKE MEOLA − EXXONMOBIL CORPORATION Spiller Phone: (516) 371−0964
Notifier Type: Citizen Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: DXSMITH Contact for more spill info: Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
10/05/1987		TANK FAILURE	2−156434	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

TANK FAILURE− UNKNOWN FUEL OIL, TANK IS EMPTY, WILL BE REMOVED TODAY.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
reassigned from Sullivan to Sigona on 10/30/00.

12/5/03−Vought−Reassigned from Sigona to Vought on 12/5/03. Spill closed by Vought due to open spill 0230030 at same location.

Bureau B, unassigned, due to low priority. Transferred from R−2 on April 27, 2005. Formerly R−2, unassigned

Map Identification Number 29 **GASETERIA** **Spill Number: 0230030** **Close Date: 07/26/2007**
296 WEST FORDHAM ROAD BRONX, NY TT−Id: 520A−0011−390

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1096 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	ROBERTO − GASETERIA	Spiller Phone:	(718) 782−5175
Notifier Type:	Other	Notifier Name:	BRADLEY FISHER	Notifier Phone:	(800) 477−7411
Caller Name:	JEFFREY VOUGHT	Caller Agency:	NYSDEC	Caller Phone:	(718) 482−6364
DEC Investigator:	aaobliga	Contact for more spill info:	ROBERTO	Contact Person Phone:	(718) 782−4200

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/07/2002	10/31/2006	TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER
The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
UNKNOWN PETROLEUM	UNKNOWN	0	GALLONS	0	GALLONS	

Caller Remarks:

contaminated soil and groundwater found. Delta reported spill to DEC despite Gaseteria knowledge as of 8/5/2002.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
12/5/03−Vought−See also closed Spill #8705665.

9/20/05 − oBLIGADO −Spill transferred from Vought to obligado

12/5/05 − Obligado − File review.

Baseline Assessment Report, Delta, 10/3/02. At time of assessment site was an active Gaseteria with 3 4000 gallon gasoline USTs and 1 4000 gallon diesel UST installed in 1989. Sensitiver receptor survey shows Harlem River located 375 ft west, no wells within 1 mile, Bronx Community college is located 375 ft to the southeast. 1 park 375 ft north. Commercial/residential buliding with basement 20 ft south. Ground water at 10 to 13 ft bgs and flows west. Soil is brown fine to coarse sand with gravel. Weathered rock from 7 to 11 ft bgs. Bedrock at between 2 and 11 ft. 4 soil borings advanced and 4 soil samples collected. Soil results show only one impact of 1720 ppb MTBE. 4 temporary ground water wells installed into bedrock.
Ground Water results in ppb:
(2/7/02)
MW1 − 5.67 benzene, 33.2 toluene, 10.2 ethylbenzene, 158 xylenes, 876 MTBE, 207 BTEX, 1236 VOCs
MW3 − 5.49 toluene, 11.5 xylenes, 20 BTEX, 436 MTBE, 478 VOCs
MW4 − 2.52 benzene, 6.59 xylenes, 493 MTBE, 12 BTEX, 528 VOCs
MW5 − 239 MTBE
RCRA Mettals − MW1 − 1800 ppb chromium, 7040 ppb barium, 2160 ppb lead
(8/7/05)
MW1 − 37.3 benzene, 292 MTBE, 39 BTEX, 335 VOCs
MW3 − 239 L benzene, 10.5 toluene, 6.77 ethlybenzene, 5730 MTBE, 6020 VOCs
MW4 − 19 benzene, 749 MTBE, 19 BTEX, 768 VOCs
MW5 − 208 L MTBE

UST Closure Report, AGS, January 2004. USTs, piping, dispensers removed Dec 03. Soil endpoint samples show now VOCS above SCOs. Some PAH exceedences. Ground water sample from excavation show 350 ppb benzene, 1300 ppb toluene, 200 ppb ethylbenzene, 1430 ppb xylenes, 21000 ppb MTBE, 3280 BTEX. EXcavated soil was used as backfill. Conclusions: "the operation of this site as a gasoline service station has caused impact to the subsurface soils to warrant further environmental site assessment or action. Upon completion of rebuild activities, AGS on behalf of Gaseteria will prepare a subsurface investigation workplan for NYSDEC approval which will outline additional field activities to investigate and delineate the detected contaminants."

UST Closure Report Addendum, AGS, September 2004. Remaining product supply piping under the concrete to the pump islands were removed to facilitate replacment with new BP piping. 5 soil samples were collected from 4−6 inches below the trench bottom. 1 sample was collected from under each of the four removed pump islands and 1 sample from adjacent to the Kiosk.

Soil Results in PPB:
P3 piping − 3680 xylene
P4 piping − 2100 toluene, 300000 xylene, TOTAL VOCs : 977110
P5 piping − 50000 toluene, 91000 ethylbenzene, 318000 xylenes, TOTAL VOCs : 1247000

"The data set indicates very high VOCs; however, the lack of benzene and low MTBE relative to overall concentration is not typical of gasoline. The elevated level of napthalene may indicate diesel fuel; however, no corresponding SVOC's were detected". "Upon completion of the rebuillding activities AGS will prepare a Subsurface Investigation Work Plan".

6/2/06 − Obligado − Reviewed subsurface investigation workplan. Proposes 4 monitoring wells to be installed into bedrock.

6/6/06 − Obligado − Sent email to Steve Muller approving workplan with minor adjustments to boring locations. Due date for summary report is 8/8/06.

7/19/06 − Obligado − Meeting with Gaseteria, ASR, DEC on 7/19/06. Wells have been installed at the site. Gaseteria will submit a schedule for submission of work.

9/12/06 − Obligado − Emailed multi−site stipulation agreement to Gaseteria on 9/8/06. Sent original on 9/12/06. Due date for ISR according to DEC approved Corrective Action schedule is 11/1/*06.

10/31/06 − Obligado − Multi Site Stipulation executed by Oliva on 10/31/06

12/6/06 − Obligado − Review ISR, submitted by ASR, dated 10/31/06. 3 monitoring wells installed. MW1 was to turbid for sampling. MW2 and MW3 were both nondetect. Recommended 2 additional monitoring wells. I sent an email to Steve Muller requiring Supplemental Investigation Workplan for additional monitoring wells and MW1 redevelopment submission by 1/6/07.

2/7/07 − Obligado − Review SIWP. Proposes 2 additional wells in the sidwalk west of the site and redevelopment of MW1. Approve of workplan with modification to attempt to collect soil samples via HSA and split spoons prior to switching to air rotary.

3/7/07 − Obligado − Sent sidewalk opening letter to Steve Muller.

6/1/07 − Obligado − Received ISR via email.

7/27/07 − Obligado − Final summary report submitted. 2 additional wells were installed west of down gradient of tankfield. During installation, 1 soil sample was collected for lab analysis, no VOCs detected in this sample. Ground water samples were collected. MW1 thorugh MW3 were all ND, MW4 and M5 had minor exceedences of TOGS. MW4 had 65 ppb total BTEX, MW5 had 42 total BTEX. The report requested closure due to low numbers. I had a meeting with JOe Sun to discuss this site. Agree to spill closure based on the following. 1) Relatively low concentrations, exceedences of TOGS for only 3−4 compounds in two wells. GW concentrations are significantly lower down those found in Delta baseline assessment, suggesting natural attenduation is occurring 2) No receptors immediately down gradient, immediately down gradient of the site is a major deegan expressway which is an 8 lane highway (including service roads). Downgradient of the highway, according to the ASR report are industrial/commercial buildings. 3) Sensitive receptor survey was previously completed by DElta in 2002. According to this survey, no potable wells within 1 mile. Nearest surface water body is harlem river, 375 ft west of the site. However, due to small size and very low concentrations of contamination in gw, plume eminating from this site most likely will not reach or impact this river. There is a residential building with basement to the south, however, southern most well MW1 was ND so plume does not pose a risk in this dieection. The Data from this site do not indicate potential adverse impacts to human health and the environment. This spill is closed. I emailed an NFA letter to Gaseteria.

Map Identification Number 30 **GASETERIA** **Spill Number: 0230037** **Close Date: 12/08/2005**
205 WEST FORDHAM ROAD BRONX, NY TT−Id: 520A−0007−569

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1563 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Other
Caller Name: JEFFREY VOUGHT
DEC Investigator: aaobliga

Spiller: ROBERTO − GASETERIA
Notifier Name: BRADLEY FISHER
Caller Agency: NYSDEC
Contact for more spill info: ROBERTO

Spiller Phone: (718) 782−5175
Notifier Phone: (800) 477−7411
Caller Phone: (718) 482−6364
Contact Person Phone: (718) 782−4200

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/07/2002		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER
The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
UNKNOWN PETROLEUM	UNKNOWN	0	GALLONS	0	GALLONS	

Caller Remarks:

Contaminated soi found. Data reported to DEC despite knowledge by Gaseteria since 8/5/2002.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"

SPILL TRANSFERRED FROM VOUGHT TO OBLIGADO

10/21/05 − Obligado − Baseline Acquisition Assessment Report− (1/10/03), submitted by Delta. In 1/02, 5 soil borings advanced by Whitestone Associates to between 7 and 22 ft bgs. 5 soil samples collected. Only one exceedence for xylene at 1910 ppb. Soil results show total VOC from 30 ppb in SB5 (20−22') to 4194 ppb in SB3(5−7'). Total SVOCs 1991 ppb, no exeedences. No metals exceedences. Delta plans to collect ground water samples once surrounding fence has been demolished so there is acccess for drill rig.

10/21/05 − Obligado − Email correspondence to Brad Fisher asking if ground water samples ever collected.

10/26/05 − Obligado − Email from Brad Fisher. BP put development plans on hold. No plans in the near future to bring drill rig to site to collect ground water samples.

11/3/05 − Obligado − Send Email to Tomasello inquiring if ASR has done any work at the site. If USTs have been removed.

12/7/05 − Obligado − Meeting with DEC, ASR, Gaseteria. Grant NFA, send letter 12/8/05.

Map Identification Number 31 **KINGSBRIDGE BUS DEPOT** **Spill Number: 0405531** **Close Date: 09/15/2004**
212TH ST AT BROADWAY NYC, NY TT−Id: 520A−0102−222

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1646 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: W 212TH ST / BROADWAY
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JOSEPHINE BROWN − KINGS BRIDGE BUS DEPOT	Spiller Phone: (718) 243−4581
Notifier Type:	Responsible Party	Notifier Name:	GREGORY BEILAS	Notifier Phone: (718) 243−7589
Caller Name:	DOREEN BOATSWAIN	Caller Agency:	NYC TRANSIT	Caller Phone: (718) 243−4891
DEC Investigator:	MCTIBBE	Contact for more spill info:	JOSEPHINE BROWN	Contact Person Phone: (718) 243−4581

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/19/2004		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Clean up in process by NYCtransit employees.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
refer to 04−05540

Map Identification Number 32 **85−87 VERMILYEA AVE** **Spill Number: 9303264** **Close Date: 06/11/1993**
85−87 VERMILYEA AVE MANHATTAN, NY TT−Id: 520A−0098−366

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1766 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN Spiller: RAYMOND SUPERINTENDENT Spiller Phone: (212) 567−1429
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: PAT GERAGHTY Caller Agency: CASTLE OIL CORP Caller Phone: (718) 823−8800
DEC Investigator: KSTANG Contact for more spill info: Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/11/1993	06/11/1993	TANK FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	7.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

THEY WANTED 200 GAL−DRIER DELIV. 5 GAL AND TANK OVERFIELLED−CREW WILL BE CLEANING UP − ABSORBENT− SPEEDI DRI − SPOKE TO THE SON OF THE BUILDING SUPER SAID THAT IT WAS ONLY A SMALL SPILL 5 GAL.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG."

Map Identification Number 33 **BROADWAY & 207TH ST** **Spill Number: 9812706** **Close Date: 11/12/2003**
207TH ST & BROADWAY MANHATTAN, NY TT−Id: 520A−0094−274

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1809 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: BROADWAY / W 207TH ST
Revised zip code: 10034

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	NEW YORK TRANSIT AUTH	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	SANJIV KURAY	Notifier Phone:	(718) 243−4581
Caller Name:	SANJIV KURAY	Caller Agency:	NEW YORK CITY TRANSIT AUT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	SANJIV KURAY	Contact Person Phone:	(718) 243−4581

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/15/1999		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

fuel tank ruptured on bus − fire dept on scene − spill contained with pads

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
3−3−03: Closed Due To The Nature / Extent Of The Spill Report.Transfered From Tomasello To Tibbe On 11/12/03.Spill From A Ruptured Tank On A Bus. Small Amount Entered Sewer. Dep Notified. Contained And Cleaned By Nyct.

Map Identification Number 34 **2445 SEDGWICK AVE** **Spill Number: 9303142** **Close Date: 02/27/2003**
2445 SEDGWICK AVE BRONX, NY TT−Id: 520A−0011−587

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1924 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	J.R. TUSANEZA AGENT	Spiller Phone:	(914) 969−0099
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	ROMERO SANTOS	Caller Agency:	TANK TESTING INC.	Caller Phone:	(718) 789−3770
DEC Investigator:	TOMASELLO	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/28/1993		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	2300	GALLONS	0	GALLONS	SOIL

Caller Remarks:

TANK TO BE ABANDONED AT SITE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 35 **CUNY− BRONX COLLEGE** **Spill Number: 0409356** **Close Date: 04/17/2007**
WEST 181 STREET/UNIVERSIT BRONX, NY TT−Id: 520A−0011−364

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2002 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: BRONX COMMUNITY COLLEGE
Revised zip code: 10453

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Other
Caller Name: RANDY WAIBEL
DEC Investigator: HRPATEL
Spiller: MARTIN PULVER − CUNY− BRONX COLLEGE
Notifier Name: RANDY WAIBEL
Caller Agency: OBRIEN & GERE
Contact for more spill info: MARTIN PULVER
Spiller Phone: (718) 289−5555
Notifier Phone: (315) 437−6100
Caller Phone: (315) 437−6100
Contact Person Phone: (718) 289−5555

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/19/2004		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

Tipple conducted site visit. Letter sent outlining requirements for cleanup.

12/24/04 Letter from O'Brien & Gere indicaing the cleanup/ investigation will proceed, no start date is noted.

12/19/05 Feroze. Spill is transferred from Ketani to .
12/28/05. Mr. Martin pulver is called and a message is left for him to inform DEC the present status of that situation. A letter is sent to O'BRIEN & GERE to inform DEC about their actions to clean up debris, old tank and to close the old tank.

02/09/06. Feroze. Called O'brien & Gere and left a message them.
02/24/06 Feroze, Talked with Mr. Martin Pulver 718−289−5555, he said that he would talk with O'Brian and Gere that worked on that site. He will inform DEC about remediation actions.
03/15/06. Spill is transferred from Feroze to Kumer Patel.

04/06/06−Hiralkumar Patel. Called at O'Brien & Gere. Randy is no longer working at this company. Left message for Scott Scheidelnan, who is handling now.

04/17/06−Hiralkumar Patel. Spoke with Scott and he gave me number of Mr. Dipasca, who can tell that who is handling this case, as he was handling previously.
Mr. Dipasca
(732) 225−7380 Ext.
Spoke with Peter Dipasca at Edison office of Obrien & Gere. he told me that Randy Waibel was handling this case previously and was working in Syracus office of NJ. Peter is new to the company and only thing he has the letter that Randy sent out to Mike Tipple at DEC. Peter has sent out copy of this letter to Feroze. now Peter is not handling this matter and Michael Spath from University of NY is handling themselves. asked Peter to get file from Syracus office as he doesn't know that what kind of work done after spill reported.

Michael Spath
CUNY Environmental Compliance Manager
535 East 80th Street
5th Floor
New York, NY 10021
Ph.: (212) 794 − 5590
Email: Michael.Spath@mail.cuny.edu

PBS #: 2−107204. as per PBS records, site has 13 in service tanks and 4 closed−in place tanks.
* 13 in service tanks
* 4 closed in place tanks
* 7 USTs
* 4 closed in place tanks are AST in concrete vault.

* total capacity of tanks on site is 113855 gal.
* 11 tanks are in use to store #2 fuel oil
* 1 AST (700 gal) is in use to store Diesel
* 1 UST (1000 gal) is in use to store Gasoline.
* 4 closed−in place tanks are AST of 15,000 gal capacity each were in use to store #6 fuel oil.
* all USTs currently in use are due for tank test.

Tried phone number on PBS records for Person name Manny Ballen, but he is no longer working and operator transfer me to power plant. spoke with Anthony Johnson and he told me that Chief Engineers left for the Day. i can contact them tomorrow after 9 O'clock.
Chief Engineer: Michael Dillon & Tyrone Fleming (718) 289−5258.

Left message for Michael Spath. Received call from Mr. Spath and as per him Woodard and Currn Engineering is handling environmental problem at site. some one from this company will call me during week. as per his records, they have done tank test and sent test result to Benjamin Conlon at DEC. he will send copies throug email again.

04/18/06−Hiralkumar Patel. REceived email from Mr. Spath with report. report included tank test results of six tanks only. among these six tanks, 4 tanks of 25,000 gal capacity storing #2 fuel oil, one tank is 1,000 gal capacity storing #2 fuel oil and one tank of 1,000 gal capacity stroing gasoline. this report doesn't include seventh tank of 10,000 gal capacity storing #2 fuel oil. send out email to Mr. Spath requesting information about this seventh tank and contact information about person who is handling environmental matter for university.

04/19/06−Hiralkumar Patel. Received call from Jack O'Neill, who is handling cleaning activities of tanks at site. as per him, they are planning to abondened the four ASTs that are currently not in use. these tanks were in use to store #6 fuel oil and tanks are in concrete vaults. Jack will open vault and clean it. if he finds any cracks on floor or any abnormal situation, he will notify the Department. i also asked him about seventh UST whose tank test data is not available. he will find it and call back.

05/05/06−Hiralkumar Patel. Received email from Michael Spath. the seventh UST was installed in 2002, so its due to tank test in 2007. as i was looking in tank test results that Mr. Spath send me before, found that the tests were done on 09/14/2004. but the tank test failure reported on 11/19/2004. send eamil to clarify this and to send if he has any new test results.

05/16/06−Hiralkumar Patel. Resend email to Mr. Spath. Received email from Mr. Spath. currently he is out of town. will contact soon.

06/05/06−Hiralkumar Patel. Resend email to Mr. Spath.
06/06/06−Hiralkumar Patel. Received email from Mr. Spath. he is looking for the tank which had leak in it.

Received another email from Mr. Spath stating that the tank, which was reported leaking, is one of four #6 tanks at Bliss Hall. Woodard & Curran Engineering is working on work plan to premanently closing these tanks.

Send email to Mr. Spath to find out which tank had problem and details about work done to correct this leaking tank.

08/14/06−Hiralkumar Patel. spoke with Mr. Spath. they are in process of hiring contractor to abandon four previously closed ASTs.

asked Mr. Spath to test each tanks at location whose bottom is unvisible. he will call once he gets contractor.

11/27/06−Hiralkumar Patel. visited site. met Tyrone Fleming (718−289−5258), facility supervisor at university. as per Mr. Fleming, none of the active tanks has any problem. but there is oil spill from one of four 15000 gal "Closed−In Place" tanks. these tanks are located in Bliss Hall in concrete vault. this vault was in use as Coal storage in past and then they converted this storage into tank vault. spoke with Mike at facility. Mike was in this vault couple of months ago and he noticed oil inside vault. as per Mike, these tanks are out of service since 1984 and oil level readings in all these four tanks are constant since then. these tanks were in use to store #6 oil. from these four tanks, tank #2 has about 60% of oil and remaining three tanks has about 9" of product/sludge in it. all tanks are off−ground on legs. all lines to & from tank are aboveground. Mike hasn't noticed any oil leaking from any tank at time of his observation in tank vault. Mike mentioned that floor was not solid concrete when tanks were installed and he believed some oil may hit ground. Mike believe this oil spill may happened before 1984. spoke with Mr. Spath. they are in process of hiring contractor for spill cleanup and tank abandonment. asked Mr. Spath to call the Department with Contractor's name and number once they finalize it.

sent out letter to Mr. Spath requiring endpoint sampling. letter emailed to Mr. Spath.

12/13/06−Hiralkumar Patel. received message from Ms. Hundley. spoke with Ms. Hundley. she asked copy of emails from Mr. Spath. she will be futher contact on this case. they hired O'Brian & Gere for further cleanup and will send final report at end of work.

Esther Hundley
Safety Officer
City Uuiversity of NY (CUNY)
555 w 57th Street
10th Floor
New York, NY 10019
Ph.: (212) 541−0430
Email: esther.hundley@mail.cuny.edu

forwarded all emails that i received from Mr. Spath. sent copy of CSL to Ms. Hundley in email.
email sent to Ms. Hundley came back undelivered. left message for Ms. Hundley.
received call from Ms. Hundley. she gave current email address. sent email again to Ms. Hundley.

01/09/07−Hiralkumar Patel. left message for Ms. Hundley to provide contractor's info who will going to do required soil investigation.
received call from Ms. Hundley. they have hired O'Brien & Gere and under them, AB Environmental working at site. AB environment visited site last week and took some sample from product inside tank. they are planning to remove product from tanks on 01/16/07 and after removing tank, will do geoprobe to find any contamination.

02/14/07−Hiralkumar Patel. received call from Ms. Hundley. they finished removing sludge from three tanks out of four. fourth tank had about 10000 gal #6 oil in it and contractor is removing it currently. as per Mr. Hundley, tanks are sitting on cement floor inside concrete vault. as per her, vault floor is solid and if there was any oil spilled inside tank vault was contained at that time. once they remove oil from fourth tank, they will powerwash all four tanks. asked Ms. Hundley to submit report with condition of tank vault.

03/01/07−Hiralkumar Patel. received call from Ms. Hundley. she asked about requirement of cleaning lines of #6 oil tank. she mentioned that as per PBS regulations, lines must be free of oil/sludge. but as these lines were out of service for last 20 years, #6 oil got solidified in it and now it is very hard to removed from lines. discussed with DEC Jacob. he suggest to cap off these lines without any cleaning as it has #6 oil which has solidified. asked Ms. Hundley to cap off these lines without cleanint it.

03/13/07−Hiralkumar Patel. received call from Ms. Hundley. she asked whether she has to re−register #6 tanks which were closed 20 years ago. she asked because they cleaned out tanks now and closed these properly. told Ms. Hundley that as tanks were out of service for last 20 years, may not requires re−registration, but will call back once check with DEC Jacob.

04/17/07−Hiralkumar Patel. received tank closure report. based on available reports and informations, case closed.

NFA sent to Ms. Hundley. letter emailed to Ms. Hundley.

tank test result copy that i had from Mr. Spath, i gave that to Brian to update tank test date in PBS Record.

Map Identification Number 36 **FORHDHAM HILL** **Spill Number: 0700673** **Close Date: 05/18/2007**
1 FORDHAM HILL OVAL BRONX, NY TT−Id: 520A−0013−400

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2090 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10468

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Fire Department
Caller Name:
DEC Investigator: jbvought

Spiller: FIREFIGHTER MORRIS − HOUSING COMPLEX
Notifier Name:
Caller Agency:
Contact for more spill info: FIREFIGHTER MORRIS

Spiller Phone: (347) 203−6886
Notifier Phone:
Caller Phone:
Contact Person Phone: (347) 203−6886

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/18/2007		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	25.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

IN BASEMENT AND SOME GOING INTO STORM DRAIN: FIRE DEPT ON WAY

DEC Investigator Remarks:

04/18/07−Vought−Off hours responder. Vought responded to site and FDNY 19th Battalion (Captain Roach 718−430−0219) onsite. Spill occurred when #4 fuel oil was being transferred from one 25000−gallon #4 fuel oil UST to another. Spill was discovered at 5am. Spill inside building coming out of entry port of supply return lines into wall. Concrete in good condition in boiler room however sump affected. DEC notified by FDNY and arriving on−site. No odor complaints received to date. Site maintenance director is Gildardo Arvelaez (718−365−9659) and owner of site is Fordham Hill (Everton Moore 718−365−9600). Oil came out of AST manway flowed down soil hill and impacted sewer. As per petrometer, 4300 gallons in North tank and 20000 gallons in South Tank. Unable to determine spill amount as petrometers may not be working correctly. Spill amount approximated at 300−gallons. Eastmond arrived onsite and began cleanup. Eastmond hired by Fordham Hill.

DEC requires: 1)submission of Eastmond invoices 2)collection of endpoint soil samples 3)petrometer repair replacement.

Vought sent letter with above requirements and one month due date to owners as per PBS:

Fordham Hill Owners
1 Fordham Hill Oval
Bronx, NY 10468
Ph: 718−365−9600
Fax: 718−733−0472

05/18/07−Vought−Office visit by Gildardo Arvelaez who provided endpoint soil analyticals from Eastmond (eight soil samples were collected and showed no TAGM 4046 Soil Cleanup Objective Exceedences and provided letter from Fordam Hill stating that two new petrometers were installed. Arvelaez also provided invoices from Eastmond that included pressure washing of basement and cleaning of three sump pits. Spill closed by Vought and NFA provided to Arvelaez.

Map Identification Number 37 **PUBLIC SCHOOL 15** **Spill Number: 0013233** **Close Date: 05/27/2004**
2195 ANDREWS AVE BRONX, NY TT−Id: 520A−0011−388

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2159 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2195 ANDREWS AVE N
Revised zip code: 10453

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	BRONX COMM COLLEGE	Spiller Phone:	
Notifier Type:	Federal Government	Notifier Name:		Notifier Phone:	
Caller Name:	OPER 156	Caller Agency:	DEP	Caller Phone:	(718) 595−6777
DEC Investigator:	TJDEMEO	Contact for more spill info:	MR SINGER	Contact Person Phone:	(718) 584−5185

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/16/2001		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

leak from tank at college is leaking into public schools play yard and then into a basement that leads to a catch basin. no further information

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
12/10/03 TJD

Same as spill 0013188. Spill closed and cross referenced.

Map Identification Number 38 **ECR REALTY** **Spill Number: 9811009** **Close Date: 05/06/2005**
2326 LORING PLACE BRONX, NY TT−Id: 520A−0011−382

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2189 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: 2326 LORING PL N
Revised zip code: 10453

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	MITCH − ECR REALTY	Spiller Phone:	(212) 889−4406
Notifier Type:	Other	Notifier Name:	ISAAC MUNGRA	Notifier Phone:	(718) 624−4842
Caller Name:	ISAAC MUNGRA	Caller Agency:	PETROLEUM TANK CLEANERS	Caller Phone:	(718) 624−4842
DEC Investigator:	SMSANGES	Contact for more spill info:	MITCH	Contact Person Phone:	(212) 889−4406

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/02/1998		TANK FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SPILL CREW DISPATCHED FOR CLEAN UP AND PUMPING OUT TANK−TEMPORARY TANK TO BE INSTALLED.

DEC Investigator Remarks:

5/6/2005 Sangesland received a submittal from Frank Claro (Owner's Rep) of Loring PL LLC (718−664−6600). Submittal shows that Abilene Heating Group removed the 4,000 gal tank in Nov 1999 and replaced it with a new 3,000 gal tank. This new tank has been pressure tested & passed. Photographs of the new tank and the basement area show the site is clean and in proper working order.
Spill Closed − 5/6/2005

Map Identification Number 39 **RESIDENTIAL APT COMPLEX** **Spill Number: 9607064** **Close Date: 04/26/2004**
4861 BROADWAY MANHATTAN, NY TT−Id: 520A−0094−264

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2312 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING Spiller: JOHN AMINSAO − RESIDENTIAL APT COMPLEX Spiller Phone: (212) 265−2280
Notifier Type: Other Notifier Name: FIELD CREWS Notifier Phone:
Caller Name: JED MEYERS Caller Agency: PHOENIX ENVIRONMENTAL Caller Phone: (516) 864−4200
DEC Investigator: SMSANGES Contact for more spill info: Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/01/1996		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	50.00	GALLONS	50.00	GALLONS	SOIL

Caller Remarks:

tank had a leak in it over the weekend and spill went into the basement of apartment complex

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
3/5/2004 Spill switched from Mulqueen to Sangesland

Sangesland spoke to Mark at PTC about closing out the spill. The building now has a new owner and there are no records of the cleanup from 1996. At that time there was a 7,500 gal tank which leaked. This tank was removed and a new 9,000 gal AST tank was built in this room.

To close out this spill number, PTC was directed to drill several soil borings in the floor to look for contamination. If these borings are clean, then PTC will put together a report with results along with photos and a request for closure.

3/16/2004 Ray (PTC) asked if contamination was found in the borings would a new spill number be required? Sangesland said no just an update to this old spill number would be required.

4/26/2004 Sangesland reviewed a soil sampling report submitted by Action Remediation (Kevin O'Connor) 516−781−3000. Report shows photos of the new tank, 8 soil boring locations around the tank and VOC/SVOC results from 2 soil samples. All results came back below TAGM. Spill Closed

Map Identification Number 40 **KINGSBRIDGE BUS DEPOT** **Spill Number: 9812375** **Close Date: 01/30/2004**
4056 10TH AVE MANHATTAN, NY TT−Id: 520A−0094−307

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2317 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	CALLER − KINGS BRIDGE BUS DEPO	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	ERIC JONES	Caller Agency:	NYC TRANSIT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/06/1999		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER CLOSED TANK AND FOUND CONTAMINATION IN SOIL.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
refer to 9510775.

Map Identification Number 41 **SHELTERING ARMS** **Spill Number: 0308539** **Close Date: 03/14/2007**
2207 UNIVERSITY AVE BRONX, NY TT−Id: 520A−0011−366

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2484 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2207 DR MARTIN LUTHER KING JR BLVD
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	CALLER − SHELTERING ARMS	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	JOSHLYN PERRY	Caller Agency:	CITIZEN	Caller Phone:	(718) 933−1582
DEC Investigator:	qxabidi	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/11/2003		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

LEAKING U/G TANK. WALL IN BASEMENT STAINED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
11/14/03 tipple left 2 messages foe Joshylin Perry. suggested that she call their insurance co to see if they would assist in the cleanup// Petro changed leaking line and what now remains is contaminated soil.

Sangesland sent a contaminated soil letter to Joshlyn Perry

05/24/06: This spill is transferred from Mr. Koon Tang to Q.Abidi.

11/01/06: Called Ms. Joshlyn Perry (718)933−1582 nobody answering the phone.

02/08/07: Called Mr. Rodger Reirsen, Consultant (Geotrans Company) at (908)534−2303 to discuss regarding this spill. He said This spill occurred due to tank failure, Sheltering Arms hired his company. But Geotrans hired North East Environmental Company, New York to pull the tank. When tank was pulled by North East Environmental Company. Geotrans checked and did not found any product to excavate. Mr. Rodger Riersen will fax me all the documents including soil sample report to close the spill. −QA

02/16/07: Called Mr. Rodger Riersen (Geotrans) at (908)534−2303 he was not in the office. Left message to call me back regarding spill.
Discussed with Mr. Rodger Riersen regarding spill to make borings around the tank, to evaluate contamination of soil. −QA

03/01/07: Talked to Mr. Roger Riersen (impact Environmental) to find out the contact number of Petro Co. to clear this point where they have changed the line and where they have found the soil contamination. Also asked that to send diagram showing fill port to tank and tank to boiler. These thing should be cleared, Impact Environmental has to do borings around that to confim the soil contamination. −QA

03/01/07: Called Mr. Roger Riersen to dicuss regarding soil contamination and to find out the contact number of Petro Co. Where they change the line and where they found the soil contamination. Mr. Roger will be available on monday March 5, 2007. I left message to call me back to discuss regarding this spill. −QA

03/14/07: Received a package from Mr. Roger Riersen, staff Geologist (GeoTrans, Inc.)on March 14. Reviewed the report based on his discussion with Mr.Reiner Ober, it is likely that historical references to contaminated soil were due to assumptions that were never confirmed by direct observation or laboratory analysis. Petro was never contracted to remove the pipeline and therefore no confirmation of the contaminated soil was ever conducted prior to tank removal activities. Furthermore, no contaminated soil was observed during the removal of the UST and associated pipes on January 10, 2007.
GeoTrans inspected the area on March 6, 2007, demonstrates that the former leaking pipe ran through the basement stairwell and no petroleum or soil is present on the exterior wall or foundation where the former leaking pipe was located. On the basis of information provided by GeoTrans and by the approval of Mr. Jon Kolleeny (Supervisor) this spill is closed. −QA



CLOSED STATUS TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 42 **HESS/MERIT SERVICE STATIO** **Spill Number: 9706124** **Close Date: 06/30/2004**
401 WEST 207TH STREET MANHATTAN, NY TT−Id: 520A−0092−432

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Tank Tester
Caller Name: JERRY KASPAR
DEC Investigator: WXSUN

Spiller: SAME − HESS/MERIT OIL CORP
Notifier Name: STEVE BROGAN
Caller Agency: CROMPCO CORP
Contact for more spill info: ANDY FORD

Spiller Phone:
Notifier Phone: (610) 278−7203
Caller Phone: (800) 646−3161
Contact Person Phone: (215) 527−7900

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/20/1997		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
046−047	4000	USTest 2000/P/LL plus USTest 2000/U	0.00	UNKNOWN

Caller Remarks:

CALLER STATES BOTH TANKS FAILED TEST.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"
PRIMARY SPILL NUMBER FOR THIS SITE:

(Ref: 9516087, 9504685, 0010612)

12/9/2003 Reassigned from O'Dowd to Sun.

06/30/04

Site tracked under spill 0201957. See 0201957 for site status. Rommel

Map Identification Number 43 **HARLEM RIVER BRIDGE − DDC** **Spill Number: 0104067** **Close Date: 12/18/2007**
300 WEST 206TH ST MANHATTAN, NY TT−Id: 520A−0091−241

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 448 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	NYC DOT	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:	JOHN LEDDY	Caller Agency:	PROTEST ENTERPRISES	Caller Phone:	(631) 321−4670
DEC Investigator:	AXDORONO	Contact for more spill info:	LUCILLE FITZGERALD	Contact Person Phone:	(516) 485−0000

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/17/2001		TANK TEST FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	3000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

gross failure.

DEC Investigator Remarks:

06/14/2007: This spill case was transferred to A. Doronova. AD

06/19/2007: Reviewed Tank Closure report. It states that:
On July 16, 2003 one 3,000 gallon fuel oil UST was permanently abandoned in−place at the Harlem River Bridge site. It is DDC site. Visual inspection of the tank reveled no evidence of leakage. Since the tank was closed in place, post tank closure soil samples were not collected. However four soil borings, SB−01 through SB−04, were performed adjacent to UST on August 11, 2003. Analytical results of sampling revealed the presence of residual concentrations of VOCs in two of the four samples and SVOCs in one of the four samples, all at concentrations below ASCs (Allowable Soil Concentration). Based on the data consultant (Shaw) requested NFA for this spill.

In lab data method detection limit is elevated and varies all the time for the same compound depending of the soil boring. Have to ask J. Kolleeny. AD

Sent an email to A. Samani (DDC) with the request for additional soil and groundwater investigation in the vicinity of the closed in−place fuel oil UST. (cc: J. Kolleeny; T. Ahmad; J. Staten and H. Roberts). AD

09/17/2007: Received Additional Site Subsurface Investigation Work Plan dated September 17, 2007, submitted by URS. The plan proposes installation of two monitoring wells on the eastern and western sides of abandoned in−place UST. It states that monitoring wells cannot be installed north and south of the USt, because West 206th Street and a existing building located immediately north and south of the UST. URC proposes to collect soil and groundwater samples and analyze them for VOCs and SVOCs. Monitoring wells also will be surveyed for location and elevation.
According to the Tank Closure Report, submitted by Shaw earlier, four soil borings were advanced around the fuel oil UST for collecting end−point samples. Soil samples from borings on the northern and southern sides of the UST indicated elevated concentrations of SVOCs. This data indicates, that installation of monitoring wells to the north and south of UST is feasible. Have to speak to J. Staten of URS. AD

09/27/2007: Spoke with J. Staten regarding feasibility of installation of the wells on the northern and southern sides of UST. She said that it involves obtaining a street permit, traffic plan and other procedures. I asked, if it possible to relocate MW−01 close to the UST. I sent a Figure 3 with indication of new location of MW−01 to Jane by fax. AD

12/17/2007: Received Field Investigation Summary and Request for Spill Closure from URS. The summary states that on October 16, 2007 two monitoring wells were installed at the approved locations. Two soil samples were collected from each well borehole at 3

to 5 feet bgs and 7 to 9 feet bgs. The analytical data indicated presence of trace levels of VOCs and SVOCs at concentrations below TAGM #4046 soil guidance values. On November 14, 2007, groundwater samples were collected from wells MW−01 and MW−02. According to labresults, presence of any VOCs or SVOCs were not detected in the sampled groundwater. Based on the data, URS recommended closure of the spill case. AD

12/18/2007: Spoke with J. Kolleeny regarding this site. Sent a No Further Action letter to A. Samani (cc: J.Kolleeny; M.Asbagh; H.Roberts and J.Staten). PDF version is in eDocs. AD

Map Identification Number 44 **3961 TENTH AVE/SHELL SERV** **Spill Number: 8708221** **Close Date: 06/27/1995**
3961 TENTH AVE NEW YORK CITY, NY TT−Id: 520A−0098−337

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3961 10TH AVE
Revised zip code: 10034

Source of Spill:	GASOLINE STATION	Spiller:	SHELL SERVICE STATION	Spiller Phone:	(516) 938−8686
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:	MICHAEL GROUT	Caller Agency:	GAS SERVICES	Caller Phone:	(212) 792−4300
DEC Investigator:	MMMULQUE	Contact for more spill info:		Contact Person Phone:	

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
12/22/1987	06/27/1995	TANK TEST FAILURE	2−190853	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

(3) 4K TANKS FAILED, 1ST SUPER UNLEADED WITH LEAK RATE OF 1.0GPH, 2ND REGULAR UNLEADED WITH LEAK RATE OF 4GPH, 3RD REGULAR

GASOLINE FAILED WITH A LEAK RATE OF 1.0GPH. SEE ALSO 9301145.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"
/ / : WAS A TOMASELLO SPILL. REASSIGNED 4/18/95 TO MULQUEEN. SHELL ADDRESSING SITE PROBLEM SEE FILE. SEE ALSO 93−01145.

06/27/95: WAS TOMASELLO SPILL,REASSIGNED 4/18/95 TO MULQUEEN. SHELL ADDRESSING SITE PROBLEM SEE FILE. SEE ALSO 93−01145.

Map Identification Number 45 **NYC TRANSIT AUTHORITY** **Spill Number: 0204997** **Close Date: 03/30/2004**
207TH ST YARD MANHATTAN, NY TT−Id: 520A−0098−335

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: MOLLY DUNHAM − NYC TRANSIT AUTHORITY Spiller Phone: (718) 243−8644
Notifier Type: Tank Tester Notifier Name: SAME Notifier Phone:
Caller Name: PAUL LOSQUADRO Caller Agency: FENLEY & NICOL Caller Phone: (631) 586−4900 ext. 1
DEC Investigator: MCTIBBE Contact for more spill info: PAUL LOSQUADRO Contact Person Phone: (631) 586−4900 ext. 1

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/08/2002		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
4	35000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

TANK TEST FAILURE AT ABOVE LOCATION. CALLER WILL CONTACT REGIONAL OFFICE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
refer to 02−02959.

Map Identification Number 46 **COMMERCIAL BLDG** **Spill Number: 0509515** **Close Date: 08/16/2006**
513 W. 207TH ST. NEW YORK, NY TT−Id: 520A−0098−354

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 791 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	MARLON JOSEPH − COMMERCIAL BLDG	Spiller Phone:	(646) 772−7949
Notifier Type:	Tank Tester	Notifier Name:	MARLON JOSEPH	Notifier Phone:	(646) 772−7949
Caller Name:	MARLON JOSEPH	Caller Agency:	PETROLIUM TANK CLEANERS	Caller Phone:	(646) 772−7949
DEC Investigator:	rvketani	Contact for more spill info:	MARLON JOSEPH	Contact Person Phone:	(646) 772−7949

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/08/2005		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	3000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

System test was done in October 2005 and failed. Tank was then evacuated and the holes in the line were plugged. A tank test was done today and it failed again. Now they are looking for a new tank and abandon the old one. (No release)

DEC Investigator Remarks:

PBS 2−289647

Need to send a TTF letter

Nov. 25, 2005
A "Tank Test Failure Letter" was sent to:

Mr. Walter Delgado
Audubon Partnershipp for Economic Devel
513 West 207th Street
New York, NY 10034

05/17/06−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin.

6/22/06 − Raphael Ketani. I called up Joe at PTC (718) 624−4842. He said that this is an old case (spill happened 11/8/05) and that he will have Diana call me back. The tank is 2000 gal., contained #2 fuel oil, and is listed as in service.

7/5/06 − Raphael Ketani. I reached Diana. She gave me the phone number to Audubon (212) 544−2400. She said that they had a failed tank only test, abandoned the tank in place with slurry, had 2 275 gal. tanks installed in place, and other work. I called Audubon and was told to call Carmen Diaz after 12 noon.

Ms. Diaz called me back to say that her contractor had sent her documents for the abandonmnent of the tank and other items. She asked which documents I needed. I told her I needed a revised PBS application for the 2000 gal. tank and any documents regarding cleanup and soil removal. She said she will call her vendor and get back to me.

7/11/06 − Raphael Ketani. I received a call from Nora Hines of the Audubon Partnership. She said that she was the assistant for Ms. Diaz. She said she had a bunch of papers that she could send me copies of regarding the work that was done at the site. Ms. Hines went through the list of documents, but none were the ones I needed. I checked the PBS record and the tank is still listed as in service. I told Ms. Hines that I needed a revised PBS application to show that the tank is abandoned and a report from PTC describing the abandonment work and the removal of any contamination. She said she will talk to Ms. Diaz on monday when she comes back and get the proper paperwork.

7/13/06 − Raphael Ketani. Ms. Hines FAXed me a copy of the current PBS record, and the failing tank test results (in the dry portion). I still need an official document regarding abandonment of the tank (and any cleanup that was needed) and a revised PBS application.

7/20/06 − Raphael Ketani. I spoke to Ms. Diaz regarding the revised PBS application and the official letter regarding the abandonment of the tank and the replacement. She said that the person who normally handles these documents is on vacation and will be back on monday. She said she will get me these documents.

7/25/06 − Raphael Ketani. Ms. Albertina Cabrera, assistant to Ms. Diaz, called up to ask what documents I needed from the Audubon Partnership. I told her that I needed a revised PBS and a letter describing the cleanup and the tank abandonment. She said she

will send it.

8/15/06 − Raphael Ketani. Mark Salamack of PTC (718) 624−4842 called regarding the site. He said that he will submit to me a cover letter explaining what went on at the site, with soil test results, tanks test results, and a revised PBS application.

8/16/06 − Raphael Ketani. I received a FAX late yesterday from Mr. Salamack regarding the site. The FAX consisted of a letter to Sharif Rahman dated March 9, 2006 from PTC, soil analytical data, a site map, a copy of Mr. Rahman's tank test failure letter, and a copy of the closed record from the publicly accessible spill database.

Mr. Rahman's spill case record number was 0507807 and was initiated due to a failed tank test for a 2000 gal. #2 fuel oil tank. His case was initiated on 9/29/05 and closed on 3/15/06. The case that I have, #0509515, also lists a 2000 gal. #2 fuel oil tank for the same site. This case was opened on 11/8/05 due to a tank test failure. The two cases appear to be exactly the same and are for the same site. I called up Mr. Salamack and he said that what they normally do is test the tank system first and then isolate the tank and test it alone. This would explain the two test dates.

Based upon the documentation mentioned above that I received from Mr. Salamack, I am closing the spill case.

Map Identification Number 47 **BUSINESS** **Spill Number: 0507807** **Close Date: 03/15/2006**
513 WEST 207TH STREET NEW YORK, NY TT−Id: 520A−0094−261

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 791 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	MARLON JOESPH − BUSINESS	Spiller Phone:	(718) 624−4842
Notifier Type:	Tank Tester	Notifier Name:	MARLON JOSEPH	Notifier Phone:	(646) 772−7949
Caller Name:	MARLON JOSEPH	Caller Agency:	PETROLIUM TANK CLEANERS	Caller Phone:	(646) 772−7949
DEC Investigator:	SFRAHMAN	Contact for more spill info:	MARLON JOESPH	Contact Person Phone:	(718) 624−4842

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/29/2005		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	3000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

dry portion leak, above liquid leak:

DEC Investigator Remarks:

TTF letter sent to:

Chase Bank
1 Chase Plaza − 23rd Flr
New York, NY 10081
Attn: Jack Fucich

03/01/06 Sharif Rahman− TTF letter was resent to
AUDUBON PARTNERSHIP FOR ECONOMIC
513 West 207th Street
New York, NY 10034
Attn: Carmen Diaz Fax:(212)544−0248
03/15/06 Sharif Rahman− Rec'd report from PTC. The tank is under the sidewalk. Lines run aboveground.The sidewalk was opened up and tank was emptied and cleaned out.Three holes were drilled through the bottom of the tank, a sample was taken from each hole. Samples were VOC/SVOC non detect.

Map Identification Number 48 **TTF** **Spill Number: 1012487** **Close Date: 01/24/2012**
266−272 NAGLE AVE NEW YORK, NY TT−Id: 520A−0271−498

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 936 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	JOHN − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	SMSANGES	Contact for more spill info:	JOHN	Contact Person Phone:	(718) 882−3200

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/15/2011		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

3000g

DEC Investigator Remarks:

On 3/22/2011 several lines were tightened and the system was retested and passed. No contamination was found.

Map Identification Number 49 **MOBIL S/S** **Spill Number: 8701260** **Close Date: 02/09/1998**
296 WEST FORDHAM ROAD. BRONX, NY TT−Id: 520A−0011−391

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1096 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	MIKE MEOLA − EXXONMOBIL CORPORATION	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	SIGONA	Contact for more spill info:		Contact Person Phone:	

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
05/14/1987		TANK TEST FAILURE	2−156434	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

PRODUCT PUMPED OUT OF TANK. FURTHER INVESTMENT TO BE DONE BY MOBIL.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

2/9/98: REFER TO 8701258 (BATTISTA / CLOSED) AND 8705665 (SULLIVAN / ACTIVE). SMM.

REASSIGNED FROM BATTISTA TO SIGONA ON 10/30/00.

Map Identification Number 50 **MOBIL** **Spill Number: 8701258** **Close Date: 01/01/1991**
296 W. FORDHAM RD BRONX, NY TT−Id: 520A−0011−393

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1096 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Tank Tester
Caller Name:
DEC Investigator: BATTISTA

Spiller: MOBIL
Notifier Name:
Caller Agency:
Contact for more spill info:

Spiller Phone: (516) 371−0964
Notifier Phone:
Caller Phone:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
05/14/1987	01/01/1991	TANK TEST FAILURE	2−156434	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

1−4000 GALLON TANK HAD A LEAK RATE OF 10GAL/HR. − 5−550GAL. TANKS COULD NOT HOLD PRESSURE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 51 **518 WEST 204TH ST** **Spill Number: 0801121** **Close Date: 08/06/2012**
518 WEST 204TH NEW YORK, NY TT−Id: 520A−0218−162

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1238 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 518 WEST 204TH ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: CARMEN SANTIAGO Spiller Phone:
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: bkfalvey Contact for more spill info: CARMEN SANTIAGO Contact Person Phone: (646) 673−6714

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/28/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	4000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

DRY LEAK

DEC Investigator Remarks:

5/2/08 sent ttf letter to:
Carmen Santiago
The Dermot Company
1775 Broadway, Suite 510
New york, NY 10019

Letter from True Blue Environmental dated Aug 13, 2008 says this site is "Very Bad" see eDocs.

11/3/08 Recieved letter on 10/27/08 from Robert Urban of Pro Test. Tank failed with a dry leak. Cut in top of tank was repaired. Tank passed test on 8/29/08. Letter did not address contamination found (if any). Sent request for contamination discussion in tt return letter that was sent today to:
91 Post LLC
Accord Realty Rervices, Inc.
55 West 45th Street, 7th Floor
New York, NY 10036

Letter also need clarification on gw determination and tank is registered as AST, but is UST. Information correction application included. bf

8/6/12 Received call from E. Underwood of Dermot Company. He wanted any available info on the spill case since he was not with Dermot at the time of the incident. Carmen Santiago is no longer with the comnpany. I emailed the May 2008 ttf letter to: eunderwood@dermotcompany.com. Sent him a second e−mail attached with the letter from ProTest regarding the repairs which does

not address the contamination found (if any). bf

8/6/12 received e−mail with attached letter from ProTest regarding petroleum contamination. None found. NFA. bf

Map Identification Number 52 **DERMOT COMPANY** **Spill Number: 0800991** **Close Date: 12/16/2008**
87 POST AVE NEW YORK, NY TT−Id: 520A−0214−845

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1279 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CARMEN SANTIAGO − APART	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	bkfalvey	Contact for more spill info:	CARMEN SANTIAGO	Contact Person Phone:	(646) 673−6714

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/24/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	2500	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

DRY LEAK

DEC Investigator Remarks:

5/2/08 bf: sent ttf letter to:

Carmen Santiago
Thayer street portfolio Investor LLC
c/o The Dermot Company
1775 Broadway, Suite 510
New York, NY 10019

08/21/08−Vought−See also open spill #0805791 for 250 gallon spill on 8/20 resulting from overfill of this tank and associated violation order.

9/3/08 PBS settlement conference scheduled for 9/10/08 at 1:30 PM. bf

12/16/08 Yesterday held PBS settlement conference with Jack Jaffa (expediter) and Asher Taub (attorney) representatives for Dermot. They provided documentation to close the spill. Tank is a covered AST with weepholes. Pro Test replaced gasketed on tank and tank passed tightness test on 11/19/08. NFA. bf

Map Identification Number 53 **204 SHERMAN AVE** **Spill Number: 8800633** **Close Date: 11/02/1992**
204 SHERMAN AVE NEW YORK CITY, NY TT−Id: 520A−0094−259

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1413 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	ST.MATHEW LUTHERAN SCHOOL	Spiller Phone:	(212) 567−2699
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:	NAT MOSER	Caller Agency:	GND SERVICE	Caller Phone:	(516) 933−1085
DEC Investigator:	BATTISTA	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
04/20/1988	11/02/1992	TANK TEST FAILURE	2−399809	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

15K TANK SYSTEM FAILED PETRO TITE, PRODUCT LEVEL WOULDN'T HOLD IN STANDPIPE. CONTACT: MICHAEL WILLIAMS (212)− 567−2699.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 54 **3761 TENTH AVE** **Spill Number: 9301145** **Close Date: 11/20/2003**
3761 TENTH AVENUE MANHATTAN, NY TT−Id: 520A−0098−362

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1595 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 3761 10TH AVENUE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION Spiller: SHELL Spiller Phone: ext. 648
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: DANA ROOT Caller Agency: TANKNOLOGY Caller Phone: (800) 666−2605
DEC Investigator: SMSANGES Contact for more spill info: Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/23/1993		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

EX ISO RETEST. WAS TOMASELLO SPILL, RE−ASSIGNED−MULQUEEN ON 4/18/95. SHELL ADDRESSING THE PROBLEM AT THE SITE. SEE FILE ALSO 87−08221 & 88−07698

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
06/27/95: 88−07698=PRODUCT IN WELL #1.87−08221=(3) 4K UST FAILED TT.

12/06/95 SEE ALSO 87−08221 WHICH MAY BE SAME SITE, WRONG ADDRESS, WILL BE CHECKED OUT

11/20/2003 − Groundwater analysis for VOC and SVOC is completed. Dissolved phase concentrations remain low. Based on electron acceptor data, biodegradation is acting to reduce the residual concentrations. Minor MTBE hits. Adjacent neighbor to rear and side is Con Ed Power Plant.

OK to Close

Map Identification Number 55 **4960 BROADWAY** **Spill Number: 9513703** **Close Date: 10/14/2004**
4960 BROADWAY NEW YORK, NY TT−Id: 520A−0094−270

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1623 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	JOHN HICKEY	Spiller Phone:	(212) 942−3145
Notifier Type:	Tank Tester	Notifier Name:	MIKE MORRISSEY	Notifier Phone:	(800) 666−2605
Caller Name:	MIKE MORRISSEY	Caller Agency:	TANKNOLOGY	Caller Phone:	(800) 666−2605
DEC Investigator:	SMSANGES	Contact for more spill info:	JOHN HICKEY	Contact Person Phone:	(212) 942−3145

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/29/1996		TANK TEST FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	6000	VacuTest	0.00	FAIL

Caller Remarks:

CALLER BELIEVES LEAK IS AT POINT WHERE VENT GOES THROUGH TANK WALL. FEELS THERE IS LITTLE CHANCE OF CONTAMINATION. VENT LINE TO BE REPLACED AND TANK TO BE RE−TESTED.

DEC Investigator Remarks:

10/14/2004 Sangesland reviewed a package of info submitted by James Georgiano, Property Manager for Sol Goldman Investments, LLC. Submittal included photo of the AST and the surrounding area showing no oil spills or stains.

Spill closed

Map Identification Number 56 **DYCKMAN HOUSES −NYCHA** **Spill Number: 9315476** **Close Date: 03/24/2004**
215 NAGLE AVENUE BRONX, NY TT−Id: 520A−0098−350

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1873 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: NYCHA − JOE MONTELLA Spiller Phone: (212) 306−3142
Notifier Type: DEC Notifier Name: Notifier Phone:
Caller Name: JANE HEALY Caller Agency: NYS DEC Caller Phone: (718) 482−4933
DEC Investigator: JAKOLLEE Contact for more spill info: Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/21/1993		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
002		Unknown	0.00	UNKNOWN

Caller Remarks:

LEAK RATE OF −0.3 GPH.

Closed − see 9409078. George Breen

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 57 **DYCKMAN HOUSES −NYCHA** **Spill Number: 9300549** **Close Date: 03/24/2004**
3796 10TH AVENUE MANHATTAN, NY TT−Id: 520A−0098−349

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1873 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: 3798 10TH AVE
Revised zip code: 10034

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Tank Tester
Caller Name: SEBASTIAN LOREFICE
DEC Investigator: JAKOLLEE
Spiller: NYCHA
Notifier Name:
Caller Agency: TANK TEST INC
Contact for more spill info:
Spiller Phone:
Notifier Phone:
Caller Phone: (718) 789−3770
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/1993		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001		Unknown	0.00	UNKNOWN

Caller Remarks:

EIR.

See 9409078. George Breen

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 58 **DYCKMAN HOUSES −NYCHA** **Spill Number: 9200115** **Close Date: 04/25/1995**
3796 10TH AVENUE MANHATTAN, NY TT−Id: 520A−0098−348

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1873 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: 3798 10TH AVE.
Revised zip code: 10034

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: NYCHA Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: SEBASTIAN LOREFICE Caller Agency: TANK TESTING Caller Phone: (718) 789−3770
DEC Investigator: HEALY Contact for more spill info: Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
04/03/1992	04/25/1995	TANK TEST FAILURE	2−474843	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001		Unknown	0.00	UNKNOWN
002		Unknown	0.00	UNKNOWN

Caller Remarks:

UNK. FURTHER ACTION. UPDATE 4/24/92 − TANK #2 RETESTED, FAILED. SEE SPILL # 9300549 & 9315476

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 59 **DYCKMAN HOUSES −NYCHA** **Spill Number: 9004308** **Close Date: 04/25/1995**
3796 10TH AVENUE MANHATTAN, NY TT−Id: 520A−0098−344

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1873 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: 3798 10TH AVE
Revised zip code: 10034

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	NYCHA	Spiller Phone:	(212) 306−3142
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:	SEBASTIAN LOREFICE	Caller Agency:	TANK TESTING INC	Caller Phone:	(718) 789−3770
DEC Investigator:	HEALY	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
07/18/1990	04/25/1995	TANK TEST FAILURE	2−474843	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001		Unknown	0.00	UNKNOWN
002		Unknown	0.00	UNKNOWN

Caller Remarks:

(2) 20K TANKS MANIFOLDED FAILED A HORNER EZY CHECK WITH A GROSS LEAK, VISUAL LEAK AT PETROMETER FLANGE ON TANK TOP, WILL EXCAVATE,ISOLATE & RETEST. SEE SPILL # 9300549 & 9315476. See 9409078. George Breen

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 60 **608 ISHAM STREET** **Spill Number: 0205348** **Close Date: 12/22/2004**
608 ISHAM STREET MANHATTAN, NY TT−Id: 520A−0094−287

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1906 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: FATHER DESILVA − 608 ISHAM STREET Spiller Phone: (212) 567−1300 ext. 2
Notifier Type: Tank Tester Notifier Name: PHILLIP FAZIN Notifier Phone: (516) 939−2959
Caller Name: PHILLIP FAZIN Caller Agency: CROWN LEAK Caller Phone: (516) 939−2959
DEC Investigator: CESAWYER Contact for more spill info: PHILLIP FAZIN Contact Person Phone: (516) 939−2959

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/21/2002		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
3	3000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

CHURCH AT LOCATION

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
8/21/2002−VOUGHT−Duplicate spill report. See spill #0205346. This spill closed by Vought.

11/9/04 − Sawyer − Reopened this TTF is for 3000 gallon tank 0205346 was for a 5000 that was repaired and retested tight. The Department will try to get tank closure information.

12/22/04 − Sawyer − Received information from Sharima Ryan of RND Sevices for abandonment and subsequent paperwork that was sent to PBS department to update registration. No further action required. Closed.

Map Identification Number 61 **608 ISHAM STREET** **Spill Number: 0205346** **Close Date: 11/09/2004**
608 ISHAM STREET MANHATTAN, NY TT−Id: 520A−0094−286

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1906 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	FATHER DESILVA − 608 ISHAM STREET	Spiller Phone: (212) 567−1300 ext. 2
Notifier Type:	Responsible Party	Notifier Name:	PHILLIP FAZIN	Notifier Phone: (516) 939−2959
Caller Name:	PHILLIP FAZIN	Caller Agency:	CROWN LEAK	Caller Phone: (516) 939−2959
DEC Investigator:	CESAWYER	Contact for more spill info:	PHILLIP FAZIN	Contact Person Phone: (516) 939−2959

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/21/2002		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
2	5000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

CHURCH AT LOCATION

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
1/6/04−Vought−Spill transferred from Vought to Austin.

1/27/04 − Sawyer − Spill transferred from Austin to Sawyer.

11/9/04 − Sawyer − Received information from PTC indicating that the 5000 gallon tank on this proprty was repaired and subsequently passed a tank test on 1/15/03. There were no releases encountered during the repair. No further action required. Closed.

Map Identification Number 62 **4880 BROADWAY/MANH/GETTY** **Spill Number: 9002535** **Close Date: 07/16/1992**
4880 BROADWAY NEW YORK CITY, NY TT−Id: 520A−0094−268

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1962 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	GETTY	Spiller Phone:	(718) 729−6500
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	JIM WOLFORD	Caller Agency:	TANKNOLOGY	Caller Phone:	(609) 753−9111
DEC Investigator:	SULLIVAN	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/04/1990	07/16/1992	TANK TEST FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

550K TANK FAILED VAC−U−TECH TEST, COMPANY TO FIX TANK.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 63 **GETTY − MAN** **Spill Number: 8911776** **Close Date: 07/29/1994**
4880 BROADWAY MANHATTAN, NY TT−Id: 520A−0094−267

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1962 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	TOM DIXON(CONTACT) − SAME	Spiller Phone:	(718) 729−6500
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:	HOWARD GREENBERG	Caller Agency:	ALVIN PETROLEUM	Caller Phone:	(718) 461−5400
DEC Investigator:	SULLIVAN	Contact for more spill info:		Contact Person Phone:	

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
03/13/1990	07/29/1994	TANK TEST FAILURE	2−151297	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

FOUR 550 GAL TKS FAIL AIR PRESSURE @ UNREADABLE − NYFD ON SCENE − E & I & R.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 64 **THE DERMOT COMPANY** **Spill Number: 0800990** **Close Date: 02/13/2009**
623−631 WEST 207TH ST NEW YORK, NY TT−Id: 520A−0214−844

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1982 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CARMEN SANTIAGO − APART	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	bkfalvey	Contact for more spill info:	CARMEN SANTIAGO	Contact Person Phone:	(646) 673−6714

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/24/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	4000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

DRY LEAK

DEC Investigator Remarks:

5/2/08 bf: Sent ttf letter to:
Carmen Santiago
623−631 West 207th Street Investor, Inc.
c/o The Dermot Company
1775 Broadway, Suite 510
New York, NY 10019

2/13/09 Received letter on 2/12/09 from Steve braun of approved Oil. Tank is AST. Manhole cover was regasketed and re−piped section of aboveground fill line weithin the tank room where a minor leak was found. Less than 5 gallons of oil was on concrete floor and cleaned with absorbent. NFA. bf

Map Identification Number 65 **BRONX COMMUNITY COLLEGE** **Spill Number: 0811391** **Close Date: 09/01/2009**
WEST 181ST & UNIVERSITY AVE BRONX, NY TT−Id: 520A−0225−162

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2002 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: BRONX COMMUNITY COLLEGE
Revised zip code: 10453

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: WAYNE MURPHY − BRONX COMMUNITY COLLEGE Spiller Phone:
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: bkfalvey Contact for more spill info: BRIAN FALDEY Contact Person Phone: (718) 482−7129

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/14/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

TANK TEST FAILURE ON A 25,000 GALLON UST. UNK IF ANY PRODUCT WAS SPILLED.

DEC Investigator Remarks:

1/15/09 Reviewed tank tightness test report dated 1014/08. Report states that tank and line associated with tank 5 was inconclusive. Found leak at ATG riser and leak at manway lines. Notified engineer on−site. Checked database and no spill could be found. Called Tanknology and they have no record of calling in spill. I was told their procedure is to call spill hotline when a tank fails. I called Wayne Murphy of Bronx Community College (718)289−5245 and left message regarding spill and to return me call.

1/16/09 Sent ttf letter to:
Wayne Murphy, Chief Administrative Superintendent
Bronx Community College
West 181st Street/University Avenue

Bronx, NY 10453

Received call from Michael Spath of CUNY. Told him about ttf letter. He will provide response after he receives letter. He told me the tank failed because of the manhole gasket and that it was repaired. bf

9/1/09 Received faxed letter from Michael Dillon, Senior stationary engineer at BCC. Tank failed because of a gauge line on top of the tank. No release of fuel. Tank was retested on 1/9/09 and passed. NFA. bf

Map Identification Number 66 **MANHATTAN WEST 12 DOS −DDC** **Spill Number: 9807598** **Close Date: 10/26/1998**
301 WEST 215TH STREET MANHATTAN, NY TT−Id: 520A−0096−934

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JAY SHAH − NY CITY DEPT SANITATION		Spiller Phone: (212) 334−9138
Notifier Type:	Tank Tester	Notifier Name:	ALBERTO LOPEZ		Notifier Phone: (516) 321−4670
Caller Name:	JAMES LEDDY	Caller Agency:	PRO TEST		Caller Phone: (516) 321−4670
DEC Investigator:	JAKOLLEE	Contact for more spill info:	JAY SHAH		Contact Person Phone: (718) 334−9138

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/21/1998		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	4000	Horner EZ Check I or II	0.00	FAIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"
GARAGE FOREMAN ASKED FOR TANK TEST BECAUSE OF INVENTORY RECONCILIATION DISCREPANCIES. TANK TESTED ON 9/21/98 BY PRO TEST ENTERPRISES USING HORNER EZY CHECK (UNDERFILL VACUUM TEST), AND FAILED. TANK RE−TESTED ON 10/13/98 BY CROMPCO CORP. USING UST 2000 TEST (UNDERFILL PRESSURE TEST) AND PASSED; TANK AND ALL PIPING APPEAR TIGHT. BASED ON THIS, KOLLEENY GAVE DOS APPROVAL TO PUT TANK BACK IN SERVICE. WILL VISIT SITE TO CHECK INVENTORY RECONCILIATION IN 30 DAYS.

Map Identification Number 67 **MANHATTAN WEST 12 DOS −DDC** **Spill Number: 9604675** **Close Date: 01/06/2005**
301 WEST 215TH STREET MANHATTAN, NY TT−Id: 520A−0096−933

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	WILLIAM FENNELL − DEPT OF SANITATION	Spiller Phone:	(718) 937−3286
Notifier Type:	Tank Tester	Notifier Name:	JERRY KASPAR	Notifier Phone:	(800) 646−3161
Caller Name:	JERRY KASPAR	Caller Agency:	CROMPCO CORP	Caller Phone:	(800) 646−3161
DEC Investigator:	JAKOLLEE	Contact for more spill info:	JERRY KASPAR	Contact Person Phone:	(800) 646−3161

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/09/1996		TANK TEST FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	4000	USTest 2000/P/LL plus USTest 2000/U	0.00	UNKNOWN
2	4000	USTest 2000/P/LL plus USTest 2000/U	0.00	UNKNOWN

Caller Remarks:

no product leakage − test is pass/fail − tanks are for diesel

storage

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"

This spill is closed to consolidate; refer to open spill #9604262 for this site, which is being remediated by LiRo Engineering under the NYCDDC Consent Order.

−J. Kolleeny 1/6/05

Map Identification Number 68 **NYC DEPT OF SANITATION** **Spill Number: 1214373** **Close Date: 05/16/2013**
301 WEST 215TH ST NEW YORK, NY TT−Id: 520A−0280−951

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	JAY SHAW − NYC DEPT OF SANITATION	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	SFRAHMAN	Contact for more spill info:	JAY SHAW	Contact Person Phone:	(718) 334−9138

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/08/2013		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
ETHANOL	OTHER	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

unk retest, tank contents removed

DEC Investigator Remarks:

Left messege for Michael and Jay Shah.(sr)

** Closure report in edocs.Tank passed test.No release to the environment, contained in secondary containment.**

Map Identification Number 69 **SANITATION GARGE** **Spill Number: 0802569** **Close Date: 08/21/2008**
301 WEST 215TH STREET NEW YORK, NY TT−Id: 520A−0214−875

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JAY SHAH − SANITATION GARGE	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	vszhune	Contact for more spill info:	JAY SHAH	Contact Person Phone:	(718) 334−9138

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/06/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	2000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

TANK WAS OK BUT SUNCTION LINE FAILED

DEC Investigator Remarks:

7/15/2008 TTF sent to:
NYC Dept of Sanitation
Director of Equipment
125 Worth Street
New York, NY 10013
see eDocs

Spill Closed − Duplicate spill case − Refer to spill #0802073

Map Identification Number 70 **NYC DEPT OF SANTIATION** **Spill Number: 0012251** **Close Date: 12/02/2003**
301 WEST 214TH ST NEW YORK, NY TT−Id: 520A−0096−937

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	NYC DEPT OF SANTIATION	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:	A LOPEZ	Notifier Phone:	(631) 321−4670
Caller Name:	JOHN LEDDY	Caller Agency:	PROTEST ENTERPRISES	Caller Phone:	(631) 321−4670
DEC Investigator:	JAKOLLEE	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/14/2001		TANK TEST FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	12000	Alternate Test per 613.5a2v	0.00	FAIL
2	12000	Alternate Test per 613.5a2v	0.00	UNKNOWN

Caller Remarks:

CALLER REPORTING A FAILED TANK TEST NO RELEASE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"
BOTH TANKS WERE PULLED IN OCTOBER 2002; POST−EXCAVATION SOIL SAMPLES SHOWED NO SIGNIFICANT IMPACT. OK TO CLOSE.

Map Identification Number 71 **BRONX WEST 08 DOS −DDC** **Spill Number: 0411096** **Close Date: 05/13/2009**
423 WEST 215TH STREET BRONX, NY TT−Id: 520A−0094−301

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2071 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JAY SHAH − NYC DEPT SANITATION	Spiller Phone:	(718) 334−9138
Notifier Type:	Affected Persons	Notifier Name:	MICHAEL SEPPE	Notifier Phone:	(631) 586−4900
Caller Name:	MICHAEL SEPPE	Caller Agency:	FENLEY MCNICHOL	Caller Phone:	(631) 586−4900
DEC Investigator:	ADZHITOM	Contact for more spill info:	JAY SHAH	Contact Person Phone:	(718) 334−9138

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/12/2005		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	4000	Horner EZ Check I or II	0.00	UNKNOWN
2	4000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

FIRST 2 TANKS − DIESEL
TANK 3 IS GASOLINE
NO CALL−BACK REQUIRED

DEC Investigator Remarks:

10/05/05 See spill # 0330039 Free phase. AZ

1/13/2005 Approved proposed soil boring locations for the first round of soil sampling. A new spill took place. (2 gasoline tanks failed the test). Delineation is required for the new spill. AZ

1/20/2005 Requested information on the tank failure and its status from Steve Frank (LiRo). LiRo did not do any tightness testing. Gasoline tank and probably diesel tanks failed in 2005. LiRo will remove 2−2,000 gal diesel tanks soon. Samples will be taken. AZ

4/11/2006 Contacted Jane Staten and requested update on the spill. She will get back to me. AZ

5/8/2006 Received final report for the period February − March 2006 from LiRo dated April 28, 2006. LiRo is no longer responsible for this site. AZ

9/22/2006 Upon a request from Jane Staten sent a FOIL spill report to her. Called F&N and left a message requesting more info regarding the spill. PBS# 2−455822. AZ

1/23/2007 At the meeting with DDC/URS on January 10, 2007, the site was discussed. Jane Staten informed that URS can not locate this tank. One gasoline tank was closed 10 years ago mo investigation was performed. DOS sometimes is closing tanks without informing DEC/DDC/URS. URS will prepare a drawing that indicates all known tanks prior to a site visit with DEC/DDC/URS/DOS. Also, all borings/wells, investigated/remediated areas should be mapped. AZ

6/16/2008 An e−mail was sent to DDC/URS/V.Brevdo: "Previously DEC requested identification and delineation of this spill. The tanks should be identified, borings/wells advanced in the tank filed area and the results of the investigation submitted to DEC." AZ

1−7−2008 An e−mail was sent to DDC/URS/V.Brevdo: "In June 2008 DEC requested identification and delineation of this spill. However, no information was received. The tanks should be identified, borings/wells advanced in the tank field area and the results of the investigation submitted to DEC. The spill report indicated that two diesel tanks, 4,000 gallons each, failed the test. Also, one gasoline tank probably failed." AZ

1−8−2008 E−mail from J. Staten: "As we discussed, URS visited the site and talked to facility personnel but were unsuccessful in locating the tanks identified on the spill #0411096
report form. Obviously, we need to take a different tact, so I will contact Michael Murphy of DOS. He has been of great assistance on other DOS sites so I am hopeful that he will be able to provide us with site plans or the names of facility personnel that will help us identify the tanks in question." AZ

5−11−2009 Reviewed Request for closure by URS dated January 26−2009. The report states that the USTs identified in the spill report are two diesel USTs and one gasoline UST. Spill report #0411096 indicates that USTs failed a tightness test at Bronx West 8 facility located at 423 West 215th St. in Manhattan. However, the "Potential Spiller" listed on the form is Department of Sanitation facility located at 310 West 215th Street, which is Manhattan 12 facility located immediately east of the Bronx 7/8.

Two of these tanks had reported storage capacity of 4,000 gallons. The Bronx 7/8 facility never had tanks that matched this description whereas Manhattan West 12 facility, situated across 9th Avenue, immediately east of the Bronx 7/8 facility, had tanks that exactly matched this description. URS concluded that spill #0411096 erroneously listed the Bronx 7/8 as the "Spill Name" but correctly identified the Manhattan West 12 facility as the "Potential Spiller".

The two 4,000 diesel tanks and one 4,000 gallons tank formerly located at the Manhattan West 12 facility were removed in June

2005. On July 8, 2008, DEC approved closure of spill number 0504296 associated with two 4,000 gal diesel USTs and one 4,000 gal gasoline UST formerly located at the Manhattan West 12 facility.

Based on this information, URS requested closure of spill #0411096. AZ

5−13−2009 Based on the above information submitted by URS this spill number is closed. An e−mail confirming closure is sent to NYCDDC/URS/V. Brevdo. AZ

Map Identification Number 72 **APARTMENT BUILDING** **Spill Number: 9705847** **Close Date: 01/15/2009**
2277 ANDREWS AVENUE BRONX, NY 10468 TT−Id: 520A−0012−850

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2193 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: 2277 ANDREWS AV N
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	MR.EIFERANN − APARTMENT BUILDING	Spiller Phone:	(718) 972−1073
Notifier Type:	Tank Tester	Notifier Name:	MICHAEL SEPE	Notifier Phone:	(516) 586−4900
Caller Name:	MICHAEL SEPE	Caller Agency:	FENLEY & NICOLS	Caller Phone:	(516) 586−4900
DEC Investigator:	JMKRIMGO	Contact for more spill info:	MR.EIFERANN	Contact Person Phone:	(718) 972−1073

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/14/1997		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	5000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

failed test

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "M TIBBE"
Oil bubbles out around man−way. Not man−way gasket.

Spill assigned to James Drumm for SCI

sent further info letter to owner, Martin Kirzner. No response.
phone # 718 972 1073

9/8/06 transferred to bf

9/20/06 ttf certified letter returned "return to sender, insufficient address, unable to forward" bf

9/21/06 resent letter ttf to address obtained from acris. bf

10/8/08 At 1036, received message from Max Gordon ? (718)258−8800 x−209. Called back and left message. bf

1/15/09. J.Krimgold reviewed the letter−report submitted by Cosmos Environmental Services, dated March 24, 2008. According to the report two groundwater wells were installed in the close proximity of the tank. No free product or contaminated soil was found. Analysis of GW also show no presence of contaminants. NFA. JK.

Map Identification Number 73 **NORTH EASTERN ACADEMY − TTF** **Spill Number: 0900070** **Close Date: 07/17/2009**
532 WEST 215TH ST MANHATTAN, NY TT−Id: 520A−0226−415

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2239 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: JAMES BENNETT − NORTH EASTERN ACADEMY Spiller Phone:
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: JMKRIMGO Contact for more spill info: JERRY SIBBIO Contact Person Phone: (646) 533−0258

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/02/2009		TANK TEST FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

TANK TEST FAILURE ON A 10,000 GALLON UST, DUE TO A ULLAGE LEAK. UNK IF ANY PRODUCT WAS SPILLED.

DEC Investigator Remarks:

4/24/2009 TTF letter sent to:
Property Manager
Northeastern Academy
532 West 215th Street
New York, NY 10034

07/14/09. J.Krimgold reviewed the letter report submitted by Atec Environmental and dated May 21, 2009. Based on the report the tank failed the test either due to outdated vent cap or excessive corrosion of the manhole. Both components were repaired and a new manhole gasket was installed. The tank was retested and passed. Excavation of the tank top to perform repair did not reveal soil contamination. NFA.

Map Identification Number 74 **4848 BROADWAY** **Spill Number: 0801120** **Close Date: 01/15/2009**
4848 BROADWAY NEW YORK, NY TT−Id: 520A−0214−850

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2239 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CARMEN SANTIAGO	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	JMKRIMGO	Contact for more spill info:	CARMEN SANTIAGO	Contact Person Phone:	(646) 673−6714

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/28/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	2500	Unknown	0.00	UNKNOWN

Caller Remarks:

DRY LEAK

DEC Investigator Remarks:

5/2/08 Sent ttf letter to:
Carmen Santiago
The Dermot Company
1775 Broadway, Suite 510
New York, NY 10019
1/15/09. J.Krimgold reviewed the letter−report submitted by Approved Oil Company of Brooklyn and dated 12/13/08. According to this letter, the tank is aboveground and was tested to to satisfy private requirements. The cause of the failure was a suction line which was at some time back temporarily replaced by cooper tubing leaving a gap in the tank topping. After replacing cooper tubing with permanent pipe the tank system was retested and passed. NFA. J.K.

Map Identification Number 75 **70 PARK TERR EAST** **Spill Number: 9714576** **Close Date: 02/04/2004**
70 PARK TERR EAST MANHATTAN, NY TT−Id: 520A−0094−308

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2323 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	TRI STATE ENGINEERING − 70 PARK TERR EAST	Spiller Phone:	(914) 962−3692
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	JOHN LEDDY	Caller Agency:	PROTEST ENTERPRISES	Caller Phone:	(631) 321−4670
DEC Investigator:	SMSANGES	Contact for more spill info:	TRI STATE ENGINEERING	Contact Person Phone:	(914) 962−3692

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/30/1998		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	7500	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

caller tested tank. tank failed test.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
12/23/2003 Sangesland sent the management company a "Do Work" letter for an old Tank Test Failure. Deadline Feb 25, 2004

2/4/2004 Prime Locations Inc. (914−963−2279) sent in a copy of a passing tank test performed on 4/10/98, about 2 weeks after the initial tank test failure.

Spill Closed.

Map Identification Number 76 **THE DERMOT COMPANY** **Spill Number: 0800992** **Close Date: 05/06/2011**
121 SEAMAN AVE NEW YORK, NY TT−Id: 520A−0214−846

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2438 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CARMEN SANTIAGO − APART	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	bkfalvey	Contact for more spill info:	CARMEN SANTIAGO	Contact Person Phone:	(646) 673−6714

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/24/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	5000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

DRY LEAK

DEC Investigator Remarks:

5/2/08 bf: This tank is not registered. I called Carmen Santiago, property manager, (646)673−6714 and she confirmed that the tank is nort registered. I notified her that they are in violation for not registering the tank. I told her I will be sending a ttf letter today and include an application, but she should register the tank asap. Sent ttf letter to;
Carmen Santiago
The Dermot Company
1775 Broadway, Suite 510
New York, NY 10019

5/6/11 Today received letter and passing ttt. Tank failure was due to vent line. No evidemce of contamination found. NFA. bf

Map Identification Number 77 **X** **Spill Number: 0201002** **Close Date: 12/29/2005**
45 PARK TERRACE WEST NEW YORK, NY TT−Id: 520A−0094−314

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2508 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	JEFF FREDMAN	Spiller Phone:	(212) 268−9060
Notifier Type:	Tank Tester	Notifier Name:	DAVE FAZIN	Notifier Phone:	(516) 939−2959
Caller Name:	DAVE FAZIN	Caller Agency:	CROWN LEAK DETECTION	Caller Phone:	(516) 939−2959
DEC Investigator:	rmpiper	Contact for more spill info:	JEFF FREDMAN	Contact Person Phone:	(212) 268−9060

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
04/26/2002		TANK TEST FAILURE	2−187895	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

petroluim will be coming in and test the lines on the tank

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
1/5/04−Vought−Spill transferred from Vought to Austin.

01/27/04 − Sawyer − Spill transferred from Austin to Sawyer.

12/27/05− DEC Piper sent out ttf letter to owner. Aggressive Heating Inc.
12/29/05− DEC Piper spoke w/ PTC. Original test failed. Upon return, lines were isolated and tank passed. UPon inspection, an old gauge line was not capped. Upon small repair, tank system retested and passed. Dry Portion Leak. Piper received info to close

case out. e−docs

Map Identification Number 78 **MACRACKEN HALL** **Spill Number: 0813266** **Close Date: 09/21/2009**
2155 UNIVERSITY AVE BRONX, NY TT−Id: 520A−0227−867

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2555 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10453

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	MIKE DILLON − BRONX COMM. COLLEGE	Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	JMKRIMGO	Contact for more spill info:	MIKE DILLON	Contact Person Phone:	(718) 289−5258

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/10/2009		TANK TEST FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

Caller states they had a fitting failure on a 1080 gallon ast. No spill or resources affected.

DEC Investigator Remarks:

PBS 2−107204 − TTF Letter sent on 3/26/2009
Sangesland spoke to Mike Dillon at Building Facilities Dept.
Gaskets on top of the tank were loose, repairs have been scheduled.
Tank appears to be OK

9/21/09. J.Krimgold reviewed a letter submitted by Bronx Community College and dated July 14, 2009. According to the letter the tank failed the test due to two loose fittings on the to of the tank. Fittings were fixed. No release. Case closed.

Map Identification Number 79 **ST.NICHOLAS OF TOLENTINE** **Spill Number: 9702784** **Close Date: 08/30/2004**
2345 UNIVERSITY AVE BRONX, NY TT−Id: 520A−0011−387

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2587 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: 2345 DR MARTIN LUTHER KING JR BLVD
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: REV JOHN DELARUSSO − ST.NICHOLAS OF TOLENTINE
Spiller Phone: (718) 295−6800
Notifier Type: Tank Tester
Notifier Name: JOHN LEDDY
Notifier Phone: (516) 321−4670
Caller Name: JOHN LEDDY
Caller Agency: PROTEST ENTERPRISES
Caller Phone: (516) 321−4670
DEC Investigator: SIGONA
Contact for more spill info: REV JOHN DELARUSSO
Contact Person Phone: (718) 295−6800

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
05/22/1997		TANK TEST FAILURE	2−246336	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

POSS CONNECTION TO SPILL # 8706856

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 80 **CLOSED−LACKOF RECENT INFO** **Spill Number: 8706856** **Close Date: 03/04/2003**
2345 UNIVERSITY AVE. NEW YORK CITY, NY TT−Id: 520A−0011−386

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2587 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: 2345 DR MARTIN LUTHER KING JR BLVD
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	ST.NICHOLAS OF TOLENTINE	Spiller Phone:	(212) 295−6800
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	ADMIN. CLOSED	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/12/1987		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

(2) TANK 6500 CAPACITY SYSTEM FAILED WITH A LEAK RATE OF .78 G/HR. WILL EXCAVATE, ISOLATE, AND RETEST.CLOSED DUE TO LACK OF ANY RECENT INFO− DOES NOT MEET ANY CLEAN UP REQUIREMENT.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ADMIN.CLOSED"
03/04/2003−Closed Due To The Nature / Extent Of The Spill Report

8/30/2004 cross ref spill #9702784



CLOSED STATUS UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 81 **ONE QT OIL LEAKED FROM PIPE IN** **Spill Number: 0701614** **Close Date: 11/08/2007**
207 STREET & 9 AVENUE MANHATTAN, NY TT−Id: 520A−0099−383
EXCAVATION

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 67 feet to the W*

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	ERTSDESK − CON EDISON	Spiller Phone:	(212) 580−8383
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/09/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

whjile digging found contaminated soil: coned # 205759

DEC Investigator Remarks:

11/08/07 − See eDocs for Con Ed report detailing cleanup and closure.

205759. see eDocs

Map Identification Number 82 **MERIT SERVICE STATION** **Spill Number: 9516087** **Close Date: 12/09/2003**
401 WEST 207TH STREET MANHATTAN, NY TT−Id: 520A−0092−306

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	ROBERT LLOYD − MERIT SERVICE STATION	Spiller Phone:	(610) 866−7799
Notifier Type:	Other	Notifier Name:	ROBERT LLOYD	Notifier Phone:	(610) 866−7799
Caller Name:	ROBERT LLOYD	Caller Agency:	EMS ENVIORNMENTAL INC	Caller Phone:	(610) 866−7799
DEC Investigator:	WXSUN	Contact for more spill info:	ROBERT LLOYD	Contact Person Phone:	(610) 866−7799

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/15/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

preliminary soil test indicate contamination around tanks

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"
Contaminated soil discovered during tank pull

PRIMARY SPILL NUMBER FOR THIS SITE IS 9706124

FOR NOTES, LOOK UP THAT SPILL NUMBER.

12/9/2003 Reassigned from Sangesland to Sun. To be investigated and remediated under Spill # 97−06124.

Map Identification Number 83 **MERIT INWOOD GAS STATION** **Spill Number: 9504685** **Close Date: 12/09/2003**
401 WEST 207TH STREET MANHATTAN, NY TT−Id: 520A−0092−192

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	MERIT	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	JOHN SIMMS	Caller Agency:	LEGGETTE BROWNES	Caller Phone:	(914) 694−5711
DEC Investigator:	WXSUN	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/01/1995		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TOOKL SAMPLES FOR DEP − DEWATERING PERMIT FOR GASOLINE COMPONENTS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"
PRIMARY SPILL NUMBER FOR THIS SITE IS 9706124

FOR NOTES, LOOK AT THAT SPILL NUMBER

12/9/2003 Reassigned from Sangesland to Sun. To be investigated and remediated under Spill # 97−06124.

Map Identification Number 84 **STREET** **Spill Number: 0700699** **Close Date: 06/21/2007**
401 WEST 207TH MANHATTAN, NY TT−Id: 520A−0098−981

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 401 W 207TH ST
Revised zip code: 10034

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: STEVE FRANK − STREET
Spiller Phone: (718) 321−3136
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: jbvought
Contact for more spill info: STEVE FRANK
Contact Person Phone: (718) 321−3136

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/18/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAMINATED WHILE DIGGING A TRENCH FOUND WEATHERED PRODUCT

DEC Investigator Remarks:

Liro Construction is installing a sewer line for NYC−DDC project −
While digging a trench in front of an existing gas station (401 West 207th st)
they found weathered petroleum contaminated soil.

Sangesland asked Mr. Frank to confirm that the contaminated soil was NOT dumped back into the trench after the new line was installed. Mr. Frank will confirm and call back.

Apparently there is already an open spill for the gas station at this location.

4/23/07 − Carlson − Received email from Steve Frank at Liro Engineering : "The trench was excavated to install a new water line. Trench length is more than 100 ' but the affected area is only about 10' wide. The trench is about 10' deep there. The contractor reported that nothing unusual was noticed in the soil when the trench was dug and that no liquid was in the trench when excavated. The substance in the trench was not noticed until after the big rainstorm. We inspected the fluid Weds. AM, collected a sample and called the hotline as it smelled and looked like a petroleum product to us. The trench is still open and the
Contractor does not intend to backfill with the soil that was removed from the trench. "

Received laboratory results of sample.

DEC Carlson performed site inspection. The sewer line is being installed at approximately 8 ft below grade. One portion about 10ft long is contains water and floating product. This portion is directly downgradient of the Hess station. The portion with water and product is greater than 8 ft deep, and will have a concrete box and manhole around it. The construction operator reported seeing soil staining when groundwater was encountered at approximately 8 ft below grade. Met with the engineer on site Attef Farag (phone 973−623−2999, email afarag@kseng.com). Met with Hess's consultant, Jonathan Curran from Delta. Tim Fisher from Delta will be managing this incident. I indicated to Attef Farag that the water in the excavation will need to pumped out and properly disposed of.

05/14/07−Vought−Called Farag for update on trench installation and to notify him that spill will be closed and referred to Hess open spill at adjacent site. Vought left message for Farag to return call to DEC.

05/16/07−Vought−Called Farag for update as no call received and told to call 718−424−4157. Vought called Steve Frank (Liro) and left message to return call to DEC and will provide him with contact info for DEC Carlson and Hess (who will be managing remediation of source site).

06/21/07−Vought−Called Frank (718)321−3136x236 for update and left message that case will be closed and referred to open spill for source Hess Station located at 401W207th Street (spill #0201597). Spill closed by Vought.

Map Identification Number 85 **HESS 32517** **Spill Number: 0206149** **Close Date: 04/03/2003**
401 WEST 207TH ST MANHATTAN, NY TT−Id: 520A−0091−351

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	DAVID LEE − HESS 32517	Spiller Phone:	(518) 436−6585
Notifier Type:	Responsible Party	Notifier Name:	SUSAN SERMAN	Notifier Phone:	
Caller Name:	DAVID LEE	Caller Agency:	AMERADA HESS	Caller Phone:	(518) 436−6585
DEC Investigator:	SMSANGES	Contact for more spill info:	DAVID LEE	Contact Person Phone:	(518) 436−6585

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/13/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	20.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

contained in stp sump. no call back needed. in process of clean up.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
4/3/2003 Hess submitted documentation showing repairs made to their STP sumps and remote fill line. Fuel had accumulated in the sump and the system was tightened and repaired to prevent this leak.

Spill Closed

Map Identification Number 86 **ON STREET** **Spill Number: 0402794** **Close Date: 06/28/2004**
WEST 206TH ST./9TH AVE (MANHATTAN, NY TT−Id: 520A−0090−831

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 339 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Local Agency
Caller Name: CHRIS HAAS
DEC Investigator: TJDEMEO
Spiller: CHRIS HAAS − ON STREET
Notifier Name: CHRIS HAAS
Caller Agency: NYC DEP
Contact for more spill info: CHRIS HAAS
Spiller Phone: (917) 769−1263
Notifier Phone: (718) 595−4784
Caller Phone: (718) 595−4784
Contact Person Phone: (917) 769−1263

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/14/2004		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

ABANDONED DRUMS OF WASTE OIL, NONE SPILLED

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
6/29/04 TJD

Drum emptied during drum run on 6/23/04. No further action

required. Spill closed.

Map Identification Number 87 **HARLEM RIVER FACILITY** **Spill Number: 9515576** **Close Date: 11/22/1996**
300 206TH STREET MANHATTAN, NY TT−Id: 520A−0093−191

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 448 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 300 W 206TH ST
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	SAME − DOT	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	JOE DULTZ	Caller Agency:	RECON	Caller Phone:	(908) 526−1000 ext. 4
DEC Investigator:	JMKRIMGO	Contact for more spill info:	MIKE ILIAKIS	Contact Person Phone:	(212) 569−5100

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/04/1996		OTHER	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

they removed 2 550 gallon tanks from the dot facility.

nothing was spilled removal date was april 5 1995.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
NO SPILL.

Map Identification Number 88 **SPILL NUMBER 0204986** **Spill Number: 0204986** **Close Date: 08/13/2002**
3835 9TH AVE MANHATTAN, NY TT−Id: 520A−0091−347

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 458 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	BOBBIES FISH & SEAFOOD	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	JOHN CARPENTER	Caller Agency:	CITIZEN	Caller Phone:	(212) 942−5242
DEC Investigator:	SMSANGES	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/12/2002		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER REPORTS A VAN PARKED AT BUSINESS LEAKS UNK SUBSTANCE TO STREET.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
8/13/2002 − Sangesland spoke with Jose Garcia of Bobby's Fish & Seafood (212−304−9440). He said the cooler in the van broke and it was rotted food dripping out the back door. The van had been cleaned out already. DEC requested Mr. Garcia to wash down the street with some soap & water.

Map Identification Number 89 **420 W 206TH ST OWNERS** **Spill Number: 9514127** **Close Date: 02/06/1996**
420 W 206TH ST RIVERDALE, NY TT−Id: 520A−0094−238

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 564 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	ROBERT CABASSA	Notifier Phone:	(718) 328−3275
Caller Name:	ROBERT CABASSA	Caller Agency:	MB TRUCKING CO	Caller Phone:	(718) 328−3275
DEC Investigator:	SMMARTIN	Contact for more spill info:		Contact Person Phone:	(212) 304−0423

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/06/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	5.00	GALLONS	5.00	GALLONS	SOIL

Caller Remarks:

CALLER DID NOT TALK TO DRIVER YET AND DOES NOT KNOW WHAT CAUSED SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"

Map Identification Number 90 **VAULT V1734** **Spill Number: 9911939** **Close Date: 04/20/2000**
205TH ST / 9TH AV MANHATTAN, NY TT−Id: 520A−0094−250

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 600 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 9TH AV / W 205TH ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR BOSZE	Notifier Phone:	
Caller Name:	BRIAN JOYCE	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	COMENALE	Contact for more spill info:	100 FT NW OF 205TH ST	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/14/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	1.00	GALLONS	SOIL

Caller Remarks:

third party spill − 1 pint − all cleaned up − ref #129614

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

UPDATE
ON 1/19/00 FROM CRIBBIN TWICE AND JOE A. ONCE ON SITE.
SOIL OUTSIDE VAULT CONTAMINATED AND INVESTIGATION GOING ON.
ENTERING THE VAUAL AND REMOVING SOME WALL TO VERIFY THEIR OIL.
COMENALE
E2MIS notes:
1/14/00− In process of clean up from previous spill (incident #129−453) found oil in sump pit with oil leaking from crack in same. Approx. amount was 1 ounce. Found capped sewer connection in sump.
1/15/00− oil sample results 47 ppm PCB. Oil ID'd as "similar to lubricating oil".
1/16/00− checked vautl found no oil leaking through crack in sump wall.
1/18/00− Found 1 quart oil had leached through the drack in the sump wall. Oil was contained to sump pit.
1/19/00− break out wall of sump to determine source of oil. Oil started to come in at heavier rate and found soil saturated. ERT Joe Arcoleo spoke with DEC representative and instructed to install absprbent pads in sump pit and follow up to check pads.
1/21/00− removed 15 oil saturated pads from structure and installed 14 new clean pads.
1/24/00−removed 14 oil absorbent pads saturated and installed 15 new clean pads.
1/26/00− removed 15 pads. 8 saturated with oil, 7 not saturated. Installed 19 new pads.
1/31/00− Removed 15 pads/ 1/2 of 1 pads saturated with oil. 15 new pads installed.
2/2/00− removed 15 pads. 1 pad had oil stain approx. 5 inches in diameter.Installed 15 new pads.

2/4/00− 1 pad had oil stain approx. 4 inches in diameter, pad was removed. Installed 1 new pad.
2/6/00− Found 1 pads with two 1 inch diameter oil stains. Removed all pads and replaced with 2 pads.
2/8/00− Found 1 pads with two 3/4 inch oil stains. Installed 1 new pad.
2/14/00− Found one 3/4 inch stain on one pad. Replaced pad.
2/21/00 −Found 1 1/2 inch stain on one pad. Replaced pad.
2/23/00− Found 1 inch oil stain on pad − replaced pad.
2/25/00− Found approx. 1 inch oil stain on one pad. Replaced pad.
2/28/00− Found 1 inch stain on pad. Repalced pad.
4/24/00− Instructed by G. Katz, Remediation to seal sump pit as per DEC. No specific instruction from DEC how to seal sump.
4/28/00− Sump sealed with hydraulic cement.
4/29/00− Structure inspected − no sign of oil leaking through patch.
5/9/00− Clean up completed. 1 drum clean up debris removed from location to 110th St. Yard.
5/15/00− Structure inspected − no sign of oil leaking through patch.

O'CONNELL NOTES:
4/20/00 − Site visit accompanied by Glen Katz, Brian McGeever (Con Ed). Was told histiry of sump leakage. Told them to ceal sump, send me documentation of same and I will close out spill.

Map Identification Number 91 **ONE QT OIL IN MH 40038 (TIDAL)** **Spill Number: 0712932** **Close Date: 05/12/2008**
WEST 205 STREET & 9 AVENUE MANHATTAN, NY TT−Id: 520A−0214−902

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 600 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 205TH ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/08/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

13: 00 discovered to be a possible tidal manhole − water coming into the manhole (1 block from river)
1 quart − not cleaned up − pending resources
con ed #210215
NRC 864419

DEC Investigator Remarks:

05/12/08 − See eDocs for Con Ed report detailing cleanup and closure.

210215. see eDocs

Map Identification Number 92 **MAN HOLE # 406** **Spill Number: 0105510** **Close Date: 09/06/2006**
10TH AVE / POST AVE MANHATTAN, NY TT−Id: 520A−0090−095

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 621 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	RICHARD ROACH	Notifier Phone:	(212) 580−6763
Caller Name:	RICHARD ROACH	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/21/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

con ed # 139038 spill confined in man hole on 200 gallons of water clean up pending lab results no to all 5 questions

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DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "RODRIGUEZ"

9/6/06 − See e−docs for spill closure documentation. (JHO)

Map Identification Number 93 **CONCRETE PAD** **Spill Number: 0902593** **Close Date: 06/03/2009**
3961 10TH AVE NEW YORK CITY, NY 10034 TT−Id: 520A−0229−414

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	DRUM	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	SAME AS ABOVE	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/03/2009		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
LUBE OIL	PETROLEUM	120.00	POUNDS	0.00	POUNDS	

Caller Remarks:

120 lbs of lube oil spilled onto concrete hazmat pad. Clean up has been conducted. They would like a call back at the number above or 646−252−5777.

DEC Investigator Remarks:

Drum of Lube oil was being moved by a fork lift inside a HazMat building at a Transit Yard. Drum fell off the pallet and spilled onto a cement floor. No drains, all cleaned up. Copy of transit paperwork is attached in eDocs.

Map Identification Number 94 **207TH STREET YARD** **Spill Number: 0405363** **Close Date: 01/11/2005**
3961 TENTH AVE MANHATTAN, NY TT−Id: 520A−0098−332

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3961 10TH AVE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	NYCT	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	LOUCHI BUROHA	Notifier Phone:	(718) 243−4581
Caller Name:	LOUCHI BUROHA	Caller Agency:	NYC TRANSIT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	LOUCHI BUROHA	Contact Person Phone:	(718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/16/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL
TRANSFORMER OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

Caller states that it is unknown how long the 3 transformers have been at this location, 1 of 3 was leaking, soil samples are being done.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"

11/30/04 − According to NYCT, three transformers were located on a wood platform. One of the transformers had a slight leak. There was a slight stain on the wood platform but no staining of the soill underneath. A sample of the oil was taken from inside the transformer. The results show no evidence of PCB’s or hazardous compounds. The transfer was removed.

Map Identification Number 95 **207TH STREET YARD** **Spill Number: 0208829** **Close Date: 12/23/2002**
207TH ST MANHATTAN, NY TT−Id: 520A−0098−336

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	NEW YORK CITY TRANSIT AUT	Spiller Phone:	(718) 243−4581
Notifier Type:	Responsible Party	Notifier Name:	MIKE CATUNIO	Notifier Phone:	
Caller Name:	PASHKO CAMAJ	Caller Agency:	NEW YORK CITY TRANSIT AUT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	PASHKO CAMAJ	Contact Person Phone:	(718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/25/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MERCURY	HAZARDOUS MATERIAL	2.00	POUNDS	2.00	POUNDS	SOIL

Caller Remarks:

all cleaned up. may have come off a truck.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
All State Power Vac 718−456−7779 or 800−876−9699 was contracted for clean up. It was a 2’ x 3’ area affected. Spill was vaccumed by contractor. Zhao sujested Pashko to contact NYCDEP to measure the concentrations to make sure clean up complete.

Contained and cleaned by NYCT contractor.

Map Identification Number 96 **207TH ST OVERHAUL SHOP** **Spill Number: 0101334** **Close Date: 10/19/2004**
3961 TENTH AVE MANHATTAN, NY TT−Id: 520A−0098−330

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3961 10TH AVE
Revised zip code: 10034

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: JIM CONNORS
Notifier Phone: (718) 243−4581
Caller Name: JOSEPHINE BROWN
Caller Agency: NEW YORK CITY TRANSIT AUT
Caller Phone: (718) 243−4581
DEC Investigator: MCTIBBE
Contact for more spill info: JIM CONNORS
Contact Person Phone: (212) 544−3294

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/04/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SURFACE WATER

Caller Remarks:

unknown product spilling out of unknown pipe in harlem river.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"

10/19/04: As per a NYCT e−mail dated 10/14/04, OSS was notified about a sheen in the East River by this yard, possibly coming from a storm drain. During a visit, OSS did not see any sheen comin g from that drain. They did observe a sheen in the river but the source could not be determined. Neither OSS nor DOS has any further informatiion pertaining to this spill.

Map Identification Number 97 **AUTO REPAIR SHOP** **Spill Number: 0709713** **Close Date: 12/10/2007**
10TH AVE & ISHAM ST MANHATTEN, NY TT−Id: 520A−0211−086

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 662 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: 10TH AVE / ISHAM ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: MANUEL CUSTODIUS − AUTO REPAIR SHOP
Spiller Phone: (921) 294−2435
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: MANUEL CUSTODIUS
Contact Person Phone: (921) 294−2435

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/10/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MOTOR OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

THEY DUMP OIL ON GROUND AT ABOVE ADDRESS

DEC Investigator Remarks:

12/10/07−Hiralkumar Patel. contact number for Mr. Custodius is wrong. no contact info.

insufficient information. case closed.

Map Identification Number 98 **SHERMAN AV AND** **Spill Number: 0304194** **Close Date: 08/27/2003**
ISHAM ST MANHATTAN, NY TT−Id: 520A−0098−341

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 951 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: SHERMAN AV / ISHAM ST
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	CALLER − CON ED	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR BRUNS	Notifier Phone:	(212) 580−6763
Caller Name:	RON ELLIOTT	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/21/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

sb 46214 149392

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 149−392:

On 7/21/03 at 11:54 splicer found 1/2 pt. of unknown oil mixed with 20 gal water in servicebox 46214. The cause & source of the oil is unknown. There was no sewers or waterways affected. No smoke or fire was involved. No injuries were related to the spill. No private property was affected. No substantial cracks were visable. Two samples were taken.

7/21/03 17:31 Received lab results, lab sequence number 03−05992−001 Analysis indicates the presence of a substance similar to a light fuel oil.

Update due to the results coming back as a fuel oil & will now need a flashpoint & then to set this up with a vendor after results come in this will be changed to a spill & not a 24 hr deminimis.

Aroclor 1242 < 1.0 ppm EPA 608/8082

Aroclor 1254 < 1.0 ppm EPA 608/8082

Aroclor 1248 < 1.0 ppm EPA 608/8082

Aroclor 1260 < 1.0 ppm EPA 608/8082

7/22 @ 05:30

Scott Crissey informed me that at 04:10 on 7/22 he took the new sample and the courier will be called for sample pickup to Astoria. The Chain of Custody # CC− 16575 will be used.

Update 7−22−03 @ 10:51

Lab Sequence Number: 03−06011−001 Date Approved: 7/22/2003

E2 Incident Number: 149392 Date Received: 7/22/2003

Chain of Custody ID: CC16575 Date Sampled: 7/22/2003

Flash Point, COC > 140 deg F ASTM D92−1.....J Moran #01182

7/31 @ 12:33

Demodna # 19654 of the Undergropund reported to me that the cleanup has completed as of 12:30 on 7/31/2003.

Two bags of PPE were removed and approx 100 gallons of liquid was picked up by the tanker. The structure was double−washed with "SLIX". The Environmental tag # 17174 was removed.

Map Identification Number 99 **MAJOR DEEGAN & W FORDHAM** **Spill Number: 9703877** **Close Date: 06/30/1997**
MAJOR DEEGAN & W FORDHAM BRONX, NY TT−Id: 520A−0014−430

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 953 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: I− 87 / W FORDHAM RD
Revised zip code: 10468

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:	FIREMAN KELLER	Notifier Phone:	(917) 769−0483
Caller Name:	FIREMAN KELLER	Caller Agency:	NEW YORK CITY FIRE DEPART	Caller Phone:	(917) 769−0483
DEC Investigator:	KSTANG	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/30/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SURFACE WATER

Caller Remarks:

200 FOOT SPILL ON SOUTHBOUND ENTRANCE RAMP. FIRE DEPARTMENT ON SCENE. SOME INTO STORM DRAINS THAT LEAD TO EAST RIVER. DEPARTMENT OF SANITATION ENROUTE WITH SAND. NYC DEP ENROUTE TO TAKE SAMPLES. NO RESPONSE NEEDED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
CALLED THE NYCFD, SAID ONLY A FEW GALLONS INTO THE SEWER, PROBABLY DIDN'T IMPACT THE EAST RIVER.

Map Identification Number 100 **MAJOR DEEGAN & FORDHAM RD** **Spill Number: 8909821** **Close Date: 12/08/1992**

MAJOR DEEGAN & FORDHAM RD NEW YORK CITY, NY TT−Id: 520A−0014−433

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 953 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: I− 87 / W FORDHAM RD
Revised zip code: 10468

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:	F.O. CASSIDY	Caller Agency:	NYCFD HAZ MAT	Caller Phone:	(212) 847−0588
DEC Investigator:	SIGONA	Contact for more spill info:		Contact Person Phone:	

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/12/1990	12/08/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
CREOSOTE	HAZARDOUS MATERIAL	−1.00	UNKNOWN	0.00	UNKNOWN	SURFACE WATER

Caller Remarks:

TELEPHONE POLES ON BARGE CAUGHT FIRE, USCG NOTIFIED, USCG TAKES NO ACTION FOR CREOSOTE, NYC FIRE DEPT HAZMAT PUTTING OUT FIRE, DEC (SIGONA) TO INVESTIGATE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 101 **1GAL FROM DEAD A TRANS FEEDER** **Spill Number: 0606852** **Close Date: 12/21/2006**

120 EXTERIOR ROAD & FORDAM ROAD BRONX, NY TT−Id: 520A−0218−695
CABLE HOUSE

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 953 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: ERTS − CON EDISON Spiller Phone: (212) 580−8383
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: GDBREEN Contact for more spill info: ERTS Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/14/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CONED # 202467

DEC Investigator Remarks:

12/21/06 − See e−docs for Con Ed report detailing cleanup and closure.

202467. see eDocs

Map Identification Number 102 **WEST 211TH ST & 10TH AVE.** **Spill Number: 9309778** **Close Date: 04/13/1994**
WEST 211TH ST / 10TH AVE MANHATTAN, NY TT−Id: 520A−0094−289

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1026 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	SUSMITA	Caller Agency:	NYNEX	Caller Phone:	(212) 338−7126
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/12/1993		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SEWER

Caller Remarks:

ENVIR. PROD. & SERVICES 11−15TH SCHED. TO CLEAN UP.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
10/10/95: This is additional information about material spilled from the translation of the old spill file: OIL IN MANHOLE.
CLEANED BY NYNEX.

Map Identification Number 103 **MANHOLE # 43454** **Spill Number: 0101081** **Close Date: 08/22/2001**
10TH AVE/WEST 211TH ST MANHATTAN, NY TT−Id: 520A−0090−086

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1026 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	BOB PELLIGRINO	Notifier Phone:	
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6765
DEC Investigator:	JHOCONNE	Contact for more spill info:	CHARLIE MCCARTHY	Contact Person Phone:	(212) 580−6765

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/27/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	3.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION ON TOP OF 97 GALLONS

OF WATER. SAMPLE TAKEN AND CLEANUP PENDING ARRIVAL OF CREW.

CON ED # 136697.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
CON ED E2MIS REPORT 4−27−01

3gals.of an unknown oil & 97gals. of water foun din MH−43454. Maintanance crew reported that he did not know to call in the incident as soon as he discovered it. According to the conduit plate there is a sewer connection. A sample was taken. Cleanup will begin as soon as a crew and tanker can be scheduled for the job.

Cleanup scheduled for 3−11pm shift and over 50 tanker ordered.

1610hrs.

Declassify this spill from a 'Spill−deminimus 24hr" to "Spill−Oil" unknown type due to unavailability of crew. Cleanup will be rescheduled for Monday 4−30−01

LSN 01−05243 Aroclor <1ppm, PCBs <1ppm

Upadate

On Monday, May 5th UG reported that the following cleanup was done. Tanker removed 1400gals. of water mixed with oil from MH43454. The structure wa double washed with slix, brushed and high pressure hosed with flush truck. PPE ws bagged and disposed of properly. Tag removed

Map Identification Number 104 **MANHOLE #43454** **Spill Number: 0006049** **Close Date: 12/14/2000**
W 211 ST & 10TH AV MANHATTAN, NY TT−Id: 520A−0090−230

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1026 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: W 211TH ST / 10TH AVE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR TIMMONS	Notifier Phone:	
Caller Name:	RICHARD ROACH	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	RICHARD ROACH	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/22/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

WORKERS FOUND APPROX 5 GALLONS OF AN UNKNOWN OIL IN THE ABOVE MANHOLE, SAMPLES WERE TAKEN AND CLEAN UP WILL PEND THE TEST RESULTS

(NO CONED SPILL #)

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis notes:

8/22/200 1:00 hrs. 5 gallons of unknown oil mixed with 200 gallons of water in m−43454 at the east intersection of w. 211th street & 10th ave. Crew inspecting hole for Telergy work. Conduit plates shows sewer connections. Sample taken for Id and PCB.

8/22/2000 15:49 hrs.

PCB count <1 ppm.

9/1/2000: <50 ppm.

Cleanup Type: Intermediate cleanup

Tanker took out 2300 gallons, flush double washed, slix and degreaser used.

9/1/2000 17:00 hours

Liquid amount: 2300 gallons oil/water mixture

Cleanup info: Tanker removed 2300 gallons, flush double washed the floor and walls using a high pressure hose and bio−genesis solutions (slix) as the degreaser. A final rinse of the hole was conducted by the flush.

Map Identification Number 105 **MANHOLE #00404** **Spill Number: 0504949** **Close Date: 08/27/2008**
10TH AVE/WEST 204TH MANHATTAN, NY TT−Id: 520A−0090−257

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1040 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: WEST 204TH ST / 10TH AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN AT THIS TIME:	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	RON ELLIOTT	Notifier Phone:	(212) 580−8383
Caller Name:	RON ELLIOTT	Caller Agency:	CON ED	Caller Phone:	(212) 580−8383
DEC Investigator:	SKARAKHA	Contact for more spill info:	ERT DESK‘	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/25/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

NO TO 5QUESTION: ON 1 GALLON OF WATER: CLEAN UP PENDING TEST RESULTS: CONED # 159986

DEC Investigator Remarks:

08/27/08 − See eDocs for Con Ed report detailing cleanup and closure.

e2mis no 159686

J.Marrero#85962 found approx. 1 gallon of unknown oil and 1 gallon of water in the sump in M00404. J.Marrero#85962 also states that there is a yellow tag in M00404, but there is no number and no information on it. There was no sewers or watersways were affected. The source and cause of the spill is unknown at this time, but J.Marrero#85962 states that there seems to be oil seeping out of one of the ducts in M00404. There is oil filled equipment in M00404. The water is standing, with no visible movement. There is a concrete sump. There are no substantial cracks in M00404. There were two samples taken from M00404, 1 for PCB's AND 1 for oil ID. There was no initial cleanup action taken. The clean up is pending availible crews, test results and possible a tanker.

Map Identification Number 106 **EXTERIOR ST − LANDING RD** **Spill Number: 9508967** **Close Date: 12/30/2005**

EXTERIOR ST − LANDING RD BRONX, NY TT−Id: 520A−0014−395

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1045 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: EXTERIOR ST / LANDING RD
Revised zip code: 10468

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	RICHARD ROACH − CON EDISON	Spiller Phone:	(212) 580−6764
Notifier Type:	Responsible Party	Notifier Name:	MR COLETTA	Notifier Phone:	(212) 580−6764
Caller Name:	MR ROACH	Caller Agency:	CON ED	Caller Phone:	(212) 580−6764
DEC Investigator:	SKARAKHA	Contact for more spill info:	SAME	Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/20/1995		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PCB OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

61 parts per million in soil sample taken from above location.

unknown how much pcb oil is in ground. conctor will be on site

sat 10/21/95. clean harbor is contractor.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Doing cleanup at bronx cable house. some silt and mud at base of pump cable house. one sample came back with 61 ppm pcb's took three samples other 12 & 15 ppm. don't know if it is random PCBs. spill cleanup contractor to be there tomorrow at 8:00am. spill on CON ed propery, no exposure to general public. cable house is below grade. to his knowledge, no groundwater contact. cable dielectric? not sure. rep stated no visible sign of oil just silt and mud. just wanted to remove mud from base of building. came in contact with mud. on site at 10:15 hours. pete cooney − con ed electric construction division. tom willis − clean harbors. clean harbors on−site and will do cleanup at low tide, guzzling into rolloffs. will start tues or wed next week. expect 2 rolloffs of sediment. (MMM)

10/23/95: Joe Deveny, Con Ed − Are under cable house sampled at request of Env. Affairs (Mariela Gonzalez). Oil found from retired oil regulator leaking. (CAE)

10/24/95, 8:55 AM − Mariela Gonzalez (Con Ed EA). Clean Harbors assigned to clean up on site this morning. Will remove 30 − 40 yards. (CAE)

10/27/95: Mariela Gonzalez − Clean Harbors working today − expected to finish today. Remove 35 yards of oily soil − found concrete slab under soil − going to remove. (CAE)

10/30/95: site visit with Bob DePass (Con Ed EA). Requested copies of lab analytical. (CAE)

11/6/95: lab data submitted by Con Ed. Results range from non detect to 86 ppm from various locations within the cable house.

11/8/95: Wipe samples collected from below−grade concrete slab following initial clean up.

11/15/95: results forwarded to DEC − six of eight samples equal or exceed EPA clean up standard for indoor surfaces of 10 ug/100 cm2.

11/22/95: Letter from Con Ed formally transmitting wipe sample results. Will consider these surfaces cleaned. EPA requires low contact indoor surfaces to be <10 ug/100 cm2, and low contact outdoor surfaces to be <100 ug/100 cm2. As of 2/9/96, EPA considers manholes to be indoor. They are awaiting documentation from Con Ed to categorize these as outdoor. Since the highest concentration is 20 ug/100 cm2 and the area is restricted access and the structure is not a work place for anyone (people only go there every couple of years) will accept this level of clean up. (CAE)

2/9/96: spoke to Dorothy Zoledziowska of USEPA Region 2 TSCA (908) 906−6811. Asked her if cable house would be considered low contact indoor restricted area or low contact outdoor restricted area fro purpose of clean up criteria. She said that this question has been asked by Con Ed before, concerning manholes. EPA would consider classifying manholes as outdoor structures, but are awaiting written request with information from Con Ed. So presently EPA considers manholes indoor surfaces thus requiring clean up to be done to <10 ug/100 cm2. We will apply this until EPA gives further guidance. Spill of original oil contained 136 ppm PCB by analysis. If this is the case, then Con Ed is only required to do a double wash/rinse. (CAE)

4/96: Draft Scope of Work for Subsurface Environmental Investigation submitted for review.

7/10/96: Phone call to Bob DePass (EA) − Con Ed has petitioned EPA (Dan Kraft − Region 2) to relax cleanup standards in MH to 100 ug/100 cm2 in cases where they have cleaned up multiple times. Agreed w/ DePass on plan for investigation: 6 borings less than or equal to 25’ from "manhole" offset by 30 degrees from one another. Also, one upgradient (backround) boring as close to property line as possible. (CAE)

7/11/96: letter to Bob DePass confirming agreement of scope of work for investigation. (CAE)

6/02: NYCDEP indicates their intention to purchase the property from Con Ed as part of Croton Water Treatment Plant Project. Spill transferred from Engelhardt to O’Connell. (JHO)

7/18/02: Unable to find file on spill, I contacted Joe Coletta, Con Ed. He said he recalls that spill was to soil inside the cable crossing house (similar to a tunnel head house). He says Engelhardt responded, and All State was used to vac out soil. He will try to find out more info and get back to me. (JHO)

2/7/03: Attempted to track down Joe Coletta − he retired from Con Ed in December. Joe Susco (SSO) indicated that he would try to track down more info on the spill − he thinks it is under the Distribution Group (where Coletta worked in 1995). Susco called back, said he spoke with Jim McCabe (Bronx/Westchester EH&S), who may have some info. (JHO)

2/26/03: found original spill file containing all info from spill date through July 1996. Entered info in database, will contact McCabe to track down Bob DePass for update − was investigation ever conducted? Results? (JHO)

3/3/03: called Maureen Sicherman (Con Ed Remediation) − requested she attempt to track down file for this site. (JHO)

11/30/04: Spill transferred to Arakhan for follow up. (JHO)

Closed. 12−30−05. see eDocs. G. Breen

Map Identification Number 107 **205006; EXTERIOR ST 140‘ N/O LANDING ROAD RAMP** **Spill Number: 0890018** **Close Date: 09/18/2007**
EXTERIOR ST 140‘ N/O LANDING ROAD RAMP , NY TT−Id: 520A−0218−347
(in front of Bronx Cable House)

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1045 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: EXTERIOR ST / LANDING ROAD EAST RAMP
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	Unassigned	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/21/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0.05	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks:

MH−22435 (3x66) 6 oz unknown oil on 1000 gallons of water (front of Cable House)
Closed: Agency Approval Not Required

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 108 **NAGLE AV** **Spill Number: 9802755** **Close Date: 06/04/1998**
NAGLE AVE & 204TH ST MANHATTAN, NY TT−Id: 520A−0092−954

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1068 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NAGLE AV / W 204TH ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	BELL ATLANTIC	Notifier Phone:	
Caller Name:	LORETTA DANGELO	Caller Agency:	MILRO	Caller Phone:	(516) 379−1500
DEC Investigator:	MCTIBBE	Contact for more spill info:	LORETTA DANGELO	Contact Person Phone:	(516) 379−1500

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/02/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

CALLER WAS CONTACTED BY BELL ATLANTIC TO PUMP MANHOLE OUT AND DISCOVERED AN OIL SHEEN ON TOP OF WATER −CLEAN UP CREW IS ON SCENE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
FAX TO ECS. CLEANED BY BELL ATLANTIC.

Map Identification Number 109 **204TH ST & NAGLE AVE** **Spill Number: 9205403** **Close Date: 08/19/1992**
204TH ST & NAGLE AVE BRONX, NY TT−Id: 520A−0092−858

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1068 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: W 204TH ST / NAGLE AVE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	DANNY	Caller Agency:	EMPIRE CITY SUBWAY/NY TEL	Caller Phone:	(212) 577−3719
DEC Investigator:	SULLIVAN	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/10/1992	08/19/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SEWER

Caller Remarks:

MANHOLE TO BE PUMPED BY MILLER ENVIRONMENTAL 516−367−4900.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 110 **MANHOLE # 39481** **Spill Number: 0003888** **Close Date: 04/09/2004**
W 204TH ST & NAGEL AVE MANHATTAN, NY TT−Id: 520A−0092−742

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1068 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: W 204TH ST / NAGLE AV
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:	MR PELLIGRINO	Notifier Phone:	(212) 580−6763
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	BILL MURPHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/29/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1/4 qt on 75 gals of water −sample taken clean up pending results

con ed #132105

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 132105:

approximately 1/4 quart of unknown oil in manhole M39481. The oil was on top of approximately 75 gallons of water. He stated that there was approx. 2 feet of water in the manhole. No cleanup action was taken. Cleanup pending lab results.

Lab seq #00−06334 PCB 74 ppm

date: 6/30/00

Time: 5:30

Cleanup Info: doubled washed walls,floors with degreaser.

Spill Source: unknown

Map Identification Number 111 **LAB RESULTS RADIO FUEL SCREENING** **Spill Number: 1204627** **Close Date: 03/14/2013**
425 WEST 203RD ST NEW YORK, NY TT−Id: 520A−0275−669

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1099 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	PAUL STELLATO − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	SFRAHMAN	Contact for more spill info:	PAUL STELLATO	Contact Person Phone:	(914) 694−9600

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/09/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL, GROUNDWATER

Caller Remarks:

found contamination during investigation.

DEC Investigator Remarks:

08/10/12−Hiralkumar Patel.
9:54 AM:− spoke with Paul. they performed Phase II investigation and found high PAHs in soil and some VOCs in groundwater. asked Paul to submit report.

alternate addresses: 421 W 203rd St, 425−439 W 203rd St
no PBS record found.
other spill # 0411620 was reported as about 30 gal unknown oil found in ConEd structure. case closed after structure cleaned.

West 425 Realty LLC. **property owner, as per ACRIS**
2175 Hudson Terrace
Fort Lee, NJ 07024

10:04 AM:− received email from Paul including his client's information, property owner's information and phase II report.

case assigned to DEC Sharif. Paul's email forwarded to Sharif.

08/16/12 Historical research indicate that the site was utilized as an automobile repair shop from atleast 1926 to 2006.There is the potential for former auto repair and manufacturing operations to have impacted the site.On July 24, 2012 Naeva Geophysics Inc conducted a geophysical survey at the Subject property as directed by IVI. Based on the results of the geophysical survey, it is possible that there are atleast two anomalies, indicative of USTs, on the subject property.IVI recommends that the anomalies

identified be excavated to confirm whether they are USTs.There may be additional anomalies in areas inaccessible to the GPR equipment.IVI advanced five soil borings denoted as B−1 through B−5. Ground water samples from boring B−5 identified numerous VOCs and PAHs to exceed their WQS. Elevated PID readings were identified in boring B−2, B−3 and B−5 and petroleum like odor was detected in the soil and ground water samples from B−5. Analytical results of soil samples identified several VOCs in the soil samples collected from each boring.(sr)

10/22/2012 Investigation Work Plan in edocs.Scope of works include:geophysical anomaly investigation, soil borings, soil sampling and analysis, monitoring well installtion and surveying, ground water sampling and analysis.(sr)

12/10/12 Email from Steven Gustems wrote:"Hi Sharif, we will investigate the GPR anomaly next Wednesday December 12 at approx. 8 am. The area will be excavated with hand equipment to determine if the anomaly is a UST. If we do find a UST we will attempt to determine its size and contents so that we can remobilize with the proper equipment to remove it. If there is no tank, then the hole will be filled and the concrete floor will be restored."

01/03/2013 − Email from Steven Gustems on 01/02/2013 wrote:" Sharif, the anomaly investigation was completed as scheduled and no tanks were found. The drilling and monitoring wells are scheduled to be completed next Wednesday January 9th. Let me know if you have any questions or need any additional information.
Regards,
−Steve"

01/14/13 As per Steven Gustems, borings and monitoring wells were completed on 01/09/ 2013.(sr)

02/25/13 Rec'd Investigation Summary Report prepared by IVI Environmental Inc.The site was utilized as an automobile repair shop from atleast 1926 to 2006. No USTs were encountered during recent GPR survey.Nine soil borings were advanced on the subject site at depths ranging from 4.5 ft to 18 ft bgs.Elevated PID readings identified at boring B−12(MW−4)at conc 360 ppm.Probe refusal encountered on presumed bedrock in borings B−6 through B−8, and B−11.Ground water was observed at depths of 11' bgs.Soil and ground water analytical data from Cima Imports/Cyn−Chriss identified VOC and PAHs below their respective UUSCOs.Results of the geophysical anomalies investigation on December 12 2012 in the Cyn Chriss tenant space did not identify any USTs.A total of eighteen soil borings and five ground water samples were collected. Based on the findings of this assessment, IVI recommends closure of the spill.Report in edocs.Case closed.(sr)

Map Identification Number 112 **SERVICE BOX #S24164** **Spill Number: 0411620** **Close Date: 06/06/2005**
431 W 203RD ST MANHATTAN, NY TT−Id: 520A−0094−236

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1099 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR PAGANO	Notifier Phone:	(212) 580−6763
Caller Name:	PAUL DINONATO	Caller Agency:	CON ED	Caller Phone:	(212) 580−6764
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/30/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Caller reports 10 gallons of unk oil in 30 gallons of water. No to the 5 questions.

DEC Investigator Remarks:

e2mis no. 157014:

On 1/30 @ 08:40 Brunner # 90216 of UG reported to me that while in S−24164 he discovered approx 10 gal of an unk oil and 30 gal of water. He was responding to a "smoker" condition.
No sewer/waterway affected, no fire, but there was smoke from the above condition. The source and cause are unknown at this time, but the Finder states that this is probably a third party spill. There is no movement on the standing water, no sump, no cracks. Diapers were used to try and soak up spill but no good. Samples for PCB and ID will be taken. The Env. tag is pending and the chain of Custody is pending.

UPDATE: This unk oil was mixed with dirt and was in a "sludgy" condition. The spill was contained in the concrete structure.

1/30/05 18:57 received lab results,
Lab Sequence Number: 05−00789−001
TEST DESCRIPTION RESULT UNIT METHOD

PCB Analysis by EPA 608/8082

Aroclor 1242 < 1.0 ppm EPA 608/8082
Aroclor 1254 < 1.0 ppm EPA 608/8082
Aroclor 1248 < 1.0 ppm EPA 608/8082

Aroclor 1260 < 1.0 ppm EPA 608/8082

1/30/05 21:26 V. Mazza # 17336 underground/cleanup supervisor called to report that at 21:15 the cleanup was completed. A tanker removed 30 gallons of liquid from the structure. A a frush truck took all the debris & rest of liquid. The structur ewas double washed with slix. The spill tag # 18705 was removed. The crew was: J. Failla # 17837, M. Zangaro # 00494. c. Galluscio # 03408, F. Mormole # 00459. V. Mazza states that he does not know the source of the oil.

Map Identification Number 113 **216143; CEDAR AVENUE AND W 182 STREET** **Spill Number: 0914112** **Close Date: 03/29/2009**
CEDAR AVENUE AND W 182 STREET NEW YORK, NY TT−Id: 520A−0248−134

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1166 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: CEDAR AVE / W 182ND ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/26/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 114 **MAN HOLE # 445** **Spill Number: 0307078** **Close Date: 12/03/2003**
CEDAR AVE/182ND STREET BRONX, NY TT−Id: 520A−0014−393

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1166 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: CEDAR AVE / W 182ND ST
Revised zip code: 10453

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR SIESFELD	Notifier Phone:	(914) 925−6205
Caller Name:	PAUL DIDONATO	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	SKARAKHA	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/05/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller states that 1 pint spilled onto 1500 gallons of water − contained to the man hole − clean up pending pressure test lab results and parking restrictions − coned # 150602

DEC Investigator Remarks:

05−October−2003 16:57 Hrs

Sr Field Operator Neil Faulkner, 47994, reports 1 pint of an unknown oil on 1500 gallons of water contained in the transformer vault. Sample was taken and is on route to Astoria ChemLab for analysis. Cleanup pending lab results and possible pressure testing unit.

J.Siesfeld 84253

10−08−03 CLEAN UP COMPLETE; DOUBLE WASHED AND RINSED STRUCTURE. 3YD OF NON−HAZ SOLID DEBRIS REMOVED TO BE DISPOSED AT HELLGATE; 750GAL NON−HAZ LIQUID WASTE REMOVED TO BE DISPOSED AT ASTORIA. SUMP IS CEMENT AND THERE IS NO SEWER CONNECTION. UNIT WAS PRESSURE TESTED 10/07/03 AND HELD PRESSURE.

AMD

Map Identification Number 115 **OIL COMING INTO MH 23033 FROM DUCTS.** **Spill Number: 0803054** **Close Date: 08/27/2008**
CEDAR AVENUE & FORDAHM ROAD BRONX, NY TT−Id: 520A−0218−341

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1203 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: CEDAR AVE / W FORDHAM RD
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/14/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

coming through service ducts, contained to manhole #23033. 211930

DEC Investigator Remarks:

08/27/08 − See eDocs for Con Ed report detailing cleanup and closure.

211930. see eDocs

8/26/08 − Austin − EMIS QA review − PCB analysis for oil itself came back as 1,457 ppm. Wipes also came out with some results shoing >10. Rinse done − close

Map Identification Number 116 **MANHOLE 24185** **Spill Number: 9903826** **Close Date: 01/30/2004**
518 − 522 W 204TH ST MANHATTAN, NY TT−Id: 520A−0098−355

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1238 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	MR BOOMER	Notifier Phone:	
Caller Name:	STEVE ROMERO	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:	STEVE ROMERO	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/02/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

5 GAL FOUND IN MANHOLE ON 250 GAL WATER. SAMPLE TAKEN CLEANUP PENDING TEST RESULTS #126050

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis no. 126050:

APPROXIMATELY 5 GAL. OF AN UNKNOWN OIL SUBSTANCE MIXED WITH 250 GAL. OF WATER. SAMPLE WAS TAKEN. NO CLEANUP ACTION WAS TAKEN PENDING TEST RESULTS.

LAB SEQUENCE # 99−06933

AROCLOR − 1254 PCB − 10 PPM

DATE AND TIME THE CLEANUP COMPLETED : 7/3/99 , 08:00. CLEANUP PROCEDURE : OIL AND WATER REMOVED VIA TANKER UNDER < 50 PPM, SHOVEL LEAD CONTAMINATED MUD AND SOLID WASTE IN 55 GAL DRUMS, WAS DOUBLE WASHED WITH BIO−GENESIS SOLUTION,MANHOLE WAS THEN RINSED BY FLUSH TRUCK.

Map Identification Number 117 **APT BLDG** **Spill Number: 1216029** **Close Date: 04/25/2013**
2254 CEDAR AVE BRONX, NY TT−Id: 520A−0286−191

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1269 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	IGNACIO CASTILLO − EXCLUSIVE REALTY	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	vszhune	Contact for more spill info:	DAVID VEGA	Contact Person Phone:	7183783000

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/04/2013		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

contamination discovered when replacing fill line. Clean up in progress.

DEC Investigator Remarks:

3/29/2013 Sangesland called David Vega at Eastmond asking about status.

04/16/13−Zhune visited the site met the super. As per the super the fill line is an underground line it was leaking. Eastmond removed the line and the soil contamination and
collected two soil samples. Eastmond installed a new doble wall line.

Map Identification Number 118 **DERMOT COMPANY APT. BUILDING** **Spill Number: 0805791** **Close Date: 12/16/2008**
87 POST AVE MANHATTAN, NY TT−Id: 520A−0220−546

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1279 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Notifier Type: Fire Department
Caller Name:
DEC Investigator: jbvought
Spiller: HESS
Notifier Name:
Caller Agency:
Contact for more spill info: DERMIT REALTY CORP
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 488−1770

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/20/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	250.00	GALLONS	0.00	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

NOT OUT OF THE CONTAINMENT POOL THAT SUROUNDS THE TANK; HESS IS IN ROUTE; FIRE DEPT. ON SCENE

DEC Investigator Remarks:

08/20/08−Vought−Daytime runner. See also open spill #0800991 for tank test failure of tank at this location and subsequent DEC TTF letter dated 5/2/08. Vought responded to site and on−scene were Hess (Raymond Sojka 908−803−9863), Petroleum Tank Cleaners, super (Marcos Suarez 917−642−6671), NYCDEP Hazmat (Faisal) and Dermot Company (Dominique Bauduy 646−235−5655 dbauduy@dermotcompany.com). Delivery by Park Ave (subcontractor of Hess) in am resulted in overfill and spill came out of tank manway (tank is 2500−gallon #2 fuel oil AST in concrete coffin with two weepholes). Spill ran from tankroom into adjacent boiler room and pooled in low point by boiler with impact to sump pit. As per Hess (Sojka), owner ordered 1000−gallons to be delivered as according to gauge, 1000−gallons was already in AST. Spill occurred before 1000−gallons was delivered. Sump pit was unplugged at time of DEC arrival. Petroleum Tank Cleaners hired by Hess and enroute with vacuum truck. Product will be pumped out and concrete will be powerwashed. Vought also spoke to Dermot Company (Jeanette Semidey Ph:212−488−1770x6133 fax:646−607−9159) regarding issuance of violation order for spill and not responding to Departments previous TTF letter (see spill 0800991).

Concrete was epoxy sealed with no visible cracks or conduits to subsurface. Product also remained pooled from am to afternoon until PTC responded suggesting no infiltration into subsurface soils. Vought issued Violation Order that was signed by super (Marcos) and hearing date set for 9/10 at 1:30am.

08/21/08−Received call from Ray Sojka who confirmed that product was recovered by PTC and site was powerwashed as well and also confirmed presence of two weepholes at base of tank coffin. DEC requires: 1)updating of PBS #2−0602240 information with current owners and contacts 2)addressing TTF in spill #0805791 3)submisson of written description of cleanup 4)cc to DEC Falvey and email to Dermot (Bauduy) 5)attachment of previous DEC letter dated 5/2 for spill #0800991 and Violation Order 6)repair or replacement of petrometer. Vought sent CSL letter with outstanding requirements from Spill #0800991 and above requirements as well with one month due date of submission of cleanup description. Vought sent CSL to:

Ms. Dominique Bauduy
The Dermot Company
1775 Broadway, Suite 510
New York, NY 10019
Fax:(646)607−9159

09/10/08−Vought−Violation hearing with DEC Burke, DEC Falvey, DEC Vought and Dermot (Carmen Santiago:

Carmen Santiago
The Dermot Company Realty Management Co., Inc.
1775 Broadway
Suite 510
New York, NY 10019
Ph: 646−747−6129
Fax:212−245−4803
email: csantiago@dermotcompany.com

As per Santiago. tank is an AST due to weepholes, she is the project manager and Dominique Bauduy is the property mananger, she submitted registration of 87 Post Avenue and new owners of 87 Post Ave are:

Thayer Street Portfolio Investors, LLC at 87 Post Avenue
320 West 57th Street

12/16/08−Vought−Violation conference with DEC Falvey, DEC Byrne, DEC Vought, Asher E Taub Esq (ph:718−891−1200 fax:718−891−2274) and Jack Jaffa(ph:718−855−6110 fax:718−852−9609). As per National Invoice dated 9/18/08, "Chekced petrometer gauge and performed manual stick reading of level of oil inside oil tank. Found petrometer gauge reading 63 inches and manual reading also showed 63 inches. Gauge is working properly. Removed and inspected vent cap as well and found working properly". Tank was isolated and retested by ProTest on 9/22/08 after gasket was replaced and tank passed tightness test (EZY 3 Locator Plus). Entire tank system passed test on 11/19/08 and tightness tests results provided to DEC. Invoice from Petroleum Tank Cleaners dated 8/20/08 shows recovery of 300 gallons of water, disposal of 6(55−gallon drums), steam unit, pressure washer and degreaser, vacuum truck and labor. Spill closed by Vought after disscussion with DEC Byrne. Byrne to send out Consent Order for penalty for violations.

01/26/10−Vought−DEC Sangesland received call from attorney for Dermot Properties (Evan Katin−Borland Ph:646−822−1321) who noted

that he was calling concerning DEC legal case and requested further information.

Map Identification Number 119 **RESIDENCE** **Spill Number: 0606880** **Close Date: 09/15/2006**
145 VERMILYEA AVE MANHATTAN, NY TT−Id: 520A−0098−342

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1359 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Notifier Type: Fire Department
Caller Name:
DEC Investigator: JBVOUGHT
Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info: JOHN OMALLY
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (347) 203−6886

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/14/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	50.00	GALLONS	50.00	GALLONS	SOIL, SEWER

Caller Remarks:

50 gallon spill now plugged. Contractor is on scene. Undetermined amount went into sewer. Caller believes tank failed.

DEC Investigator Remarks:

09/15/06−Vought−Off hours responder. Duplicate spill report. This spill closed and referred to spill #0606880. Spill closed by Vought.

Map Identification Number 120 **MANHOLE 451M** **Spill Number: 9912714** **Close Date: 11/15/2004**
W 202NC ST AT 9TH AVE MANHATTAN, NY TT−Id: 520A−0099−685

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR MCQUEEN	Notifier Phone:	
Caller Name:	JIMMY FOX	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/08/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	8.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

found 8 gals unknown oil on 400 gals water −− samples taken − clean up pending results

con ed 129890.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Con Ed monthly status report from Feb 2002 indicates cleanup is pending test results.

11/15/04: Track under spill number 0105182. Close out. (JHO)

~~~~~~~~~~~~~~~~~~~~~~~~
e2mis no. 129890:

On February 08, 2000, J. Turner, Lead Mech, 27304 and R. Cousins, Mech A, 50436 of Transmission Operations was doing a routine inspection on manhole 451M, Feeder 99031. They discovered approx. 8 gallons of unknown oil and approx. 400 gallons of water. A tag was hung, no. 3179. Chem Lab will be notified to take samples. No injuries or outside impact. No sewer or waterway affected. Cleanup will take place within 48 hours, if necessary. The cause of the oil is unknown.

02/08/00 at 21:08 lab−results 00−01113, aroclor 1254 pcb 2385 ppm in mh451

UPDATE
Per R. Taibi, Supervisor, 49222
~~~~~~~~~~~~~~~~~~~~~~~~

Manhole #2074, this hole has been cleaned twice, wipe samples taken, and results pending.

UPDATE
This is an update on Inc. # 129890, Clean Harbors Inc. power washed manhole #451 on 03−29−00, wipe samples have failed again, Lab Seq. # 00−03001−024. Installed PCB tag at the manhole chimney. Per CEP 6.8, where two cleanup attempts have been performed and the 10 ug/100 cm2 cleanup standard cannot be achieved, cleanup measures can be stopped temporarily. The structure must be tagged to indicate that the structure is still considered to be contaminated with PCBs, and the procedures of CEP 6.8 must be followed for future oil and wastewater in the manhole.

The manhole has been cleaned (double wash−rinse) and sampled as follows:
(1) First cleanup attempt by CLEAN HARBORS on 2−10−00. Sample results: Lab Sequence Number 00−01113
(2) Second cleanup attempt by CLEAN HARBORS on 3−29−00. Sample results: Lab Sequence Number 00−01234
(3) Manhole has been tagged with tag no. PCB−TAG

Map Identification Number 121 **MANHOLE #451** **Spill Number: 9808098** **Close Date: 11/05/2003**
202TH ST & 9TH AVE MANHATTAN, NY TT−Id: 520A−0099−684

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	FRANK MASSARIA − CON ED	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	MR MCQUEEN	Notifier Phone:	
Caller Name:	FRANK MASSARIA	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/01/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	30.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

PRODUCT FOUND IN MANHOLE / CONTAINED / SAMPLES TAKEN.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
E2MIS 120218

On October 1, 1998, J Turner, 27304, R Guilford, 42937 doing a routine manhole inspection on manhole 451, feeder 99031 and found 30 gallons of oil and 700

gallons of water. All contained in manhole. No injuries or outside impact. No waterway or sewer affected. Chem Lab was called to take samples which will be

taken between 1400 to 1600 hours. Called CIG spoke with F Masseria, 76972 at 13:48.

Entered by: E McQueen, 45223

Update by G. Vuocolo, 17185, on 10/08/98 − Manhole pumped out unable to make repair for outage required. Scheduled outage 10/18 to 10/22/98.

Entered by: E McQueen, 45223, 10/08/98

Dept/Facility

SMALL OIL SPILL Con Edison Incident No. _120218_____

CLEANUP CHECKLIST NYSDEC Spill No. _____

Name of person completing checklist: W CONNELL, LEAD MECH, 14325

Con Edison Operating Department responsible for spill cleanup:

(1) A small oil spill is a spill of oil containing less than 50 ppm PCBs that does not meet the criteria for a de minimis spill and satisfies either of the following

conditions:

? It is totally contained in an impervious structure, such as a manhole, vault, or moat, or

? It meets all of the following criteria:

− No sewer or waterway is affected, and

− No private property is affected, and

− No personal injuries are involved, and

− Cleanup is completed within 72 hours of the spill discovery, and

− Less than 50 gallons of oil, petroleum product of any kind, or dielectric fluid is spilled.

(2) Material spilled/discovered:

Environmental Detailed Incident Report

E2MIS 13−OCT−2003 09:54:00 Page 3 of 7

0 Oil (type); PCB concentration: less than 50 ppm; known / unknown.

X Dielectric fluid; PCB concentration: less than 50 ppm; known / unknown.

If unknown PCB concentration, was sample collected? 0 Yes 0 No

(3) Sample submitted for analysis? X Yes Sample ID No. 98−10432 0 No

For what parameters? X PCB X Benzene 0 Other Parameters

Copy of chain of custody form attached? 0 Yes X No

(4) Amount spilled/discovered: 1 PINT If leak/spill is continuing, rate N/A

(5) When was spill discovered? Date: 10/09/98 Time : 10:30

(6) Location of spill. (Be as precise as possible. Include cross streets, manhole numbers, equipment box numbers, etc., as appropriate.)

MH 451X − W 202ND ST & 9TH AVE − MANHATTEN

0 Sketch attached

(7) Source/cause of spill. (Be as precise as possible. Include equipment numbers, if possible.)

ON ROUTINE INSPECTION T GERMANO, LEAD MECH, 07006 & V VILLANI, LEAD MECH, 49263 FOUND OUL & WATER IN MANHOLE; SPILL

CONTAINED IN MANHOLE; NO LEAK FOUND "B" PHASE CABLE LEAK

0 Unknown

(8) Description of area affected by spill (include dimensions as appropriate)

MH451 CABLE

(9) Containment/Cleanup Activities (per GEI 2.11, 2.13, 2.16, 3.2, or 3.3) 0 Sketches attached.

0 Tightened valve.

0 Placed drip plan.

0 Sealed leak.

0 Blocked nearby sewers/drains with spill kits.

0 Removed/recovered liquid/solids.

0 Used absorbents to remove residual fluids.

0 Removed contaminated vegetation.

0 Removed visible traces of oil.

0 Washed stained areas.

0 Excavated contaminated soil, bluestone.

X Other: PUMPED MANHOLE OUT EPOXY REPAIR TO CABLE

0 See attached contractor report.

(10) Identify who performed cleanup:

0 Con Edison personnel/department?

0 Name of contractor CON EDISON TANKERS

0 Contractor report attached.

(11) Cleanup completed on Date 10/27/98 Time* 1400

*Note: If the cleanup is completed more than 72 hours after the spill was discovered, the spill is a large oil spill.

(12) Con Edison personnel directing cleanup ROBERT TAIBI, SUPERVISOR, 49222, 10/10/98

Detailed Description:

Environmental Detailed Incident Report

E2MIS 13−OCT−2003 09:54:00 Page 4 of 7

****NOTE****

REPORTED BY G. VUOCOLO, SUPERVISOR, 17185

MANHOLE WAS PUMPED OUT. REPAIR NOT MADE, FEEDER OUTAGE CANCELLED 10/19/98. FEEDER 99031 TO BE RESCHEDULED.

ENTERED BY: E MCQUEEN, 45223, 10/20/98

Dept/Facility

SMALL OIL SPILL Con Edison Incident No. 120218_____

CLEANUP CHECKLIST NYSDEC Spill No. 98−08098_____

Name of person completing checklist: G HIGGINS, 94816, SUPERVISOR

Con Edison Operating Department responsible for spill cleanup: TRANS OPERS/LPC

(1) A small oil spill is a spill of oil containing less than 50 ppm PCBs that does not meet the criteria for a de minimis spill and satisfies either of the following

conditions:

? It is totally contained in an impervious structure, such as a manhole, vault, or moat, or

? It meets all of the following criteria:

− No sewer or waterway is affected, and

− No private property is affected, and

− No personal injuries are involved, and

− Cleanup is completed within 72 hours of the spill discovery, and

− Less than 50 gallons of oil, petroleum product of any kind, or dielectric fluid is spilled.

(2) Material spilled/discovered:

0 Oil (type); PCB concentration: less than 50 ppm; known / unknown.

X Dielectric fluid; PCB concentration: less than 50 ppm; known / unknown.

If unknown PCB concentration, was sample collected? 0 Yes 0 No

(3) Sample submitted for analysis? X Yes Sample ID No.98−1−0432 0 No

For what parameters? X PCB 34PPM 0 Benzene 0 Other Parameters

Copy of chain of custody form attached? 0 Yes 0 No

(4) Amount spilled/discovered: 30 If leak/spill is continuing, rate

(5) When was spill discovered? Date Time

(6) Location of spill. (Be as precise as possible. Include cross streets, manhole numbers, equipment box numbers, etc., as appropriate.)

MANHOLE 451 W/202 ST & 9TH AVENUE, MANHATTAN

0 Sketch attached

(7) Source/cause of spill. (Be as precise as possible. Include equipment numbers, if possible.)

"B" PHASE CABLE LEAK

0 Unknown

(8) Description of area affected by spill (include dimensions as appropriate)

WIPE REPAIR TO "B" PHASE CABLE

(9) Containment/Cleanup Activities (per GEI 2.11, 2.13, 2.16, 3.2, or 3.3) 0 Sketches attached.

Detailed Description:

Environmental Detailed Incident Report

0 Tightened valve.

0 Placed drip plan.

0 Sealed leak.

0 Blocked nearby sewers/drains with spill kits.

0 Removed/recovered liquid/solids.

0 Used absorbents to remove residual fluids.

0 Removed contaminated vegetation.

0 Removed visible traces of oil.

0 Washed stained areas.

0 Excavated contaminated soil, bluestone.

X Other : "B" PHASE REPAIR ON JOINT 10/26/98

0 See attached contractor report.

(10) Identify who performed cleanup:

0 Con Edison personnel/department? G HIGGINS, SUPERVISOR, 94816

0 Name of contractor

0 Contractor report attached.

(11) Cleanup completed on Date: 10/26/98 Time*: 08:00

*Note: If the cleanup is completed more than 72 hours after the spill was discovered, the spill is a large oil spill.

(12) Con Edison personnel directing cleanup: G HIGGINS, SUPERVISOR, 94816, JOB COMPLETE.

Map Identification Number 122 **221399; W 202 ST** **Spill Number: 1009086** **Close Date: 03/30/2011**
W 202 ST MANHATTAN, NY TT−Id: 520A−0260−159

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/08/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks:

Street Address = W 202 st & e/o 9th Ave
Spill Volume = 1
Unit of Measure = Gallons
Substance Name = Unknown Oil
Cause Reason = Unknown
Status Reason = Operational Necessity for Business Units Other Than S&TO or SSO

DEC Investigator Remarks:

3/30/2011 − See eDocs for Con Ed report detailing cleanup and closure.

Map Identification Number 123 **HALF GAL IN TIDAL MANHOLE 56062** **Spill Number: 0713210** **Close Date: 05/12/2008**
WEST 202 STREET & 9 AVENUE MANHATTAN, NY TT−Id: 520A−0214−903

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	ERTSDESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/13/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SURFACE WATER

Caller Remarks:

TIDAL MANHOLE. UNK IF SPILL REACHED HARLEM RIVER. SPILL CONTAINED INSIDE THE HOLE.

210331

DEC Investigator Remarks:

05/12/08 − See eDocs for Con Ed report detailing cleanup and closure.

210331. see eDocs

Map Identification Number 124 **MANHOLE # 400** **Spill Number: 0504993** **Close Date: 01/10/2008**
9TH AVE/WEST 202 ST MANHATTAN, NY TT−Id: 520A−0099−682

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	ERT DESK − MANHOLE #400	Spiller Phone:	(212) 580−8383
Notifier Type:	Responsible Party	Notifier Name:	TIMOTHY PARKER	Notifier Phone:	(212) 580−8383
Caller Name:	TIMOTHY PARKER	Caller Agency:	CONED	Caller Phone:	(212) 580−8383
DEC Investigator:	SKARAKHA	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/26/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ON 2500 GALLONS OF WATER: CLEAN UP PENDING LAB RESULTS; CONED # 160024

DEC Investigator Remarks:

01/10/08 − See eDocs for Con Ed report detailing cleanup and closure.

e2mis no 160024

Mark Ramsarup discovered approximately 10 gallons of unknown oil on top of approximately 2500 gallons of water in Manhole 400 − Feeder 99031/32. The spill is contained in the Manhole. There are no sewers, waterways or private property affected. Environmental Warning Tag # 44605 was installed. Cleanup pending test results.

Map Identification Number 125 **MANHOLE #451** **Spill Number: 0210155** **Close Date: 02/26/2003**
W 202ND ST & 9TH AVE MANHATTAN, NY TT−Id: 520A−0099−680

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MS WILLIAMS	Notifier Phone:	
Caller Name:	MARK SCHLAGEL	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	AERODRIG	Contact for more spill info:	MARK SCHLAGEL	Contact Person Phone:	(212) 580−6763

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/08/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	35.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

clean up pending test results − poss dyelectric fluid from fedder 99031 − ref #146617

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "RODRIGUEZ"
E2MIS 146617

Alice F. Williams, Employee # 75829, Transmission Operations Department, reports:−

January 8, 2003 @ 12:05 Hrs.:− Anthony Reyes, Employee # 45642, Splicer working for Transmission Operations Department, and assigned to routine manhole inspections reported finding approximately 35 gallons of oil on top of approximately 2000 gallons of water in Manhole 451 − Feeder 99031. The spill is contained in the manhole. There are no injuries or outside impact, there is no active fire or smoke, and no sewers, waterways or private properties are affected. Chem Lab

was notified of the incident and went out to collect samples of the substance. Cleanup is expected to take place within 24 hours.

Update: Alice F. Williams, Employee # 75829, Transmission Operations Department

The incident type was changed from Spill − Dielectric, Transmission Feeder to Spill, Oil (Unknown type) since the source of the spill is not yet identified.

(2) Material spilled/discovered:

(A) *Oil Type (or unknown) ._ _14PPM _ _ _

*PCB concentration:

Removed/recovered liquid/solids. .. . . ._ _ _ _ _ _ _ YES_ _ _ _

Removed visible traces of oil. ? . _ _ _ YES_ _ _ _ _ _ _ _ _ _ _

Washed stained areas. .. ._ _ _ _ YES_ _ _ _ _ _ _ _ _ _ _

(10) Cleanup completed on

Date . ._ 1−8−03_ _ _ _ _ _

Time* . _ _ _ _21:30− _ _ _

(11) Con Edison personnel directing cleanup

(Name/ Employee number) . . .. ..−−ALBERTELLI, 3309−−−−

(12) Date Completed .−−−−−1−8−03−−

Map Identification Number 126 **MANHOLE #451** **Spill Number: 0105182** **Close Date: 04/21/2010**
202ND ST/9TH AVE MANHATTAN, NY TT−Id: 520A−0099−681

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1378 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	EVA MCQUEEN	Notifier Phone:	(212) 580−6765
Caller Name:	ANTHONY NATALE	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ANTHONY NATALE	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/13/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	9.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION ON TOP OF 1500 GALLONS OF WATER. SAMPLE TAKEN CLEANUP PENDING RESULTS. CON ED # 138902.000

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

e2mis no. 138902:

On August 13, 2001, W. Connell, Leak Mech 14325 and W. Brow, Mech A, 92425 of Transmission Operations reported while doing a routine inspection of manhole 451M, feeder 99031/32 they found approx 9 gallons of oil and approx. 1500 gallons of water. Cause of spill is unknown, once manhole is pumped an inspection will take place. No sewer, waterway or private property affected. No smoke, fire, injuries or outside impact. Tag no. 4237 will be hung. Chem Lab is on location to take samples.

Copied from incident no. 129890 on September 10, 2001:
++
Per CEP 6.8, where two cleanup attempts have been performed and the 10 ug/100 cm2 cleanup standard cannot be achieved, cleanup measures can be stopped temporarily. The structure must be tagged to indicate that the structure is still considered to be contaminated with PCBs, and the procedures of CEP 6.8 must be followed for future oil and wastewater in the manhole.

The manhole has been cleaned (double wash−rinse) and sampled as follows:
(1) First cleanup attempt by CLEAN HARBORS on 2−10−00. Sample results: Lab Sequence Number: 00−01113
(2) Second cleanup attempt by CLEAN HARBORS on 3−29−00. Sample results: Lab Sequence Number: 00−01234
(3) Manhole has been tagged with tag no. PCB−TAG.

3/18/10− DECPiper− A new spill came in for this manhole. see 0913335 − While doing work in the manhole, a drain was discovered. 0913335 will be closed and referred to this spill.

4/21/10 − Austin − Con Ed did a third cleaning, and the lab results came back negative − spill cleaned and closed − end

Map Identification Number 127 **MANHOLE #56424** **Spill Number: 9901605** **Close Date: 01/29/2004**
MARGINAL ST & W. 202 ST MANHATTAN, NY TT−Id: 520A−0101−639

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1388 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: MARGINAL ST / W. 202 ST
Revised zip code: 10034

Source of Spill: UNKNOWN
Notifier Type: Affected Persons
Caller Name: BILL MURPHEY
DEC Investigator: JHOCONNE

Spiller: UNKNOWN − UNKNOWN
Notifier Name: MR BUYLICK
Caller Agency: CON ED
Contact for more spill info:

Spiller Phone:
Notifier Phone: (212) 338−3352
Caller Phone: (212) 580−6763
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/11/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 gal of unk oil on 800 gal of water −contained in manhole −

samples taken and clean up pending results con ed #124800

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
CON ED E2MIS 124800 NOTES

Unknown substance 1 qt mixed in 800 gals. of water in MH#56424, contained, did not enter waterway, sump not verified, sewer connection not verified, no visual movement, took sample for PCB.

5−12−99 16:16hrs.

Lab results #99−04893 Aroclor 1260, PCB 48 ppm

On 5−14−99 700 gals.of oily water removed via tanker. 60' asbestos arc proof removed. 1−55 gallon drum PCB waste. 3−55 gallon

drums PCB/Asbestos. EPA#NYD986990315. Cleanup will be completed after completion of Sherman Creek Asbestos Project.

On 6−2−99 1700 gallons oily water removed via tanker. 4−55 gallon drums waste generated, picked up by Corp. Trans.

Cleanup completed on 6−4−99 at 1600 hours. 500 gallons oily water removed via tanker. 3−55 gallon drums hazardous waste generated. Mh double washed.

Map Identification Number 128 **OIL FOUND IN TIDAL MANHOLE: M56062** **Spill Number: 0800080** **Close Date: 06/17/2008**
WEST 202 STREET & HARLEM RIVER MANHATTAN, NY TT−Id: 520A−0218−311

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1388 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: W 202ND ST / HARLEM RIVER
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERTSDESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/02/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

5 OUNCES ON 300 GALLONS OF WATER. 210661

DEC Investigator Remarks:

06/17/08 − See eDocs for Con Ed report detailing cleanup and closure.

210661. see eDocs

Map Identification Number 129 **I/F/O 560 ISHAM ST** **Spill Number: 0811833** **Close Date: 01/30/2009**
560 ISHAM ST MANHATTAN, NY TT−Id: 520A−0226−359

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1454 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Citizen	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	hrpatel	Contact for more spill info:	PAUL BRATHWITE	Contact Person Phone:	(718) 595−4804

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/29/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

3RD PARTY CALL STATING THAT THERE IS OIL ON THE SIDE WALK. NO FURTHER INFO.

DEC Investigator Remarks:

01/30/09−Hiralkumar Patel. visited site at 4:15 PM on 01/29/09. observed minor oil spill (less than one gallon) on sidewalk near fill port. found oil stain (only, no fresh producct) on building wall under vent pipe. inspected tank/boiler room. site has one 3000 gal #4 oil tank wrapped in concrete. no sign of overfill found on tank top. found minor spill on dirt around boiler.

left message for property manager at 4:45 PM on 01/29/09.

spoke with Ms. Rodriguez (9:10 AM on 01/30/09), property manager. she contacted Castle oil (delivery company) yesterday night and they cleaned up. Castle oil will cleanup further today. asked Ms. Rodriguez to clean spill around boiler also.

PBS #: 2−610468

alternate addresses: 162−166 Vermilyea Ave, 560−568 Isham St

Marmara Realty LLC. **property owner**
c/o Solar Realty Management **management company**
57 West 38th Street, 2nd Floor
New York, NY 10018
Attn.: Petricia Rodriguez **property mangaer**
Ph. (212) 633−9985
Fax (212) 633−9986
email: prodriguez@solarrealtymanagement.com

Castle oil delivered oil yesterday (01/29/09).

left message for Robert Hill (718−579−3410) at Castle Oil.

spoke with Rob Hill at Castle. he told that Triple L Transport (718−589−3822) delivered oil. Castle oil received call yesterday night and cleanup crew was sent out by Castle. they cleaned up spill last night.

based on observations during site visit and information provided by Mr. HIll, case closed.

Map Identification Number 130 **MANHOLE** **Spill Number: 9701191** **Close Date: 04/28/1997**
W 207TH ST & VERMILYEA AVE MANHATTAN, NY TT−Id: 520A−0090−149

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1459 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / VERMILYEA AVE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	ABOVE − MANHOLE	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	STEVE ROMERO	Notifier Phone:	(212) 580−6763
Caller Name:	STEVE ROMERO	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	MCTIBBE	Contact for more spill info:	ABOVE	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/26/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
LEAD	HAZARDOUS MATERIAL	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

WORK TRUCK HAD A BAG OF LEAD WASTE TRANSPORTING FROM ABOVE LOCATION TO 281 11TH AVE MANHATTEN BAG WAS LOST SOMEWHERE IN BETWEEN ROUTE WAS BACKTRACKED COULDN'T FIND BAG

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE/KATZ"
SPILL UNFOUNDED

Map Identification Number 131 **ST. MATTHEWS EVANGELICAL** **Spill Number: 0510059** **Close Date: 02/12/2010**
200−202 SHERMAN AVE MANHATTAN, NY TT−Id: 520A−0098−352

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1465 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: WILLIAM JOCOBS
DEC Investigator: vszhune

Spiller: PETER DEBRA − ST. MATTHEWS EVANGELICAL
Notifier Name: WILLIAM JOCOBS
Caller Agency: BRINKERHOFF ENVRIONMENTAL
Contact for more spill info: PETER DEBRA

Spiller Phone: (212) 567−5949
Notifier Phone: (732) 223−2225
Caller Phone: (732) 223−2225
Contact Person Phone: (212) 567−5949

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/22/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL BORRINGS WERE TAKEN NEAR ASIDEWALK ADJACENT TO THE TANK. THEY THINK THAT THE TANK MIGHT BE LEAKING. THE SOI HAS NOT BEEN CLEANED UP

DEC Investigator Remarks:

11/23/05−Vought−Called William Jacobs (fax 732−223−3666) and soil borings installed by one abandoned UST possibly and one 1500−gallon #2 fuel oil UST. Laboratory results have not been received yet and further decision has yet to be made. No impacted

basements as site visit was performed by Jacobs. Vought called Peter Debra for address for soil contamination letter and no answer on phone.

11/28/2005−Vought−Called Peter Debra and no answer on phone.

11/29/05−Vought−Called Peter Debra and no answer on phone. Vought sent soil contamination letter to:

Mr. Peter Debra
Mr. Michael Williams
St. Mathews Evangelical Lutheran
202 Sherman Avenue
New York, NY 10034

1/3/06−Vought−Received call from and spoke to Pastor Peter Debra (212−567−5948). Spill caused by spill during bleeding boiler for repair. Peter will contact William Jacobs (caller) for further information on spill and contaminated soil under sidewalk.

05/17/06−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin.

6/21/06 − Raphael Ketani. I tried to contact Pastor Peter Debra, but could only leave a message. I contacted William Jacobs (732) 223−2225 and he filled me in on what the situation is. He said that he was hired by a prospective buyer for the property. He said that in the course of doing soil borings, one boring was found to have contamination. Mr. Jacobs said that there isn't a leaking tank or line, only the contamination. He said the area is about 2 feet in diameter and may generate 5 tons of soil for removal. However, no soil was ever removed. He will send me the analytical results, where only benzene was a little above TAGM. Mr. Jacobs said the deal fell through and so I should contact Pastor Debra.

6/22/06 − Raphael Ketani. Pastor Debra called me back. He said the property was sold. The new owners are Jackson Development Group, Ltd. (718) 343−6262. I called up Jackson Development, but could only leave a message for Jacob Rad.

7/5/06 − Raphael Ketani. I contacted Neal Wiseman of Jackson Development Group Ltd. He said that he wasn't aware that his company owed DEC anything. However, he said he was aware of the spill. I told him that DEC needed the analytical results, to start. He said he would contact his environmental professional and get me the results.

7/11/06 − Raphael Ketani. I received a letter dated July 7, 2006 from Mr. Jacobs discussing the analytical results and stating that only xylene was above TAGM, and only very slightly above TAGM. The letter also mentioned that the site will be dug up as part of the redevelopment and all tanks registered. I left a message for Mr. Jacobs stating that what I needed was the actual analytical report with a summary table, not just a letter.

7/14/06 − Raphael Ketani. I received the Phase II Environmental Investigation report dated December 9, 2005. I reviewed the report and found it acceptable, with the exception of xylene. However, the results were not high enough to warrant soil removal. The cover letter attached to the report stated that the tanks will be removed and delisted when the site is excavated. I left a message for Mr. Jacobs asking when this will be.

The PBS case is #2−399809. There are 2 tanks which are listed as having had gasoline. One is 1500 gals. and the other is 2000 gals. Mr. Jacobs said the tanks are both USTs and that they have #2 fuel oil, not gasoline. The 1500 gal. tank is overdue

(5/1/93) for a tank test.

8/2/06 − Raphael Ketani. I left a message for Jacob Brad. I stated that I needed to know when the excavation will take place.

8/11/06 − Raphael Ketani. I called Neal Wiseman of the Jackson Development Group, Ltd. to let him know that a new PBS Registration will need to be filed as his company is the new owner of the property. He said he is not the new owner.

I called up Mr. Jacobs of Brinkerhoff (732) 223−2225 regarding this issue and the date of the removal of the tanks, but could only leave a voice mail.

8/14/06 − Raphael Ketani. Mr. Jacobs called me back and said that he is no longer involved with the site. He said that the site was sold again and the new owners are E. T. Management, contact Jose Espinal, (212) 569−4256. I told him that I will contact the new owners.

I tried calling Mr. Espinal, but could only leave a voice mail.

8/30/06 − Raphael Ketani. I tried to call Mr. Espinal, but was told by the secretary that he wont be in until 9/5/06. I left a message for him to call me.

9/6/06 − Raphael Ketani. Mr. Espinal returned my call. He said that he bought the property 1 month ago and plans to demolish the church and put up a building. He said that the 2 tanks will be removed some time before demolition. I told him that I needed a revised PBS application indicating that the 2 tanks are USTs, that they had #2 oil, and that they are out of service. I added that I needed a cover letter explaining what will happen to the site and that the tanks have been emptied and cleaned out. He said he will do this. I told him that I will send a PBS application.

9/7/06 − Raphael Ketani. I sent out the PBS application.

11/10/06 − Raphael Ketani. I tried to contact Mr. Espinal, but could only get one of his assistants. This person said that the PBS application hadn’t been sent in, and, as best as he knew, the tanks haven’t been pulled. He said that the city was trying to take over the property via "eminent domain" because they want to build a school. I told him that Mr. Espinal is still responsible for the PBS registration as he is the current owner. The assistant said that he will pass the request along to Mr. Espinal.

12/19/06 − Raphael Ketani. I tried calling Mr. Espinal, but could only leave a message.

1/5/07 − Raphael Ketani. I tried calling Mr. Espinal, but could only leave a message.

4/4/07 − Raphael Ketani. The 2 tanks are still listed as in service and containing gasoline. I tried to get ahold of Mr. Espinal, but was told by his assistant that the company was no longer involved with the property.

I looked up the property owners on Property Shark. The block and lot are 02226/0041. The address is listed as 186−192 Sherman Avenue. The owners were listed as Sherman Condos, LLC, 5041 Broadway, Second Floor, NY, 10034. However, when you click on the highlighted block and lot, you get Kenrock OU Legal Dept., NYS School Co., 30−30 Thomson Avenue, LIC, 11101. I drafted a CSL for both listed owners and submitted it to Randall Austin, Chief Spills Engineer Region 2, for his review.

4/17/07 − Raphael Ketani. The CSLs were sent out today.

4/19/07 − Raphael Ketani. Today there was a conference call with Ms. Lee Gutterman, manager at the School Construction Authority (SCA), Bob Cataparthy (assistant to Ms. Gutterman), and Mike Tamulty of STV. Tim Slauson (project manager and main contact from SCA) (718) 752−5026 was not able to join. Ms. Gutterman and Mr. Tumulty were the main participants. The discussion was regarding what DEC wants the SCA to do to clean up the site. The City owns the site now, but it will be passed to the Dept. of Education. Ms. Gutterman said that the site will be excavated down 6 feet or so. It was mentioned that the apartment building next door had an oil spill from a 1500 gal. tank. The closed spill case is #8800633. Mr. Tamulty said that oil is visible on the water table and seems to be coming from the apartment building. He also said that the tanks haven't been removed yet and that a site investigation will take place. I told everyone involved that enough borings have to be performed in order to characterize site subsurface conditions and that all contamination must be dug out to the water table. I added that if the oil can not be pinpointed to be coming from the apartment building, then SCA will have to hire someone to suck up the contaminated water. Lastly, I said that the PBS registration needed to be revised to reflect removal of the tanks and the new ownership or else the case can't be closed. Ms. Gutterman and Mr. Tamulty said they understood. They also added that a vapor barrier will be installed as part of the foundation work. I told them to send DEC a stamped set of plans for the barrier.

4/23/07 − Raphael Ketani. I received the November 2, 2006 Phase II SIR from STV Incorporated today. I am reviewing the document.

5/1/07 − Raphael Ketani. Mr. Tumulty called to say that digging and removal of soil at the site will go down only 6 feet, instead of about 12 feet as previously stated. He added that the screens for the well will straddle the water table and extend from 2' above to 2' below.

I finished my review of the November 2, 2006 Phase II SIR. Elevated soil analytical results above TAGM RSCOs were identified at SB−1, SB−7, SB−8 and SB−9. These were for total xylenes (3.2 to 6.4 ppm), 1,2,4−trimethylbenzene (4.8 to 18 ppm), and 1,3,5−trimethylbenzene (9.6 ppm). Elevated groundwater analytical results exceeding the RSCOs were identified at SBW−8 for 16 VOCs with concentrations typically in the thousands of ppb and as high as 9400 ppb for 1,2,4−trimethylbenzene. Six SVOC exceedences were also listed for the groundwater and the results were in at least the hundreds of thousands of ppb and as high as 1.3 million ppb for naphthalene and 4.1 million ppb for 2−methylnaphthalene. Elevated vapor levels of VOCs were detected in the basement which contains the book storage room (in which many cans of paint, sprays and other chemicals are stored) and the cafeteria. The vapors were determined to be coming partly from the materials stored in the book storage room and partly from the oil on top of the water table in that area. Figure #3 depicts a leaking UST with a small plume of #2 oil in the vicinity of SB−7 to SB−9 and SB−12. A second UST is in the vicinity of SB−1, but the soil analyticals don't indicate any hits.

I tried to call up Mr. Tumulty (212) 777−4400 and Mr. Slauson (718) 752−5026, but I could only leave a message. I stated that the cafeteria, book storage room and any other places in the school needed to be immediately vented and that the oil and groundwater needed to be collected immediately and the tank emptied, cleaned out, and soil removed. I tried to contact Ms. Gutterman (718) 472−8502, but could only leave the same message.

5/2/07 − Raphael Ketani. Mr. Tumulty (alternate number (212) 614−3369) and Mr. Slauson left responding voice messages to my calls. They both said the site is unoccupied and completely unused at this time. Therefore, they said, no venting is necessary. However, I left them messages that the oil plume needed to be addressed immediately so that it doesn't migrate off−site.

A conference call took place at 10AM today with Ms. Gutterman, Mr. Tumulty (STV), Mr. Bob Cataparthy (SCA)and Mr. Slauson (SCA). Mr. Tumulty was the main speaker. He stated for all in the conference that the site is unoccupied and boarded up. He said that

there isn’t a plume as SB−3 is clean. He added that the oil spill is stable (not moving) and the outter oval in Figure 3 was drawn with the results from PID readings. Mr. Tumulty also said that the lower picture in the SIR of the utility pit in the basement shows red oil bubbles floating on water, not a layer of black oil in the center of the pit. He said that the full specs for the remediation are being put together and that digging will start in September. With that the call ended.

5/24/07 − Raphael Ketani. Mr. Slauson, Ms. Gutterman, and Mr. Cataparthy called me today and wanted to discuss the issue of dewatering the site and pulling in gasoline from a neighboring spill site, GETTY #339, 4880 Broadway at 204 Streeet, NY (spill case #9601093). They said that they need to dewater the site in order to remove the contaminated soil. However, they didn’t want to draw the gasoline into the site. They wanted to know whether groundwater collection is taking place at the GETTY station so as to prevent off−site migration. I told them I wasn’t sure, but I will talk to the case manager at DEC, Mr. Sun, and find out.

I talked to Joe Sun, E.E.II of Unit B Region 2 DER, regarding his GETTY station site. He showed me that the BTEX level was about 850 ppb in 2/2006 and that it was now about 950 ppb in 1/2007. The other well results he showed me had levels of MTBE or BTEX of less than 5 ppb. Mr. Sun suggested that the consultants for 200−202 Sherman Avenue monitor the BTEX level as they are drawing the groundwater and should maybe run it through a carbon filter. I called Mr. Slauson later and told him the same thing in a voice mail message and that they should place the extraction well between the site and the gas station.

7/26/07 − Raphael Ketani. I spoke to Mr. Slauson (718) 752−5026. He said that nothing is happening right now at the site. Some days before, more wells were installed and it was found that the contamination in the site is not leaving and the contamination from off site is not coming in. He said no contamination is coming from next door. Construction on the site will take place in September.

10/18/07 − Raphael Ketani. I spoke to Ms. Gutterman regarding progress at the site (718)472−8502. She said that the specs were sent to the Architectural and Engineering Department at SCA with the inclusion of plans to pull the tanks. She said that the cleanup will coincide with the beginning of construction. She added that the specs haven’t gone to bid yet.

10/22/07 − Raphael Ketani. Mr. Slauson called to say that construction has been delayed. He said that the bidding for the job will take place in November 2007 and the bid opening will take place in December 2007.

12/4/07 − Raphael Ketani. I contacted Mr. Slauson. He said that he wasn’t sure where the bidding process was and would have to get back to me. I asked him to call me back as soon as he knows.

12/6/07 − Raphael Ketani. Mr. Slauson left a message this morning. The bid opening for the work will be 1/15/08 and the notice to proceed will be 3/08.

1/9/07 − Raphael Ketani. I spoke to Ms. Gutterman. She said that the bid is "on the street."

3/31/08 − Raphael Ketani. I spoke to Mr. Slauson (718) 752−5026. He said that the bids came in, but they were all kind of high. So the administration was deciding what to do. He said he will call around and try to find out what is happening regarding the bidding.

4/2/08 − Raphael Ketani. Mr. Slauson called to say that there is no notice to proceed on the site, but work will start soon. A contractor has been selected.

8/18/08 − Raphael Ketani. I contacted Ms. Gutterman (718) 472−8502. She said that Mr. Slauson is no longer at the agency. She said that excavation is taking place. However, she is not aware the exact nature of the excavation. She said she will call me back.

Ms. Gutterman called me back. She said that excavation work has not started. They need to demolish the building and there is asbestos in the building. They need to get asbestos abatement permits. She said that the new contact person at SCA is Steve Goldberg (718) 752−5022 M−W−Th.

The case is being prepared for transfer due to a case realignment within the unit. The case manager needs to make followup phone calls to see what progress is being made. The SCA will owe DEC an investigation report once all of the work is done.

10/02/08−Zhune. Michael Tumulty (212)614−3369 from STV Incorporated sent an e−mail saying: Confirming our discussion today, the two underground storage tanks (USTs) at the site were removed earlier this week. As expected, the 1,500 gallon heating oil UST in the courtyard had holes and impacted soil was evident. The 2,000 gallon heating oil UST located beneath the stairs in the northwest corner of the site was in good condition and showed no evidence of release. As discussed, the contractor is expected to begin excavation of the impacted soil within the next couple of weeks. We will be collecting end−point samples at completion of the excavation and reporting the findings to you. I will notify you before the contractor starts excavation.

I have copied Steven Goldberg (718−752−5022) on this e−mail, as he is the project manager at the NYC School Construction Authority (SCA) who can also answer any questions you may have.

04/23/09− A Underground Storage Tank Closure and Remediation Report was sent by STV dated 04/16/09. The Report stated the following: On september 29, 2008 the 1500−gallon UST and the 2000−gallon AST were removed. Fallowing the removal of all petroleum impacted soil, a sampling grid was established for post −excavation soil sampling. Each cell (A1, A2, A3, etc.)was sampled and analyzed for Spill Tecnology and Remediation Series (STARS) volatile organic compounds (VoC's) and semi−volatile organic compounds (SVOC's). In total eighteen (18) end point soil samples were colected from the excavation.

The anlytical results for soil samples indicated two minor exceedances of the TAGM RSCOs for one SVOC (Benzo(a)pyrene) at sample B1 and B2, there were no other exceedance of either of Part 375 Unrestricted Use SCOs or TAGM RSCOs.

The laboratory results for groundwater inicated exceedances at sample location PEGW−1 (located in the immediate vicinity of the former leaking UST). No exceedances were detected at sample location PEGW−2 in the downgradient direction from the most contaminated area.

Map Identification Number 132 **MANHOLE #5160** **Spill Number: 0404683** **Close Date: 10/21/2004**
WEST 204TH ST. AND SHERMA MANHATTAN, NY TT−Id: 520A−0090−254

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1471 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: W 204TH ST / SHERMAN AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Responsible Party
Caller Name: LARRY COSTA
DEC Investigator: GDBREEN
Spiller: ERT DESK − CON EDISON 151710
Notifier Name: LARRY COSTA
Caller Agency: CON ED
Contact for more spill info: ERT DESK
Spiller Phone: (212) 580−8383
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/30/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

1.5 GALLONS OF UNKNOWN OIL ON 1,000 GALLONS OF WATER IN A MANHOLE: CLEAN UP PENDIND INVESTIGATION. TRANSFORMER LOCATED YET UNDETERMINED IF IT IS THE CAUSE. CON ED # 154608.

DEC Investigator Remarks:

154608

07/30/04 10:46
K.Dinsmore#11157, of environmental services notified the control center on 07/30/04 at 10:00hrs that on 07/30/04 at 09:50hrs. he discovered approx. 1.5 gallons of
unknown oil and 1000 gallons of water in V5160. It is not verified at this time if any sewer or waterways were affected. There are no visible substantial cracks in V5160. There will be three samples taken; one for PCBs, one for oil ID, and one for flash point. K.Dinsmore#11157 placed absorbent pads in V5160. The cleanup is pending I&A investigation, crews and test results.

Lab Sequence Number: 04−06006−001: PCBs < 1 ppm

Lab Sequence Number: 04−06005−001: Flash Point, PMCC > 140 deg F

Update: 8/5/04 @ 11:19 hrs.
Bob Biliski, I&A Operating Supervisor, inspected this vault on 8/3/04 and found no problem with the transformer.

8/6/04 13:55 J. Formel # 47752 of the I&A called to report that at 13:45 the cleanup was comleted. The tanker removed. 4,000 gallons of liquid from the structure. The structure was double washed with citrus cleaner. The spill tag # 01034 was removed.

Map Identification Number 133 **SHERMAN CREEK S/S. SPARE XFMR, 1 QT** **Spill Number: 0713055** **Close Date: 06/17/2008**
425 WEST 201 STREET. SUBSTATION MANHATTAN, NY TT−Id: 520A−0214−936

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/11/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1 quart of transformer dielectric fluid spilled onto bluestone. Contained. Cleanup in progress.

210253

DEC Investigator Remarks:

06/17/08 − See eDocs for Con Ed report detailing cleanup and closure.

210253. see eDocs

Map Identification Number 134 **SHERMAN CREEK S/S. 200 GAL IN MH** **Spill Number: 0700417** **Close Date: 08/18/2009**
425 WEST 201 STREET. SUBSTATION MANHATTAN, NY TT−Id: 520A−0099−700

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN NAME − CON EDISON	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	JMKRIMGO	Contact for more spill info:	ERT DESK‘ MIKE DAUGHTERY	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1/2 pint of unknown oil on 1000gal of water in Manhole #24340. Clean up is pending test results.
20:06 UPDATED THE SPILL WAS RELEASE TO THE WATERWAY NRC # 832062 CALLED IN BY CHRIS HAYNES DISPATCHER 1179.
205354.000

DEC Investigator Remarks:

08/18/09 − See eDocs for Con Ed report detailing cleanup and closure.

205354. see eDocs.

see 0700416 as well.

Cause was uncapped primary cable ends.

Map Identification Number 135 **SHERMAN CREEK S/S. 1 PT IN MH 24339 & 40** **Spill Number: 0700416** **Close Date: 05/23/2007**
425 WEST 201 STREET. SUBSTATION MANHATTAN, NY TT−Id: 520A−0099−701

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name:
DEC Investigator: gdbreen
Spiller: UNKNOWN NAME − CON EDISON
Notifier Name:
Caller Agency:
Contact for more spill info: ERT DESK‘ MIKE DAUGHTERY
Spiller Phone: ( ) −
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

one pint on 200gal of water in Manhole #24339..... All other info is unknown. Clean up is pending sample results.
20:07 CHRIS HAYNES CALLED TO UPDATE SPILL WAS RELEASED TO THE WATERWAY NRC # 832062 DISPATCHER 1179

DEC Investigator Remarks:

05/23/07 − See e−docs for Con Ed report detailing cleanup and closure.

205354. see eDocs

see 0700417 as well.

Cause was uncapped primary cable ends.

Map Identification Number 136 **MANHOLE # 400** **Spill Number: 0602530** **Close Date: 10/05/2006**
425 WEST 201 STREET MANHATTAN, NY TT−Id: 520A−0099−699

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: ERT DESK − CON EDISON MH #400
Spiller Phone: (212) 580−8383
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: GDBREEN
Contact for more spill info: ERT DESK‘
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/06/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	6.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ON 4000 GALLONS OF WATER: FOUND DURING INSPECTION: CONED # 200435: NO TO 5 QUESTIONS STILL INVESTIGATING

DEC Investigator Remarks:

10/05/06 − See e−docs for Con Ed report detailing cleanup and closure.

200435. see eDocs.

Map Identification Number 137 **SHERMAN CREEK SUBSTATION** **Spill Number: 0307502** **Close Date: 07/06/2005**
425 201ST STREET NEW YORK, NY TT−Id: 520A−0099−696

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 425 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	RON ELLIOT	Notifier Phone:	(212) 580−6763
Caller Name:	RON ELLIOT	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	RON ELLIOT	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

e2mis no. 150−767:

10/16/2003 @ 09:49 hrs. Substation Operations EHS Rep. Craig Little, #96080 reports that during an inspection he found 1 quart of an unknown oily substance on the bluestone. Source unknown. Clean up is proceeding assuming 50−499 ppm PCB.

29−DEC−2004 13:19
Based on interviews with several employees it was determined that the spill was cutting oil. The oi was spill from a pipe threader which did not have adequate engineering controls. C. Little performed the clean up using a shovel. Impacted bluestone was removed until there was no longer any evidence of oil via sight and smell.

Map Identification Number 138 **SHERMAN CREEK SUB−STATION** **Spill Number: 0200651** **Close Date: 04/21/2003**
425 WEST 201ST STREET SHERMAN CREEK, NY TT−Id: 520A−0099−689

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1524 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	MR. HEDEMAN	Notifier Phone:	
Caller Name:	ANDREW MORRIS	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/17/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	1.00	GALLONS	1.00	GALLONS	SOIL

Caller Remarks:

UNKNOWN CAUSE OF SPILL. SPILLED ONTO BLUE STONE. NON PCB. BEING CLEANED UP. CON EDISON REFERENCE NUMBER 142334.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
This spill originally sent to R3. It is in Manhattan County. Bob Corcoran 04/19/2002

E2mis no. 142−334:

17−APR−2002 14:28

S/S Operations SR Substa Oper D. Rivera 16263 reports 2 ounces of isulatum leaked from CAP Bank #1 C Phase Pothead to bluestone.
Clean up pending resources.

T. Whipple − 81477 − 6/28/02 − Cleanup completed on 4/17/02 by Punter #04462. Affected bluestone removed and drummed for disposal. non−PCB via genrator knowledge−−"blue" type insulatum. One drum of oily debris generated, to be disposed of via CFS. MAximo WO #157959. Leaking pothead replaced, work completed by 4/24/02. Maximo WO #157966.

Map Identification Number 139 **ROADWAY** **Spill Number: 0202963** **Close Date: 06/21/2002**
9TH AVE BET 201 & 202 ST WASHINGTON HEIGHTS, NY TT−Id: 520A−0101−640

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1527 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	UNK − JOSE O PINA TRUCKING	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	BERNARD PIERRE	Notifier Phone:	
Caller Name:	BERNARD PIERRE	Caller Agency:	CON ED	Caller Phone:	(212) 580−8383
DEC Investigator:	KMFOLEY	Contact for more spill info:	BERNARD PIERRE	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/20/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SPILL WITNESSED BY CON−ED−NO FURTHER INFO AVAIL−AMT APPROX 2 PINTS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"

Map Identification Number 140 **SERVICE BOX 42918** **Spill Number: 9904273** **Close Date: 10/20/1999**
63 POST AVE MANHATTAN, NY TT−Id: 520A−0094−247

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1540 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR BOOMER	Notifier Phone:	
Caller Name:	FRANK MASSERIA	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	CALLER	Contact Person Phone:	(315) 772−5708

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/11/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller reports 1 pint unknown oil on 10 gallons water. con ed #126336.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
CON ED E2MIS NOTES

Approx. 1pt unknown oil mixed with 10 gals. water. No cracks, no sewer connection, no sumps, no smoke & no fire.

A sample was taken for PCB's

01−12−99 12:56hrs. Update

Lab results 99−07189 Aroclor None, PCB <1.00ppm

7−13−99

Cleanup completed on 7−12−99 @ 1130hrs.

30 gals. oily water pumped into 55gal. drum

SB Flushed. 3− plastic bags non−hazardous waste generated.

Waste transported to 110 st Yard.

Tag #01085 removed

Map Identification Number 141 **214712; SEDGWICK AVE AND W 182ST** **Spill Number: 0814618** **Close Date: 11/25/2008**
SEDGWICK AVE AND W 182ST NEW YORK, NY TT−Id: 520A−0249−256

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1556 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: SEDGWICK AVE / W 182ND ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/24/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 142 **SERVICE BOX # 47454** **Spill Number: 0409873** **Close Date: 05/05/2005**
111−113 VERMILYEA AVENUE MANHATTAN, NY TT−Id: 520A−0094−258

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1560 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	ERT DESK − SERVICE BOX # 47454	Spiller Phone:	(212) 580−8383
Notifier Type:	Responsible Party	Notifier Name:	RON ELLIOTT	Notifier Phone:	(212) 580−6763
Caller Name:	RON ELLIOTT	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/03/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CONTAINED IN THE BOX. TOOK TWO OIL SAMPLES AND CLEAN UP IS ATTENDING CREW.

DEC Investigator Remarks:

e2mis no. 156453:

12/03/04 11:00 K.McCarthy#81973, of Maintence Services, notified the control center to report he found approx. 1/2 gallon of unknown oil and 3 gallons of water in SB47454, which is located in front of 111−113 Vermilyea ave.(the cross streets are 204 st and 207 st). There was no fire or smoke involved, and no sewers or water ways were affected. The source and the cause of the spill is unknown at this time. There is no oil filled equipment in SB47454. The water is standing, with no visible movement. A yellow environmental tag #29044 was hung in SB47454.
There were two samples taken from SB47454, one for PCB's and one for oil ID. The samples were marked priority E. The chain of custody form number is #CC18377. K.McCarthy placed oil absorbent pads in SB47454. The cleanup is pending crews and a tanker.

Lab Sequence Number: 04−10038−001 − Analysis indicates the presence of a substance similar to a light fuel oil.
Lab Sequence Number: 04−10037−001 − TOTAL PCB 1 ppm

12−16−04
@ 13:00 Cleanup was completed. SB 47454 was double washed w/slix. No liquids and No solids were removed. Environmental tag was removed #29044. Source of spill is unknown.

Map Identification Number 143 **SERVICE BOX #46188** **Spill Number: 9904264** **Close Date: 12/06/2001**
165 SHERMAN AVE MANHATTAN, NY TT−Id: 520A−0094−255

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1571 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:	MR CROWE	Notifier Phone:	(212) 580−6763
Caller Name:	STEPHEN ROMERO	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/11/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CON EDISON #126330 2 GALLONS OIL ON 5 GALLONS OF WATER. SAMPLES TAKEN CLEAN UP PENDING RESULTS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
E2MIS NOTES:

7/11/99, 0655 hrs: 2 gallons unknown oil on 5 gallons water. Took PCB sample.

7/12/99, 0656 hrs: lab results 5 ppm PCB.

7/27/99: cleanup completed 7/23/99 at 1130 hrs. 10 gallons oily water removed by tanker, service box flushed.

Map Identification Number 144 **FORDHAM AND** **Spill Number: 9909822** **Close Date: 11/22/1999**
LANDING AVE BRONX, NY TT−Id: 520A−0009−400

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1582 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: LANDING RD / W FORDHAM RD
Revised zip code: 10468

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	FRANK MASSERIA	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	FRANK MASSERIA	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Unknown RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/12/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

WHILE DOING EXCAVATION THE CREW HIT A VAULT ROOM − THEY BUSTED

THRU THE WALL AND SAW TWO TANKS IN THE VAULT − THEY STOPPED WORKING

AT THAT POINT − NO FURTHER INFO AVALIABLE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Map Identification Number 145 **10 AUTO CENTER** **Spill Number: 9410208** **Close Date: 10/31/1994**
3761 TENTH AVENUE MANHATTAN, NY TT−Id: 520A−0098−363

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1595 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 3761 10TH AVENUE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	MR. CONNELLY	Caller Agency:	NYCFD	Caller Phone:	(917) 882−5464
DEC Investigator:	TOMASELLO	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/31/1994		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	25.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

CALLER: UNKNOWN WHAT HAPPENED. NYCFD ON SCENE NOTIFIED DEP − TRYING TO CONTAIN SPILL. ALL OTHER ACTIONS UNKNOWN. NO CALL BACK NECESSARY.

Map Identification Number 146 **201 ST & 10TH AVE/SHELL** **Spill Number: 8807698** **Close Date: 11/20/2003**
3761 TENTH AVENUE MANHATTAN, NY TT−Id: 520A−0098−361

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1595 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 3761 10TH AVENUE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	SHELL GAS STATION	Spiller Phone:	(212) 567−9888
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	ROBERT SANFORD	Caller Agency:	SHELL OIL	Caller Phone:	(516) 937−3022
DEC Investigator:	SMSANGES	Contact for more spill info:		Contact Person Phone:	

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Unknown RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/25/1988		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

Caller Remarks:

HANDEX CHECKING MONITORING WELLS, DICOVERED PRODUCT LEAKAGE, WELL #1 ON 3761 10TH AVENUE HAD .01FT OF PRODUCT.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
closed ref #9301145

Map Identification Number 147 **SHELL SERVICE STATION** **Spill Number: 0430011** **Close Date: 10/23/2007**
3761 TENTH AVENUE MANHATTAN, NY TT−Id: 520A−0098−360

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1595 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 3761 10TH AVENUE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	ROB RULE − SHELL OIL PRODUCTS US	Spiller Phone:	(540) 943−8468
Notifier Type:	Responsible Party	Notifier Name:	PAUL SHERWOOD	Notifier Phone:	(631) 864−4200
Caller Name:	KERRY FOLEY	Caller Agency:	DEC	Caller Phone:	(718) 482−4977
DEC Investigator:	aaobliga	Contact for more spill info:	ROB RULE	Contact Person Phone:	(540) 943−8468

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

Wells on property were sampled for baseline concentrations prior to divestment. Concentrations of MTBE have increased in wells MW−2 and MW−4 since spill #9301145 was closed. The USTs will be removed summer 2004.

DEC Investigator Remarks:

see closed spills #8807698, 9301145

11/28/05 Received SAIC 3Q05 update report. Tank closure will be completed by the end of 11/05 and tanks and associated impacted soils will be removed. An exposure assessment will be completed and closure will be requested.

8 MWs on site. 7 were gauged/sampled on 8/8/05. MW−3 was sealed shut. BTEX ranged from ND(MW−1,5,7,8) to 9ppb(MW−6). MTBE ranged from ND (MW−1,5,8) to 148ppb(MW−4). No LNAPL present. Approx 155 ft from Sherman Creek. DTW 6−7'bgs, flowing SW at 0.03ft/ft. LNAPL last detected in MW−1 in 10/01(0.01').

11/30/05 UST and Hydraulic Lift Closure Report
Three 4000gal Buffhide single−wall stell gas USTs, two dispenser islands, prodcut piping, two hydraulic lifts and twelve abandoned 550gal single wall steel USTs were removed in 11/05. Holes observed in three of twelve abandoned 550gal tanks (#10,11,15). 400 tons of petroleum impacted soil removed. 41 post−ex samples collected. Post−ex samples show a very hot spot in the west wall of the dispenser island area, adjacent to 10th Avenue. Slight benzene exceedances on the floor of the tank field (81−87ppb) and minor exceedances on the floor of the former tank field area (benzene at 213ppb, MTBE at 251ppb).

2/1/06 Will conduct exposure assessment based on worst case prior to tank pull.
3/22/06 Reassigned from Foley to Tang.(KMF)

3/27/07 − Reassigned from Tang to Obligado. Review Spill closure Request Report. Sensitive receptor survey − No drinking water wells within 2000 ft radius. No residential properties adjacent to the site. GW trends decreasing in all wells for BTEX and MTBE. Max BTEX is 72 ppb in MW1. Max MTBE is 71.2 in MW4. However, based on 2005 Closure report, soil endpoints in the abandoned UST area in the northern portion of the site had impacts above SCOs. Additionally, 3 of the abandoned tanks in this area were in poor condition with holes. No ground water samples were collected from this area. Sent email to Heather Cloud requiring a ground water investigation in this portion of the site. At least 2 ground water samples should be collected, one from the Former Tank Field Area and one in the vicinity of the dispenser islands. If ground water in this area is clean or at

levels comparable to the rest of the site the closure request can be resubmitted.

10/23/07 − Obligado − Reviewed Site Investigaiton Report and Spill closure Request, dated September 14, 2007. The report documented the installation of 2 additional wells in the vicinity of the former dispenser sand the former tank field area as requested. Analytical results from the dispenser well (MW10) was below TOGS for all compounds. The well in the former UST cavitiy (MW9) had only exceedences for benzene 15.9 ppb and MTBE 150 ppb. A sensitive receptor survey was peformed. No residential properties were ajoining the site. The east river is located 90 ft down gradient of the site. A state park is located 770 ft to the west/southwest of the site. After discussion with Joe Sun, I closed this spill based on the following: 1) all sources were removed, 2) only very low levels of residual ground water contamination remain in 1 well MW9, however MW10 was downgradient of this well and it was clean suggesting no offsite migration towards East River, 3) No residential basements adjoining. Based on the information submitted this site does not pose a risk to human health or the environment. Sent NFA to Heather Cloud.

1/16/08 − Obligado − Well Abandonment Report received. MW5 was abandoned. 3 other wells MW7, MW9, and MW10 could not be found with metal detector and may have been destroyed

Map Identification Number 148 **SHELL SERVICE # 138678** **Spill Number: 0411456** **Close Date: 02/08/2006**
3761 TENTH AVE MANHATTAN, NY TT−Id: 520A−0098−359

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1595 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 3761 10TH AVE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	MATTHEW SCHNECK − SHELL SERVICE #138678	Spiller Phone: (631) 979−5946
Notifier Type:	Other	Notifier Name:	MATTHEW ABBOTT	Notifier Phone: (631) 979−5946
Caller Name:	MATTHEW ABBOTT	Caller Agency:	NORTHEAST ENVIR.	Caller Phone: (631) 979−5946
DEC Investigator:	HRPATEL	Contact for more spill info:	MATTHEW SCHNECK	Contact Person Phone: (631) 979−5946

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/24/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

SOIL TESTING CAME BACK HIGH: CONTAMIANTED:

DEC Investigator Remarks:

csl sent 1/28/2005 to Motiva

3/23/05 − reassigned to Randy Austin per today meeting. Heating oil spill only. KST

3/28/05 − Austin − Temp. reassigned to Rossan, pending reassignment − no action will betaken until then

02/07/06 Assigned to DEC Patel.

case closed. Active under Spill # 0430011

Map Identification Number 149 **MANHOLE 39475** **Spill Number: 9914087** **Close Date: 11/16/2004**
NAGLE AVE/ACADEMY ST MANHATTAN, NY TT−Id: 520A−0091−092

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1638 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR MARCY	Notifier Phone:	(212) 580−6763
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND 1 GAL ON 25 GALS WATER −− SAMPLE TAKEN CLEAN UP WILL BEGIN SOON (NOT WAITING FOR RESULTS) CON ED 130395.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

e2mis no. 130395:

03/14/00 10:07 O.S R.Velasquez(27188) reports while working on fdr−1m11 they found 1 gallon of an unknown oil in MH−39475 N/W/C Academy St.& Nagle Ave. Have twenty five (25) gallons of water in structure also. No entry sewer or waterways. No visual movement of oil. There is a sump,but no sewer connection. Sample taken for I.D/PCB analysis. Field work is in progress and cleanup should be approximately 1400 hrs 03/14/00 ... Have oil filled cables,and primary joints in structure. cleanup will be done as 50−499ppm

INCIDENT # 130395, N/W/C NAGLE AVE AND ACADEMY ST, MH 39475, SAMPLE TAKEN,PENDIND LAB RESULTS, CLEANUP AS 50−499.PPM, RESULTS CAME BACK 1.PPM
DATE AND TIME THE CLEANUP COMPLETED: 03/14/00, 21:30
CLEANUP PROCEDURE: OIL AND WATER REMOVED VIA TANKER OVER >50 PPM, MANHOLE WAS THEN DOUBLE WASHED WITH BIO−GENESIS SOLUTION (SLIX), MANHOLE WAS THEN RINSED BY FLUSH TRUCK.
QUANTITY REMOVED FROM SITE AND TYPE OF CONTAINER'S USED: TWO 55 GAL DRUM'S HAZARDOUS WASTE (LEAD CONTAMINATED− PPE & ABSORBENT PAD'S), P/U BY ASTORIA TRANSPORTION, EPA # NYP004051587,
ASTORIA CORPORATE TRANSPORTATION TANKER OVER >50 PPM ACCUMULATION 25 GALS OIL AND WATER MIXTURE.
SPILL TAG REMOVED UPON COMPLETION.

Map Identification Number 150 **MAN HOLE # 60580** **Spill Number: 9904375** **Close Date: 09/28/1999**
ACADEMY ST / NAGLE AV MANHATTAN, NY TT−Id: 520A−0090−172

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1638 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	JOE DIVOTI	Notifier Phone:	(212) 580−6763
Caller Name:	JOE DIVOTI	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/13/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	6.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CON ED # 126441 MATERIAL IS IN MAN HOLE ON 100 GALLONS OF WATER SPIL CONTAINED IN MAN HOLE CLEAN UP TO BEGIN SHORTLY

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
CON ED E2MIS NOTES

Feeder 1M02, a spill of approx. 6gals. of unknown oil was found mixed with approx. 100gals of water. Sewer connection could not be verified(no conduit plate) ERT J. Arcoleo on location, no smoke or fire and no entry to waterway. A sample wa taken. Tanker has been ordered.

Lab Results.

Aroclor 1254, PCB 47 ppm

O.S. J. Byrnes #62353 reports cleanup complete

47ppm PCB Aroclor1254 SA 99−07263 rec'd 7−14−99

Removed 385 gals. oil/water

Generated 1 drum ppe

Used flush truck to clean & rinse with slix

Removed Spill Tag #18196

Completed @05:00hrs.

Map Identification Number 151 **MANHOLE 56066** **Spill Number: 9908258** **Close Date: 02/05/2004**
WEST 201 ST & 9TH AV MANHATTAN, NY TT−Id: 520A−0101−635

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1640 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR BYALICK	Notifier Phone:	
Caller Name:	MARK SCHLAGEL	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	COMENALE	Contact for more spill info:	MARK SCHLAGEL	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/07/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

PRODUCT ON 2 GALS WATER − CLEAN UP PENDING LAB RESULTS CON ED #128301

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 152 **MANHOLE #24157** **Spill Number: 9902923** **Close Date: 05/18/2000**
SO SIDE W201ST ST/9TH AVE NEW YORK, NY TT−Id: 520A−0098−469

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1640 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	STEVEN CRIBBIN	Notifier Phone:	(212) 580−6763
Caller Name:	STEVEN CRIBBIN	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	STEVEN CRIBBIN	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/14/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1 QT OIL ON 100 GALS OF WATER−NO SEWERS OR WATERWAYS AFFECTED

SAMPLE TAKEN−CLEAN PENDING RESULTS−CON ED #125548

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Approx 1 quart in m24157. 100 gallons of water did not enter waterways, sewer, or sumps.

AROCLOR 1242 1 ppm

Map Identification Number 153 **INSIDE MANHOLE 24151** **Spill Number: 9812586** **Close Date: 01/08/2004**
WEST 201 ST − 9TH AVE MANHATTAN, NY TT−Id: 520A−0101−637

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1640 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR HEFFERNAN	Notifier Phone:	(212) 580−6763
Caller Name:	JOE DEVOTI	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:	JOE DEVOTI	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/12/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL
The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
OTHER PETROLEUM	UNKNOWN	1.00	GALLONS	0.00	GALLONS	

Caller Remarks:

1 OZ OF UNKNOWN OIL. CLEAN UP TO BE DONE WHEN CREW IS AVAILABLE

USING 50 TO 499 PCB. AND LAB SAMPLES TAKEN. CON ED CLEAN UP NUMBER

IS 122385.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis no. 122385:

APPROX. 1 PT OF UNKNOWN FLUID (APPEARED TO BE OIL).

Cleanup complete on 1−13−99 at 1200 hours. 1−pint oil removed with absorbants, MH was then flushed.

LAB SEQUENCE # 99−00327 PCB <1 PPM

Map Identification Number 154 **MANHOLE 24157** **Spill Number: 9809104** **Close Date: 11/14/2003**
WEST 201ST ST MANHATTAN, NY TT−Id: 520A−0101−634

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1640 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	WILLIAM MURPHY	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:	CALLER	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/21/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 pint spill in manhole. ref # 120689. sample for pcb’s.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis 120689

10/21/98 11:30 J.MCCABE(00305) OS UG NORTH REPORTS M.BRATKO(10504) FROM UG NORTH FOUND SPILL OF APPROX 1 PT OF UNKNOWN OIL MIXED WITH 100 GALLONS OF WATER IN MH24157 LOCATED S/S W 201 ST 100’ W/O 9 AVE. SPILL WAS FOUND WHILE PREINSPECTING MANHOLES FOR UPCOMING FEEDER WORK. SPILL WAS FOUND AT 11:05 HRS ON 10/21/98 AND REPORTED TO MCHUGH(80285) IN THE CONTROL CENTER AT 11:30 HRS. SPILL IS CONTAINED, THERE WAS NO ENTRY TO ANY SEWERS OR WATERWAYS. THERE ARE NO VISIBLE CRACKS OR SEWER

CONNECTIONS IN THE MANHOLE, BUT THIS CAN NOT BE VERIFIED UNTIL ALL THE FLUID HAS BEEN REMOVED FROM THE MANHOLE. A

SAMPLE WAS TAKEN AND SPILL TAG #10495 WAS INSTALLED. THERE IS POSSIBLY PILC CABLE IN THE STRUCTURE, BUT THIS CAN NOT BE

DETERMINED UNTIL THE HOLE IS CLEANED. THERE WERE NO AGENCIES ON LOCATION. LOGGER PGM80285

If this is a Con Edison manhole it contains electrical cable and splices. Many manholes have a sealed sump in the floor which is used to allow runoff when pumping the structure. A hose is place in this sump and water on the floor will flow into the sump allowing the floor to be cleaned. If cleaned prior to analysis of the fluid, the structure will be cleaned as >50 PPM and all liquid and waste will be manifested accordingly. The structure will be double washed with a degreaser, i.e. Slix. All cleaning material and PPE will also be treated as >50. If any sludge is found within a manhole it is treated as lead contaminated and manifested accordingly. The spill identification tag will remain secured to the structure until the analysis is completed and if <500 PPM the signage will be removed. If the analysis is >499 PPM, a grid will be prepared for wipe testing the area. Until the analysis of the wipes are proven to be <10ugs/100cme2 all additional waste produced from the structure will be treated as the original analysis.

If this spill occurred in a transformer vault containing a sump pump and there was a possible release, the drainpipe trap will be dismantled to determine if oil was released. Sludge found in a vault, through historical analysis, has been determined not to contain lead.

10/21/98 11:55 MCHUGH ATTEMPTED TO NOTIFY CIG. NO RESPONSE. PGM80285

10/21/98 12:11 MCHUGH NOTIFIED W.MURPHY(CIG) OF THE SPILL. PGM80285

NOTE: An anlaysis was received for incident 120689 (SA98−11396 = <1.0 PPM / No Aroclor) BUT the address and structure do not match the location noted on the e2MIS report. ... 10/22/98 ... roz

10/22/98 LAB SEQ.#98−11396 10/22/98 01:57 AM AROCLOR # NONE PCB <1.0 PPM

RECORDED ON INCIDENT#120689

10−23−98 07:00

Cleanup completed on 10−23−98 at 0630, supervised by J.McCabe 00305. 200 gallons oily water removed via tanker, mh was then flushed. 1−55 gallon drum nonhazardous waste generated. Tag 10495 removed. Crew: J.Hinojosa 16383 and

11/3/98 13:50

Correct sample results:

10/22/98 09:46

LSN# 98−1138: Aroclor 1254 <1.0 ppm

Map Identification Number 155 **MANHOLE # 56064** **Spill Number: 0502280** **Close Date: 07/25/2005**
WEST 201 ST AND 9TH AVE MANHATTAN, NY TT−Id: 520A−0101−636

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1640 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN WHERE IT IS FROM	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	MARK PIROPATO	Notifier Phone:	(212) 580−6763
Caller Name:	MARK PIROPATO	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	SKARAKHA	Contact for more spill info:	ERT DESK MIKE DAUGHTERY	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/25/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
LUBE OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

NO TO 5 QUESTIONS: COMING OFF 24 HOUR CLOCK DUE TO LACK OF RESOURSES: CONED # 158772

DEC Investigator Remarks:

e2mis no 158772

J. Croughan 51129 reports finding 8 oz. of an unk. oil with an odor of sewage on 50 gal. of water. MH is located in drivewway on con ed storage lot. No sewers, waterways or private property affected. Env. tag 43186 placed in structure. Chain of custody DD06583 tracking a PCB sample, oil id and fecal test.

Lab Sequence Number: 05−04936−001 − TOTAL PCB 3 ppm
Lab Sequence Number: 05−04935−001 − analysis indicates the presence of a lubricating oil.

31−May−2005 13:45 hrs. Flush Mechanic, Ed Cedeno (03384) reports CFS tanker removed 150 gallons of liquid from the manhole. Vactor truck removed 50 lbs of lead hazardous solid
waste from the structure. The manhole was double washed with Bio−Gen 760 detergent. There was no visible source of oil infiltration into the structure. Environmental tag 43186 was removed. Clean up is complete. L Fischer 55784

31−May−2005 22:04 hrs. Reviewed. Rich Benkwitt 38373

Closed. 7−25−05. George Breen

Map Identification Number 156 **SHERMAN CREEK SUBSTATION** **Spill Number: 0011061** **Close Date: 03/14/2001**
W 201ST STREET MANHATTAN, NY TT−Id: 520A−0102−263

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1646 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201 STREET
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR TRAYNOR	Notifier Phone:	(212) 580−6765
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	KMFOLEY	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/10/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	14.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTING A SPILL OF UNK CAUSE CONED#135035 SAMPLES TAKEN CLENA UP PENDING RESULTS NO CALLBACK

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
e2mis Notes:

14 ounces unknown oil on concrete pad and sidewalk from an unknown source. Cleanup started as 50−499ppm PCBs. Spill cleaned up by 11:00 on 1/10. Area double washed with cleaner. Lab results recieved as 2ppm.

KMF 4/10/01.

Map Identification Number 157 **XFMR IN VAULT 5675 LEAKED FIVE GAL** **Spill Number: 0800181** **Close Date: 05/19/2008**
5030 BROADWAY/ WEST 213 STREET MANHATTAN, NY TT−Id: 520A−0214−949

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1703 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 5030 BROADWAY
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERTSDESK − CON EDISON	VAULT 5675	Spiller Phone:
Notifier Type:	Other	Notifier Name:			Notifier Phone:
Caller Name:		Caller Agency:			Caller Phone:
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK		Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/04/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

found in vault; all cleaned up @ 14:25. 210602

DEC Investigator Remarks:

05/19/08 − See eDocs for Con Ed report detailing cleanup and closure.

210602. see eDocs

Map Identification Number 158 **MANHOLE 57914** **Spill Number: 0004114** **Close Date: 10/17/2001**
5030 BROADWAY MANHATTAN, NY TT−Id: 520A−0094−279

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1703 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR TYNDALL	Notifier Phone:	(212) 580−6763
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/05/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 quarts on 80 gallons − clean up pending lab results − ref #132195

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis Notes:

7/5/00 2qts unknown oil on 80gal water in manhole. PCB and ID sample taken. PCB count returned <1ppm. ID analysis could not be completed due to insufficient amount of sample.

Oil water mixture was removed via tanker. Flush truck used high pressure hose to double wash the walls and floor with bio−gen solution. Manhole was then rinsed. Generated three plastic bags of non−hazardous waste (PPE and absorbant pads). 1300gal of oil and water was accumulated.

Map Identification Number 159 **221558; 416 WEST 201ST STREET** **Spill Number: 1008889** **Close Date: 03/30/2011**
416 WEST 201ST STREET MANHATTAN, NY TT−Id: 520A−0258−132

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1707 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/21/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	4.00	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

3/30/2011 − See eDocs for Con Ed report detailing cleanup and closure.

Map Identification Number 160 **SHERMAN CREEK CONSTRUCTION SITE** **Spill Number: 0801586** **Close Date: 08/05/2008**
416 WEST 201 STREET MANHATTAN, NY TT−Id: 520A−0214−906

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1707 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 416 W 201ST ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERTSDESK − CON EDISON	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/09/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

its a transite duct; believes it containes aspestos; 1 and 1/2 pounds; its at an old con ed property; they are breaking up the cement with mechanical force

211293

DEC Investigator Remarks:

08/05/08 − See eDocs for Con Ed report detailing cleanup and closure.

211293. see eDocs

Construction site is a former Con Edison generation station, long since dismantled. Site is adjacent to an operating Substation. Site is to become a substation.

Map Identification Number 161 **SHERMAN CREEK SUBSTATION MH** **Spill Number: 0408019** **Close Date: 10/23/2006**
416 WEST 201ST STREET MANHATTAN, NY TT−Id: 520A−0099−721

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1707 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	ANDREW MORRIS	Notifier Phone:	(212) 580−6763
Caller Name:	ANDREW MORRIS	Caller Agency:	CONED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/19/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CREWS ARE INVESTIGATING CAUSE AND SOURCE.

DEC Investigator Remarks:

10/23/06 − See e−docs for Con Ed report detailing cleanup and closure.

e2mis no. 155886:

19− October−2004 20:10hrs.
Central S/S operator F. Gonzalez # 14386 reports tha while walking accross the substation yard he discovered a manhole which contained an unknown amount of unknown petroleum based substance from the odor. There was/is no sewers, waterways or private property affected. Mr. Gonzalez is hanging an Envirinmental tag # 000818 at the manhole and Central S/S EH&S Sr. Specialist C. Little has been notified and in route to conduct a further investigation.

19−October−2004 20:42 hrs.
Central S/S EH&S Sr. Specialist C. Little 96080 reported that the manhole # is 400 and that there is a PCB tag in the manhole. There is ~ 5 gallons of unknown on ~ 3000 gallons of water. Cleanup pending resources.

Map Identification Number 162 **SHERMAN CREEK POWER PLANT** **Spill Number: 9910791** **Close Date: 05/27/2005**
ACADEMY ST & 201ST ST MANHATTAN, NY TT−Id: 520A−0093−081

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / W 201ST ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	STEVEN CRIBBIN	Caller Agency:	CON ED	Caller Phone:	(212) 580−8576
DEC Investigator:	JHOCONNE	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/09/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller doing boring encountered contaminated soil. con ed # 129260.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

12/11/99: While conduting a limited Phase II investigation for possible real estate sale, Con Ed contrator noted strong petroleum odor in boring B4 at 6’ to 8’ depth. There are a total of 12 borings spread throughout the site. No other borings exhibited evidence of contamination. (JHO)

2/11/00: Lab results for all borings submitted by Con Ed − soil results for B4 location don’t exhibit any VOCs or SVOCs above TAGM guidance. Groundwater sample from same location shows elevated concentration of chloroform (15.5 ppb vs. gw standard of 7 ppb) and isopropylbenzene (11 ppb vs. 5 ppb). Neither compound was detected in soil samples from same location.

5/6/05: e−mail from Mariela Gonzalez, Con Ed Remediation:
"Jane, attached there are three pdf documents for the subject incident report at the former Sherman Creek Power Plant. (1) e2mis report, (2) GW analytical Results, and (3) Soil Analytical Results.

"As you will see in the e2mis update, on 02/11/2000, I indicated that I was to send information to DEC and request to close the spill, since based on the analytical results for the soil sample and GW in the boring B4 (MW4), the location at which the incident report originated while soil boring was performed as part of phase II activities in 1999. The Phase II was performed when the Company was preparing alternative sites for re−powering (a component of the deregulation plan). I was probably leaving the Remediation group shortly after completing a bunch of Phase II, so I never had the chance to submit to you the analytical data or follow up even again on this open spill. Please review the soil and GW data results, and if you agree with the conclusion that not significant findings/impacts support further action, then please close out spill 9910791."

5/27/05: Close out. (JHO)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
e2mis no. 129260:

M. Gonzalez #77785 10−Dec−1999 − At 10:300 Scott Marotta (Remediation intern) reported that he just was aware that the consultant found evidence of contamination while installing a boring (B4) at the Sherman Creek former power generating site at which Phase Investigation activites are being completed. The split spoon sample from 6' to 8' interval below grade indicated the presence of oil sheen with strong petroleum odor. Unknown source, and the amount of sheen/oil can not be measured. A composite sample from this soil interval was submitted to lab for analysis (VOCs, SVOCs and PCBs, and cyanides). Another sample to deeper interval was collected (8−10') and no petroleum odor or evidence of contamintion was observed. A groundwater sample will be collected at this location and submitted to the lab. The column of soil above (say 5 to 8' feet interval) did not exhibit petroleum contamination or odor.

02/11/2000 − Soil and groundwater samples collected from boring 4 were analyzed for VOC, SVOC, PCBS and Metals. The results are presented in a Phase II report prepared by LMS. A summary of the analytical results (Tables 2 and 3) will be faxed to the ERTs. Total VOCs were very low (0.018 ppm) and most individual components were not detected in any of the soil samples. No SVOC or PCBs were detected above the clean up objective values. Groundwater results reported no impacts from VOC, SVOCs or PCBs. Based on the analytical results for soil and groundwater, this spill should be closed out. A letter to DEC will be sent requesting closure of this spill (DEC #99−10791).

T. Whipple − 81477 − 1/30/01 − Note: Stop Date entered as 2/11/00 based on Mariela's entry above. Status changed to cleanup complete/pending administrative closure, based on the fact that we are awaiting a closure letter from DEC. NYSDEC monthly update being entered to indicate that cleanup is considered complete, and we are awaiting a closure report.

Map Identification Number 163 **MAHOLE #24336** **Spill Number: 9908766** **Close Date: 12/08/1999**
W. 201ST ST AND ACADEMY MANHATTAN, NY TT−Id: 520A−0099−733

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / ACADEMY ST
Revised zip code: 10034
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR PELLIGRINO	Notifier Phone:	
Caller Name:	STEVE CRIBBIN	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/19/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 gals of unk fluid mixed with 800 gal of water − samples have been

taken and clean up pending results con ed #128528

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

2 quarts of unknown fluid mixed with 800 gallons of water in manhole M−24336 located in sherman creek substation. He was in process of identifying dead cable. Sump pump was not running. There is no conduit plate for this manhole. Sample taken for PCB and ID. No other oil filled equipment in structure.

PCB<1ppm

Date and time the cleanup completed: 11/8/99, 16:00

Cleanup procedure: oil and water removed via tanker under 50ppm, was double washed and rinsed with bio−genesis solution, manhole was then flush.

Map Identification Number 164 **MAN HOLE # 24329** **Spill Number: 9903065** **Close Date: 05/18/2000**
W 201ST ST/ACADEMY AVE NEW YORK, NY TT−Id: 520A−0093−030

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / ACADEMY ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	RICHARD ROACH	Notifier Phone:	(212) 580−6764
Caller Name:	RICHARD ROACH	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/16/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

con ed # 125597 material discoverd on the surface of 600 gallons of water in the above man hole clean up pending lab results

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Approximately 1 pint (16 ounces) of an unknown oil (brownish in color) on top of 600 gallons of water. No entry into waterway. No smoke/fire in structure. Cleanup completed on 6−23−99, 600 gallons oily water removed via tanker through hydro qual oil treatment truck. 1 plastic bag waste generated.

Map Identification Number 165 **MANHOLE #24334** **Spill Number: 9809226** **Close Date: 11/14/2003**
ACADEMY ST / WEST 201ST MANHATTAN, NY TT−Id: 520A−0092−972

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / WEST 201ST ST
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR BYALICK	Notifier Phone:	(212) 580−6763
Caller Name:	TONY CONSTANTINE	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/23/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTING AN UNKNOWN OIL FOUND IN MANHOLE. CLEAN UP PENDING LAB RESULTS.

CON ED #120758.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis 120758

10/23/98 11:28 K.MCDOWELL REPORTS HE FOUND UNKNOWN OIL 2−GAL'S

MIXED IN 150GAL'S OF WATER IN MH−24334 N/S ACADEMY ST 140'E/O

W.201 ST (IN SHERMAN CREEK) ITS CONTAINED,DID NOT ENTER WATERWAY

CRACKS OR SUMP NOT VERIFIED,NO SUMP RUNNING. SEWER NOT CONNECTED

DID NOT ENTER SEWER.TOOK SAMPLE AND HUNG SIGN#17741 CLEAN UP

PENDING RESULTS....THIS WAS FOUND WHILE PRE INSPECTING SHERMAN

CREEKS ABATEMENT PROJECT

LOGGER: EBYALICK#40075

10/23/98 12:06 NO ANSWER ON DIRECT LINE.....BYALICK#40075

10/23/98 12:16 NO ANSWER ON DIRECT LINE.....BYALICK#40075

10/23/98 12:26 NO ANSWER ON DIRECT LINE.....BYALICK#40075

10/23/98 12:30 C.I.G CONSTANINE NOTIFIED.....BYALICK#40075

10/24/98 0420 HRS

RESULTS OF LAB ANALYSIS #98−11523 RECEIVED @0256 HRS: PCB <1 PPM, AROCLOR 1260.

LOGGER JPH 74031

10−27−98 08:55

Due to asbestos arc proof (40 feet) this cleanup is now part of the Sherman Creek project.

LOGGER: J.McCabe 00305

5−11−99 16:55

On 5−11−99 1800 gallons oily water removed via tanker, 40’ asbestos removed.

Crew: M.Brotko 10504, J.Hinojosa 16383, Z.Frazier 16959, V.Marton 05779, R.Hudak 42514, J.Angiuli 46533. See incident 120756 MH 24334 for waste generated, because of proximity to M 24334 waste was shipped using PCB 96 PPM from MH 24334.

EPA # NYD986990315

LOGGER: J.McCabe 00305

5−27−99 06:10

On 5−25−99 2700 gallons oily water removed via tanker.

12−55 gallon drums waste generated.

Picked up by corp. trans.

Supervisor J.McCabe 00305.

Crew: M.Brotko 10504, J.Hinojosa 16383, J.Pelzer 06470, R.Hudak 42514, and J.Angiuli 46533.

On 5−26−99 2500 gallons removed.

Mh double washed.

1−55 gallon drum waste generated.

Tag 17741 removed. Same crew as 5−25−99.

All waste picked up by Corp. Trans.

LOGGER: J.McCabe 00305

Map Identification Number 166 **MANHOLE #24333** **Spill Number: 9809225** **Close Date: 11/04/2003**
ACADEMY ST/W 201ST ST MANHATTAN, NY TT−Id: 520A−0090−989

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR MARCY	Notifier Phone:	(212) 338−3352
Caller Name:	TONY CONSTANTINE	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/23/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTING AN UNKNOWN OIL FOUND IN MANHOLE. CON ED TO CLEAN PENDING LAB RESULTS.

CON ED #120756.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
E2MIS 120756

10/23/98 11:24 O.S K.MCDOWELL(77565) REPORTS FOUND UNKNOWN OIL IN MH24333 N/S ACADEMY ST 125' E/O W.201ST ST (IN THE SHER/CRK

YARD).

HAVE APPROXIMATELY 2 GALLONS OF UNKNOWN OIL ONTOP OF 150 GALLONS OF WATER... APPEARS TO BE AN OIL SCUM.... TAG#17738

INSTALLED.. SAMPLE TAKEN.. CLEANUP PENDING RESULTS....SPILL IS CONTAINED ... NO ENTRY INTO THE SEWER OR WATERWAYS.. FOUND

WHILE PRE−INSPECTING MANHOLES FOR SHERMAN CREEK ABATEMENT PROJECT..HAVE OIL FILLED DISTRIBUTION FEEDERS IN THE

HOLE

If this is a Con Edison manhole it contains electrical cable and splices. Many manholes have a sealed sump in the floor which is used to allow runoff when pumping the structure. A hose is place in this sump and water on the floor will flow into the sump allowing the floor to be cleaned. If cleaned prior to analysis of the fluid, the structure will be cleaned as >50 PPM and all liquid and waste will be manifested accordingly. The structure will be double washed with a degreaser, i.e. Slix. All cleaning material and PPE will also be treated as >50. If any sludge is found within a manhole it is treated as lead contaminated and manifested accordingly. The spill identification tag will remain secured to the structure until the analysis is completed and if <500 PPM the signage will be removed. If the analysis is >499 PPM, a grid will be prepared for wipe testing the area. Until the analysis of the wipes are proven to be <10ugs/100cme2 all additional waste produced from the structure will be treated as the original analysis.

If this spill occurred in a transformer vault containing a sump pump and there was a possible release, the drainpipe trap will be dismantled to determine if oil was

released. Sludge found in a vault, through historical analysis, has been determined not to contain lead.

10/23/98 12:03 CALLED CIG − NO ANSWER ON THE DIRECT LINE.... PM58101

10/23/98 12:13 CALLED CIG − NO ANSWER ON THE 800 NUMBER.... PM58101

10/23/98 12:29 CIG ADVISED(CONSTANTINE−

10/24/98 0030 HRS

RESULTS OF LAB ANALYSIS #98−11522 RECEIVED @2246 HRS; PCB: 96 PPM, AROCLOR 1254. CIG OPERATOR DEVOTI NOTIFIED OF PCB COUNT @2304 HRS ON 10/23/98.(DATA ENTRY INTO ORACLE COULD NOT BE PERFORMED UNTIL HEADING TIME LISTED DUE TO SYSTEM BEING DOWN AT THE TIME THE ANALYSIS WAS RECEIVED)

LOGGER JPH 74031

10/26/98 O.S. (UG) J. Byrnes #62353 reports no progress on this 3pm −

11 pm shift waiting for tanker to arrive.

This structure contains approximately 45’ Oil soaked Asbestos arc proof tape and will need an abatement.

Crews: A. Saladeen 16648, A Gaillard92473, N. Mekhaiel,18114

This job relieved by O.S. (UG) P. Setaro 01481 @ 23:00 hrs

Pending further information from P. Setaro at this time.

10−27−98 08:50

Due to the Asbestos Arc proofing (40 feet) in MH this cleanup will be included in the Sherman Creek project.

2−9−99 13:40

Approximately 1000 gallons of PCB contaminated water was removed from MH via tanker truck.

2−11−99 10:55

On 2−10−99 400 gallons oily water removed and 2−55 gallon drums hazardous waste. Supervised by J.McCabe 00305. Crew: M.Brotko 10504, T.Robinson 50666,

J.Rivera 16937, and E.Sims 37665.

Tag left in place pending asbestos abatement.

5−11−99 17:05

On 5−11−99 1800 gallons oily water removed via tanker.

40’ asbestos arc proof removed.

2−55 gallon drums PCB/asbestos generated.

1−55 gallon drum PCB waste generated.

EPA#NYP986990315.

Crew: M.Brotko 10504, J.Hinojosa 16383, R.Hudak 42514, J.Angiuli 46533, Z.Frazier 16959, V.Martin 05779, P.Prinz 20612.

5/25/99 14:00

On 5/24/99 400 gallons oily water removed via tanker.

6−55 gallon drums solid waste generated.

Picked up by corp. trans.

Mh double washed.

Crew: M.Brotko 10504, J.Hinojosa 16383, J.Angiuli 46533, R.Hudak 42514, J.Pelzer 06470.

Supervisor J.McCabe 00305.

3M joints in mh, cleanup pending removal of arc proof from same.

Feeder is 1x30, cutout 5−25−99.

Detailed Description:

5−27−99 06:00

On 5−26−99 1x30 ready for work at 1400 hours.

3m joints removed, I splice installed.

Tag 17738 removed.

1−55 gallon drum waste generated.

Same crew as 5−24−99.

Map Identification Number 167 **ACADEMY SUB STATION** **Spill Number: 0811866** **Close Date: 03/30/2009**
201ST & ACADEMY ST MANHATTAN, NY TT−Id: 520A−0227−966

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201ST ST / ACADEMY ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	asnagi	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/30/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT 2 OUNCES OF UNK HYDROCARBON WAS FOUND IN AN OPEN EXCAVATION. CLEAN UP IS PENDING.

DEC Investigator Remarks:

03/30/09 − See eDocs for Con Ed report detailing cleanup and closure.

Map Identification Number 168 **TIDAL MANHOLE 24331 HAS ONE PINT** **Spill Number: 0710888** **Close Date: 03/20/2008**
ACADEMY STREET & WEST 201 STREET MANHATTAN, NY TT−Id: 520A−0211−218

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / W 201ST ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT − CON EDISON	Spiller Phone:	(212) 580−8383
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/14/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	GROUNDWATER

Caller Remarks:

1 pint unknwn oil into 200 gall water manhole connects to possible sewer and waterway to harlem river,
yes #1 no #2−5
ref 209477

DEC Investigator Remarks:

03/20/08 − See eDocs for Con Ed report detailing cleanup and closure.

209477. see eDocs

Map Identification Number 169 **TIDAL MANHOLES # 24336 & 24341** **Spill Number: 0709310** **Close Date: 07/23/2009**
ACADEMY & WEST 201 STREETS MANHATTAN, NY TT−Id: 520A−0211−213

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1709 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / W 201ST ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERTSDESK − CON EDISON	Spiller Phone:	(212) 580−8383
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/26/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

unknown material but after testing found 200ppm of pcbs: the water body it is near is harlem river: nrc #855661.

Correcton: actually TWO ppm pcb, not 200.

208990

DEC Investigator Remarks:

09/10/09 − See eDocs for Con Ed report detailing cleanup and closure.

208990. see eDocs

Adjacent to Sherman Creek and Sherman Creek Substation.

ConEd crew was pulling cables on Monday when they saw water in manholes. They took samples. Results came back on Tuesday as two ppm pcb. Called in spill on Wednesday as a precaution because of tidal nature of manholes.

Dave Duke went out on Wednesday.

7/23/09 − Austin − Spill cleaned up by Con Ed − see EMIS in eDocs. − end

Map Identification Number 170 **MANHOLE 24335** **Spill Number: 9809305** **Close Date: 11/04/2003**
ACADAMY ST/10TH AVE MANHATTAN, NY TT−Id: 520A−0102−363

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1715 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / TENTH AVE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR MARCI	Notifier Phone:	(212) 580−6763
Caller Name:	TONY CONSTANTINE	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:	TONY CONSTANTINE	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CON ED 120−808 . 1 GAL ON 500 GAL OF WATER. CLEAN UP PENDING RESULTS OF LAB TEST.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
E2MIS 120808

10/26/98 10:00 O.S J.MCCABE(00305) REPORTS FOUND UNKNOWN FLUID IN M24335 N/S ACADEMY ST 320’ E/O 10TH AVE.. 1 GALLON.. 500 GALLONS

OF WATER IN STRUCTURE. CONTAINED NO RELEASE.. NO ENTRY INTO SEWERS OR WATERWAYS... .. NO CRACKS IN SUMP... NO SEWER

CONNECTION... SAMPLE TAKEN AND TAG#17703 INSTALLED.... CLEANUP PENDING TANKER..PM58101(LOGGER)

If this is a Con Edison manhole it contains electrical cable and splices. Many manholes have a sealed sump in the floor which is used to allow runoff when pumping the structure. A hose is place in this sump and water on the floor will flow into the sump allowing the floor to be cleaned. If cleaned prior to analysis of the fluid, the structure will be cleaned as >50 PPM and all liquid and waste will be manifested accordingly. The structure will be double washed with a degreaser, i.e. Slix. All cleaning

material and PPE will also be treated as >50. If any sludge is found within a manhole it is treated as lead contaminated and manifested accordingly. The spill identification tag will remain secured to the structure until the analysis is completed and if <500 PPM the signage will be removed. If the analysis is >499 PPM, a grid will be prepared for wipe testing the area. Until the analysis of the wipes are proven to be <10ugs/100cme2 all additional waste produced from the structure will be treated as the original analysis.

If this spill occurred in a transformer vault containing a sump pump and there was a possible release, the drainpipe trap will be dismantled to determine if oil was released. Sludge found in a vault, through historical analysis, has been determined not to contain lead.

10/26/98 10:37 CIG ADVISED(CONSTANTINE)..... PM58101

10/28/98 4:56 AM LAB RESULTS ARE AS FOLLOWS, IN MH 24335 SAMPLE TYPE WAS OIL, AROCLOR 1254/ 2.9 PPM/ LAB SEQ.#98−11618

/INCIDENT#120808.

1028−98 08:10

Cleanup started on 10−27−98 at 0030, supervised by J.McCabe 00305. 3000 gallons oily water removed via tanker. 50 feet asbestos arc proof found, this job is now

part of Sherman Creek asbestos project. Crew: M.Brotko 10504, T.Robinson 50666, J.Burgos 07271, and R.Calderon 19847.

5−12−99 17:10

On 5−12−99 2000 gallons oily water removed via tanker.

Supervised by J.McCabe 00305.

50’ asbestos arc proof tape removed.

1−55 gallon drum PCB/lead.

2−55 gallon drums PCB/Asbestos.

1−55 gallon drum PCB/no lead.

EPA#NYD986990315.

Picked up by transportation.

Crew: M.Brotko 10504, J.Hinojosa 16383, R.Hudak 42514, V.Martin 05779, J.Angiuli 46533, and Z.Frazier 16959.

6−1−99 08:55

On 5−27−99 4000 gallons oily water removed via tanker.

Supervised by J.McCabe 00305.

11−55 gallon drums waste generated, picked up by Corp. Trans.

Crew: M.Brotko 10504, J.Hinojosa 16383, R.Hudak 42514, J.Pelzer 06470, and J.Angiuli 46533.

On 5−28−99 400 gallons oily water removed via tanker.

Supervised by R.Velasquez 27188.

2−55 gallon drums waste generated, picked up by Corp. Trans.

Crew: M.Brotko 10504, J.Hinojosa 16383, J.Pelzer 06470, and J.Angiuli 46533.

Hi−Pot of 1m02 delayed job.

6−2−99 05:50

Cleanup completed on 6−1−99 at 1700 hours.

Supervised by J.McCabe 00305.

MH double washed using bio−genesis and power washer.

Tag 17703 removed. Crew: M.Brotko 10504, J.Hinojosa 16383, J.Pelzer 06470, and J.Angiuli 46533.

1−55 gallon drum waste generated.

1800 gallons oily water removed.

Detailed Description:

Map Identification Number 171 **219633; 10 AVENUE AND ACADEMY STREET** **Spill Number: 0914663** **Close Date: 07/08/2010**
10 AVENUE AND ACADEMY STREET MANHATTAN, NY TT−Id: 520A−0248−732

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1715 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 10TH AVE / ACADEMY ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	dmpokrzy	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/18/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	2.00	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

07/08/2010
See eDocs for Con Ed report detailing cleanup and closure DMP

Map Identification Number 172 **MANHOLE #60078** **Spill Number: 0106312** **Close Date: 09/10/2004**
WEST 201ST ST/10TH AVE MANHATTAN, NY TT−Id: 520A−0102−364

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1715 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	BOOMER	Notifier Phone:	(212) 580−6763
Caller Name:	SEAN MCKEAVER	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	SEAN MCKEAVER	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/14/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION ON TOP OF 500 GALLONS

OF WATER. AMOUNT REPORTED AS 1
PINT. SAMPLE HAS BEEN TAKEN.

CON ED # 139447.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
E2MIS 139447

9/14/01 14:10 HRS.

1 pint of unknown oil on top of approx. 500 gallons water in manhole M60078. The oil was found on top of the water in the concrete structure. The source and cause of the spill is unknown. The field operator states that the oil is possibly insulatum from a damaged cable. There was no sump pump running and no askarel components involved. Spill tag #31000 was installed. Two liquid samples were taken. Absorbent pads placed on top of the water to verify the presence of oil.

9/14/01 22:40 hrs

Received lab results, lab sequence # 01−09084−001

Analysis indicates the presence of a substance similar to a dielectric fluid.

9/14/01 23:28 hrs

Received lab results, lab sequence # 01−09083−001

Total PCB < 1.0 ppm

Update 9−15−01 @ 16:17 V Mazza #17336 reports that cleanup is complete as of 13:30. Double washed with slix solution , High

pressure washed walls and floor with flush truck high pressure hose. removed tag #31000.

Map Identification Number 173 **MH 43417** **Spill Number: 0000979** **Close Date: 03/22/2004**
WEST 201 ST/ 10TH AV MANHATTAN, NY TT−Id: 520A−0102−367

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1715 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: WEST 201 ST / TENTH AV
Revised zip code: 10034

Source of Spill: UNKNOWN Spiller: UNKNOWN Spiller Phone:
Notifier Type: Affected Persons Notifier Name: JOSEPH KINDLE Notifier Phone:
Caller Name: TONY LOPEZ Caller Agency: CON EDISON Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE Contact for more spill info: CALLER Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/25/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	1.00	GALLONS	SOIL

Caller Remarks:

1 pt on 50 gals water. samples taken clean up pending

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 131017:

Flush Operations discovered 1 pint of unknown oil sitting atop 50 gallons of water in M/H 43417. sewer connection could not be verified at this time conduit plate 76c−D not available. Sample was taken.

LAB SEQ.# 00−04034 PCB <1 ppm

DATE AND TIME THE CLEANUP WAS COMPLETED: 04/26/00, 14:05.

CLEANUP PROCEDURE: FLUSH TRUCK FROM FLUSH OPERATIONS USED A HIGH PRESSURE HOSE TO DOUBLE WASHED THE FLOOR AND WALLS WITH BIO−GENESIS SOLUTION (SLIX), MANHOLE WAS THEN RINSED BY FLUSH TRUCK.

Map Identification Number 174 **SHERMAN CREEK MARINA** **Spill Number: 0000613** **Close Date: 02/13/2003**
201ST ST/10TH AVE MANHATTAN, NY TT−Id: 520A−0102−365

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1715 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 201 ST / TENTH AVE
Revised zip code: 10034

Source of Spill:	VESSEL	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	TIM BROWN	Notifier Phone:	
Caller Name:	TIM BROWN	Caller Agency:	MAYORS OFFICE OEM	Caller Phone:	(917) 418−7158
DEC Investigator:	RWAUSTIN	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/15/2000		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SURFACE WATER

Caller Remarks:

caller reporting a possible spill of material into the water there from sinking boats no clean up has been done as of yet and a callback is necessary for next step of remidation

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"
02/13/2003−Transfered from Tibbe to Austin. Closed Due To The Nature / Extent Of The Spill Report.

Map Identification Number 175 **I/F/O 300 WEST 201ST ST** **Spill Number: 0912120** **Close Date: 04/01/2010**
300 WEST 201ST ST MANHATTAN, NY TT−Id: 520A−0248−457

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1735 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	Con Ed Unassigned	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/19/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

8 OUNCES OF UNK OIL FOUND IN AN OPEN EXCAVATION CLEAN UP PENDING.

DEC Investigator Remarks:

04/01/10 − See eDocs for Con Ed report detailing cleanup and closure.

Map Identification Number 176 **ACADEMY STREET SUBSTATION** **Spill Number: 0805834** **Close Date: 11/24/2008**
1 ACADEMY ST NEW YORK, NY TT−Id: 520A−0222−342

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1735 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 300 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	NOT YET IDENTIFIED	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	asnagi	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/21/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1/2 GALLON FOUND IN A TRENCH ;

DEC Investigator Remarks:

11/24/08 − See eDocs for Con Ed report detailing cleanup and closure.

Map Identification Number 177 **CONED −ACADEMY ST SUBSTATION** **Spill Number: 0804331** **Close Date: 08/27/2008**
300 WEST 201ST STREET MANHATTAN, NY TT−Id: 520A−0220−476

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1735 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERTSDESK − ACADEMY SUB STATION	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/16/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1/2 gallon and went into soil: contractors truck

DEC Investigator Remarks:

08/27/08 − See eDocs for Con Ed report detailing cleanup and closure.

07/22/08−Vought−Spill assigned to DEC Breen

Map Identification Number 178 **ACADEMY S/S SITE. OIL IN EXCAVATION** **Spill Number: 0803776** **Close Date: 08/27/2008**
300 WEST 201 STREET MANHATTAN, NY TT−Id: 520A−0220−624

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1735 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 300 WEST 201ST STREET
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERTSDESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/01/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1/2 GALLON AND TAKING SAMPLES. 212245

DEC Investigator Remarks:

08/27/08 − See eDocs for Con Ed report detailing cleanup and closure.

212245. see eDocs.

Map Identification Number 179 **MANHOLE 29002** **Spill Number: 9814036** **Close Date: 10/21/2002**
W FORDAM RD/ FREDWICK AVE BRONX, NY TT−Id: 520A−0009−317

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1765 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: W FORDHAM RD / SEDGWICK AVE
Revised zip code: 10468

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR VESELY	Notifier Phone:	
Caller Name:	TONY CONSTANTINE	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:	TONY CONSTANTINE	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/19/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CON ED 123−156. CLEAN UP PENDING LAB RESULTS. SPILL ON 6000 GAL OF WATER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
DEC Inspector Notes:

2/24/98: Spoke to ERT Perez− he is ot investigate why spill of

oil appears to have been cleaned before PCB results obtained.

Con ed e2mis notes:

ON 2/20/99 TO crews responded to manhole to perform cleanup.

Thre ws only a sheen in the manhole. Not 2 gallons of oil. Pads

were placed to absorb sheen. There was not enough product in the

manhole to take a sample. The sheen was completely absorbed with

the pads.

Map Identification Number 180 **MANHOLE 29002** **Spill Number: 1309432** **Close Date: 02/20/2014**
WEST FORDHAM RD NEAR SEDGEWICK AVE BRONX, NY TT−Id: 520A−0295−214

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1765 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON ED	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/26/2013		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSMISSION FLUID	PETROLEUM	10.00	GALLONS	0.00	GALLONS	

Caller Remarks:

on top of 5000 gallons water − associated with transmission feeder − cleanup pending

DEC Investigator Remarks:

Emis#: 235753

12/26/2013 − Feng − Called ERT (212−580−8383) and spoke with Brian. It was about 10 gallons or maybe less oil on top of water. The water might be from the rain runoff or groundwater penetration. Scheduled to cleanup.

2/20/14 − Austin − 10 gals feeder oil atop 5,000 gals water i n vault − Con Ed contained and cleaned up the spill; they could not find any leaks − See eDocs for further information − Spill closed − end

Map Identification Number 181 **MH 26481** **Spill Number: 0504375** **Close Date: 09/19/2005**
BAILEY AVE AND FORDHAM RD BRONX, NY TT−Id: 520A−0014−394

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1765 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: BAILEY AVE / FORDHAM RD
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	ERTS − MH 26481	Spiller Phone:	(216) 593−7153
Notifier Type:	Responsible Party	Notifier Name:	ROHRER, DENNIS	Notifier Phone:	(212) 580−8383
Caller Name:	MARK PIROPATO	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	GDBREEN	Contact for more spill info:	ERTS	Contact Person Phone:	(216) 593−7153

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/12/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

159708.000

DEC Investigator Remarks:

159708. 12−Jul−2005 22:04 hrs. FOD Sr. Field Operator Gary Cooper 19017 reports discovering 100 gals of unknown liquid (reported as an abnormal occurance) contained in MH−26481. being sampled on coc DD13417 for (oil) ID and PCB's after o/s Willie Armour 36069 inspected structure and confirmed unknown liquid substance. No smoke or fire is/was involved. No release to sewer or waters. No reported injuries. No private property affected. No agencies on site. Weather is hot and humid. Env yellow tag 42855 placed. Feeder 1x24 being processed and gen'l mgr wants to install a primary shunt (no outages involved) only feeder Opened Auto. O/S Armour delivering samples to Chemlab. Rich Benkwitt

12−Jul−2005 22:47 hrs. In conversation with ERT Maureen Evers requesting flashpoint. Called chemlab and they will spilt the load, as the samples are delivered now, and FOD does not have another 1 qt sample jar and left location already. ID will not be done until the 07:00 −15:00 shift due to manpower concerns in chemlab. Rich Benkwitt 38373

13−Jul−2005 05:29 hrs. Called chemlab, LIMS down for two hours. Oil ID sample had a problem and was left for superviosr to review at 07:00 hours when he comes in. PCB should be ready in 1 hour. Flashpoint being worked on. Rich Benkwitt 38373

13−Jun−2005 08:09 Oil Identification. Analysis indicates the presence of a cable oil.

PCB Analysis by EPA 608/8082

Aroclor 1242 < 1.0 ppm EPA 608/8082
Aroclor 1254 < 1.0 ppm EPA 608/8082
Aroclor 1248 27.9 ppm EPA 608/8082
Aroclor 1260 < 1.0 ppm EPA 608/8082

TOTAL PCB 28 ppm

13−Jul−2005 18:17 hrs. Change materials quantities to 2.5 gals of cable oil and 97.5 gals of water. Zero unk gals of liquid from 100 gals original report. Rich Benkwitt 38373

13−Jul−2005 21:03 hrs. Mech A Ralph Budhoo 82277 and Russel Boden 86061 relieved at 20:30 hours by Mech A Mike Williams 83739 and Ade Wheeler 00380. Budhoo had reported 18:30 hours completed first wash with 760 soap solution and rinsed. Cleanup started by Budhoo at 16:45 hours and continuing with Mike Williams crew now. Rich Benkwitt 38373

13−Jul−2005 22:44 hrs. Mech A Mike Williams 83739 reported 3x washed with 760 bio−gen soap solution and rinsed. Generated 800 gals of liquid into CFS <50 tanker for transportation to Astoria TSDF and 2.5 CY of soild debris generated into vactor for disposal at Hellgate Flush facility. Env yellow tag 42855 pulled from structure. Cleanup started at 16:45 and completed at 22:40 hrs. and the source the oil is a cable joint to be which going to be removed on Jul 14 7−3 shift. Rich Benkwitt 38373

14−Jul−2005 17:05. As per FCR V. Headley 15702 the leaking cable joint was removed at 16:00. D. Rohrer 12788.

Closed. 9−19−05. GB

Map Identification Number 182 **MANHOLE # 29002** **Spill Number: 0305541** **Close Date: 07/21/2005**
W FORDHAM RD/SEDGWICK AV BRONX, NY TT−Id: 520A−0007−058

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1765 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	EVA MCQUEEN	Notifier Phone:	(212) 580−6765
Caller Name:	LARRY COSTA	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	LARRY COSTA	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/25/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	6.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Above material discovered spilled at above locaiton on top of 3800 gallons of water. Sample taken and cleanup is pending test results.

Con Ed # 150005.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 150−005:

On August 25, 2003, R. Davis, 15700 of M & C reported while doing routine inspection on manhole 29002, feeder M51 approximately 3 gallons of unknown oil and approximately 3800 gallons of water was discovered in the manhole. Samples will be taken. Cause and source of spill is unknown at present.

UPDATE

Per C. Serano supervisor of M & C, the amount of unknown oil has been changed from 3 to 6 gallons.

Subsequent to the spill event, irregularity repairs were performed in manhole 29002 on 9/10/2003 as indicated by MAXIMO work order # 0000209172. This would indicate that the spill which occurred previous to this maintenance was cleaned and the report should have been closed. A stop time of 9/10/03, 12:00hrs is being assigned to this spill.

Map Identification Number 183 **APARTMENT BUILDING 8** **Spill Number: 0012998** **Close Date: 10/31/2003**
FORDHAM/SEDGWICK BRONX, NY TT−Id: 520A−0011−346

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1765 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: W FORDHAM RD / SEDGWICK AVE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	P LEONARD JONES − APARTMENT BUILDING 8	Spiller Phone: (718) 365−9600
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:
Caller Name:	CAROLYN MANNING	Caller Agency:	CITIZEN	Caller Phone: (718) 367−3148
DEC Investigator:	TJDEMEO	Contact for more spill info:	P LEONARD JONES	Contact Person Phone: (718) 365−9600

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/01/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

problem with oil fumes in the apartment building − occurring over long period of time

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
10/31/03 TJD

Old vapor complaint. No recent history. Spill closed.

Map Identification Number 184 **MANHOLE 12719** **Spill Number: 9905354** **Close Date: 11/08/1999**
IFO 2400 SEDGEWICK AVE BRONX, NY TT−Id: 520A−0013−399

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1800 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10468

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR MOORE	Notifier Phone:	(212) 580−6763
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:	CALLER	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/03/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller reports 2 quart spill in manhole. con ed #127027. sample taken and cleanup pending test results.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
con ed e2mis notes:

2 quarts of unknown oil in MH−12719, oil is contained in hole and has not entered any sewer or waterway.

18 ppm

Job cancelled due to priority work bnks off the system, job to be rescheduled. Clean up complete at 4:30 and environ stop tag removed.

Clean up complete at 4:30

Oil removed with absorbent, manhole then double washed. Electric cables. Possible PILC cable in structure. Conduit plate 27−G indicates no sewer connection in this manhole.

Map Identification Number 185 **SB 24271 HAS FIFTY GALLONS** **Spill Number: 0801424** **Close Date: 08/27/2008**
IN FRONT OF 230 WEST 215 STREET MANHATTAN, NY TT−Id: 520A−0214−923

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1840 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 230 W 215TH ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERTSDESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/06/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

UNKNOWN WHAT HAPPENED: 211217

DEC Investigator Remarks:

08/27/08 − See eDocs for Con Ed report detailing cleanup and closure.

211217. see eDocs

Map Identification Number 186 **214249; W 215 ST AND 9TH AVE** **Spill Number: 0814552** **Close Date: 10/28/2008**
W 215 ST AND 9TH AVE NEW YORK, NY TT−Id: 520A−0248−655

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1871 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: W 215TH ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/21/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 187 **214248; W 215 ST AND 9TH AVE** **Spill Number: 0814551** **Close Date: 10/22/2008**
W 215 ST AND 9TH AVE NEW YORK, NY TT−Id: 520A−0248−654

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1871 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: W 215TH ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: ERT DESK − CON EDISON Spiller Phone:
Notifier Type: Responsible Party Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: DMPOKRZY Contact for more spill info: ERT DESK Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/21/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 188 **214246; W 215 ST AND 9TH AVE** **Spill Number: 0814550** **Close Date: 10/24/2008**
W 215 ST AND 9TH AVE NEW YORK, NY TT−Id: 520A−0248−653

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1871 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: W 215TH ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name:
DEC Investigator: DMPOKRZY
Spiller: ERT DESK − CON EDISON
Notifier Name:
Caller Agency:
Contact for more spill info: ERT DESK
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/21/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	1.00	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 189 **STREET** **Spill Number: 0104026** **Close Date: 05/20/2005**
W 215TH ST/9TH AVE MANHATTAN, NY TT−Id: 520A−0090−740

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1871 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Affected Persons
Caller Name: BILL MURPHY
DEC Investigator: JHOCONNE
Spiller: UNKNOWN
Notifier Name: CURTIS
Caller Agency: CON ED
Contact for more spill info: CALLER
Spiller Phone:
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6763

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/16/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CONTAMINATED SOIL WAS DISCOVERED WHILE DIGGING EXCAVATION TO REPAIR STREET LIGHT. CON ED LAB TOOK SAMPLE. CON ED WILL CLEAN UP.
SPILL IS 1 CUBIC YARD W/AN ODOR OF FUEL OIL. NO CON ED #

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

E.Morales #85853 of Construction Management was working in an open excavation at nwc w 125 St & 9 Ave. doing repairs on street light duct. Found approx 1
cubic yard of soil mixed wth unknown fuel oil.
Chem−Lab was out to location to take sample of soil This is 3rd party spill. No sewers,or drains affected Clean up is pending lab results

Update Lab seq.#01−07379−001
TEST DESCRIPTION RESULT UNIT METHOD

Aroclor 1242 < 1.0 ppm EPA 608/8082
Aroclor 1254 < 1.0 ppm EPA 608/8082
Aroclor 1248 < 1.0 ppm EPA 608/8082
Aroclor 1260 < 1.0 ppm EPA 608/8082

01/26/2001 @ 9:15 − As per Joe Fleinger, Project Specialist M&C − EHS. The test results indicated presence fuel oil with TPH at 3510 ppm. PCB < 1ppm. The soil
was disposed of by Clean Harbors as non haz oily waste. The job was completed on 7/31/2001 and this incident is being closed.

Map Identification Number 190 **IN SWAMPY AREA/BOAT BASIN** **Spill Number: 9705749** **Close Date: 12/08/2003**
3725 10TH AV MANHATTAN, NY TT−Id: 520A−0099−732

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1937 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10040

Source of Spill:	VESSEL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:	DISPATCHER	Notifier Phone:	(718) 595−4783
Caller Name:	INV ANTHONY HENRY	Caller Agency:	NYC DEP	Caller Phone:	(718) 595−4766
DEC Investigator:	RWAUSTIN	Contact for more spill info:	INV ANTHONY HENRY	Contact Person Phone:	(718) 595−4766

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/04/1997		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SURFACE WATER
OTHER	OTHER	0	GALLONS	0	GALLONS	SURFACE WATER
The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
OTHER PETROLEUM	UNKNOWN	0	GALLONS	0	GALLONS	

Caller Remarks:

CALLER RECIEVED A CALL FROM MR WAI−MAN WONG FROM NYC DEP HAZMAT ABOUT A PROPERTY BEHIND THE ABOVE ADDRESS − THIS PIECE OF PROPERTY IS AN OLD BOAT BASIN WHICH STILL HAS OLD BOATS AND OTHER WASTE AND JUNK OBJECTS WHICH ARE LEAKING VARIOUS FLUIDS AND OILS INTO THE HUDSON RIVER − THE TIDE STILL GOES IN AND OUT OF THIS ARE, IT IS A LARGE ENVIROMENTAL HAZARD − CALLER WOULD LIKE A CALL BACK AS SOON AS POSSIBLE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"
8/12− 10:55 AM CALLED DEP− LEFT MESSAGE FOR A. HENRY.

12/8/03 − AUSTIN − SURF SPILLFROM 6 YRS AGO − CLOSED − ORIG. ASSIGNED TO SIGONA − END

Map Identification Number 191 **MANHOLE 56411** **Spill Number: 9810323** **Close Date: 11/04/2003**
ACADEMY ST/MARGINAL ST MANHATTAN, NY TT−Id: 520A−0101−632

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1942 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / MARGINAL ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR ROMANO	Notifier Phone:	(212) 580−6763
Caller Name:	STEPHEN CRIBBINS	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/16/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 GAL UNKNOWN PETRO MIXED W/500 WATER − LAB SAMPLE TAKEN AND CLEAN UP IS IN PROGRESS .

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
E2MIS 121276

If this is a Con Edison manhole it contains electrical cable and splices. Many manholes have a sealed sump in the floor which is used to allow runoff when pumping the structure. A hose is place in this sump and water on the floor will flow into the sump allowing the floor to be cleaned. If cleaned prior to analysis of the fluid, the structure will be cleaned as >50 PPM and all liquid and waste will be manifested accordingly. The structure will be double washed with a degreaser, i.e. Slix. All cleaning material and PPE will also be treated as >50. If any sludge is found within a manhole it is treated as lead contaminated and manifested accordingly. The spill identification tag will remain secured to the structure until the analysis is completed and if <500 PPM the signage will be removed. If the analysis is >499 PPM, a grid will be prepared for wipe testing the area. Until the analysis of the wipes are proven to be <10ugs/100cme2 all additional waste produced from the structure will be treated as the original analysis.

If this spill occurred in a transformer vault containing a sump pump and there was a possible release, the drainpipe trap will be dismantled to determine if oil was released. Sludge found in a vault, through historical analysis, has been determined not to contain lead.

11/16/98 11:35 J. McCABE #00305 UNDERGROUND REPORTS: ON SCHEDULED WORK IN M−56411 S/S ACADEMY ST. 255’ W/O MARGINAL ST. FOUND

APPROX. 2 GALS. OF AN UNKNOWN FLUID THAT APPEARS TO BE OIL. ON APPROX. 500 GALS OF WATER. OIL IS CONTAINED TO THE MANHOLE

DIDN’T ENTER ANY WATERWAYS OR SEWER SYSTEMS. TOOK SAMPLE AND HUNG SIGN # 50666. HAVE NO VISIBLE CRACKS IN THE MANHOLE NO

SUMP OR SEWER CONNECTION. IN PROGRESS DOING CLEANUP PERSONELL ARE M.BROTKO # 10504 & T. ROBINSON # 50666. C.I.G. CRIBBINS

NOTIFIED @ 11:53 { ORACLE DOWN FROM 11:35 TO 14:32}

11/18/98 16:00 AS PER M.BARRY SHIFT MGR#9 THIS IS A D−FAULT LOCATION AND HAS BEEN SINCE 11/16/98..... SIGN#107 IN PLACE FOR DFAULT

The following has been extracted from E Mail:

−−−−−Original Message−−−−−

From: Giasi, Anthony

Sent: Wednesday, November 18, 1998 3:27 PM

To: Buffamante, Salvatore

Cc: O’Neill, Robert; DeStefano, Joseph; Torres, Carlos D.; Greco, Anthony; Lenge Jr, Joseph; Peck, Richard A.; Simms, Frederick R.; Malgeri, John R.; Zoeller,

Richard; Anthony Giasi; Anton Zic; Dennis Cassar; Edward Savage; James Peterson; John Mula; Lon Faccini; Mario Battista; Martin Barry; Richard

Marczewski; Robert Pellegrino; Steve Cioffi; Thomas Guerin

Subject: RE: Damaged feeder 332 in mh 56411

Importance: High

Sal,

Here’s the email I spoke about. An Emergency crew will be on site tomorrow morning to spear feeder 332 and resolve "D" fault to allow PCB (202ppm) cleanup to proceed. Please pass to DOs as a heads up.

Thanks, Tony

−−−−−Original Message−−−−−

From: Lenge Jr, Joseph

Sent: Wednesday, November 18, 1998 2:19 PM

To: Peck, Richard A.

Cc: Talbot, Ronald; O'Neill, Robert; DeStefano, Joseph; Torres, Carlos D.; Giasi, Anthony; Greco, Anthony

Subject: Damaged feeder 332 in mh 56411

I have researched retired feeder 332 with the intent to locate the ends on this feeder. It has been reported to me that there is a damaged joint in manhole 56411 and this damaged joint is holding up a PCB cleanup. Primary Design's records indicate that the feeder has been retired as per one line 3A "Sherman Creek Substation" dated 7/10/89. Both the last active feeder map on 332 and the composite feeder map 76−e−1 dated 8/27/98 indicate that the cables are not cut in any of the manholes that ties the Generating station and the Sherman Creek Switching Station.

I spoke with Dick Fogerty and asked for assistance to locate ends either in the Generating station or Switching Yard. I was informed that Transformer Vault #2 was retired 10 years ago and that the ends of the cable were most likely cut at the duct edge at the location of the transformer in the Yard. Joe Destefano reports that at this location only fresh blue stone is seen without any signs of ducts or cable. In the Gen Station, Mr. Fogerty reports that the cable fed from the street to Assembly 702 but due to the retirement and subsequent demolition of the station that 332 ends could not be positively confirmed with in the plant.

Research from the composite feeder map and duct records indicate that this is the only feeder in mh 56411.

Based upon this information, I submit the following recommendation to you. Feeder 332 is to be speared by operations through the District Operator.

I will submit my ducting report to you to provide to operations.

Joseph Lenge Jr.

Manhattan Customer Service

Engineering Operations

Primary Design

From: Sturm, Dave

Sent: Wednesday, November 18, 1998 1:29 PM

To: Lenge Jr, Joseph

Subject: Feeder Status For No. 332

Per feeder map F_332 (dated 7−21−87) and "Composite Feeder Plate" No.76−E−1 (dated 8−27−98)

The following information is:

The only feeder in M−56411 is F_332.

1..West wall 8−5" ducts 6−feeder cables, ground cables and gas pipe.

2..East wall 8−5" ducts 4−feeder cables

3..South wall 1−4"duct Bond cable

12−1−98 09:15

On 11−19−98 at 0800 hours #9 on location to spear feeder 332, FOB on location to ID feeder. At 2300 hours on 11−19−98 cleanup resumes. 1000 gallons oily water

removed via tanker, mh was then triple washed due to heavy concentration of oil on mh walls. Cleanup completed on 11−20−98 at 2100 hours.

21−55 gallon drums hazardous waste generated. PCB 202 PPM. Sherman Creek EPA#NYD986990315.

Supervisors: J.McCabe 00305 relieved by R.Velasquez27188. Crews: M.Brotko 50666, T.Robinson 50666, J.Hinojosa 16383, C.Geherr 12515, S.tait 08934, V.Martin

05779, J.Gaito 15888, J.Pelzer 06470, A.Pizarro 14781,O.Cruz 14192. Tag 17726 removed.

Map Identification Number 192 **MANHOLE # 56414 EMIS 218119** **Spill Number: 0905952** **Close Date: 11/30/2009**
ACADEMY ST & EXTERIOR ST MANHATTAN, NY TT−Id: 520A−0257−941

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1942 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / EXTERIOR ST
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	Con Ed Unassigned	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/21/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	
OTHER	OTHER	0	GALLONS	0	GALLONS	

Caller Remarks:

1 QUART OF OIL ON 400 GALLONS OF WATER. CLEAN UP IS PENDING. NRC 915589 CON ED #218119

DEC Investigator Remarks:

11/30/09 − See eDocs for Con Ed report detailing cleanup and closure.

Map Identification Number 193 **MANHOLES 24340 & 24339 (TIDAL)** **Spill Number: 0802105** **Close Date: 10/15/2008**
ACADEMY ST & MARGINAL STREET MANHATTAN, NY TT−Id: 520A−0220−209

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1942 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: ACADEMY ST / MARGINAL ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERTSDESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/23/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

Oil sheen in two adjacent manholes, manhole 24340 was discovered at 12:10 hours date, and the discovery time for manhole 24339 was 12:15 hours date. These are both title manholes conected to an unknown body of water. NRC number assigned to this is 871869.

211519 & 211524.

DEC Investigator Remarks:

211519 and 211524. see eDocs for both ConEd reports.
10/15/08 − Austin − Closure report submitted − spill closed as part of routine QA/QC check of spills submitted for closure − both manholes cleaned on different dates − end

Map Identification Number 194 **GETTY #339 − GETTY PROPERTIES** **Spill Number: 9601093** **Close Date: 06/05/2014**
4880 BROADWAY NEW YORK, NY TT−Id: 520A−0094−269

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1962 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	LOUIS OCHOTORENA − GETTY	Spiller Phone:	(718) 729−6500
Notifier Type:	Other	Notifier Name:	BRIAN COSTELLO	Notifier Phone:	
Caller Name:	BRIAN COSTELLO	Caller Agency:	TYREE ENVIORMENTAL	Caller Phone:	(516) 249−3150
DEC Investigator:	KGHALE	Contact for more spill info:	LOUIS OCHOTORENA	Contact Person Phone:	(718) 729−6500

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/22/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

contaminated soil found during tank removal

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
3/13/03 REASSIGNED FROM ROMMEL TO VOUGHT.

08/31/2005 − Feng − Project transferred from Vought to Feng.

10/21/2005 − Feng − high gw contamination found on 4/24/2002 as 18,255ppb BTEX in W−1. Tyree proposed BioRemediation on 9/24/2002. No remedial activities on site, keeping monitoring.

10/21/2005 − Feng − Quarterly Monitoring Report, by Tyree, 2/2005 − 4/2005. 3 monitoring wells on site. W−1 which near the existing tank field (3 X 4K) has found 2,782ppb BTEX. Historical data shows that the concentration of BTEX in W−1 was initial decreased, and then fluctuating on the curve and remains, no trend of decreasing.

11/2/2005 − Feng − Quarterly Monitoring Report, by Tyree, 8/2005 − 10/2005. 3 monitoring wells on site. W−1 which near the existing tank field (3 X 4K) has found 1,505ppb BTEX. Historical data shows that the concentration of BTEX in W−1 was initial decreased, and then fluctuating on the curve and remains, no trend of decreasing.

2/27/2006 − Feng − Quarterly Monitoring Report, 11/2005 − 1/2006. the site is an active Getty gasoline retail station. Groundwater flows to east at the depth of 18.81’ and 26.46’ bg. 3 moniotoring wells onsite. W−1, decreased and 825 ppb BTEX, 5 ppb MTBE. W−2, 22 ppb BTEX and MTBE MDL. W−3, 1 ppb BTEX, 4 ppb MTBE. (RJF)

8/1/2008 − Project reassigned to Feng.

9/4/2008 − Getty Properties portfolio meeting with Tyree and Delta. Need to locate the former tanks. DEC will review the petition closure report. (RJF)

1/6/2009 − Getty Properties portfolio meeting with Tyree and Delta. Extension for closure petition to 1/2009. (RJF)

3/18/2009 − Quarterly Monitoring Report, 5/2008 − 7/2008, 8/2008, by Tyree. Active Getty gasoline retail station. Groundwater

was gauged and sampled 7/17/2008. 3 monitoring wells. NO LNAPL. DTW 20.17' to 29.57' bg. Flows to east. BTEX range ND to 583 ppb (W−1). MTBE range ND to 43 ppb (W−1). (RJF)

5/1/2009 − Quarterly Monitoring Report, 8/2008 − 10/2008, 11/2008, by Tyree. Active Getty gasoline retail station. Groundwater was gauged and sampled 10/16/2008. 3 monitoring wells. NO LNApL. DTW 20.03' to 29.52' bg. Flows to east. BTEX range ND to 448 ppb (W−1). MTBE range ND to 37 ppb (W−1). (RJF)

11/6/2009 − 2Q2009, 4/2009−6/2009, 7/2009, pdf, by Tyree. Active Getty gasoline retail station. 3 monitoring wells. The wells were gauged on 4/23/2009, 5/27/2009, 6/29/2009 and 7/8/2009. Groundwater was sampled 7/8/2009. NO LNAPL. DTW 20.12' to 29.16' bg. Flows to east. BTEX range ND to 561 ppb (W−1). MTBE range ND to 27 ppb (W−1). (RJF)

12/4/2009 − Subsurface Investigation Report, dated 10/2006, resubmitted by Tyree. On September 25, 2006, 2 soil borings were advanced to the depth of 20 feet bgs using Direct push. Refusal was encountered with bedrock. No PID reading. 2 soil samples were taken. B−1 (16−20') and B−2 (16−20'), no exceedances. No groundwater was encountered during this investigation. (RJF)

1/28/2010 − Reviewed Request for NO Further Action, dated July 13, 2009, by Tyree. Comments were sent to Jennifer Kotch (Tyree). Reviewed also the Exposure Assessment Report. The concrete casing which used to encased the tanks were left in place as stated in the EA report and high endpoint samples were detected. DEC required a work plan to delineate the tank field area by 2/2010. (RJF)

2/1/2012 − Getty portfolio transferred to KGH.

4/25/2012 − KGH on−site to evaluate need/feasibility of additional delineation. The tanks and 500+ tons of contaminated soil were excavated years ago. Further excavation appears difficult/potentially dangerous. MW array not optimal but site is tiny and on hill bordered by retaining wall. MW−3 is located obviously down−hill and some sign of contamination should apear in it if there is any source of significance left behind.

3/14/2013 − KGH meets with Tyree/Getty to discuss remedial progress on various sites. KGH agrees to review files and consider closure of spill # 9601093.

6/5/2014 − Based on the continued lack of any detectable impact, The Department has determined that No Further Action is required and Spill # 9601093 has been closed. NFA − KGH

Map Identification Number 195 **MANHOLE #31136** **Spill Number: 9812981** **Close Date: 10/18/2002**
SEDGWYCK AVE/BAILEY AVE BRONX, NY TT−Id: 520A−0011−593

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1964 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: SEDGWICK AVE / BAILEY AVE
Revised zip code: 10468

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR COOK	Notifier Phone:	(212) 580−6763
Caller Name:	LISA PRIMEGGIA	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	LISA PRIMEGGIA	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/21/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

con ed #122606 oil sheen discovered while looking for leak on feeder m 52 sample to be taken

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 122−606:

On 1/21/99 Senior Elec. Tech. F. Henry(21147) and R. Coletti (49504) of Corrosion Survey "Central Gas Operations" were on a visual inspection of manholes for potential leaks on FDR M51/M52 an discovered 1 gallons of unknown oil on top of 4000 gallons of water inside mh 31136. The Techs placed oil absorbent rags inside the mh. They noted that the oil is contained and did not enter any sewers or waterways. No sample was taken.

CLEANUP CHECKLIST

X Used absorbents to remove residual fluids.

X Removed visible traces of oil.

Cleanup completed on Date: 1−22−99 Time* 09:30

On 1/22/99 TO crews applied absorbent pads to sheen in manhole. Sheen was picked up by absorbent pads and manhole was left clean at 09:30.

Map Identification Number 196 **M51 FEEDER LEAK INTO MH 29001** **Spill Number: 0706033** **Close Date: 08/30/2007**
SEDGWICK AVE & BAILEY AVENUE & KINGSBRIDGE ROAD. BRONX, NY TT−Id: 520A−0006−277

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1964 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: SEDGWICK AVE / BAILEY AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	gdbreen	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/28/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	15.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

No to the 5 questions. Spill in a manhole. Ref #207751.

DEC Investigator Remarks:

207751. See eDocs.

This spill is believed to be feeder leak. See 0706027 (emis 207748).

There is no xfmr in this manhole. Cable oil is coming in through the wall. Alarm is for feeder M51. Leak rate is low − about one gallon per hour.

This spill is being closed as a duplicate entry into the data base. The incident will be consolidated in one place, which is spill 0706027.

Map Identification Number 197 **215TH ST/HARLEM RIVER DR** **Spill Number: 9202341** **Close Date: 05/27/1992**
215TH ST/HARLEM RIVER DR NYC, NY TT−Id: 520A−0094−299

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1971 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:	KEN KRADKIN	Caller Agency:	NYCDEP	Caller Phone:	(718) 595−4651
DEC Investigator:	SIGONA	Contact for more spill info:		Contact Person Phone:	

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/27/1992	05/27/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SURFACE WATER

Caller Remarks:

DEP ON SCENE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 198 **SVC BOX 24309** **Spill Number: 0513297** **Close Date: 05/01/2006**
619 ACADEMY AVENUE MANHATTAN, NY TT−Id: 520A−0098−356

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1982 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 619 ACADEMY ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Other	Notifier Name:	TIMOTHY PARKER	Notifier Phone:	(212) 580−8383
Caller Name:	TIMOTHY PARKER	Caller Agency:	CON ED	Caller Phone:	(212) 580−8383
DEC Investigator:	GDBREEN	Contact for more spill info:	ERT DESK‘	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/17/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1/2 gallon. Not cleaned up. Car is over service box. Con−Ed # 162991

DEC Investigator Remarks:

162991. 2−17−06 09:00. L. Brown #86829 of Maint Serv reports to me at 08:50 hrs that while preparing to perform maintenance in S/B 24309 located at 619 Academy Ave he found approx 1/2 gallon of unknown oil and approx 3 gallons of water in the structure. He was working under account # 42228 at the time. Ther was no sewer or waterways affected and no weather conditions affected the hazard of the spill. No fire or smoke was involved and no injuries were reported. The source and cause of the spill are unknown at this time and no private property was affected. Substance ownership is not verified .
Environmental tag # 49838 has been installed and oil samples have been taken by Mr. Brown. He took 3 samples (PCB,ID and FLASH POINT) . Chain of custody form #EE12404 was used for samples.
There is no oil filled equipment in the structure . standing water has no visual movement. There is no sewer connection and a concrete sump . Mr Brown reports no substantial cracks.
No Parking 8A−9:30A TUES& FRI. logged by : G Anelli 14059

Lab Sequence Number: 06−01809−001 Oil Identification
Analysis indicates the presence of a substance similar to a lubricating oil.
Logged by D. Gaynair 20079

2/18 @ 0130. Lab Sequence Number: 06−01808−001 < 1.0 ppm Logger R Pagano # 48703

2−18−06 06:50. Incident type changed due to parking access , not available till Tuesday or Friday. C.I.G. notified at 06:55 hrs T Parker #87739. Logged By: G Anelli #14059

Update 5/1/06
Spill closed based on report in eDocs. (SKA)

Map Identification Number 199 **MANHATTAN WEST 12 DOS −DDC** **Spill Number: 9604262** **Close Date: 08/06/2013**
301 WEST 215TH STREET MANHATTAN, NY TT−Id: 520A−0096−931

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	WILLIAM FENNELL − DEPT OF SANITATION	Spiller Phone:	(718) 937−3286
Notifier Type:	Other	Notifier Name:	JIM KING	Notifier Phone:	(718) 937−3286
Caller Name:	WILLIAM FENNELL	Caller Agency:	CONSTRUCTION MGR	Caller Phone:	(718) 937−3286
DEC Investigator:	ADZHITOM	Contact for more spill info:	WILLIAM FENNELL	Contact Person Phone:	(718) 937−3286

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/28/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

upon drilling for wells soil contamination was discovered

still under investigation at this time

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"
Also, refer to spill # 9604408. −II (12/14/04).

Site was first investigated by Lehrer McGovern Bovis and Raritan Enviro Sciences; they installed a limited product recovery system, with recovered & treated groundwater (from depression pump) going to percolation trench. Site was transferred to LiRo, and they removed the old system and installed a more extensive multi−phase extraction system, which is currently operating to

address soil and groundwater contamination and recover small amounts of free product.

This site transferred from Kolleeny to A. Zhitomirsky on 4/15/05. − JK

6−20−2005 Reviewed a Monitoring Report for January−March 2005. The report presented remedial system performance and groundwater monitoring data. The report stated that based on the site monitoring data, the MPE system is effectively treating contamination. In the report LiRo proposed to shut down Header No.2 and only operating the system on Header No.1. This will allow the system to operate on the remaining area of contamination. The Department concured with this proposal. AZ

7−18−2005 Reviewed a Monitoring Report for April−June 2005. The report presented remedial system performance and groundwater monitoring data. The report stated that based on the site monitoring data, the MPE system is effectively treating contamination. In the report LiRo recommends installing ORC socks in wells MW−8 and MW−10 to treat MTBE in groundwater. The Department concured with this proposal. AZ

12−27−2005. Reviewed a Monitoring Report for July − September 2005. The report presented remedial system performance and groundwater monitoring data. The report stated that based on the site monitoring data, the MPE system is effectively treating contamination. In the report LiRo recommended installing ORC socks in wells MW−9 and MW−13 to treat groundwater contamination. The Department concurred with this proposal. Also, the Department concurred with LiRo proposals to shut down extraction wells EW−5, EW−6, EW−9 and EW−10. Remaining extraction wells should continue to remediate remaining groundwater contamination. Proposed confirmation soil borings were approved. AZ

4−5−2006 Reviewed a Monitoring Report for October − December 2005. The report presented remedial system performance and groundwater monitoring data. The report stated that based on the site monitoring data, the MPE system is effectively treating contamination. Gw and soil contamination exists in the area of MW−8, MW−10, and MW−13. LiRo recommended turning on wells EW−11,EW−12, EW−18 and EW−19. AZ

5−11−2006 Reviewed a Monitoring Report for January − March 2006 received on April 13, 2006. The report presented remedial system performance and groundwater monitoring data. The system was shut down for 14 days in March 2006 due to sensor replacement. As of March 2006 LiRo is no longer the consultant fr the site. Gw and soil contamination exists in the area of MW−8, MW−10, and MW−13. AZ

11−13−2006 Reviewed a Monitoring Report for April − July 2006 received on August 23, 2006. The report presented remedial system performance and groundwater monitoring data. MW−03 is apparently short circuited by EW−08. Wells MW−05, MW−10 and MW−14 were not accessible for sampling. A confirmation soil plan will be prepared by URS. AZ

1−2−2006 Reviewed a Confirmation Soil Plan dated September 26, 2006, and a Monitoring report for August through October 2006 dated November 14, 2006. Low vacuum in MW− 3, MW−7, MW−14. URS recommended advancement of three new borings in contaminated areas. AZ

1−3−2006 Could not locate borings which encountered contaminated soil in previous investigations on the site plan. GW Samples were not collected from MW−10, MW−12, MW−09 since they were unaccessible due to the parked vehicles. I informed Jane Staten that all wells should be sampled in order to apply for NFA. Contacted Jane Staten (URS) via e−mail and phone and requested clarification of the boring locations. AZ

3−20−2007 Contacted Jane Staten (URS). URS provided clarifications following DEC request for existing borings locations. 3 confirmation borings will be advanced. The dual phase system is down due to the liquid ring pump failure since February 17, 2007. System repairs will be postponed until the full round of gw and soil sampling is performed. AZ

3−21−2007 Reviewed monitoring report for November 2006 − January 2007. On December 6, 2006 the MPE system was off due to the blockage in the seal water piping. The system was repaired.M W−02 was destroyed. No gw compounds exceeded DEC Quality Criteria. Soil sampling will be performed. I requested that downgradient wells are sampled. AZ

11−20−2007 Reviewed report dated Aug.7, 2007. A spike in MTBE level in MW−12 (2,100 ppb). The soil analytical results showed sliight exceedances but PID readings were high and petro odor noticed. URS proposed additional soil borings UBR−04,UBR−05 and UBR−06 near UBR−01,UBR−02 and UBR−03. No groundwater map with the plume was submitted. Spoke with Jane Staten and sent the following e−mail: "As per our discussion of the above site, proposed soil borings are approved. The report submitted on August 13, 2007, did not contain groundwater map with the contaminant plume. Whenever groundwater sampling is performed, groundwater plume map with the latest sampling results should be compiled. I concur with your proposals to sample all existing groundwater wells. Special attention should be given to sampling the downgradient wells." AZ

4−29−2008 Reviewed Contamination Soil Sampling Results/Recommended strategy report dated February 5, 2008. MTBE contamination ranged from 24 ppb to 1,100 ppb in two wells. There is a slight rise in MTBE concentrations in MW−12 over the last three sampling events. Recent soil sampling showed a significantly elevated concentration of total xylenes in UBR−04 (8’ TO 10’ bgs) − 44, 000. MPE system is off−line. The Harlem River is situated approximately 200’ from the site. Discussed the site with Jane Staten (URS). I proposed to install ORC socks in MW−12 and leave MPE system in−place. Jane Staten proposed quarterly monitoring of the select wells. An e−mail with these conclusions was sent to URS/DDC/VB. AZ

12−24−2008 Reviewed Groundwater monitoring data through 2nd quarter 2008 dated August 8, 2008.ORC sock was installed in MW−12 in June 2008. Monitoring was performed on July 14, 2008. Well MW−12 exhibited MTBE at a concentration of 340 ppb. No other VOCs were detected in MW−12. The improved groundwater quality in MW−12 may be attributed to the ORC socks. AZ

1−8−2009 Reviewed Groundwater monitoring data through 3rd quarter 2008 dated November 14, 2008. It appears that the ORC sock placed in MW−12 should be replaced, however MW−12 box needs repair, the sock will be installed after the repairs are made. The work was planned for December 2008. In October 2008 all wells were sampled.. MTBE was the only contaminant detected. Concentrations ranged from 23 ppb to 720 ppb. Concentration of MTBE has increased from 340 ppb to 720 ppb in MW−12. AZ

5−14−2009 Reviewed groundwater monitoring data through 1st quarter 2009 dated February 16, 2008. In January 2009 all wells were sampled. MW−08 and MW−12 exhibited MTBE at concentrations of 260 ppb and 42 ppb respectively. MW−12 also exhibited benzene slightly above criteria. Well MW−08 exhibited an unexpected increase in MTBE concentrations. AZ

9−21−09 Reviewed groundwater monitoring data through 2nd quarter 2009 dated May 27, 2009. In April 2009 all wells were sampled. MW−08, MW−10 and MW−13 exhibited MTBE at concentrations ranging from 25 ppb to 260 ppb. DEC requested installation of ORC socks which were consequently installed. The ORC socks in MW−12 are improving groundwater quality MTBE concentrations in this well continues to decrease. Well MW−9 was destroyed. AZ

1−26−10 Reviewed groundwater monitoring data through 3rd quarter 2009 dated August 25, 2009. In July 2009 all wells were sampled. MW−08, MW−10,MW−‘12 and MW−13 exhibited MTBE at concentrations ranging from 12 ppb to 310 ppb. DEC requested installation of ORC socks which were consequently installed. URS will replace ORC sock in well MW−12 to reduce MTBE concentrations. Well MW−9 was

destroyed. AZ

2−16−2010 Reviewed groundwater monitoring data through 4th quarter 2009 dated October 28, 2009. Wells exhibited MTBE at concentrations ranging from 11 ppb to 85 ppb. Well MW−9 was destroyed. AZ

4−21−2010 Reviewed groundwater monitoring data through 1ST quarter 20010 dated February 17, 2010. Well MW−08 exhibited MTBE at concentrations of 100 ppb and MW−12 exhibited MTBE at concentrations of 260 ppb. ORC sock was placed in well MW−12 and may have contributed to the decrease of MTBE concentrations. Analytical data for well MW−08 sine October 2007 shows fluctuating MTBE concentrations and there is no decreasing contamination trend in this well. AZ

4−23−2010 An e−mail was sent to J. Staten (URS):"I have reviewed groundwater monitoring data through 1st quarter 2010 for the above site. Well MW−08 exhibited MTBE at concentrations of 100 ppb and well MW−12 exhibited MTBE at concentrations of 260 ppb. ORC sock was placed in well MW−12 and may have contributed to the decrease of MTBE concentrations. Analytical data for well MW−08 sine October 2007 shows fluctuating MTBE concentrations and there is no decreasing contamination trend in this well. URS proposed spill closure for this site. Spill closure can not be granted at this time. However, monitoring reports could be submitted semi−annually. ORC sock should be placed in MW−8, if this has not been done before." AZ

2−17−2011 An e−mail was sent to K.Shenahan/Asbagh/V. brevdo:"I have reviewed semi−annual monitoring report for the above site dated October 13, 2010. Monitoring well MW−06 can be removed from the scheduled sampling." AZ

2−18−2011 Discussed this site with URS at the quarterly meeting. URS informed DEC that MW−06 had a reading of about 300 pbb in January. DEC requested continuing monitoring of MW−06. An e−mail was sent to URS on 2−18−2011. AZ

7−8−2011 Reviewed gw monitoring report through February 2011 and dated May 19, 2011. An email was sent to URS/DDC/V. Brevdo:
"Dear Kevin,
I have reviewed a quarterly monitoring report through February 2011 and dated May 19, 2011, for the above site. The report states that there are some discrepancies in the tank inventory between URS's records and PBS records. This discrepancy should be clarified. A site visit should be conducted to confirm the tanks status. If necessary, GPR studies should be performed to verify if the tanks in question are removed or closed in place.
After discrepancies are clarified, a corrected PBS form should be submitted to NYSDEC PBS Section. Contamination was unexpectedly found in a monitoring well MW−6. As per URS recommendation, if re−sampling confirms contamination, an investigation should be performed to determine the extent of the problem." AZ

8−6−2012 The spill was discussed at the DEC/DDC/URS meeting on August 2, 2012. Groundwater monitoring report for the fourth quarter 2011 and first quarter 2012, dated May 17,2012 was discussed. The report stated that all available wells were sampled. However, wells EW−08 AND EW−20 were blocked, EW−09 was destroyed, EW−02 and EW−11 had obstructions in the well. It was decided that URS will attempt to sample blocked wells. Regarding the wells which were destroyed and/or had obstructions, historical data will be submitted to DEC. Groundwater results in nine wells exceeded VOC criteria. Also, after removal of ORC socks, concentrations in three wells rebounded: MW−12 (from 30 ppb to 300 ppb),EW−11 (from 0 ppb to 171 ppb) and EW−13 (from 0 ppb to 200 ppb). URS will continue monitoring this site. I have discussed the site with K. Shenahan over the phone. AZ

8−7−2012 E−mail received from K. Shenahan:"Alex,
We are sampling the extraction wells − they are designated as EW wells. Only two EW wells are not functioning.

EW−02 could not be sampled due to an obstruction. It is relatively close to the boundary of dissolved−phase contamination, located between wells MW−13 and MW−14, and about 15 feet or so from each. Analytical data from MW−13 and MW−14 over the past 5 years shows low contamination.

EW−09 is reported as being destroyed. It is upgradient from the plume, and total VOCs in nearby wells have been 2 ppb or Not Detected over the past 5 years.

I recommend that we sample the wells listed and if the levels are such that we could petition for closure we could see if it is necessary to acquire data from these locations."AZ

6−7−2012 An e−mail received from URS:
"From: McDaid, Daniel
Sent: Tuesday, August 07, 2012 4:19 PM
To: Shanahan, Kevin
Subject: RE: Man W12 sampling

Wells within the boundary of dissolved−phase contamination:

· MW−06

· MW−08

· MW−10

· MW−12

· EW−01

· EW−11

· EW−12

· EW−15

· EW−18

The following wells were not sampled (green font indicates that the sample collection could be re−attempted):

· EW−02 − Obstruction

· EW−08 − Vehicle parked over well

· EW−09 − Destroyed

· EW−16 − Not enough water

· EW−20 − Vehicle parked over well

In summary, here is a full list of wells to be sampled during the upcoming site visit:

· MW−06

· MW−08

· MW−10

· MW−12

· EW−01

· EW−08 − Vehicle parked over well

· EW−11

· EW−12

· EW−15

· EW−16 − Not enough water

· EW−18

· EW−20 − Vehicle parked over well

Notes

EW−02 could not be sampled due to obstruction. It is relatively close to the boundary of dissolved−phase contamination, located between wells MW−13 and MW−14, and about 15 feet or so from each. Analytical data from MW−13 and MW−14 over the past 5 years shows minimal contamination (See attached).

EW−09 is reported as being destroyed. It is upgradient from the plume, and total VOCs in nearby wells (See attached) have been 2ppb or ND over the past 5 years.

URS has never sampled any of the extraction wells before, and there is no historical data for these wells in the ISRP." AZ

11−19−2012 Discussed the site with K. Shenahan. There is persistant MTBE contamination probably related to soil MTBE contamination. A soil map attached to the report is not legible. URS will submit another map. AZ

11−20−2012 Email from K.Shanahan:"Alex,

Yesterday you called me to discuss the above referenced site and specifically URS' report dated September 21, 2012 . You indicated that Figure 3 in Attachment B was not legible enough to discern the boring locations. I have sent you a hard copy in a separate letter. In the meantime, the pdf version is attached." AZ

11−21−2012 An e−mail was sent to K. SHenahan and V. Brevdo
"Dear Kevin,

We have discussed this site yesterday and today. The groundwater at the site still has MTBE contamination which exceeds the standards by an order of magnitude. A reason for this contamination could be that soil at the site was grossly contaminated with MTBE. In order to trace groundwater contamination we need to prepare detailed soil maps showing original soil contaminant levels and the latest confirmation soil borings results.

It was agreed that URS will submit these maps to DEC.

Sincerely,

Alexander Zhitomirsky"

5−13−2013 On April 3 and 4, 2012, URS sampled monitoring wells. The data showed that the groundwater in the northeastern corner of the sanitation garage continued to be impacted with low concentrations of volatile organic compounds (VOCs) including MTBE. The highest total VOC concentration detected was in MW−12 with 300 ppb (MTBE was the only compound detected).

I have reviewed a Historical Soil Sampling Analytical Results report dated February 1, 2012. The report stated that free phase at the site was treated by a passive product recovery system which was converted to operate as an active groundwater and product recovery system. Also, product recovery was performed using a vac truck. A multi−phase extraction system was constructed at the site in 2003 and was shut down due to equipment failure in 2007. The site still has lingering groundwater impacts detected in the northeastern corner near the dispensers. Given the most current soil and groundwater data for the site, URS recommended natural attenuation of remaining soil and groundwater contamination. URS recommended no further action for this site. The report stated that soil sampling completed after MPE system was terminated. In 2007 soil samples were collected. PID screening had elevated measurements indicating petroleum constituents. Moderately elevated VOC exceedances were present in the sample collected from UBR−04. AZ

8−5−2013 Reviewed Groundwater Monitoring Report and Request for Spill Closure dated May 10, 2013. A total of 1,018 gallons of product were reported as being collected by RES through 1999. LiRo reported collecting an additional 88 gallons of free product.. No free product has been observed at the site since September 2003. The most recent soil sampling was conducted in 2007/2008. The soil data indicated that a limited area of contamination remained in the area of MW−08, MW−12, and MW−13 near the former dispenser area. The highest total VOC concentration was about 46,000 ppb. groundwater sampling from from January 2013 ranged from 52 PPB TO 224 PPB in those wells with exceedances of the the NYSDEC criteria. In the latest sampling event in April 2013, the highest total VOC concentration observed was 175 ppb.

Based on the above information,URS requested that DEC close spill number 9604262. This request is approved and the spill number is closed.

However, there are some discrepancies between the PBS registration and URS' current understanding of the tanks status. A number of tanks are listed in the PBS database as aboveground tanks (ASTs) tanks were closed in place. It is assumed that most if not all of these ASTs were removed from the site.Additionally, PBS lists tanks Nos. 008 and 009 as closed in place, although URS believes that these tanks have been removed. URS should perform a site inspection and very the tanks status. An updated PBS information should filed. URS inform NYSDEC when the above information is filed. AZ

8−6−2013 The following e−mail was sent to Kevin Shenahan, M. Asbagh and Vadim Brevdo:

Dear Kevin,

I have reviewed Groundwater Monitoring Report and Request for Spill Closure dated May 10, 2013. A total of 1,018 gallons of product were reported as being collected by RES through 1999. LiRo reported collecting an additional 88 gallons of free product. No free product has been observed at the site since September 2003. The most recent soil sampling was conducted in 2007/2008. The soil data indicated that a limited area of contamination remained in the area of MW−08, MW−12, and MW−13 near the former dispenser area. The highest total VOC concentration was about 46,000 ppb. Groundwater sampling results from January 2013 sampling event, ranged from 52 ppb to 224 ppb, in those wells with exceedances of the NYSDEC criteria. In the latest sampling event in April 2013, the highest total VOC concentration observed was 175 ppb.

Based on the above information,URS requested that DEC close spill number 9604262. This request is approved and the spill number is closed.

However, there are some discrepancies between the PBS registration and URS' current understanding of the tanks status. A number of tanks are listed in the PBS database as aboveground tanks (ASTs) tanks closed in place. It is assumed by URS that most, if not all of these ASTs, were removed from the site.Additionally, PBS lists tanks Nos. 008 and 009 as closed in place, although URS believes that these tanks have been removed. URS should perform a site inspection and verify the status of the tanks. An updated PBS information should filed with the PBS Section of NYSDEC. URS should inform NYSDEC when the above information is filed.

Based on the documentation provided to date, the New York State Department of Environmental Conservation (the Department) has closed the spill case number 9604262. All wells associated with this project should be closed according to the Department's Groundwater Monitoring Well Decommissioning Procedures. All wells should gaged for the presence of free product before closure.

The Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary due to:

I. The off−site migration of petroleum contaminants that was unknown at the time of this closure.

II. Environmental conditions related to this spill case which were unknown to the Department at the time of this closure.

III. Information received, in whole or part, after the Department's spill case closure, which indicates the corrective action was not sufficiently protective of human health and/or the environment.

IV. Fraud in obtaining this spill case closure determination.

As a precaution, we must bring your attention to our concerns for the future use of this site. If subsurface contamination is encountered while excavating for any construction activity, appropriate remedial and vapor mitigation efforts must be taken to fully prevent vapor intrusion into any site development and to ensure human health and safety. This spill closure does not exempt the Responsible Parties from compliance with any applicable laws and regulations.

Please be advised that you should maintain a permanent file of all documentation and correspondence regarding this case for future use as the Department's files may not be maintained indefinitely.

Sincerely,

Alexander Zhitomirsky

Map Identification Number 200 **215TH STREET** **Spill Number: 9307674** **Close Date: 06/02/2004**
215TH STREET HARLEM RIVER − MANHATTAN, NY TT−Id: 520A−0096−936

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: 301 W 215TH ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Federal Government	Notifier Name:		Notifier Phone:	
Caller Name:	JOSEPHINE BROWN	Caller Agency:	NYC TRANSIT AUTH.	Caller Phone:	(718) 330−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/09/1993		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	POUNDS	0	POUNDS	SURFACE WATER

Caller Remarks:

OIL TYPE PRODUCT COMING OUT SEWER. DEP / EPA ON SITE, PERFORMED DYE TEST. INCLUSIVE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
10/10/95: This is additional information about material spilled from the translation of the old spill file: OIL LIKE FLUID.

10/3/03 − AUSTIN − TRANSFERED TO TIBBE FROM HALE − END

NYCT has no further information on this spill.

Map Identification Number 201 **W 215TH ST & HARLEM RIVER** **Spill Number: 9200093** **Close Date: 06/01/1992**
W 215TH ST / HARLEM RIVER NYC, NY TT−Id: 520A−0096−935

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: 301 W 215TH ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	DEC	Notifier Name:		Notifier Phone:	
Caller Name:	ED STULL	Caller Agency:	NYSDEC	Caller Phone:	(718) 482−4885
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/03/1992	06/01/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	100.00	GALLONS	−100.00	GALLONS	SURFACE WATER

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"

Map Identification Number 202 **NYC DOS** **Spill Number: 0802073** **Close Date: 03/09/2010**
301 WEST 215TH ST. NEW YORK, NY TT−Id: 520A−0214−871

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: JAY SHAW − NYC DOS Spiller Phone:
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: adzhitom Contact for more spill info: JAY SHAW Contact Person Phone: (718) 334−9138

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/22/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Motor oil line failed. Material is leaking into the piping sump. No impact to the environment. The line will be taken out of service and repaired. Unknown who is doing the repair work.

DEC Investigator Remarks:

Double walled tank, line, sump and they found oil in the sump. When F&N opened up the "boot" they found the whole secondary containment was filled with oil. DOS foreman said that the tank & system was taken out of service for repairs.

8−6−2008 An e−mail was sent to DDC/URS/V. Brevdo: "There is a new spill caused by a hydraulic oil tank. The spill records state that oil was found in the sump. F&N found that the whole secondary containment was filled with oil. DOS foreman said that the tank & system was taken out of service for repairs. The tank area should be investigated. Please submit an investigation plan to DEC." AZ

8/21/2008 There was a duplicate spill number for this tank test failure.
Spill # 0802569 was closed out and referred to this case.

8−21−2008 Received a NYC DOS report stating that the motor oil tank #2 (2,000 gallon UST) failed an air tightness test. Follow up testing by Fenley & Nicol showed that there is a leak in the piping (suction line). NYC DOS suspended use of this tank. I sent an e−mail to DDC/URS/V. Brevdo requesting investigation of the spill. AZ

3−9−2010 Reviewed URS report dated August 20, 2009. The report stated that the cause of this spill was a failed tightness test of the suction line associated with 2,000−gallon motor oil UST. In May 2009 Franklin Company Contractors initiated work by tightness testing the suction line. The primary, inner line was tested at 30 psi and the secondary, outer pipe was tested at 5 psi for 30 minutes. During the test, Franklin observed that pressure in the primary pipe dropped while pressure in the secondary pipe increased. These results indicated that there was a break in the primary line but that the secondary pipe was tight. Any release from the primary pipe was contained by the secondary pipe and returned to the tank sump. Franklin excavated and removed the entire length of the old suction line. Franklin found no break in the secondary line and no evidence of soil contamination. Franklin installed and tightness tested a new double−walled suction line. Based on the above information, URS requested closure of this spill number. The request is granted. The e−mail confirming spill closure was sent to J. Staten, Ms. Asbagh (NYC DDDC) and V. Brevdo. AZ

Map Identification Number 203 **MANHATTAN WEST 12 DOS −DDC** **Spill Number: 0504296** **Close Date: 07/08/2008**
301 WEST 215TH STREET MANHATTAN, NY TT−Id: 520A−0096−929

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	TONY CAGGIANO − DOSM12	Spiller Phone:	(516) 938−5476
Notifier Type:	Local Agency	Notifier Name:	JOHN SAIA	Notifier Phone:	(718) 442−8200
Caller Name:	JOHN SAIA	Caller Agency:	GEMSTAR CONSTRUCTION	Caller Phone:	(718) 442−8200
DEC Investigator:	ADZHITOM	Contact for more spill info:	TONY CAGGIANO	Contact Person Phone:	(516) 938−5476

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/11/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
BENZENE	HAZARDOUS MATERIAL	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FLORENE , TRIMETHELBEZINE. WAS FOUND ON THE N POINT SAMPLES TAKN AFTER TANK REMOVAL. THREE TANKS REMOVED.

DEC Investigator Remarks:

7−13−2005 This site is remediated under NYCDDC CO. Monitoring borings were completed in April 2005 and the results showed compliance with TAGM 4046. Contacted Steve Frank (LiRo). Requested to map exact location of the excavated tanks, excavate all contaminated soil, install new soil borings/wells if this area is not covered by the previous investigation. AZ

7−18−2005 Requested original laboratory data and tank closure report. AZ

3−23−2006 Contacted Steve Frank (LiRo) and requested an update for the site. AZ

3−21−2007 Reviewed monitoring report for November 2006 − January 2007. On December 6, 2006 the MPE system was off due to the blockage in the seal water piping. The system was repaired.M W−02 was destroyed. No gw compounds exceeded DEC Quality Criteria. Soil sampling will be performed. I requested that downgradient wells are sampled. AZ

4−30−2008 An e−mail requesting identification, investigation and remediation of the tanks associated with the spill was sent to Jane Staten (URS)/VB. Conversation w/Jane Staten. I confirmed that DEC requested information about this tank closure but never received it. URS has to map the tanks and sow locations of sampling points and their results in the USTs area. J. Staten will look into it. AZ

7−8−2008 I have reviewed a report for the above spill number dated June 2, 2008. URS stated in their report that in June 2005, The Franklin Company (Franklin) excavated three of five USTs contained in a vault located at the Manhattan 12 site. The USTs were identified as ##7, #10 and #11. The remaining two USTs located in the same tank vault, identified as #8, and #9, were previously

closed in place (filled with concrete) in September 1996. Following removal of tanks #7, #10, and #11, Franklin collected five post−excavation samples. The analytical data showed that no compounds exceeded the NYSDEC TAGM #4046. Additional soil samples were collected in the vicinity of the tank vault. In July 2004 and April 2005, Liro collected confirmation soil samples to evaluate the effectiveness of the multiple−phase extraction system that began operating in March 2003. The analytical data showed that no compounds exceeded the NYSDEC TAGM #4046 recommended soil cleanup criteria. Collectively, the analytical data showed that soil in the vicinity of the tank vault had been remediated. Based on the submitted information, spill #0504296 is closed. An e−mail was sent to Jane Staten/DDC/V. Brevdo. AZ

Map Identification Number 204 **PVT DWELLING/APT. COMPLEX** **Spill Number: 1113089** **Close Date: 02/21/2012**
30 PARK TERRACE EAST MANHATTAN, NY TT−Id: 520A−0271−494

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2063 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	SMSANGES	Contact for more spill info:	RICH CLIFFORD	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/16/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	10.00	GALLONS	0.00	GALLONS	

Caller Remarks:

spill to paved area/clean up crew en route

DEC Investigator Remarks:

minor spill − cleanup completed by Castle.

Map Identification Number 205 **BRONX WEST 08 DOS −DDC** **Spill Number: 9705745** **Close Date: 01/22/2014**
423 WEST 215TH STREET BRONX, NY TT−Id: 520A−0094−302

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2071 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	NYC DEPT OF SANITATION	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	NEIL GALLAGHER	Notifier Phone:	(718) 334−9144
Caller Name:	FRANK VALENTINO	Caller Agency:	NYC DEPT OF SANITATION	Caller Phone:	(212) 442−9082
DEC Investigator:	ADZHITOM	Contact for more spill info:	NEIL GALLAGHER	Contact Person Phone:	(718) 334−9144

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/12/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

TANK FOUND NOT TO BE HOLDING PRESSURE − TANK IS UNDERGROUND

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"
WATER WAS FOUND IN FUEL OIL, FILL BOX WAS BROKEN, SO TANK WAS PRESSURE TESTED AND FAILED. TANK THEN FAILED PRECISION TEST, LEAK FOUND IN TOP OF TANK. TANK WILL BE EMPTIED AND CLOSED IN PLACE, FILLED WITH SAND.

03/04/2005: Tank referred to is most likely one of three closed heating oil tanks (a 10,000−gallon tank, and two 550's) located to the east of the Bronx 7/8 building at 423 West 215th St. Closure date is unknown, also unknown if any closure assessment was performed. During site investigation in 1997, LMB/RES advanced a soil boring about 15−20 feet SSE of these tanks, and had minor hits of VOCs.

To obtain closure of this spill, borings should be advanced much closer to the tanks, site conditions permitting. − J. Kolleeny

This spill transferred from Kolleeny to A. Zhitomirsky on 4/13/05. − JK

6/30/2005 Reviewed Quaterly Report received on 3/30/2005 from JK. The SVE and pump and treat systems are effectively collecting and treating site contaminants. SVE−4 has to be checked. Skimmers at LMW−3,4, and 10 have to be checked. AZ

2/8/2006 Reviewed Quarterly Report received in September 2005. Product is present in LMW−3. Latest results showed persisting higher level contamination at wells LMW−9 and LMW−11.The primary VOC at LMW−11 is MTBE. The pump and treat system and SVE system operated normally. AZ

5/8/2006 Received final monitoring report for the period February − March 2006 from LiRo dated April 28, 2006. LiRo is no longer responsible for this site. The system was down for 26 days due to fire in February 2006. The system is actively recovering VOCs. AZ

7/6/2005 Reviewed Quaterly Report received on 5/24/2005 and approved proposed soil boring locations for the first round of soil sampling. AZ

10/07/2005 The site has free product plume. AZ

1/2/2007 Reviewed Quarterly Report received in September 2006. At the end of March 2006, the oversight of the site was transferred from LiRo to URS. No reports were submitted between April 2006 and September 2006. In October 2005. LiRo advanced four soil borings Each sample collected directly above the water table exceeded NYSDEC TAGM #4046. On June 20, 2006, URS collected groundwater samples. GW samples were not collected from monitoring wells LMW−05 through LMW−07 and LMW−12 through LMW−14 because contaminant concentrations have been below DEC GW Quality Criteria for twO consecutive sampling rounds. In addition, gw samples were not collected from LMW−02 and LMW−04 due to the presence of free product. LMW−17 was inaccessible. Total VOC concentrations ranged from 30 ppb to 422 ppb in LMW−09. The average vacuum measurements at monitoring and ventilation wells ranged from 0.02 to 2.73 inches of water column. Based on the latest analytical results, free product and dissolved phase groundwater contamination are still present. URS recommended continuation of the SVE and gw extraction systems operation.

1/5/2006 The September 2006 report did not provide any monitoring information for pumping wells − pump and treat system. Groundwater pumping rates should be indicated in gpm for each well. Without individual pumping rates is difficult to judge the system performance. I called Jane Staten (URS) and requested changes in system monitoring and reporting. AZ

6−16−2008 The following e−mail was sent to URS/DDC/V.Brevdo: "This spill was caused by a heating oil tank. Closure data is unknown, also unknown if any closure assessment was performed. The tank area should be investigated, borings should be advanced and the results of the investigation submitted to DEC." AZ

1−7−2008 An e−mail was sent to URS/V. Brevdo/DDC: "In June 2008 DEC requested investigation of this spill. However, we have not received any information regarding the spill. This spill was caused by a heating oil tank. Closure data is unknown, also unknown if any closure assessment was performed. The tank area should be investigated, borings should be advanced and the results of the investigation submitted to DEC." AZ

1−8−2008 E−mail from J. Staten: "As we discussed, this spill is mentioned in LiRo's 2002 ISRP so it is likely that the remedial strategy that was selected by LiRo, approved by the NYSDEC, and implemented by LiRo considered this spill. To confirm this, I will review historical documents and present my findings in a technical memo." AZ

1−8−2008 An e−mail was sent to URS/DDC/V.Brevdo: "Tank referred to is most likely one of three closed heating oil tanks (a

10,000−gallon tank, and two 550's) located to the east of the Bronx 7/8 building at 423 West 215th St. Closure date is unknown, also unknown if any closure assessment was performed. During site investigation in 1997, LMB/RES advanced a soil boring about 15−20 feet SSE of these tanks, and had minor hits of VOCs. As it was requested by DEC in 2005, in order to obtain closure of this spill, borings should be advanced much closer to the tanks, site conditions permitting." AZ

9−2−09 URS in their report dated April 24−09 stated that they continue to research spill #9705745. AZ

1−6−09 URS in their report dated July 22, 2009, stated that they sent e−mails to DSNY on February 5, March 4, and March 23, 2009 to DSNY. URS requested additional information on spill number 9705745.DSNY responded by submitting URS's request to DSNY tank group. AZ

4−5−2010 Reviewed a URS's report dated February 1, 2010. In November 2009 URS visited the site and found the likely former location of the heating oil tank that caused spill number 9705745. It's believed that this tank was located outside the Manhattan West 8 building along West 215th Street between 9th and 10 th Avenues. It has been replaced by an aboveground storage tank. URS is attempting to confirm this information with DSNY personnel. AZ

4−7−2011 Received a report for this site dated December 31, 2010. The report stated that URS is attempting to confirm the information regarding the heating oil tank with DSNY personnel. AZ

10−25−2011 At the meeting with DDC/URS, URS informed DEC that there is a discrepancy with a heating oil tank. Its' location has to be confirmed. AZ

8−2−2012 At the meeting with URS/DDC, URS stated that they need to investigate a heating oil tank related to this spill. They are not sure where the tank was located. AZ

3−18−2013 This spill was reported when water was found in the fuel oil and the tank failed a pressure test. A leak was found on the top of the tank and tank closed in place. This spill was likely related to one of the three closed in place USTs (a 10,000 gal and two 550−gallon) located east of the building.

The following e−mail was sent to URS/V. Brevdo/DDC:"Dear Kevin,

I have reviewed a Work Plan for this site dated January 28, 2013. The Work Plan is approved with the following correction: three borings should be finished as wells.

The Responsible Party and Contractors are responsible for the safe execution of the Work Plan.

Sincerely,
Alexander Zhitomirsky"

1−17−2014 Reviewed an Investigation Summary and Remedial Plan dated August 2013. The report stated that this spill was reported in 1997, when heating oil tank at Tank Area 3 failed a pressure test. The tank was taken out of service and closed in−place. Two 550−gallon heating oil tanks are also located at Tank Area 3.One soil boring was advanced and two monitoring wells were installed. Low indications of petroleum impacts were noted at boring MW−05 between 10' and 15'. No floating product was detected during drilling, well development and monitoring.There were no VOCs and no SVOCs detected in collected soil samples. No VOCs were

detected in groundwater samples. Although there were trace detections of a few SVOCs, there were no exceedances of NYSDEC criteria. According to the report, the results of this investigation indicate that there is no petroleum contamination present that would require remediation. Based on this information URS recommends that spill#9705745 be closed. I concur with this recommendation. AZ

1−22−2014 This spill is closed. The folloing e−mail was sent to Kevin Shenahan and V. Brevdo:

"Dear Kevin,

I have reviewed an Investigation Summary and Remedial Plan dated August 2013. The report stated that this spill was reported in 1997, when a heating oil tank at Tank Area 3 failed a pressure test. The tank was taken out of service and closed in−place. Two 550−gallon heating oil tanks are also located at Tank Area 3.

One soil boring was advanced and two monitoring wells were installed. Low indications of petroleum impacts were noted at boring MW−05 between 10’ and 15’. No floating product was detected during drilling, well development and monitoring.There were no VOCs and no SVOCs detected in the collected soil samples. No VOCs were detected in groundwater samples. Although there were trace detections of a few SVOCs, there were no exceedances of NYSDEC criteria. According to the report, the results of this investigation indicate that there is no petroleum contamination present that would require remediation.

URS recommends that spill#9705745 be closed. Based on the above information this spill is closed.

The Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary due to:

I. The off−site migration of petroleum contaminants that was unknown at the time of this closure.

II. Environmental conditions related to this spill case which were unknown to the Department at the time of

this closure.

III. Information received, in whole or part, after the Department’s spill case closure, which indicates that

corrective action was not sufficiently protective of human health and/or the environment.

IV. Fraud in obtaining this spill case closure determination.

As a precaution, we must bring your attention to our concerns for the future use of this site. If subsurface contamination is encountered while excavating for any construction activity, appropriate remedial and vapor mitigation efforts must be taken to fully prevent vapor intrusion into any site development and to ensure human health and safety. This spill closure does not exempt the Responsible Parties from compliance with any applicable laws and regulations.

Please be advised that you should maintain a permanent file of all documentation and correspondence regarding this case for future use as the Department's files may not be maintained indefinitely.

Sincerely,

Alexander Zhitomirsky

Map Identification Number 206 **AP MART** **Spill Number: 0604157** **Close Date: 08/14/2007**
610 ACADEMY STREET MANHATTAN, NY TT−Id: 520A−0098−353

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2123 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	JJ HALBERT − AP MART	Spiller Phone:	(201) 489−5100
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	HRPATEL	Contact for more spill info:	JJ HALBERT	Contact Person Phone:	(201) 489−5100

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/14/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

coming out of a broken fill pipe: and coming up concrete

DEC Investigator Remarks:

Sangesland spoke to "JJ" at Hess Oil. He says the Hess driver noticed approx 50 gallons of #6 oil coming up through the cement sidewalk in the alley next to this building. The oil is being delivered at a curb fill port. This would indicate that the underground fuel line between the curb fill and the tank has ruptured. As of 1:45 Hess did not know who would be cleaning the site up.
DEC Kumar Patel was sent to the site to investigate.

07/18/06−Hiralkumar Patel. visited site on 07/14/06. spoke with Malea Hector (212−304−1733), super of building. property has 5000 gal AST in contact with soil. supply line, return line and vent lines are totally aboveground. fill line runs underground for about 50 ft from fill port to tank room through alley at side of building. fill port is about 3 ft upgradient than tank room and oil start coming out from ground in this passage and ran over concrete towards courtyard between alley and tank room. noticed oil into active drain in courtyard. notified DEP. DEP case #: 1398802. as per super, tank is in use to store #4 oil. at time of visit, petroleum was working at scene. they put speedy dry where oil spilled. at end, petroleum has removed all speedy dry from open area as it was most affected area because that point is lowest point and left speedy dry in alley as oil was still coming out from ground. there are total 48 tenants living in building.

PBS #: 2−404381
spoke with George Huang, property manager. asked him to remove all contaminated soil and to test tank system.

George Huang
610 Management Corp.
369 East 62nd Street
New York, NY 10021
Ph. (212) 317−1423 Ext. 601
FAX (212) 217−1188

received call from Isaac from Eastmond. he will do further cleanup at site.

CSL sent out to Mr. Huang requiring tank test and endpoint samples. letter faxed to Mr. Huang and to Isaac at Eastmond.

08/15/06−Hiralkumar Patel. received call from Joe from Petroleum. they are doing excavation in alley way and court yard at end of alley. till now they have removed approx. 40 drums of contaminated soil and are 5 ft deep in excavation and haven’t reached clean spot. Joe will send updates as he gets.

09/08/06−Hiralkumar Patel. received message from Joe from Petroleum. spoke with Joe. asked Joe to come at site on Monday Sept. 11 at 10:00 AM. spoke with Mr. Huang and he will meet us at site on Monday.

09/11/06−Hiralkumar Patel. visited site. met Mr. Huang and Mark from Petroleum. found oil stains on side walls of excavation. stains on foundation wall also. Mr. Huang is planning to install new fill line with secondary containment. because of site restriction, no further excavation is possible. asked Mark to take soil sample every 10 ft along excavation pit. Mark suggest to do soil boring to find out depth of contamintation with hand held machine. and based on lab results, if contamination is only 1−2 ft more, than Mark will remove that by excavation and if contamination is deeper than they will submit remedial action plan. owner and consultant wants to keep excavation pit open till they get lab results for soil boring. asked owner and super to keep

excavation area secure to prevent any accident.

11/14/06−Hiralkumar Patel. spoke with Mark at Petroleum. he sent his crew for sampling earlier, but lab analysed all sample as one composite. they are at site again today for sampling as discussed earlier with Mark at site on 09/11/06. Mark has lab analyticals for sample taken at fill port and will fax it.
received lab analyticals for sample taken at fill port. no major contamination found. NO INFORMATION ABOUT DEPTH OF SAMPLE AT FILL PORT.

12/01/06−Hiralkumar Patel. received lab analyticals for seven soil samples from Mark. spoke with Mark. he took these samples at maximum depth of 12 ft. he just took these samples at 12 ft depth and he didn't screened soil in between. so really don't have any information about depth of remaining contamination. explained to Mark that the purpose of these sampling was to find out depth of remaining contamination through screening of soil via soil borings. so these samples are not acceptable. asked Mark to do these borings again to find out depth of contamination as he proposed during last site visit.

12/29/06−Hiralkumar Patel. spoke with Mark. he hasn't collected soil samples yet. ask him to collect two soil sample: one with highest contamination and one with clean soil as per DER−10.

01/11/07−Hiralkumar Patel. spoke with Mr. Huang. he gave authorization for further work. Mr. Huang want to backfill excavation soon as he getting calls from FDNY and NYCDOB.
spoke with Mark. he will be going on−site tomorrow for vertical soil delineation and will send soil samples to lab for analysis. Mark will send report once he gets analysis report for these samples.

1/11/07 − Austin − Temporarily assigned to Ketani, in Patel's absence

05/17/07−Hiralkumar Patel. left message for Mark at PTC. left message for Mr. Huang.
05/21/07−Hiralkumar Patel. received message from Mr. Huang. PTC is working on closure report and will send soon.

07/25/07−Hiralkumar Patel. spoke with Mark at PTC. he took sample at one ft below excavation bottom and found clean soil. asked Mark to submit report.
left message for Mr. Huang.

08/14/07−Hiralkumar Patel. received report from Mark. abstract:

− excavation ran from the curb through an alley approx. 35 ft long and through a courtyard approx. another 30 ft.
− in the alley, the opening was approx. 3−4 ft wide and about 5 ft deep
− inside the courtyard the opening was about 8 ft wide and about 6−7 ft deep
− from the curb to the beginning of the alley was only about a foot wide and one foot deep. no oil staining or apparent contamination in this area.
− water from an unknown source began to intrude the excavation
− soil samples taken about 7 ft depth in excavated area and about 4 inches bg at fill port

spoke with Mark. he mentioned that excavated area has backfilled.

contamination along previous fill line has been removed to feasible limit. no further excavation is possible. endpoint bottom

samples are clean. had minor sidewall stains.

based on available report and observation during previous site visits, case closed.

Map Identification Number 207 **MANHOLE 23478** **Spill Number: 9908752** **Close Date: 12/08/1999**
NORTH OF 1981 SEDGWICK AV NEW YORK, NY TT−Id: 520A−0011−398

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 2132 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: N/O 1981 SEDGWICK AVE
Revised zip code: 10453

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR MC CABE	Notifier Phone:	(914) 925−6205
Caller Name:	STEVEN CRIBBIN	Caller Agency:	CON ED	Caller Phone:	(212) 580−8576
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/19/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	4.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

found 4 gals unknown petro mixed in sludge. sample will be taken − clean up pending results −− con ed 128523.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

4 gallons unknown oil in MH 23478, no water in manhole, oil is mixed with sludge. Sample taken.

Cleanup completed on 11−6−99 at 1630 hours. 2 gallons oil and 330 gallons water removed via tanker. Manhole flushed. No sewer connection. Tag removed.

Map Identification Number 208 **MANHOLE 23135** **Spill Number: 9906645** **Close Date: 06/18/2003**
WEBB AVE & FATHER ZEISER PLACE BRONX, NY TT−Id: 520A−0007−189

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2138 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: WEBB AVE / FATHER ZEISER PLACE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR MCCABE	Notifier Phone:	
Caller Name:	BILL MURPHEY	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/03/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 pt of unk oil on 500 gal of water − samples taken − clean up

will be done assumming 50/499 ppm − con ed #127575

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
E2MIS 127575

9−3−99 12:40

JIM SIESFEL 84253 OF EH&S REPORTS CHRIS SCHULOFF 18715 OF FOD FOUND 1−PINT OF OIL ON TOP OF 500 GALLONS OF WATER IN MH 23135

LOCATED AT THE NWC WEBB AVE AND FATHER ZEISER PLACE ON 9−3−99 AT 11:30 HOURS. TAG 24352 INSTALLED AND SAMPLE TAKEN. PLATE

29−G INDICATES NO SEWER CONNECTION. CLEANUP WILL BE HANDLED AS PCB 50−499 AS FEEDER 3X62 IS PENDING ID TAG.

9−3−1999

murphy called job has been completed and the tag pulled.

14−DEC−2002 17:15

ChemLab Results <1 ppm PCB LSN 99−09218.

06−JAN−2003 02:24

Cleanup performed as per GEI 3.04, double washed and rinsed.

Map Identification Number 209 **SPILL NUMBER 0201424** **Spill Number: 0201424** **Close Date: 05/08/2002**
5049 BROADWAY MANHATTAN, NY TT−Id: 520A−0094−292

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2148 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:		Spiller Phone:	
Notifier Type:	Citizen	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	TJDEMEO	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/06/2002		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PAINT	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller states new owner of building was stripping paint off siding

residual product was left on street causing roadway to be stained

no clean up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
05/08/02 TJD

Unregulated substance. Caller refeered to Sanatation Department.

Map Identification Number 210 **53101 MANHOLE** **Spill Number: 1204322** **Close Date: 03/26/2013**
NORTH WEST WEST 216 ST 9TH AVE. MANHATTEN, NY TT−Id: 520A−0277−157

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2151 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: W 216TH ST / 9TH AVE
Revised zip code: NO CHANGE

Source of Spill:	MAJOR OIL FACILITY (>400,000 GAL)	Spiller:	ERT − CON ED	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/31/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	8.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

contained to manhole − on 200 gallons of water − clean up pending

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DEC Investigator Remarks:

3/26/13 − Austin − 8 gals. of an unk. oil atop 200 gals. water − Con Ed contained and cleaned up the spill − See eDocs for

further information − Spill closed − end

Map Identification Number 211 **MANHOLE #53101** **Spill Number: 0812798** **Close Date: 01/18/2012**
216 & 9TH AVE MANHATTAN, NY TT−Id: 520A−0227−873

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2151 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: 9TH AVE / W 216TH ST
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT − CON ED	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/24/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	100.00	GALLONS	0.00	GALLONS	
OTHER	OTHER	100.00	GALLONS	0.00	GALLONS	

Caller Remarks:

All fluid is contained in the manhole at this time. Clean up is pending at this time until a determination of what type of oil is in the manhole.

DEC Investigator Remarks:

1/18/12 − Austin − 100 gals. of oil analyzed to be "gas condensate" (less than 50 ppm PCBs) on water in Con Ed vault − Cleanup hampered by adjoining NYCDEP storm sewer catch basin, which is leaking water/debris into Con Ed vault (next to NYCDOS garage, where materials are draining into catch basin/vault − On 11/12/11, Con Ed recleaned vault, and no oil was found, as well as no further water seepage − Con Ed contained and cleaned up the spill − See eDocs files for more info − Spill closed − end

Map Identification Number 212 **BRONX COMMUNITY COLLEGE** **Spill Number: 0013188** **Close Date: 03/21/2007**
135 HALL OF FAME TERRACE BRONX, NY TT−Id: 520A−0007−345

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2159 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: SAMIR RIMAWI
DEC Investigator: rvketani

Spiller: FRANK FRASEO − NYS DORM AUTH
Notifier Name:
Caller Agency: NYS DORMATORY AUTHORITY
Contact for more spill info: SAMIR RIMAWI

Spiller Phone: (718) 933−9535
Notifier Phone:
Caller Phone: (718) 933−9535
Contact Person Phone: (718) 933−9535

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/16/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

so leak was found − under 5 gallons spilled − still investigating

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
12/11/2001 Sangesland spoke with Jane Weber of PSI (212−889−0294) She has been hired by the NYS Dormatory Authority to oversee the environmental issues around this site.

The original problem related to an oil leak coming from the parking lot area on the rear of the "Pius 12" building (2 story brick house). Next door to the Pius 12 building & lot is a new public school which was built down into the ground. The entire north and east side of the Pius 12 site is held up by a retaining wall which goes down into the rear playground of the new public school.

The oil leak originated someplace in this raised Pius 12 site and leaked through the side of the retaining wall, down into a drain in the playground. This leak appears to have stopped and is no longer an issue with the school.

Albany assignment − Rutland

Jane Weber and PSI have dug out the buried oil tank at Pius 12 (pulled on 12/10/2001) A small amount of contamination was found (1 drum of contaminated soil) No other evidence of contamination was found.

Sometime in the past, 4 soil borings were made around the tank, but there is no record of specifically where these borings were made. Sangesland asked Jane Weber to make 2 additional soil borings along the east side of the Pius 12 lot (along the retaining wall) to identify if any further problem exists.

1/15/2002 − Sangesland reviewed a workplan submitted by Jane Weber (PSI) and dated 1/10/2002. The document outlines the results of the soil borings done in the area in question, adjacent to the retaining wall which looks down into the school yard. All soil borings were tested for VOC & SVOC and were all below TAGM. When the subject 2,000 gal tank was removed, PID readings for the excavation were all below 5 ppm. Sidewall and bottom endpoint samples were taken and tested for VOC and SVOC. All VOC's were below detection limits. One of the side wall samples had some SVOC levels above TAGM. PSI placed 5 pounds of ORC material into the excavation before backfilling, to help speed the breakdown of any remaining petroleum contamination.

PSI will install one permanent flush−mount four inch slotted screen PVC groundwater monitoring well between the former tank location and the subject retaining wall. Water samples will be tested for VOC and SVOC.

1/23/2002−VOUGHT−Transferred from Sangesland to Vought.

4/10/2002 − Jane Weber contacted DEC to say that another monitoring well would be installed on 4/15/2002.

3/11/2003−Vought−Site summary by Vought: Tank removed was a 2000 gallon #2 UST. On 3/16/02 oil was reported leaking through a retaining wall onto adjacent school concrete of PS 15. On 4/16/01 tank was disconnected and temp tank set up. On 12/10 Impact Environmental began UST excavation. A total of 62 tons of petroleum impacted soil was removed. Endpoints were collected and analyzed for STARS 8021/8270. East sidewall samples showed TAGM exceedances but were unable to be removed due to support for retaining wall. On 4/15/02 a four inch monitoring well was installed by Impact Environmental to a depth of 23'and one groundwater sample was collected. Results show exceedances in Acenapthene (84ppb vs. TAGM 20), Fluorene (100 vs. TAGM 50), Phenanthrene (430 vs. TAGM 50).

1/5/04−Vought−Spill transferred from Vought to Austin.

01/27/04 − Sawyer − Spill transferred from Austin to Sawyer.

July 2005 Transferred to Rutland during Reduction Initiative.

8/11/2005 Spoke to Kevin Hartman from O'Brien and Gere (315) 437−6100. O&G currently has the project and he wanted to know what we need to do to advance it. A monitoring well was installed in 2003. Samples were taken showing everything below standards except napthalene. Kevin will do another round of sampling to see if everything is now below standards. −Rutland

9/7/06 − Austin − Assigned from Albany to Region 2 staff (Ketani) for review and closure − end

9/29/06 − Raphael Ketani. I tried to call Mr. Hartman, but he was no longer with the company. I was transfered to Liz Salvanio. I left a voice mail. Rob Needemyer (x2321) of O'Brien and Gere called. He said he had heard of the case in his office, but was

never really involved. He said that CUNY took over the case and Michael Spath (212) 794−5590 is the contact. He said he would have all of the documentation. He said the site is Bronx Community College, the "Snowhouse" (community outreach facility).

I spoke to Michael Spath and he said they just got the money to finish remediation of the site. He said that SUNY was in charge of the project, took the samples, but then stopped. He said his contractor is Woodard & Curran (800) 426−4262 and they will do the final investigation and a closure report. I told him to send the report to me, rather than Albany.

1/11/07 − Raphael Ketani. I spoke to Mr. Spath. He said that representatives from CUNY are about to sign the plan any day now. I should get some correpsondence in the next several weeks.

3/16/07 − Raphael Ketani. I had a conference call with Ester Hundley, CUNY Assistant Safety Officer (212) 541−0430 and Mark Rendezzo of O'Brien & Gere (732) 225−7380. Ms. Hundley said that she is heading the project now, instead of Mr. Spath. She added that O'Brien & Gere is the new contractor for the project. Mr. Rendezzo said that a groundwater sample was taken in February 2007. He said they have the analytical results. I told him to send me the results with a table for the other groundwater analytical results. He said he would.

3/21/07 − Raphael Ketani. I received the 3/16/07 groundwater analytical data report for the site on 3/20/07. I reviewed the report and found that the February 2007 groundwater sample results were completely below TAGM 4046 limits.

With these low concentrations of analytes in the groundwater, and the removal of the leaking tank and the associated soil (according to the case notes), and also based upon the documents in the case file, I am closing the spill case.

The consultants for O'Brien and Gere have also asked for an NFA letter. I drafted an NFA letter for the site and submitted it to Randall Austin, Chief Spills Engineer for Region 2, for his review.

The letter was approved and sent out.

Map Identification Number 213 **THREE GAL XFMR LEAK IN VS #93990** **Spill Number: 0703078** **Close Date: 08/20/2007**
VERMELIAR AVE & ACADEMY STREET MANHATTAN, NY TT−Id: 520A−0099−390

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2161 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: VERMILYEA AVE / ACADEMY ST
Revised zip code: 10034

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	ERTSDESK − CON EDISON	VS#93990	Spiller Phone: (212) 580−8383
Notifier Type:	Responsible Party	Notifier Name:			Notifier Phone:
Caller Name:		Caller Agency:			Caller Phone:
DEC Investigator:	gdbreen	Contact for more spill info:	ERTSDESK		Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/14/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	3.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

NEED TO REMOVE TRANSFORMER: CONED # 206433

DEC Investigator Remarks:

08/20/07 − See eDocs for Con Ed report detailing cleanup and closure.

206433. see eDocs

Map Identification Number 214 **MANHOLE 47441** **Spill Number: 0100003** **Close Date: 06/26/2003**
ACADEMY ST/VERMILYEA AV MANHATTAN, NY TT−Id: 520A−0090−084

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2161 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	BRUNS	Notifier Phone:	
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6765
DEC Investigator:	KMFOLEY	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

on 25gal of water − contained

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
E2MIS 136205

On 4−1−01 06:25 E. Fermaint# 11181 Environmental support services forman reports that C. Legree # 39600 found an unknown substance in Manhole 47441 at 05:15 & waited to be verified by the supeviser if it was an oil or not. Mr fermaint says that Mr. Legree had tolld Mr. Pagano #48703 flush dispatcher eailer. Mr.

Legree was there to flush the manhole for the field opperators.

Mr. Fermaint Reports that there is 10 Gallons of an unknown oil mixed with 25 gallons of water. The cause & source of the spill are unknown. There is a sewer connection as per conduit plate 77−C. Not verified if there is a sump or sump pump none is running at this time. 2 samples were taken 1 for ID & 1 for PCB results. A tag was hung # 27284. The cleanup will be pending lab results. Sample priority is 8 hr. Chain of custody # AA21694

04/01/01 08:16 C. Legree reports that the courier service picked up the sample.

04/01/01 09:00 the cleanup for this incident will start immediately and be treated as over 50 ppm as per J. Mejias shift manager for feeder 1m11 & not be pending lab results as previously stated.

04/01/01 10:30 A Smeragliuolo # 16106 underground forman will be doing the cleanup with 2 crews

04/01/01 11:48 Received lab results lab sequence # 01−03173

Aroclor − none PCB − <1.00 PPM lab sequence # 01−03173 Insufficient amount of oil in the sample to perform analysis.

04/01/01 14:30 A. Smeragliuolo # 16106 underground forman reports that cleanup is complete & spill tag was removed.

UPDATE: 4/04/01

NOTE>>>> The correct lab sequence number for the Oil ID is as follows:

Lab Sequence #01−03179−001

Date Reported: 4/01/01

Date Sampled: 4/01/01

Oil ID = INSUFFICIENT AMOUNT OF OIL IN THE SAMPLE TO PERFORM ANALYSIS.

April 01, 2001 6:19 PM

01.Date: 4/1/2001

02.Time: 14:30

03.Incident No: 136205

04.Structure: 47441

05.Location: NEC ACADEMY ST AND VERMELIA

06.Supervisor: ANTHONY SMERAGLIUOLO

07.Cleanup Type: <50

23.Relieved By: N/A

25.Final Cleanup: Yes

26.Intermediate Cleanup: 0

27:Post Cleanup: 0

31.Sample No: 01−03173

32.Type: PCB

33.PCB Count: < 1G

41.Solid Amount 1: 4 BAGS

42.Sol Veh Type 1: SUPPLY TRUCK PLATE 22368AV NY

43.Sol Stor Loc 1: NON HAZARDOUS WASTE ACCUMULATION DRUM

61.Cleanup Info: DOUBLE WASH USING BIODEGRADEABLE SOAP AND HIGH PRESSURE HOSE FROM FLUSH TRUCK.ALSO USING SCRUB BRUSHES TO SCRUB WALLS AND ALL CABLE IN STRUCTURE.

65.Tag No: 27284

67.Crew Info: L MORALES 74700 / O.V CRUZ 14192/ J RIVERA 16937 / J MILLER 87417

71.Spill Source: UNKNOWN

Map Identification Number 215 **MANHOLE # 47441** **Spill Number: 0002488** **Close Date: 03/24/2004**
ACADEMY ST/VERMILYEA AV MANHATTAN, NY TT−Id: 520A−0090−059

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2161 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR CARROLL	Notifier Phone:	(212) 580−6763
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	BILL MURPHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/30/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION. AMOUNT REPORTED AS

1 PINT AND IS ON TOP OF 100 GALLONS OF WATER. SAMPLE HAS BEEN

TAKEN AND CLEANUP IS PENDING RESULTS. CON ED #131169.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 131619:

1 pt. of unknown oil on 100 gals of water in manhole 47441. clean up is pending lab−results.

lab sequence # 00−05242 PCB <1 ppm

DATE AND TIME THE CLEANUP WAS COMPLETED: 06/01/00, 12:30 NOON.

CLEANUP PROCEDURE: OIL AND WATER REMOVED VIA TANKER UNDER 50 PPM, FLUSH TRUCK FROM ENVIRONMENT OPERATIONS USED A HIGH PRESSURE HOSE TO DOUBLE WASHED THE FLOOR AND WALL'S WITH BIO−GENESIS SOLUTION (SLIX) , MANHOLE WAS THEN RINSED BY FLUSH TRUCK.

Map Identification Number 216 **4856−66 BROADWAY** **Spill Number: 0809562** **Close Date: 11/24/2008**
4856−66 BROADWAY , NY TT−Id: 520A−0223−946

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2175 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:		Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/23/1987		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SPILL REPORT DEVELOPED TO ALLOW ARCHVINFG OF SPILL REPORT RECORDS FOR TANK REMOVAL/SITE CLEANUP DONE IN 1987 AT THIS LOCATION

DEC Investigator Remarks:

11/24/08 − Austin − Spill Report being created to allow archiving of submitted documentation for tank removal/site cleanup at the captioned property. Spill adminsitratively closed, as we have no documentation at this time for whether the work specified by the NYSDEC letter dated 4/27/87 was actually performed. − end

Map Identification Number 217 **APT BLDG** **Spill Number: 0712178** **Close Date: 08/15/2008**
618 ACADEMY STREET MANHATTEN, NY TT−Id: 520A−0214−783

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2175 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	FDNY HAZMAT	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RMPIPER	Contact for more spill info:	FDNY HAZMAT	Contact Person Phone:	(347) 203−6886 ext. C

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/19/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	80.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

MIXED WITH WATER IN BASEMENT− NO DRAINS EFFECTED

DEC Investigator Remarks:

DEC Piper responded to site in am. Spill was due to small overfill. Tank room is dirty though not much oil. SJ will repair whistle and building will clean up. PBs inspection required 1 mos.

Spill was a surface spill on driveway. Spill was cleaned. Closed.

Map Identification Number 218 **9−15 POST AVE** **Spill Number: 9512806** **Close Date: 01/16/1996**
9−15 POST AVE MANHATTAN, NY TT−Id: 520A−0098−365

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2180 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Notifier Type: Local Agency
Caller Name: JIM CARREY
DEC Investigator: MCTIBBE

Spiller:
Notifier Name: KURT MELHORN
Caller Agency: CASTLE OIL CORP.
Contact for more spill info: JOSE

Spiller Phone:
Notifier Phone: (718) 579−3414
Caller Phone: (718) 579−3414
Contact Person Phone: (212) 304−1078

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/15/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	15.00	GALLONS	15.00	GALLONS	SOIL

Caller Remarks:

cause is unkown, spill has already been cleaned.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
SPILL CLEANED BY OIL CO.

Map Identification Number 219 **SERVICE BOX #24308** **Spill Number: 0002923** **Close Date: 04/02/2004**
IFO 631 ACADEMY ST MANHATTAN, NY TT−Id: 520A−0094−260

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2202 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR MCCUTCHEN	Notifier Phone:	
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	BILL MURPHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/08/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 PINT OF PETROLEUM. SERVICE BOX HAD NO COVEER. OIL WAS SPRAYED OR SPLASHED ON CABLES. SUPER. ENROUTE TO DETERMINE SAMPLING AND CLEAN UP. CONED#131754.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 131754:

found an oily fluid sprayed on the secondary cables in sb#24308. less than one pint of oily fluid in the service box. No connections to waterways or sewers.

lab sequence # 00−05572 PCB <1 ppm

DATE AND TIME THE CLEANUP WAS COMPLETED: JUNE 20,2000, 12:00 PM.

CLEANUP PROCEDURE: (NO WATER IN STRUCTURE−DRY CLEANUP) OIL ABSORBENT, ABSORBENT PAD'S AND DOUBLE WASHED WITH BIOGENESIS

SOLUTION (SLIX). SERVICE BOX WAS THEN RINSED BY ENVIRONMENT OPERATIONS FLUSH TRUCK.

Map Identification Number 220 **PRIVATE RESD** **Spill Number: 1202211** **Close Date: 09/24/2013**
1985 SEDGWICK AVE BRONX, NY TT−Id: 520A−0273−526

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2240 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	NYC DEP − PRIVATE RESD	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RMPIPER	Contact for more spill info:	NYC DEP	Contact Person Phone:	(646) 584−4925

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/04/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

After heavy rains for a few days the homeowner has an oily substance leaching into her elevated backyard from unknown source.

DEC Investigator Remarks:

6/4/12− DEC Piper responded to residence at 1970 Cedar Ave. Owner noticed black oil coming through retaining wall in backyard. There is an apt bldg dirctly updradient from this property. 1975 Sedgewick.

11/12− After further investigation, tightness testing, and soil borings, it was determined it was not coming from 1975 Sedewick but from 1985. Residual oil from previoius spill 0803894, followed bedrock approx 200' to backyard o 1970.

DECPiper instructed 1985 to perform geoprobe investigation around former tank and clean and investigate 1970 Cedar.

1/14/13−Vought−Received call from homeowner and referred call to PM DEC Piper.

3/10/13− former tank located and will be removed along with contaminated material. Once tank is removed, cleanup and investigation to be done at 1970 Cedar.

4/8/13−Vought−Cleaning out voicemail and received message from Epsilina Briset (Ph:718−901−4310) and referred message to Ryan Piper as PM for spill.

06/10/13−Hiralkumar Patel. another spill reported (spill #: 1302537).

8/22/13−Vought−Received call from owner Epsilina Brissette and she has a "big problem" as she had letter from DEC Piper on 6/5/12 and a letter was sent to 1975 Sedgwick Avenue to Zukerman Realty as on 6/12 DEC notified of spill. She had a visit by Josh (Toldfar Properties Cell 914−494−5929 Ph:718−713−1089) and he wants to excavate soil on her property and put up retaining wall and she spoke to her son and her attorney and she has nothing in writing as far a proposal and she does not understand why her property has to be dug up if oil spill problem is at another property. Josh also brought insurance paperwork. Josh is "rushing" her and "bothering" her and she would like a call back as soon as possible.

09/17/13−Hiralkumar Patel.
10:10 AM:− received call from Ms. Brissett. she was concerned about cleanup activities and laimed adverse affects on her health due to ongoing petroleum spill issue. she requested call back from DEC Piper.

10:27 AM:− sent email to DEC Piper with copy of spill reports (1202211 and 1302537) and asked him to contact Ms. Brissett.

9/24/13− DEC Piper visited 1970 to inspect trench behing retaining wall at 1970. No signs of oil present along bedrock. apppoved for back fill. Contractor will waterproof and put a knee wall in to seal off area further. Additionally, a 4" well will be left in place behid wall to monitor seepage if any.

Based on work to date, this spill is closed. Report to follow.

Map Identification Number 221 **APT. BUILDING** **Spill Number: 0803894** **Close Date: 07/09/2008**
1985 SEDGWICK AVE BRONX, NY TT−Id: 520A−0220−245

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2240 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	APT. BUILDING	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	hrpatel	Contact for more spill info:	HAZMAT 1	Contact Person Phone:	(347) 203−6886

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/03/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	150.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

EXPLOSION CAUSE MATERIAL TO SPILL; FIRE DEPT. ON SCENE;

DEC Investigator Remarks:

FD Mike Woods − Battalion 19
Explosion in the basment of the building.
Damage to fill line between oil tank & burner. 150 gal Spill in basement.

07/07/08−Hiralkumar Patel. visited site on 07/03/08. met Joseph Driscoll, building manager. oil leaked from supply line and was spread out from hole in line and due to hot boiler nearby explosion happened. found floor around boiler filled with oil and water. found two drains in boiler room, but on oil in drains. asked Joe to cover drains with absorbent pads. Joe contacted their oil company, who hired ABC tank. FDNY cut power in basement. no odors outside basment. site has one 10,000 gal #6 oil AST. no oil drops found on tank vault floor. found solid concrete in visible part of boiler room floor.

Joseph Driscoll
General Manager
Goldfarb Properties
1981 Sedgwick Avenue
Bronx, NY 10453
PH. (718) 299−0718 (O)
(914) 610−6177 (C)
Fax (718) 299−2995

spoke with Pete (718−272−2800) at ABC tank, today. they removed oil/water on 07/03/08 and found floor in good condition. asked Pete to submit report including disposal manifests, statement about condition of floor and color photographs of impacted area.

07/09/08−Hiralkumar Patel. visited site. met Mr. Driscoll. inspected boiler room floor and found entire floor in good condition, no cracks found. no oil found in sump.

based on observations during site visit, case closed.

Map Identification Number 222 **SPILL NUMBER 0306293** **Spill Number: 0306293** **Close Date: 09/16/2003**
647 WEST 207TH ST MANHATTAN, NY TT−Id: 520A−0094−283

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2245 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PASSENGER VEHICLE	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Federal Government	Notifier Name:	MRS MATOS	Notifier Phone:	(917) 361−9344
Caller Name:	MALERIE GILMORE	Caller Agency:	DEP	Caller Phone:	(718) 595−6700
DEC Investigator:	MXTIPPLE	Contact for more spill info:	MRS MATOS	Contact Person Phone:	(917) 361−9344

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/14/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller states that there is a green ford tempo at the above address leaking gas onto the street − ny reg − bnr7839

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
9/16/03 TIPPLE UPDATING///DRIPS FROM CAR, CAR REPAIRED, NO MORE DRIPS//NFA

Map Identification Number 223 **COMMERCIAL PROPERTY** **Spill Number: 0604173** **Close Date: 12/13/2006**
4055 10TH AVE NEW YORK, NY TT−Id: 520A−0090−515

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2268 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: CHARLES POWERS − COMMERCIAL PROPERTY
Spiller Phone: (516) 932−3228
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: CHARLES POWERS
Contact Person Phone: (516) 932−3228

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/14/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING EXCAVATION OF CONSTRUCTION SITE 1000 GALLON UST WAS OBSERVED: PROCEEDED TO REMOVE TANK AND DISCOVERED PETROLIUM ODOR AND EL;EVATED PID READINGS: SPILL IS IN PROCESS OF BEING CLEANED−UP, REMOVAL OF TANK:

DEC Investigator Remarks:

7/17/06 − Raphael Ketani. I spoke to Charles Powers via his cell phone (516) 448−5004. He said that they dug out, cleaned, and removed a 600 gal. gasoline tank last friday, 7/14. He added that 90 to 100 cu. yds. of soil were removed as well. I asked him for end point samples for the former location of the tank and a groundwater sample. He said that end points will be done today, 7/17, but because of room constraints on site the water sample wont be able to be taken until maybe a week later. I told him that will be alright as long as we get the results. I asked him about the presence of any remote fills or pumps islands or pipes. He said that all they had here was a concrete slab and the tank in a vault. He said there was no free product in the vault, only water. He did mention that there were 2 pipes that ran to a holding tank. He said he will check out this tank, also. He said he will send a complete closure package to DEC (minus the groundwater results) soon. I added that he has to get the 600 gal. tank register as it contained gasoline.

7/19/06 − Raphael Ketani. I talked to Jake Krimgold, E.E. II Spills Unit Region 2, regarding the gasoline tank registration. He said that the gasoline tank needs to be registered only if there are other tanks which brings the total site capacity to 1100 gals. or more. Not if there is only one 600 gal. gas tank.

7/24/06 − Raphael Ketani. Mr. Charles Powers (516) 932−3228 from CNS Management called regarding the case. I referred him to Mr. Ryan Piper, who is the case manager. DEC Piper spoke w/ Charles. An additinal 600 gal gas UST was discovered. The tank was removed today and endpoints were collected. Charles will submit closure report when completed.

9/20/06− DEC Piper spole w/ Charles Powers. He will have report in abput two weeks. He is waiting for disposal mainfests from contractor.

12/13/06− DECP iper reviewed tank closure report for site. Two 600 gal tanks were removed along w. contamianted soil from one of

the tanks. Endpoints revealed one excedance of crysene in tank #1. No other exceedances. Additionally, a vapor barrier will be installed as per building plan. This spill is closed. See e−docs if warranted.

Map Identification Number 224 **I/F/O 2241 ANDREWS AVE** **Spill Number: 0809202** **Close Date: 12/22/2008**
I/F/O 2241 ANDREWS AVE BRONX, NY TT−Id: 520A−0225−061

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 2270 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: IFO 2241 ANDREWS AVE
Revised zip code: 10453

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	asnagi	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/14/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT THEY FOUND AN UNK PETROLEUM IN A TRENCH ABOUT 24 OUNCES. CLEAN UP IS PENDING TEST RESULTS.

DEC Investigator Remarks:

12/22/08 − See eDocs for Con Ed report detailing cleanup and closure.

Map Identification Number 225 **MANHOLE #23638** **Spill Number: 9911093** **Close Date: 03/28/2002**
WEST 183RD ST/ANDREWS AVE BRONX, NY TT−Id: 520A−0009−411

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2281 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: W 183RD ST / ANDREWS AV N
Revised zip code: 10453

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MARK SCHLEGEL	Notifier Phone:	(212) 580−6763
Caller Name:	MARK SCHLEGEL	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	COMENALE	Contact for more spill info:	MARK SCHLEGEL	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	12.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

MATERIAL IS CONTAINED−CLEAN HARBORS ENROUTE FOR CLEANUP−

CON ED #129345− SAMPLES TAKEN FOR PPM AND FLASH POINT.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

COMENALE ONSITE 11:30 AM
SMALL SPILL, ONLY PILC CABLE IN HOLE
CLEAN HARBOURS EN−ROUTE.
SAMPLED FOR FLASH AND ID WITH PCB.
OFFSITE.

Map Identification Number 226 **4863 BROADWAY/NY CLEANERS** **Spill Number: 8808009** **Close Date: 01/06/1989**
4863 BROADWAY NEW YORK CITY, NY TT−Id: 520A−0094−263

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2312 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Citizen
Caller Name:
DEC Investigator: RWAUSTIN
Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info:
Spiller Phone: (212) 942−1238
Notifier Phone:
Caller Phone:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/04/1989	01/06/1989	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	AIR

Caller Remarks:

CLEANERS DIRECTLY BELOW CALLER, CLEANING FUMES VERY STRONG LAST FEW DAYS, THIS HAS HAPPENED BEFORE RESULTING IN FINES TO CLEANERS, NO DEC RESPONSE NECESSARY.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"

Map Identification Number 227 **KINGSBRIDGE BUS DEPOT** **Spill Number: 0400394** **Close Date: 04/19/2004**
4056 10TH AVE MANHATTAN, NY TT−Id: 520A−0094−304

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2317 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	CLARISSA BARROCALES − KINGS BRIDGE BUS DEPOT	Spiller Phone:	(718) 927−7777
Notifier Type:	Responsible Party	Notifier Name:	OLUCHI DUROHA	Notifier Phone:	(718) 243−4581
Caller Name:	OLUCHI DUROHA	Caller Agency:	NYC TRANSIT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	CLARISSA BARROCALES	Contact Person Phone:	(718) 927−7777

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/13/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	3.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

UNSURE WHAT HAPPENED AT THIS TIME;

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"

04/19/04: Overfill at fill port when driver released hose. Contained and cleaned by NYCT.

Map Identification Number 228 **MANHOLE #25852** **Spill Number: 0203135** **Close Date: 08/29/2002**
WEBB AVE & DEVOE TERRACE BRONX, NY TT−Id: 520A−0007−038

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2353 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: WEBB AVE / DEVOE TERRACE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CHARLIE MCCARTHY − MANHOLE #25852	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	CHARLIE MCCARTHY	Notifier Phone:	(212) 580−6763
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	AERODRIG	Contact for more spill info:	CHARLIE MCCARTHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/24/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

SPILL MAY BE RELATED TO SPILL # 0203131. NO SEWERS,WATERWAYS,

NO SMOKE OR FIRE. CON ED #143553.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "RODRIGUEZ"
E2MIS NOTES 143553

24−June−2002 @ 20:55 hrs.

FOD Mechanic George Justi, #18598 reports while checking line manhole 25852 on Webb Av. he found 10 gallons oil on 500 gallons of water in the manhole. No sewers waterways or private property affected. This oil is possibly associated with e2MIS #143551 − VS. 1868. Samples taken. Clean up to be performed 50−499.

24−Jun−2002 @ 21:54 Hrs.

CIG Charles McCarthy, Jr. #06416 notified.

25−JUN−2002 02:37

Page 1 of 1 6/25/2002

Consolidated Edison

Environment, Health and Safety ChemLab

NELAP NY Lab ID No: 10380

Lab Sequence Number: 02−05852−001 Date Approved: 6/25/2002

E2 Incident Number: 143553 Date Received: 6/24/2002

Chain of Custody ID: CC05672 Date Sampled: 6/24/2002

Submitter: GEORGE J JUSTI

Job Site: W/S WEBB AVE 80’S/S/C DEVOE TERR.

Email To: JUSTIG@coned.com|EA−ChemLabReports|BX−WEST−LAB RESULTS|

Cc To: DL − BX/WEST EH&S C.C.|

NOTE: The Submitter shall post and/or provide these results to all employees

working with or in the vicinity of this substance. This report shall not

be reproduced, except in full, without the written consent of EH&S.

Test results are representative only of submitted samples.

==========

PCB Analysis by EPA 608/8082

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MATRIX: OIL GRAB

DESCRIPTION: W/S WEBB AVE 80’ S/S/C DEVOE TERR.

LOCATION: W/S WEBB AVE 80’ S/S C DEVOE TERR.

STRUCTURE: NA MH25852 FEEDER ID:

TEST DESCRIPTION RESULT UNIT METHOD

−−−−−−−−−−

Aroclor 1242 < 1.0 ppm EPA 608/8082

Aroclor 1254 23.7 ppm EPA 608/8082

Aroclor 1248 < 1.0 ppm EPA 608/8082

Aroclor 1260 < 1.0 ppm EPA 608/8082

−−−

Kenneth J. Trager

Bronx/Westchester Electric Operations

Environment, Health & Safety

Office: (718) 904−4967

Nextel: (914) 755−6915 pt/pt849

Pager: (917) 321−0913

Map Identification Number 229 **APT. BUILDING** **Spill Number: 0708134** **Close Date: 07/07/2010**
50 PARK TERRACE WEST MANHATTAN, NY TT−Id: 520A−0211−080
NEAR WEST 215TH ST

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2372 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	JEFF − APT. BUILDING	Spiller Phone: (718) 367−9800
Notifier Type:	Other	Notifier Name:		Notifier Phone:
Caller Name:		Caller Agency:		Caller Phone:
DEC Investigator:	RVKETANI	Contact for more spill info:	JEFF	Contact Person Phone: (718) 367−9800

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/25/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

JEFF IS FROM CONTROLED COMBUSTION WHO HIRED PETROLEUM TANK; TANK WILL BE PUMPED OUT; CAUSE IS TANK CORROSION;

DEC Investigator Remarks:

PBS #2−286613 5,000 gal vaulted #6 oil tank.
RP: Goodman Management (Richard Goodman) 718−796−5022

10/25/2007 − PTC was called to site to clean the tank. On inspection they found oil coming through the vault wall into the basement. PTC on site now (10:30AM 10/25) pumping out oil. Will clean & inspect. Unknown if tank can be repaired or must be rebuilt. Unknown how much contamination there is at this time. SS

11/07/07−Vought−Called Ostrowski for update on site. Vought spoke to Ostrowski and he is waiting for tank to be removed so that he can excavate soil. Tank is 5000−gallon AST #6 fuel oil and is wrapped with concrete wall. Front wall was removed and soil contamination present underneath tank. Building will remove tank and soil will have to be excavated. Bottom two feet of wall in grave was removed and oil stopped flowing but tank has to be removed for further remediation. Oil was coming into sump pit by boiler room. Vought called Goodman Management (Richard Goodman 718−796−5022) and agent is Jane Edralin (fax:718−796−5026). Vought left message with Edralin of return phone number and that letter is being sent with below requirements.

DEC requires: 1)cleaning of sump 2)delineation of soil and groundwater contamination 3)collection of endpoint samples.

Vought sent CSL with above requirements and one month due date to owner as per PBS:

Inwood Tenants Corp.
100 Park Terrace West
New York, NY 10034

Ms. Jane Edralin
Goodman Management Co., Inc.
2736 Independence Avenue
Suite A
Bronx, NY 10463
Fax: (718) 796−5026

11/08/07−Vought−Received call from and spoke to PTC Salamack and PTC is sub on job and confirmed that tank had to be removed and tank will be removed by Controlled Combustion.

06/05/08−Vought−Received call from Nick Marrone (Miller−516−876−7940 Fax:516−876−7946) and AST encased in vaulted room was leaking and tank was cleaned and removed and temp tank installed. Ground saturated with #6 fuel oil and floor is exposed bedrock. Groundwater entering excavation (perched above bedrock) and additional soils excavated down to bedrock and some oil still recharging into sump. High pressure hot washer used to remove staining and boiler room was painted. A report will be submitted to DEC by 7/31/08. Letter should be sent to above address.

07/25/08−Vought−Received call from and spoke to Jeff Dugan (Ph:212−589−7022 fax:212−245−7132) who is president of coop board. Board looking to put in permanent tank. Dugan requested report review.

07/31/08−Vought−Reviewed Investigation and Remdiation report dated 6/13/08 and received on 6/18 from Miller Environmental (Nick

Marrone). Tank was a 5000−gallon tank and boiler room floor and sump were impacted with oil. Seven cubic yards of oil impacted debris was removed from the tankroom. "After the debris was removed, oil and groundwater continued to seep into the excavation". Appoximately 1200 gallons of oil water was taken off−site for disposal. Sump was vacuumed out and tank room was high pressure washed. An additional ten yards of oil impacted debris was removed. Sump location currently collecting oil. Assumption that groundwater flow to the northwest due to slope of bedrock towards Hudson River. Weekly VEFR visits being performed and recovery amounts are being evaluated to determine if a in−situ oil recovery system is needed. DEC requires: 1)submission of recovery amounts 2)placement of recovery and seepage location on site plan 3)installation of borings in the basement 4)delineation of groundwater contamination. Vought called and spoke to Nick Marrone and impact to sump pit behind boiler pit due to groundwater seepage. Tank leaked due to rusting and oil seeping through bottom of tank. Tank removed. Tank room excavation limited by structural limitations. Miller will delineate further and then recommend RAP. Nick will email proposal for further delineation and will also make sure Dugan is contacted and that new tank is not installed until delineation and hence RAP is determined. Vought faxed Marrone copy of 11/7/07 letter.

08/05/08−Vought−Received call from and spoke to Jeff Dugan.

09/28/08−Vought−Received call from and spoke to Dugan (Ph:917−482−7337 Fax:212−245−7132) and Miller delineated groundwater contamination and they submitted a report. Dugan requested report review and noted corrected address of:

Mr. Jeff Dugan Apt 3E
nwood Tenants Corp.
50 Park Terrace West
New York, NY 10034

Ms. Jane Edralin
Goodman Management Co., Inc.
2736 Independence Avenue
Bronx, NY 10463
Fax: (718) 796−5026

10/6/08−Vought−Reviewed Subsurface Investigation and Remediation Work Plan dated 9/18/08 and received on 9/23/08 from Miller (Nicholas Marrone). Ten borings were installed around 9/9/08 and confirmatory samples were collected. No visual #6 oil in borings B1, B2, B3, B4, B5, B8 and B9. Proposal to install system for recovery of heavy oil. "Currently the tank room continues to recharge with perched groundwater. All excavated debris has been excavated from the tank room down to bedrock". Proposal to install a new sump and depression pump in the tank room with a 6−8 inch porous gravel pack and then pouring of a concrete slab. Proposal to install skimmer system in sump as well to collect free product that will be connected to an oil/water separator and carbon filter prior to discharge to NYC sewer system. Miller currently VEFRing excavation and sump. Vought called and spoke to Miller (Marrone) to inquire if proposed recovery sump in tank room will be sealed in case of future spills. Marrone assured that recovery sump will be sealed to provide no conduit to groundwater in case of spill. Vought discussed recovery system design with DEC Krimgold due to proposed installation inside tank room and DEC Krimgold had no objections to system design as long as sump was covered. Vought sent letter approving of the plan pending sealing of depression pump/sump system and submission of recovery amounts with cc to Miller.

2/18/10−Vought−Reviewed Spill Closure Request from Miller (Marrone) dated 1/28/10 and received via email. Product recovery system was installed including screen sump recovery area with depression pump. Oil belt skimming system was installed in Sump #1 and

oil was dischared into 55−gallon product recovery drum and then carbon drum prior to discharge to sewer. NYCDEP Permit #C−4528. Frequent VEFR on sump and excavation while system was being constructed. Recovery system was fully operational on 4/1/09 and OM&M occurred monthly including product measurement. Report concludes that "The site has been free of product in the monitoring well points and sumps since August 28, 2009" and requests spill closure. Vought called Marrone (Ph:845−569−1200) and left message with requirement of collection of dissolved sample and removal of system upon spill closure. Vought sent Marrone email with below requirements.

DEC requires: 1)collection of dissolved groundwater sample and decomissioning of recovery system upon spill closure as it is in AST room (albeit covered).

6/11/10−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin and Vought transfer to Section A.

7/7/10 − Raphael Ketani. Nicholas M. Marrone of Miller Environmental Group, Inc. (845) 569−1200, ext 104 called today. He wanted to know whether I had received the latest groundwater report. I told him that I hadn't. He said that he will send it to me and then, maybe, I will be able to close the spill case.

Mr. Marrone sent me the 7/1/10 groundwater analytical report from York Laboratories. All of the analytes in the list were non−detect.

As the contaminated soil was removed, and as there was no oil in samples from borings B1 to B5, B8 and B9, and as there has been no oil in the monitoring wells and the sumps since 8/28/09, I am closing the spill case.

Map Identification Number 230 **VACANT COMMERCIAL LOT** **Spill Number: 1211103** **Close Date: 01/25/2013**
4857 BROADWAY MANHATTAN, NY TT−Id: 520A−0280−907

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2375 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JIM DEMARTINIS − PROPERTY OWNER	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RMPIPER	Contact for more spill info:	JIM DEMARTINIS	Contact Person Phone:	6312342220

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/16/2012		UNKNOWN	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

Excavation discovered gasoline in soil.

DEC Investigator Remarks:

DEC Piperrecieved report. Based on work to date and analyticals, this spill is closed. See edocs if warranted.

Map Identification Number 231 **215259; CEDAR AVENUE AND W 180TH STREET** **Spill Number: 0913965** **Close Date: 03/04/2009**
CEDAR AVENUE AND W 180TH STREET NEW YORK, NY TT−Id: 520A−0249−189

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 2396 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: CEDAR AVE / W 180TH ST
Revised zip code: 10453

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: ERT DESK − CON EDISON Spiller Phone:
Notifier Type: Responsible Party Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: DMPOKRZY Contact for more spill info: ERT DESK Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/22/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 232 **213822; CEDAR AVE AND W 180 ST** **Spill Number: 0814496** **Close Date: 10/03/2008**
CEDAR AVE AND W 180 ST NEW YORK, NY TT−Id: 520A−0249−188

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 2396 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: CEDAR AVE / W 180TH ST
Revised zip code: 10453

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/24/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 233 **KINGSBRIDGE DEPOT** **Spill Number: 9007496** **Close Date: 01/10/2005**
4065 TENTH AVENUE MANHATTAN, NY TT−Id: 520A−0094−322

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2416 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: 4065 10TH AVENUE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	NYCTA	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	RAY RIZZO	Caller Agency:	RIZZO ASSOC	Caller Phone:	(516) 825−7227
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/09/1990		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

CONTAMINATED SOIL & ABANDONED TANKS DISCOVERED DURING EXCAVATION, ABLEENVIRONMENTAL TO PUMP TANKS & REMOVE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
11/15/94: REASSIGNED FROM SIGONA TO ZHITOMIRSKY ON 11/15/94.

TRANSFERED FROM HALE TO TIBBE ON 12/28/00. CONTAMINATED SOIL AND ABANDONED DRUMS DISCOVERED DURING EXCAVATION. TANKS WERE SUPPOSED TO BE REMOVED. NYCT TO INVESTIGATE.

01−10−05: Originally reported as 216 9th Avenue. Actually concerns Kingsbridge Depot. Reported as abandoned tanks and contamnated soil dicscovered during excavation in maintenance area of depot. The tanks turned out to be a waste oil tank and a drainage settling basin. Currently, NYCT is installing a system to recover gasoline and diesel from that same maintenance area under spill #'s 9510775 & 9812375. Any contamination that may exist due to this spill will be remediated along with the other contamination.

Map Identification Number 234 **KINGSBRIDGE BUS DEPOT** **Spill Number: 0907811** **Close Date: 10/13/2009**
4065 10TH AVE NEW YORK, NY TT−Id: 520A−0232−131

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2416 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	NYCT	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	vszhune	Contact for more spill info:	JEN WUOTINEN	Contact Person Phone:	

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/10/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	40.00	GALLONS	0.00	GALLONS	

Caller Remarks:

spill to containment area only/clean up complete/investigation on going

DEC Investigator Remarks:

10/12/09−Zhune spoke to Jennifer Wuotinen (646)252−5768 from NYCT. She said the diesel generator tank leaked into the secondary containment. nothing was released to the environment
The spill was cleaned it up. They are trying to figure out what happen to the tank.
Spill Closed

Map Identification Number 235 **KINGSBRIDGE DEPOT** **Spill Number: 0210401** **Close Date: 03/17/2004**
4069−75 10TH AVE MANHATTAN, NY TT−Id: 520A−0094−316

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2416 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CALLER − NYC TRANSIT	Spiller Phone:	(718) 243−4581
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	JOSEPHINE BROWN	Caller Agency:	NYC TRANSIT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/15/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

SPILL FOUND IN SUMP. SYSTEM SHUT DOWN. LOOKING FOR ORIGIN OF SPILL.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
Leaking flex connector on suction line for diesel tanks 1&2. Product contained in secondary and sumps as confirmed by testing.
Flex was replaced, primary and secondary were retested and passed. Product was cleaned from sump.

Map Identification Number 236 **MAN HOLE 61887** **Spill Number: 9810405** **Close Date: 10/31/2002**
HARLEM RIVER DR/DYKEMAN S MANHATTAN, NY TT−Id: 520A−0102−362

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 2437 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: HARLEM RIVER DR / DYCKMAN ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	LISA PRIMEGGIA	Notifier Phone:	(212) 580−6763
Caller Name:	LISA PRIMEGGIA	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/17/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

scheen on water on floor of man hole con ed #121321 found oil while attempting to locate a leak on m−51 feeder

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

Map Identification Number 237 **MANHOLE 28185** **Spill Number: 0004077** **Close Date: 10/17/2001**
BROADWAY & ACADEMY ST MANHATTAN, NY TT−Id: 520A−0102−237

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2438 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: BROADWAY / ACADEMY ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN Spiller: UNKNOWN − UNKNOWN Spiller Phone:
Notifier Type: Affected Persons Notifier Name: PELLIGRENO Notifier Phone:
Caller Name: BILL MURPHY Caller Agency: CON EDISON Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE Contact for more spill info: CALLER Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/05/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller reporting a spill of material from an unk source in a manhole coned#132178 samples tanken clean up pending lab results

no callback necessary

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis Notes:

7/5/00 1gal unknown oil in manhole. Performing secondary cable repairs when discovered the oil. There is no PILC cable and no other equipment in manhole. There is a sump pit but sump pump was not running. There is a sewer connection. Samples were taken for PCB and ID. Absorbant pads were placed down and sump was blocked.

Cleanup was completed on 7/10/00. Manhole has no sewer connection. Double washed hole. There was no debris. Sump was found sealed. Lab analysis 5.8ppm PCB.

Map Identification Number 238 **APT BUILDING** **Spill Number: 1002813** **Close Date: 06/21/2010**
2291 UNIVERCITY AVE BRONX, NY TT−Id: 520A−0253−778

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2503 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: 2291 UNIVERSITY AVE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	MILLY LOPEZ	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/11/2010		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	6.00	GALLONS	0.00	GALLONS	

Caller Remarks:

tank label miss marked/wrong tant size/spill to paved surface/clean up complete

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DEC Investigator Remarks:

minor spill − cleanup completed by Castle

Map Identification Number 239 **MANHOLE** **Spill Number: 0602067** **Close Date: 07/10/2013**

2291 DR MARTIN LUTHER KING BOULEVARD BRONX, NY TT−Id: 520A−0012−128

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2503 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: 2291 DR MARTIN LUTHER KING JR BLVD
Revised zip code: 10468

Source of Spill:	UNKNOWN	Spiller:	COSMO − MANHOLE	Spiller Phone:	(718) 595−4718
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RVKETANI	Contact for more spill info:	COSMO	Contact Person Phone:	(718) 595−4718

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/25/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL, SEWER

Caller Remarks:

FUEL IN A MANHOLE: STILL INVESTIGATING:

DEC Investigator Remarks:

06/22/10 − changed Lead DEC to JMOCONNE (JOC)

1/16/2013 − Raphael Ketani. This spill case has been assigned to me. The spill consisted of the discovery of oil in a manhole near an apartment building at 2291 Martin Luther King Boulevard in the Bronx. The oil was discovered and reported on 5/25/06. The spill report lists it as #2 oil, but there is no information to verify that the material was #2 oil.

There is no paper file, no case notes, nor any e−docs.

I tried to contact the person in charge of the spill case for the NYC DEP, but I could not contact this person or leave a message.

There are 3 other spill cases for the building at 2291 MLK Blvd. Two are earlier spill cases, #9713073 and #9713077, and one is a later case, #1002813.

The #9713073 spill case (and the later number for the same spill − #9713077) involved the discovery of oil in the manhole in front of 2291 MLK Blvd. The report date is 2/23/98. The oil was reported to be seeping into the manhole from a drain. It was believed that the oil could possibly be from a leaking tank in the nearby building. Three gallons of oil were collected from a sump. The manhole was cleaned up and the drain sealed. The case was closed on 2/12/03.

The #1002813 spill case was opened up on 6/11/10. It involved the spilling of 6 gallons of #2 oil onto a paved surface. The spill was cleaned up and the case was closed on 6/21/10.

The building at 2291 MLK Blvd. has a PBS registration #2−187372 for an active 3,000 gal. AST in contact with the soil. The AST contains #2 oil and was installed on 4/7/58.

7/10/13 − Raphael Ketani. I made an unannounced site visit to see the manhole. I found one manhole near the building at 2291 MLK Blvd (about 20 feet away). The manhole sat over a catch basin which was under the sidewalk. Both the manhole and the catch basin were at the front of a driveway to the neighboring building at either 2293 or 2295 MLK Blvd. I stuck the nose of my PID meter into the catch basin, but did not detect any vapors. I walked to the front of 2291 MLK Blvd. and saw a fill port and vent pipe stickup which appeared to be operational. As the stickup for a vent pipe is usually close to the location of a tank, I estimated the distance from the tank to the manhole to be about 30 feet. I could not get into the building to see who the management company was. So I took some pictures and left.

Once back at my desk, I checked for any open or closed spill cases that belonged to either 2293 or 2295 MLK Blvd. However, I didn’t find anything. As spill case #9713073 did not indicate whether the sealed drain had belonged to the apartment building or the home next door, I could not be certain who may have been responsible for the spill. Also, as the drain had been sealed, it was not clear how the oil could again get into the manhole during the 2006. The best I could estimate was that the oil had collected in the manhole as a result of rain washing oil that had leaked onto the street from vehicles. However, someone could also have dumped used oil down the catch basin during 2006. Though after 7 years of rain, it is unlikely that one would find any fresh oil in the sewer.

As no additional information could be obtained from the NYC DEP regarding the spill, and as the PID meter did not detect any oil vapors emanating from the catch basin, and as 7 years worth of rain has probably washed out the manhole, I have determined that there is no threat to the public or the environment. Therefore, I am closing the spill case effective today.

Map Identification Number 240 **SIDEWALK** **Spill Number: 0812082** **Close Date: 09/22/2011**
11 VERMILYEA AVE MANHATTAN, NY TT−Id: 520A−0226−364

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2512 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	MIKE WORDEN − UNKNOWN	Spiller Phone:	
Notifier Type:	Citizen	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RMPIPER	Contact for more spill info:	MIKE WORDEN	Contact Person Phone:	

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/06/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

Caller states thru a 3rd party there is an unknown oil on the sidewalk. No further info.

DEC Investigator Remarks:

DECPiper responded to site as per conversation with 3rd party caller. upon arrival oil was observed in a 20’ x 30’ swath across sidewalk into street. Free phase puddles of oil were observed along ther curbside along with ice/ snow.
I spoke with Rick at stuyvesant regarding the spill. he stated Manager was there during delivery and spill and stated they will report and clean. Stuyvesant left scene. I spoke with Rotem of Perseus capital he stated it was cleaned. i informed him that I was there and that it wasn’t. He said he would call stuyvesant and get back to me.
I spoke with Rick again. He said super cleaned it with a hose. Rick said they are going to meet with Rotem.

Referred to Legal.

Spill closed though legal case still open. no further action required for cleanup.

Map Identification Number 241 **1972,74 CEDAR AVENUE. / B** **Spill Number: 8701256** **Close Date: 03/13/2003**
1972,74 CEDAR AVENUE. NEW YORK CITY, NY TT−Id: 520A−0011−399

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2521 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: 1972 CEDAR AVENUE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Fire Department
Caller Name:
DEC Investigator: BATTISTA
Spiller: UNKNOWN @ MR./MRS.JACKSON
Notifier Name:
Caller Agency:
Contact for more spill info:
Spiller Phone: (212) 731−5197
Notifier Phone:
Caller Phone:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/13/1987		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	GROUNDWATER

Caller Remarks:

OIL LIKE SUBSTANCE COMING OUT OF THE GROUND BEHIND 1974 CEDAR AVENUE.FIRE DEPARTMENT CANNOT FIND THE SOURCE.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

/ / : DEC WILL INVESTIGATE.

10/10/95: This is additional information about material spilled from the translation of the old spill file: UNKNOWN OIL.

Map Identification Number 242 **SHERMAN AVE/DECKMAN AVE** **Spill Number: 0905761** **Close Date: 08/18/2009**
SHERMAN AVE/DECKMAN AVE MANHATTEN, NY TT−Id: 520A−0233−089

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2534 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: SHERMAN AVE / DYCKMAN ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL VEHICLE
Spiller: HAROON ASALM − NYC TRANSIT
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: smsanges
Contact for more spill info: HAROON ASALM
Contact Person Phone: (656) 252−5777

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/17/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
ANTIFREEZE	OTHER	5.00	GALLONS	0.00	GALLONS	

Caller Remarks:

BUS LEAKED FLUID ONTO ROAD. CLEAN UP COMPLETE

DEC Investigator Remarks:

anti freeze − cleanup completed by Bus Company

Map Identification Number 243 **MANHOLE 46120** **Spill Number: 0204091** **Close Date: 11/04/2002**
SHERMAN AV/DYCKMAN ST MANHATTAN, NY TT−Id: 520A−0090−778

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2534 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	PELLEGRINO	Notifier Phone:	
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	KMFOLEY	Contact for more spill info:	BILL MURPHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/19/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 PINTS OF MATERIAL IS POSSIBLY A GREASE − CON ED 144049 − SAMPLE TAKEN CLEAN UP PENDING RESULTS

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
Con Ed e2mis #144049:

7/19/02 09:30 hrs.

Mike Demodna #19654, Underground North Supervisor, reported at 09:11 hrs. that Dave Perez #15489, Underground North found at 08:50 hrs. approx. 2 pints unknown substance on top of approx. 15 gallons water in manhole M46120 located at the north east corner of Sherman Ave & Dyckman Street. Mr. Demodna stated that the substance looks like grease − it's more solid than liquid and it's floating on top of the water. The Underground North was at this manhole to do maintenance (a "Cut & Rack") when they discovered the spill. The source and cause of the spill is unknown. Account No. is 16152. There was no fire or smole involved. There is no evidence of release to sewer or waterway. No private property was affected. No injuries were related to the spill and no weather conditions contributed to the hazards of the spill. There is oil filled equipment in the structure − primary & secondary cables. There was standing water but no visual movement. A sewer connection and concrete sump cannot be verified. There is no sump pump and no substantial cracks. Spill tag #17587 was installed. Two liquid / solid samples will be taken by Dave Perez #15489 for PCB and Oil ID on a priority "E" basis. Chain of Custody #AA23216 was issued. No initial cleanup action was taken. Cleanup is pending sample results. This incident does not meet the 24 hr spill criteria since it is an "unknown substance".

7/19/02 16:33 Received lab results, lab sequence # 02−06680−001

Analysis indicates the presence of a substance similar to a dielectric fluid.

07/19/02 20:27 Received lab results, lab sequence # 02−06677−001

Aroclor 1260 < 1.0 ppm.

UPDATE 1158 HRS 07/24/02

Double wash walls & floor with slix, Removed tag #17587

Map Identification Number 244 **218TH ST QUTFALL** **Spill Number: 8600099** **Close Date: 04/04/1986**
218TH ST. & 9TH AVE. NEW YORK CITY, NY TT−Id: 520A−0101−646

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2544 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: W 218TH ST / 9TH AVE
Revised zip code: UNKNOWN

Source of Spill: UNKNOWN Spiller: Spiller Phone:
Notifier Type: Federal Government Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: UNASSIGNED Contact for more spill info: Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/1986	04/04/1986	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	55.00	GALLONS	0.00	GALLONS	SURFACE WATER

Caller Remarks:

MOST HAS DISSIPATED WITH TIDE−MOTOR OIL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "

Map Identification Number 245 **BACK YARD** **Spill Number: 1307030** **Close Date: 10/07/2013**
1970 CEDAR AVE BRONX, NY TT−Id: 520A−0293−172

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2545 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name:
DEC Investigator: HRPATEL

Spiller: EPSILINA − UNKNOWN
Notifier Name:
Caller Agency:
Contact for more spill info: EPSILINA

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (718) 901−4310

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/05/2013		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

10/05/13−Hiralkumar Patel.
7:10 PM:− spoke with Ms. Brissett (off: 212−736−5000). she mentioned that contractor, working for 1985 Sedwick Ave, has left excavation open in backyard in her property. they also left a drum in front of her property. she claimed that she does not get project updates and asked for it. informed her that DEC Piper, who manages spill cleanup (1202211), will call her back on 10/07/13.

case closed. refer to spill #: 1202211.

Map Identification Number 246 **2548 BAILEY AVENUE** **Spill Number: 9416663** **Close Date: 11/22/1996**
2548 BAILEY AVENUE BRONX, NY TT−Id: 520A−0011−577

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2567 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	THERESA MCMAUS	Caller Agency:	SELF	Caller Phone:	(718) 933−5771
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/08/1995		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN HAZARDOUS MATERIAL	HAZARDOUS MATERIAL	0	POUNDS	0	POUNDS	AIR
UNKNOWN PETROLEUM	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	AIR

Caller Remarks:

WALKING IN HER HOUSE, SHE HAS A STRANGE ODOR IN HOUSE. NOT FUEL OIL SMELL. WOULD LIKE A FOLLOW−UP, IT HAS BEEN LIKE THIS FOR TWO WEEKS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
unfounded.

Map Identification Number 247 **MAN HOLE** **Spill Number: 9713077** **Close Date: 08/18/2009**
IFO 2291 UNIVERSITY AVE BRONX, NY TT−Id: 520A−0011−396

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2580 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	BILL MURPHY − CON EDISON	Spiller Phone:	(212) 580−6763
Notifier Type:	Federal Government	Notifier Name:	NATION REPONCE CENTER	Notifier Phone:	(800) 424−8802
Caller Name:	CHRIS WILLIAMMEE	Caller Agency:	US COAST GUARD	Caller Phone:	(718) 354−4136
DEC Investigator:	JMKRIMGO	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/23/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	3.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

CON EDISON FOUND OIL IN MAN HOLE THERE IS A DRAIN IN THE MAN HOLE THAT LEADS TO SEWER CLEAN UP CREW IS ENROUTE TO SCENE

DEC Investigator Remarks:

08/18/09 − See eDocs for Con Ed report detailing cleanup and closure.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
FAX TO DEP 4PM

Map Identification Number 248 **MANHOLE 11894** **Spill Number: 9713073** **Close Date: 02/12/2003**
IFO 2291 UNIVERSITY AVE BRONX, NY TT−Id: 520A−0011−397

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2580 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	BILL MURPHY	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	BILL MURPHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/23/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	3.00	GALLONS	0.00	GALLONS	GROUNDWATER
The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
OTHER PETROLEUM	UNKNOWN	3.00	GALLONS	0.00	GALLONS	

Caller Remarks:

CON ED DISCOVERED A FUEL IN THIER MANHOLE.THAT WAS DISCOVERED AT 1440 HOURS.THERE IS A DRAIN AT THE BOTTOM ALSO AND THAT LEADS TO THE SEWER .UNKNOWN HOW THE FUEL OIL GOT INTO THE MANHOLE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
UPDATE FROM CO ED 4PM−THAT SEWER LEADS TO WARDS ISLAND T.P.

FAX TO DEP.

2/23/98: Paul Carbone, Con Ed ERT − sample was collected for ID, PCB analysis.

2/25/98: Paul Carbone faxed analysis results − PCB <2 ppm, oil ID'd as "light fuel oil".

3/21/98: E−mail from Angel Chang, Con Ed − Oil is still seeping into the manhole. The oil seems to be seeping from a buried fuel tank in a nearby building. Sewer connection in manhole was plugged (Albert Gordon, DEP contact). Manhole remains tagged until it can be cleaned by vendor.

UNDERGROUND OS T.CURETON, EMPLOYEE #80955, REPORTED TO SOAX A.BUCCI THAT APPROX 3 GALLONS OF FUEL WERE FOUND IN THE SUMP

IN MANHOLE 11894 UNIVERSITY AVE IN THE BRONX.

1440 HRS OS T. CUREON REPORTS THAT THE C&D PLATE SHOWS THERE IS A SEWER CONNECTION IN THE SUMP, MR CURETON BELIEVES AN UNKNOWN

AMOUNT OF THE FUEL MAY HAVE BEEN RELEASED TO THE SEWER SYSTEM. THIS IS A GRAVITY DRAIN, AND HE BELIEVES THE FUEL IN THE

SUMP IS AT THE MINIMUM LEVEL AFTER HAVING TRIGGERED A RELEASE.

MR. CURETON STATES THERE IS A PROBLEM IN THIS AREA WITH FUEL OIL IN THE GROUND, POSSIBLY FROM AN UNDERGROUND TANK. HE

THINKS THE AGENCIES SHOULD BE INVOLVED TO FIND OUT THE SOURCE.

TWO QUART SAMPLES WERE TAKEN FOR PCB, FLASHPOINT AND ID.

THE CLEANUP IS PENDING SAMPLE RESULTS.

THE DRAIN WILL BE PLUGGED UP.

1448 HRS CIG MURPHY NOTIFIED.

ENV P. CARBONE REPORTS THAT AS PER A.GORDON, DEP CONTACT, THE SEWER IS A COMBINED SEWER THAT GOES TO THE WARDS WOOD ISLAND TREATMENT PLANT. THE COAST GUARD WAS NOTIFIED OF THIS FACT, AS THEY HAD REQUESTED THIS INFORMATION.

THE DEC ASKED TO BE INFORMED WHEN LAB RESULTS COME BACK.

A.GORDON, DEP, INFORMED ENV. CARBONE THAT HE WOULD BE VISITING THE LOCATION.

BECAUSE THERE IS A SMELL OF #2 FUEL, NOT KEROSENE OR GASOLINE, THE SUBSTANCE WILL BE PUMPED INTO A DRUM, MANIFESTED AND TRANSPORTED BY ASTORIA TRANSPORTATION. THE SUMP WILL BE FLUSHED, AND THE DRAIN WILL BE PLUGGED.

2130 HRS THE SEWER DRAIN WAS SEALED WITH CEMENT BY OS NEVIN. SOME OILY SLUDGE FROM THE SUMP WAS MOVED TO THE SIDE, BUT REMAINS IN THE MANHOLE. THE TAG WAS LEFT IN PLACE.

E. DE LA HOZ 79237

−001 SAMPLE TYPE: SLUDGE None <1.0 PPM

Location: F/O 2291 UNIVERSITY AVE S/O FORDHAM RD

Equipment: MH 11894

Test Result Units

Flash Point >160 Deg. F

==========19−MAR−98

DEC INQUIRED ABOUT INCIDENT STATUS THROUGH ENV A.CHANG.

THE MANHOLE WILL BE CLEANED AND SEALED PENDING VENDOR CONTRACT. THE DRAIN HAS BEEN SEALED.

22−JUN−1998

REVALT, MANHOLE SEALING CONTRACTOR, STARTED WORK AT THIS LOCATION TODAY. PROCESS EXPECTED TO TAKE 2−3 DAYS.

JUNE 22, 1998 1st STEP OF MH SEALING STARTED.....NM

06−JUL−1998

CLEANUP COMPLETED. REVALT SEALING COMPLETED. TAG REMOVED.
CLEANUP TIME CORRECTED TO 18:15 HRS.

Map Identification Number 249 **57 PARK TERR WEST** **Spill Number: 9906115** **Close Date: 02/29/2008**
57 PARK TERR WEST MANHATTAN, NY TT−Id: 520A−0098−149

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2596 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	FRANK	Spiller Phone:	(212) 942−0368
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	RENEE LEWIS	Caller Agency:	AL EASTMAN TANK CLEANERS	Caller Phone:	(718) 378−7000
DEC Investigator:	HRPATEL	Contact for more spill info:	FRANK	Contact Person Phone:	(212) 942−0368

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/22/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	1000	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALL CAME A MISPLACEMENT OF OIL IN A 5000 GAL TANK. WHEN TANK WAS CLEANED 1000 GAL MISSING. SOME OIL ON FLOOR BENEATH TANK. NO HOLES SEEN IN TANK.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
8/22/99

Spoke to Renee of AL Eastmond.

8/19/99 AL Eastmond performed routine cleaning of tank, no leaks or holes noted.

Recovered 4000 gallons of oil, but 1000 gallons missing.

Piping A/G, oil coming from tank.

Tank in enclosed tank room.

Supervisor on site two 275 temp tanks on site today.

01/26/04: Reassigned from Rommel to Austin
02/17/04: Reassigned from AUSTIN to KRIMGOLD.
12/19/05: Reassigned from Krimgold to Dunham.
12/30/05: Letter sent requesting information.

Albany review (above) − mddunham

1/29/07 − Austin − Transferred from Albany assignment to Patel in R−2 office for further work − end

06/06/07−Hiralkumar Patel. visited site. met Imer Rugova (212−304−1305), building super. he is working at site for about two years. he mentioned that management changed tank system before he started working at site.

PBS #: 2−362557. site has 5000 gal AST on legs. PBS record shows use of diesel, but site is using #6 oil. from PBS record, old tank was replaced in Feb. 2000.

left message for Mr. Yablonski, property manager.

Jay Yablonsky, property manager
Wavecrest Managment Ltd.
129−09 26th Avenue
Flushing, NY 11354
Ph. (718) 463−1200 Ext. 3749

06/11/07−Hiralkumar Patel. left message for Mr. Yablonsky.
06/12/07−Hiralkumar Patel. received message from Mr. Yablonsky. left message for Mr. Yablonski.
06/13/07−Hiralkumar Patel. spoke with Mr. Yablonsky. he will check for report and will send, if any found.

07/09/07−Hiralkumar Patel. left message for Mr. Yablonsky.
07/25/07−Hiralkumar Patel. left message for Mr. Yablonsky.

08/14/07−Hiralkumar Patel. received message from Mr. Yablonsky on 07/25/07.
08/27/07−Hiralkumar Patel. left message for Mr. Yablonsky.
10/11/07−Hiralkumar Patel. left message for Mr. Yablonsky.
11/19/07−Hiralkumar Patel. sent letter (via certified mail) to Mr. Yablonsky requiring document submission.

PBS registration expired. sent property information to DEC Jacob and Brian.

12/19/07−Hiralkumar Patel. letter sent to Mr. Yablonsky came back undelievered. spoke to receptionist at Mr. Yablonsky's office. they have moved to new location.

Jay Yablonsky **property manager**
Wavecrest Managment Ltd.
87−14 116th street
Richmond Hill, NY 11418
Ph. (718) 463−1200 Ext. 3749
Fax (718) 850−2798
email: jyablonsky@twmt.net

from property shark, property owner is:

57 Park Terr W Owners
11 Balint Dr
Yonkers NY 10710−3942

12/20/07−Hiralkumar Patel. sent letter to Mr. Yablonsky at new address. letter faxed to Mr. Yablonsky.

01/31/08−Hiralkumar Patel. left message for Mr. Yablonsky.

found PBS registration updated.

02/04/08−Hiralkumar Patel. received message from Mr. Yablonsky. left message for Mr. Yablonsky.
received call from Mr. Yablonsky. Leardon Boiler (212−734−2050) worked on−site and remove some contaminated soil. AL Eastmond replaced tank. asked Mr. Yablonsky to submit all available documents regarding oil spill investigation and cleanup.

02/05/08−Hiralkumar Patel. received email from Mr. Yablonsky including contract copy with Leardon boiler, invoices from boiler company and tank removal affidavit. as per invoices, boiler company removed about 88 drums (could be more) of contaminated soil/debris. no other documents. no information from where this soil removed, how deep excavation was or location of samples. boiler company took five samples. no site map.

spoke with Chas Slotterback at Leardon boilers. he will check records and will send if finds anything. sent email to Jimmy (jimmy@leardonboilerworks.com) at boiler company with documents which were received from Mr. Yablonsky.

Chas Slotterback
Leardon Boiler Works, INc.

Ph. (212) 734−2050
Fax (718) 585−5315

left message to Mr. Yablonsky to submit any other documents.

02/26/08−Hiralkumar Patel. received fax from Rene including sampling locations. spoke with Rene. as never received any other documents, asked Rene to explain this sampling plan. he mentioend that Eastmond responded for cleanup after spill in 1999. old tank was partially buried in ground. they removed tank and contaminated soil from site. they dug entire tank room vault floor to about two and haft feet and took 12 endpoint samples. at end, they constructed new concrete at same excavation depth and put new totally aboveground tank on new floor. so as per Rene, new tank vault floor is about 15−18 inches below old tank vault floor. asked Rene to submit sample analyticals and disposal manifests.

received fax from Isaac with sample analyticals and disposal manifest. as per disposal manifest, they removed 88 drums of contaminated material. no contamination found in any of five samples. fax only contains analyticals for five samples, but as per Rene they took 12 samples. spoke with Rene and asked him to submit missing documents.

left message for Isaac to submit missing analytical tables and chain of custody for those samples.

02/29/08−Hiralkumar Patel. received call from Rene. he mentioned that there were only five (not twelve) endpoint samples were taken during cleanup. Rene wasn't present during cleanup and just sent site map with some verbal informations.

discussed with DEC Austin. based on submitted documents, Randy suggested to close the case.

case closed.

Map Identification Number 250 **APARTMENT BUILDING** **Spill Number: 0606857** **Close Date: 05/21/2008**
95 PARK TERRACE EAST NEW YORK, NY TT−Id: 520A−0098−148

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2602 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	JEREMY − APARTMENT	Spiller Phone:	(212) 567−8415
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	rvketani	Contact for more spill info:	JEREMY	Contact Person Phone:	(212) 567−8415

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/14/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	300.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

DURING TANK CLEANING SUPER FOUND SPILL , IS CONTAINED IN TANK ROOM: CLEAN UP COMPANY CAME IN AND CLEANED WHAT THEY COULD UP

DEC Investigator Remarks:

9/14/2006 Sangesland spoke to Rene from Eastmond.
"Mac Boiler" was hired to clean the tank on Monday (9/11). On Wednesday evening (9/13) the super saw some leakage under the tank.
Eastmond says they came on Wednesday and found some leakage onto the floor of the boiler room (originally called in as 300 gal,
Eastmond lowered this to approx 100gal all contained)
Eastmond saw corrosion on the outside of the tank and was going to drain the tank. They will set up a temp tank and do a cleanup.

9/19/2006 City DEP called today to say they were called to the site to investigate a spill. When they arrived they did NOT see any spill. They did see a temporary fuel oil storage tank in front of the building and they called DEC to confirm if we knew about it.

8/3/07 − Austin − Transferred from Vought to Ketani for further review and action − end

8/20/07 − Raphael Ketani. I spoke to Rene Lewis of A.L. Eastmond (718) 378−3000 regarding the spill. He said that it was all cleaned up and the old tank was removed and a new tank installed. He said that all he has to do is send the paperwork (manifests, etc.).

The PBS case is #2−338737 and shows a 3000 gal. above ground tank (in contact with the ground)that is in service with #6 oil. I left a message for Rene Lewis that the old tank has to be shown as removed and the new tank as installed.

10/12/07 − Raphael Ketani. I checked the PBS database. The old tank is still listed as in service. I tried to contact Mr. Lewis, but could only leave a message.

12/3/07 − Raphael Ketani. I tried to contact Rene about the cleanup, paperwork and tank registration, but could only leave a message.

I checked the PBS. The 3000 gal. tank is still listed as in service.

12/12/07 − Raphael Ketani. There has been no response from A.L. Eastmond, nor the owners of the property. Therefore, I sent a CSL

to the management company rep. This is Nancy Rodriguez, Interboro Holding Corp., 141 Halstead Avenue, Mamaroneck, NY, 10543, (914) 813−1956, FAX (914) 813−1960.

12/20/07 − Raphael Ketani. Ms. Rodriguez called to say that Eastmond has been paid the great majority of the money for the work. She said she contacted Isaac before and had asked him to send DEC the paperwork for the cleanup. I told her that DEC hasn't received anything. She said she will give him another call. I also told her that the PBS registration isn't corrrect. That the old tank should be listed as closed and removed and the new tank as installed. She said she will talk to Isaac about this.

1/3/08 − Raphael Ketani. I tried to reach Ms. Rodriguez, but could only leave a message regarding the PBS revision and documentation for the cleanup from Eastmond.

I left a message for Rene Louis regarding the cleanup documentation.

1/7/08 − Raphael Ketani. I tried to contact Ms. Rodriguez and Isaac of Eastmond (718) 378−3000, but could only leave messages.

1/9/08 − Raphael Ketani. I tried to contact Ms. Rodriguez (914) 813−1956, but could only leave a voice mail. I tried to reach Isaac of Eastmond, but he never picked up the phone even though I was told he was in.

1/10/07 − Raphael Ketani. Ms. Rodriguez called to say that she sent a certified letter to Eastmond monday requesting the cleanup documentation and that Eastmond take care of the PBS registration changes. She said she has had no response from Eastmond despite leaving many messages.

I received the FAXed copy of the letter Ms. Rodriguez had sent to Eastmond requesting submittal of the cleanup documentation and correction of the PBS registration.

2/13/08 − Raphael Ketani. I tried to reach Ms. Rodriguez, but could only leave a message. I spoke to Isaac of Eastmond and asked him where things stood with the remediation. He said that he is still swamped as a result of Rene leaving and he will have to get back to me.

I checked the PBS registration. The 3000 gal. tank is still listed as in service and there are no other listings of tanks.

4/2/08 − Raphael Ketani. I tried to reach Ms. Rodriguez (914) 813−1956, but could only leave a message. I tried to reach Isaac Mungra (718) 378−3000, but could only leave a message.

4/4/08 − Raphael Ketani. I sent a CSL out to Ms. Rodriguez with strong language indicating that 95 Park Terrace East Owners, Inc. were in violation of the NAV Law, sections 173 and 176, and in violation of 6NYCRR Part 612.2 and 613.9. I added that the violations can and may be subject to penalties and legal action. I also warned that DEC will take legal action if the remediation report is not received by April 24.

4/10/08 − Raphael Ketani. Isaac Mungra of Eastmond called me and said that he is working on the report for the site. He said I should receive it by 4/14/08.

4/16/08 − Raphael Ketani. Ms. Rodriguez (914) 813−1956 called to ask whether Mr. Mungra had contacted me about the report. I told he had called me on 4/10/08 and said that DEC would get the report by 4/14. I told her he is 3 days late. She said she will have

her attorney send another letter to him requesting the report.

4/24/08 − Raphael Ketani. I tried to reach Isaac and Ms. Rodriguez, but could only leave voice mails.

4/29/08 − Raphael Ketani. Mr. Mungra called. He said that he was working on the PBS registration and that DEC should receive the report for the work that was done by this friday, 5/2/08.

4/30/08 − Raphael Ketani. Joannie Welasky, Esq. (212) 421−6565 called. She said she is the attorney for the Board of Directors of the condo. She said that she hasn't heard anything from Mr. Mungra in awhile. I told her that Mr. Mungra called me yesterday and he said that he will get me the report by this friday.

5/20/08 − Raphael Ketani. Ms. Welasky left a message inquiring whether DEC had ever received a report from Mr. Mungra. I returned her call, but could only leave a message that I had tried on numberous occasions to get Mr. Mungra to send the report with no success. I recommended that her client find another remediation company to do the work and generate a cleanup report.

5/21/08 − Raphael Ketani. I checked the PBS registration. It still shows only the old tank that was installed in 1907 as in servcie.

I received the Closure Report dated 4/28/08 from Eastmond & Sons. It contained manifests for contaminated soil that was removed, a plan showing the layout of the boiler room and the tank room with the new tank, and a copy of a PBS Application for listing the old tank as removed and the new tank as installed.

I called up Ms. Welasky and told her that DEC had received the closure report, but that the PBS registration was still inaccurate. I told her that Ms. Rodriguez had signed the original form on 4/4/30/08, but the new information isn't showing up in the databse. I added that DEC can't close the spill case until the PBS case is straightened out. She said she will talk to Nick Lombardo of the PBS Unit and try to fix the problem.

Ms. Welasky called back and said that Mr. Lombardo had fixed the PBS registration. I checked the registration and it lists the tanks properly with their proper status and disposition.

As the Closure Report was found to be acceptable, the contaminated soil has been removed, and the PBS registration is correct, I am closing the spill case.

Map Identification Number 251 **MANHOLE 28174** **Spill Number: 0402193** **Close Date: 09/28/2004**
CUMMINS ST/ BROADWAY MANHATTAN, NY TT−Id: 520A−0098−358

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2625 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: CUMMING ST / BROADWAY
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	ANDREW MORRIS	Notifier Phone:	(212) 580−6763
Caller Name:	ANDREW MORRIS	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	SKARAKHA	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/26/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

2 pints of unknown oil spilled in a manhole. Spill was on the 24 hour de minis program. Taken off due to inability of crews to perform cleanup.

DEC Investigator Remarks:

e2mis no 153586

approx. 2 pints of unknown oil in M28174. The soucre and the cause of the spill is unknown at this time. There were no sewer or waterways affected. There is no sewer connection, but there is a concrete sump. There were two samples taken, one for PCBs and one for ID. C.Hartage#18363 put absorbent pads down in M28174. The cleanup is pending crews.

Lab Sequence Number: 04−04117−001: TOTAL PCB: 370 ppm

Lab Sequence Number: 04−04121−001: Analysis indicates the presence of a substance similar to a dielectric fluid.

5/28/04 14:38 M. Melendez # 11285 underground/cleanup supervisor called to report that the cleanup was completed at 14:25. The structure was double washed with slix.

Map Identification Number 252 **MANHOLE #415** **Spill Number: 9808855** **Close Date: 11/14/2003**
BROADWAY & 218TH ST MANHATTAN, NY TT−Id: 520A−0102−090

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2626 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: BROADWAY / W 218TH ST
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON ED	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	MS MCQUEEN	Notifier Phone:	(718) 204−4478
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

MANHOLE FEEDER 99031. SAMPLES OF PCB'S TAKEN.

CON ED #120564.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis 120564

On October 16, 1998, approx 09:30, P Santiago, 50331, Splicer and S Campo, 00262, Mech A was going for a reading in manhole 415, feeder 99031 when 10 gallons of oil and 1100 gallons of water was discovered. No injuries or outside impact. No sewer or waterway affected. All contained in manhole. Treating oil as 50−

499ppm. Chem Lab was called at 10:50 to make arrangements for samples to be taken. Clean−up will be scheduled within 48 hours. Called CIG and spoke with B Murphy, 76378 at 11:04am.

Entered by: E McQueen, 45223.

Dept/Facility

SMALL OIL SPILL Con Edison Incident No. _120564_____

CLEANUP CHECKLIST NYSDEC Spill No. __N/A_____

Name of person completing checklist: G HIGGINS, 94816, SUPERVISOR

Con Edison Operating Department responsible for spill cleanup: TRAN OPS/LPC

(1) A small oil spill is a spill of oil containing less than 50 ppm PCBs that does not meet the criteria for a de minimis spill and satisfies either of the following

conditions:

? It is totally contained in an impervious structure, such as a manhole, vault, or moat, or

? It meets all of the following criteria:

− No sewer or waterway is affected, and

− No private property is affected, and

− No personal injuries are involved, and

− Cleanup is completed within 72 hours of the spill discovery, and

− Less than 50 gallons of oil, petroleum product of any kind, or dielectric fluid is spilled.

(2) Material spilled/discovered:

0 Oil (type); PCB concentration: less than 50 ppm; known / unknown.

0 Dielectric fluid; PCB concentration: less than 50 ppm; known / unknown.

If unknown PCB concentration, was sample collected? 0 Yes 0 No

(3) Sample submitted for analysis? X Yes Sample ID No.: 98−11185 0 No

For what parameters? 0 PCB 0 Benzene 0 Other Parameters

Copy of chain of custody form attached? 0 Yes 0 No

(4) Amount spilled/discovered: 10 GAL If leak/spill is continuing, rate

(5) When was spill discovered? Date10/16/98 Time 09:30

(6) Location of spill. (Be as precise as possible. Include cross streets, manhole numbers, equipment box numbers, etc., as appropriate.)

MANHOLE 415

BROADWAY & W 218TH STREET

0 Sketch attached

(7) Source/cause of spill. (Be as precise as possible. Include equipment numbers, if possible.)

NONE

0 Unknown

(8) Description of area affected by spill (include dimensions as appropriate)

MANHOLE 415 − OLD OIL

(9) Containment/Cleanup Activities (per GEI 2.11, 2.13, 2.16, 3.2, or 3.3) 0 Sketches attached.

0 Tightened valve.

0 Placed drip plan.

0 Sealed leak.

0 Blocked nearby sewers/drains with spill kits.

0 Removed/recovered liquid/solids.

0 Used absorbents to remove residual fluids.

0 Removed contaminated vegetation.

0 Removed visible traces of oil.

0 Washed stained areas.

0 Excavated contaminated soil, bluestone.

X Other: PUMPED MANHOLE − MADE INSPECTION OF MANHOLE, FOUND NO OIL LEAK

0 See attached contractor report.

(10) Identify who performed cleanup:

0 Con Edison personnel/department? G HIGGINS, SUPERVISOR, 94816

0 Name of contractor

0 Contractor report attached.

(11) Cleanup completed on Date 10/17/98 Time* 15:00

*Note: If the cleanup is completed more than 72 hours after the spill was discovered, the spill is a large oil spill.

(12) Con Edison personnel directing cleanup

Map Identification Number 253 **NYCSCA − PUBLIC SCHOOL #5** **Spill Number: 9005185** **Close Date: 06/26/2013**
3703 10TH AVENUE NEW YORK, NY TT−Id: 520A−0091−765

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2627 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	NYC BOARD OF EDUCATION	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	DENISE MAY	Caller Agency:	TRC ENVIRONMENTAL	Caller Phone:	(203) 289−8631
DEC Investigator:	AXDORONO	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
08/09/1990		UNKNOWN	2−600251	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information

UNKNOWN PETROLEUM	UNKNOWN	10.00	GALLONS	0.00	GALLONS

Caller Remarks:

550 GAL TANKS TO BE REMOVED, TANK TO BE PUMPED CLEAN, CONTAMINATED SOIL TO BE REMOVED & TESTED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
PBS registration indicates that 12 x 550 gasoline tanks were removed on March 1, 1990.

This spill case was reassigned from DEC Sigona to Rommel on May 3, 2004.

10/14/04 Reassigned from Rommel to Sun.

12/16/2005 − Feng − Reassigned from Sun to Feng as per Sun. (RJF)

2/27/07: Reassigned to Chanda.

3/2/07: Kartik Chanda of DEC reviewed all documents regarding this spill case.On 3/2/07, Chanda sent an old spill letter to RP (James Merlo), Board of Education, requiring that an investigation report or USTs closure report be submitted to DEC for review by 4/3/07.

4/2/07: Chanda received a letter from James Merlo, NYC Department of Education and has the follwing comments:
He stated that the USTs removal were performed in preparation of the site for the construction of Public School 5−Manhattan. The gasoline tanks were existing prior to construction and were never part of the NYC school facility. The site was previously a gasoline service station. He is suggested to contact the NYC School construction Authority for any further information.

4/4/07: Chanda sent a letter to Ms. Lee Guterman, NYCSCA, requiring that a tank closure assessment reports be submitted to DEC for review by 5/18/07.

5/23/07: Chanda received a letter from Ms. Lee Guterman, NYCSCA regarding time extension to submit USTs closure report. She requested to extend the dadeline until August 15, 2007.

5/24/07: Chanda sent the time extension approval letter to Lee Guterman, NYCSCA by certified mail. A subsurface investigation report and tank closure reports are submitted to DEC for review by August 15, 2007.

9/6/07: Chanda received an Environmental Investigation Site Remediation and Closure report from NYCSCA prepared by TRC Environmental Consultant, Inc. dated July 17, 1990.

This Report included the following documents:
1. Phase I−Initial site Characterization (Review of Available Historical Data, Soil Gas Survey)
2. Phase II− Detail Site Characterization(Soil Borings, lithology, GW flow regime)

3. Phase III−Data Interpretation(Soil and GW Samples Analyses)
4. Phase IV−Site Remediation Activities nad Site Closure(USTs removal, Soil and GW samples collection and analysis, Gas Station Closure, Affected soil remediation, Soil excavation nad removal,Potential Remedial Response,Discussion and Conclutions)

2/14/08: Chanda has reviewed the Environmental Investigation Site Remediation and Closure Report and has the following comments:

* Three areas of concern were identified as requiring remediation as a result of subsurface investigation conducted on the site between April 1988 and March 1989. They are the abandoned gasoline station, the bus maintenance garage, and the on site subsurface soils.

* On November 15, 1988, soil gas was sampled on a 50−foot grid spacing across the site using a Century Model 128 Organic Vapor Analyzer (OVA), calibrated to benzene. Overall, the result seemed to indicate that the site has not been impacted by volatile organic compound contamination, and that most readings represent background levels of contaminations.

* Between November 29, 1988 and February 1, 1989, Hydro Group, Inc., was advanced thirteen (13) soil borings across the Sherman Creek Site. Four of the borings were converted into groundwater monitoring wells on August 12, 1988. Trichloroethylene (TCE) was detected at 19 ppb in the subsurface sample at MW−4 and VOCs were detected at very low concentrations in soil samples across the site. SVOCs associated with the coal cinders, ash and asphalt fragment in the fill are present throughout the site at total concentrations of up to 97 ppm. Groundwater laboratory results indicated only 1,1,1−tricloroethane at concentration up to the detection limit of 5 ppb.

* On March 5, 1990, approximately 1400 gallons of a gasoline water mixture from the twelve USTs were removed at the site;

* The removal and disposal of twelve (12) 550−gallon gasoline USTs and replace with clean fills;

* The removal of gasoline affected soils in the vicinity of the USTs;

* The collection of sixteen (16) soil samples from the tank excavation area (samples TP−1 through TP−6 and TG−7 through TG−16); The samples were analyzed for the EPA Method 8240 and 8270. No VOCs were detected in soil samples but several SVOCs were detected, not typically related to gasoline.

* The installation of a groundwater monitoring well (MW−6) adjacent to the tank excavation area, and collection of a groundwater sample from MW−6. The sampling indicated that neither floating product nor VOCs typically associated with gasoline (BTEX) were detected in the groundwater at this location.

* Bas maintenance garage remediation: (1) affected soils' remediation, (2) Collected five post excavation soil samples from this location. No VOCs were detected in soil samples but several SVOCs were detected in the soil samples.

Potential Remedial Response: Several potential remedial responses are available for protecting the proposed school from the level of TCE in the subsurface soil gas:

1) Active soil vapor extraction (utilize vacuum pump);
2) Passive soil vapor venting (wind−activated turbine vents);
3) Vapor barrier design (vapor barrier mat);

4) Source removal: TCE was found in the soils as deep as 19 feet below grade, therefore, source removal would consist of removing the soils beneath the school area to at least this depth.

* TRC Environmental Consultants, Inc., recommended that the trichloroethylene (TCE) and the total VOCs in the school's indoor air be assessed after school construction is completed to verify the assessment of the vapor transport potential and the actual vapor barrier efficiency.

3/5/08: Chanda sent a letter to Ms. Lee Guterman, NYCSCA, requiring that an indoor air investigation report be submitted to the department by 4/18/08 for review.

5/9/08: Chanda received a Sub−Slab Soil Vapor Investigation Proposal from NYCSCA prepared by Dvirka and Bartilucci Consulting Engineers (D&B) dated April 29, 2008.

6/4/08: Chanda has reviewed the Sub−Slab Soil Vapor Investigation work plan prepared by Dvirka & Bartilucci Consulting Engineers (D&B) dated April 29, 2008. The Soil Vapor work plan proposed to install six (6) soil vapor sampling points inside the existing building (first floor and basement) area. The work plan also, proposed the samples will be analyzed for VOCs by EPA Method TO−15.

6/6/08: The DER staff approves the Soil Vapor Investigation Work Plan. Chanda sent an approval letter to Ms. Lee Guterman and her consultant (D&B), requiring that an investigation summary report be submitted to DEC by 8/6/08 for review and approval.

9/22/08:9/22/08: Chanda received a Sub−Slab Soil Vapor Investigation report prepared by Dvirka and Bartilucci Consulting Engineers, dated 9/12/08. Chanda has reviewed the Sub−Slab Soil Vapor Investigation Report and has the following:

* Total of six sub−slab soil vapor samples were collected for laboratory analysis via TO−15 method for the 27 petroleum and solvent−related constituents.

* SV−1 was collected at the lowest elevation (basement), SV−2 through SV−4 were collected at the highest elevation, and SV−5 and SV−6 were collected at an intermediary elevation. All locations were contact with soil.

* Total eleven VOCs were detected. Toluene was detected in all samples at concentrations ranging from 390 ug/m3 to 4,000 ug/m3.

* The detected Tetrachloroethene (PCE) concentrations ranged from 12 to 69 ug/m3.

* The detected Trichloroethene (TCE) concentrations ranged from ND to 1.5 ug/m3.

* Elevated concentrations of petroleum and chlorinated VOCs were encountered in sub−slab soil vapor beneath the site.

Based on the results of the Sub−Slab Soil Vapor Investigation, the RP's consultant (D&B) recommends air sampling at the Site.

10/29/08: A meeting was held on 10/21/08 among DER staff, the NYCSCA representative to discuss the Sub−Slab Soil Vapor Investigation Report and previous investigation reports for this site. The meeting's consensus was that further soil and groundwater investigation is required for this site. Chanda sent a letter to NYCSCA requiring that an investigation work plan for delineation of soil and groundwater contamination will be submitted to DEC by 12/30/08 for review and approval. (see eDocs)

05/13/2009: This spill case was transferred to A. Doronova. − AD

05/26/2009: Received a summary report from Fleming Lee Shue (FLS). Will review. AD

07/08/2009: Reviewed the summary report. It summarizes and evaluates results from all previous investigation and remediation work previously performed at the site. Based on the review, FLS states that the source of spill was removed through excavation; the result of post−excavation soil sampling (1990) indicated that levels of VOCs in soil were below NYS standards. Groundwater sampling also did not indicated elevated concentrations of petroleum compounds. Some SVOCs and metals were present in soil samples, although their presence can be attributed to urban fill historically used to grade the site. Post−excavation soil vapor sampling indicated the presence of the VOCs in soil vapors. Sub−slab soil vapor sampling and indoor air sampling performed in 2008 indicated that while VOCs are present in soil vapor beneath the building, the soil vapor intrusion pathway is not complete. Based on this data, FLS recommends NFA for the site. AD

07/17/2009: Discussed the site with J. Kolleeny of DER. AD

07/21/2009: J. Kolleeny and I discussed the site with V. Brevdo of DEC. The decision was − to contact DOH and get their opinion on the presented sub−slab soil vapor data. The report was sent to DOH for review. AD

07/27/2009: Received an e−mail from Charlotte M. Bethoney of DOH saying:

"Ainura and Jonathan,

I received the SVI data from Vadim, however, I will need a little more information about the sampling (i.e., duration, procedure, product inventory if taken, original site contaminants, etc.) Give me a call if you have any questions − (518) 402−7860.

−Charlotte"

Sent full report to DOH. AD

01/2012: V. Brevdo of DEC contacted DOH regarding their decision on the report. I was copied on the folowing DOH response from Dawn E. Hettrick:

"Dawn E. Hettrick 1/19/2012 4:37 PM

I'm going to be working on this. Charlotte had looked at the data and discussed it with someone, but I think due to staff juggling, the conclusion got lost in the shuffle. She recalls that based on the limited information we had that there was no problem. However, I am going to take a look at the data, too."

AD

02/22/2013: Spoke with V. Brevdo of DEC regarding this site. Vadim Brevdo issued an e−mail to DOH inquiring about status of the report review. AD

05/21/2013: Vadim Brevdo of DEC sent an e−mail to Dawn E. Hettrick remainding that DEC needs DOH's review of the subject report

with their findings / conclusions. AD

06/12/2013: Vadim Brevdo of DEC issued an e−mail to Dawn E. Hettrick regarding the status of the report. AD

06/21/2013: Received the following e−mail from Dawn E. Hettrick of DOH:

"I looked over the report and the data and discussed it with Joe. The levels found in indoor air are consistent with levels found in homes that are unaffected by soil vapor intrusion. In soil gas, toluene was detected up to 4000 mcg/m3. Although this level is higher than what we usually see in soil gas, it is unlikely to impact indoor air to a level that would necessitate mitigation. Therefore, no further action is needed.

Dawn E. Hettrick"

Will discuss a spill closure with J. kolleeny of DEC. AD

06/26/2013: Discussed the site with J. Kolleeny. Based on the data provided by SCA such as:

− 12 USTs removal;
− Excavation and removal of contaminated soil;
− post−excavation soil sampling data indicated that levels of VOCs in soil were below NYS standards;
− Groundwater sampling data did not indicated elevated concentrations of petroleum compounds;
− vapor barrier was constructed under the building;

and DOH’s review statement of Sub−Slab Soil Vapor Investigation Report that the levels found in indoor air are consistent with levels found in homes that are unaffected by soil vapor intrusion, it was decided to approve spill case closure for the site. Issued and sent an approval letter to L. Guterman of SCA. DL the letter to eDocs. Case closed. AD



CLOSED STATUS HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 254 **MANHOLE #40048** **Spill Number: 9903956** **Close Date: 01/30/2004**
207TH ST/9TH AVE MANHATTAN, NY TT−Id: 520A−0093−296

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 67 feet to the W*

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 9TH AVE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	STEPHEN CRIBBIN − MANHOLE #40048	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	STEPHEN CRIBBIN	Notifier Phone:	(212) 580−6763
Caller Name:	STEPHEN CRIBBIN	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:	STEPHEN CRIBBIN	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/06/1999		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

NO WATERWAYS AFFECTED−SAMPLE TAKEN−CLEAN UP PENDING RESULTS−

AND AVAILABILITY OF CREW. CON ED #126144

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis no. 126144:

Found spill approx 5 gal dielectric fluid from cable ends. Found sump, placed pads and diapers around sump. PCB Sample taken.

LAB SEQUENCE # 99−06999

AROCLOR − 1260 PCB 4. PPM

Cleanup completed on 7−18−99 at 0230 hours. 1−gallon oil removed with absorbants. Stain double washed.

Map Identification Number 255 **HESS CORP** **Spill Number: 1309515** **Close Date: 01/09/2014**
401 WEST 207TH ST NEW YORK, NY TT−Id: 520A−0293−379

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION Spiller: MIKE MATRI − HESS CORP Spiller Phone:
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: SXMAHAT Contact for more spill info: MIKE MATRI Contact Person Phone: (732) 841−1377

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/30/2013		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	5.00	GALLONS	0.00	GALLONS	

Caller Remarks:

leaking flex line beneath dispense, no sewers, contained and c/u pending

DEC Investigator Remarks:

12/30/13: Mahat

DEC contacted Mr. Mike Matri (Hess @ 732.841.1377) for more information about the spill. He informed that the leak has been stopped by disconnecting the dispenser. Maintenance team will fix the issue by the end of the business hour tomorrow. Also, an email is sent to Mr. Matri for before and after pictures.

1/9/14: Mahat

Mr. Matri supplied DEC required clean up and tightness test report. He also refilled the cleaned area with gravel (pea gravel) to meet FDNY safety codes. Spill is no contamination as per Mr. Matri and no further investigation is required. Case is closed referencing the supplied documents.

DEC REQUIRES:
1. Pictures
2. No contamination letter.

Map Identification Number 256 **HESS STATION** **Spill Number: 0010612** **Close Date: 12/09/2003**
401 WEST 207TH ST MANHATTAN, NY TT−Id: 520A−0091−172

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 218 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	AMERADA HESS	Spiller Phone:	(732) 750−6000
Notifier Type:	Responsible Party	Notifier Name:	ENVIROTRAC	Notifier Phone:	(518) 436−6585
Caller Name:	DAVID LEE	Caller Agency:	AMERADA HESS	Caller Phone:	(518) 436−6585
DEC Investigator:	WXSUN	Contact for more spill info:		Contact Person Phone:	(212) 567−9862

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/21/2000		HUMAN ERROR	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DRILLER DRILLED THRU PRODUCT DISPENSING PIPING − POSS ABOUT 5 GAL − WAS CLEANED UP

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"
PRIMARY SPILL NUMBER FOR THIS SITE IS 9706124

FOR ALL NOTES, LOOK THERE.

12/9/2003 Reassigned from Sangesland to Sun. To be investigated and remediated under Spill # 97−06124.

Map Identification Number 257 **MANHOLE #43436** **Spill Number: 9904135** **Close Date: 10/20/1999**
3871 10TH AVE MANHATTAN, NY TT−Id: 520A−0089−826

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 544 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CALLER − CON ED	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	STEPHEN CRIBBIN	Notifier Phone:	(212) 580−6763
Caller Name:	STEPHEN CRIBBIN	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	STEPHEN CRIBBIN	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/08/1999		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

APPROX 6 OUNCES OF DIELECTRIC FLUID−NO SEWERS OR WATERWAYS AFFECTED

SAMPLE TAKEN − CLEANUP PENDING RESULTS − CON ED #126241

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Found spill approx 6 oz cable oil from burnout on feeder cable.

Sump in structure, sump pump not running.

Oil absorbent and baloneys placed around sump.

Oil filled equipment: PILC.

Sample taken and enroute to astoria chem lab.

Chem lab reports the sample taken is no good due to improper jar used. will have to be retested by area u.g.

Cleanup completed.

6oz oil removed with absorbent.

stain double washed.

Oil treated as 50−499 ppm.

Map Identification Number 258 **VAULT 1734** **Spill Number: 9911453** **Close Date: 03/17/2000**
9TH AV & W 205TH ST MANHATTAN, NY TT−Id: 520A−0094−249

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 600 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 9TH AV / W 205TH ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	RICHARD ROACH − CON EDISON	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	MR TYNDAL	Notifier Phone:	
Caller Name:	RICHARD ROCHE	Caller Agency:	CON ED	Caller Phone:	(212) 580−6764
DEC Investigator:	JHOCONNE	Contact for more spill info:	RICHARD ROCHE	Contact Person Phone:	(212) 580−6764

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/31/1999		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	8.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TRANSFORMER LEAKED − SAMPLE TAKEN CLEAN UP PENDING RESULTS − SPILL

CONTAINED IN VAULT CON ED 129453

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
CON ED

E2 MIS REPORT

12/31/99

A spill of 8 gals. of transformer oil from a transformer due to a bottom leak. A PCB sample was taken and sign #10720 was placed... there is no water, visual movement, fire or smoke. No sump a sper Mannino, no conduit plate 77−E to verify.

DEC INSPECTOR NOTES

Called Mike Kessler 1/07/00 to request te following info.

Analysis:

Transformer Drained?:

Capacity:

Final Cleanup:

Ok

Map Identification Number 259 **TRAIN MAINTAINANCE FACILI** **Spill Number: 0008710** **Close Date: 04/05/2001**
3900 10TH AVE (208TH ST) MANHATTAN, NY TT−Id: 520A−0098−339

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 621 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: DENNIS RAMDAHIN − TRAIN MAINTAINANCE FACILI
Spiller Phone: (718) 243−4581
Notifier Type: Local Agency
Notifier Name: JOE ORITI
Notifier Phone:
Caller Name: DENNIS RAMDAHIN
Caller Agency: NYS TRANSIT AUTHORITY
Caller Phone: (718) 243−4581
DEC Investigator: MCTIBBE
Contact for more spill info: DENNIS RAMDAHIN
Contact Person Phone: (718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/2000		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	10.00	GALLONS	10.00	GALLONS	SOIL

Caller Remarks:

small pipe at the boiler broke − all cleaned up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
PIPE BROKE DURING MAINTENANCE WORK IN THE BOILER ROOM. CONTAINED AND CLEANED BY NYCT.

Map Identification Number 260 **10TH AVE & 207TH STREET** **Spill Number: 9415475** **Close Date: 12/20/2004**
10TH AVE / 207TH STREET NEW YORK, NY TT−Id: 520A−0101−644

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 628 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 10TH AVE / WEST 207TH ST
Revised zip code: 10034

Source of Spill:	UNKNOWN	Spiller:	CON EDISON	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	STEVE ROMERO	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/27/1995		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
NON PCB OIL	PETROLEUM	5.00	GALLONS	5.00	GALLONS	SOIL
DIELECTRIC FLUID	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

SPILL IN MANHOLE, CONTAINED, FLUID FROM CABLE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGLEHARDT"

12/20/04: Con Ed submitted copy of OIL, TOXIC OR HAZARDOUS SUBSTANCE (INCLUDING PCB'S AND ASBESTOS) SPILL OR FIRE NOTIFICATION FORM dated 2/27/95, which states: "TYPE OF SPILL/FIRE AND CAUSE: DIELECTRIC FLUID, LEAKING FROM LOW PRESSURE OIL FILLED CABLE AT A 1/2 GAL/HR RATE.
DIELECTRIC FLUID IS NON PCB OIL. ESTIMATED AMOUNT OF SPILL: 5 gallons. CONTAINMENT (DESCRIPTION): MANHOLE # 405. STEPS ARE BEING TAKEN TO REPAIR THE LEAK AND CLEAN UP. 3/1/95 0800: Update from Romero CIG. Leak cut and capped. 50 gallons lost. Cleanup scheduled for 3/1/95." Close out. (JHO)

Map Identification Number 261 **RAILWAY OVERPASS** **Spill Number: 1203445** **Close Date: 07/10/2012**
WEST 207 ST & 10TH AVE , NY TT−Id: 520A−0275−685

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 628 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 10TH AVE / WEST 207TH ST
Revised zip code: UNKNOWN

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	NYC OEM7184228700	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/10/2012		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
CYCLOHEXANE	HAZARDOUS MATERIAL	5.00	GALLONS	0.00	GALLONS	IMPERVIOUS SURFACE

Caller Remarks:

The REgional director received an OEM Alert that a trailer truck involved in a traffic accident had potenital haz. mat on board − OEM, FDNY, and DEP en route to event − RD forwarded e−mail alert to RSE

DEC Investigator Remarks:

7/10/12 − Austin − According to NYC OEM (via DEC Sangesland), a tractor trailer impacted a railroad overpass at W207th St & 10th Ave at approx 5AM. The vehicle was towed to W204th St & 10th Ave. NYPD, NYFD, DEP were on scene and noticed a liquid spill coming from the trailer.
Material was identified as a liquid corrosive acid: 1,2 cyclohexanediamine
Material spilled from a 55 gal drum (or several drums) that were damaged inside the tractor trailer.
NYPD, NYFD, and DEP are on site neutralizing and cleaning the material. OEM says the situation is under control. Spill closed
−end

Map Identification Number 262 **NYCTA TRAIN REPAIR MAINT** **Spill Number: 8906241** **Close Date: 09/25/1989**
3961 TENTH AVE MANHATTAN, NY TT−Id: 520A−0098−338

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3961 10TH AVE
Revised zip code: 10034

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	SAME	Spiller Phone:	
Notifier Type:	Citizen	Notifier Name:		Notifier Phone:	
Caller Name:	ANONYMOUS	Caller Agency:		Caller Phone:	
DEC Investigator:	NYC DEP	Contact for more spill info:		Contact Person Phone:	

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/21/1989	09/25/1989	HOUSEKEEPING	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
ASBESTOS	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	AIR
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	AIR

Caller Remarks:

INSULATION COMING OFF PIPE LYING ON GROUND.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEP−ASBSTS"

Map Identification Number 263 **207TH ST YARD** **Spill Number: 1104750** **Close Date: 07/28/2011**

3961 10TH AVE MANHATTAN, NY TT−Id: 520A−0265−915

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	SHERRI BULKLEY − NYC TRANSIT	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	SHERRI BULKLEY	Contact Person Phone:	(646) 252−7777

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/26/2011		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PROPYLENE GLYCOL	OTHER	100.00	GALLONS	0.00	GALLONS	

Caller Remarks:

onto concrete, clean up complete.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 264 **I/F/O 3915 10TH AVE** **Spill Number: 0911081** **Close Date: 04/21/2010**
3915 10TH AVE MANHATTAN, NY TT−Id: 520A−0248−517

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON ED	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/14/2010		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

1 PINT OF DIELECTRIC FLUID IN THE MANHOLE CLEAN UP PENDING.

DEC Investigator Remarks:

4/21/10 − Austin − Joint leak in vault − Vault reponsibility of MTA, who did actual cleanup − cleanup completed, transformer replaced − see eDocs for more info − closed − end

Map Identification Number 265 **207TH ST YARD** **Spill Number: 0805520** **Close Date: 08/13/2008**
3961 10TH AVE MANHATTAN, NY TT−Id: 520A−0220−542
3961 TENTH AVE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	SHERRY BULKLEY − 207TH ST YARD	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	SHERRY BULKLEY	Contact Person Phone:	(646) 252−5777

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/13/2008		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	40.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

A TRUCK WAS HAULING A FULL TANK AND SOMEHOW IT FLIPPED − COULD BE HUMAN ERROR; HAS BEEN CLEANED;

DEC Investigator Remarks:

120 gal waste oil tank being moved by fork lift, tipped over.... about 40 gal spilled to a cement area. No drains or soil. Area was contained and the product cleaned up.

Map Identification Number 266 **207TH STREET YARD** **Spill Number: 0711741** **Close Date: 02/07/2008**
3961 10TH AVE MANHATTAN, NY TT−Id: 520A−0214−773
3961 TENTH AVE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	GEORGE CUNNINGHAM − 207TH STREET YARD	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	GEORGE CUNNINGHAM	Contact Person Phone:	(646) 252−3607

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/06/2008		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
LUBE OIL	PETROLEUM	43.00	GALLONS	43.00	GALLONS	SOIL

Caller Remarks:

a fork lift carrying a drum. tipped over and no drains effected; and all cleaned up

DEC Investigator Remarks:

spill contained − all cleaned

Map Identification Number 267 **DRIPS FROM RETIRED GAS MAIN** **Spill Number: 0609445** **Close Date: 02/07/2007**
207 STREET & MTA RAILYARD MANHATTAN, NY TT−Id: 520A−0098−119

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name:
DEC Investigator: GDBREEN
Spiller: ERTS − CON EDISON
Notifier Name:
Caller Agency:
Contact for more spill info: ERTS
Spiller Phone: (212) 580−8383
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/16/2006		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FROM A DRIP BOX FROM A GAS MAIN: NO TO 5 QUESTIONS: RELEASE COULD GO INTO HARLEM RIVER BUT UNSURE: CREW STILL INVESTIGATING: 202348

DEC Investigator Remarks:

203348. see eDocs

1/17/07: spill referred to Sam Arakhan for review of closure request. (JHO)

1/18/07: Response from Arakhan: "It looks like the material in the pipe did not actually drip. I would recommend closing out the spill but inform them that the pipe is subject to regulation due to the sludge it contains....The pipe is retired and being removed pursuant to a construction project. For disposal purposes, both TSCA and [DEC] regs would apply." (JHO)

Map Identification Number 268 **SPILL NUMBER 0202959** **Spill Number: 0202959** **Close Date: 05/21/2004**
207TH ST YARD MANHATTAN, NY TT−Id: 520A−0098−334

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	NY CITY TRANSIT AUTH	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	PASHKO CAMAJ	Caller Agency:	NEW YORK CITY TRANSIT AUT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	PASHKO CAMAJ	Contact Person Phone:	(718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/20/2002		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	5.00	GALLONS	5.00	GALLONS	SOIL

Caller Remarks:

APPEARS SUCTION LINE WAS DAMAGED CAUSING SPILL − SPILL CLEANED UP CREW ON SITE MAKING REPAIR

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
See also 0204997; TTF of tank 4, 35000 gallon heating oil.

Refer to 01−06375. Pertains to both heating oil tanks.

Map Identification Number 269 **SIGNAL SHOP/207TH ST YARD** **Spill Number: 0111506** **Close Date: 07/26/2002**
396 WEST 215TH ST NEW YORK, NY TT−Id: 520A−0098−331

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 630 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	NY CITY TRANSIT	Spiller Phone:	(718) 243−4581
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	JAMES CRANDALL	Caller Agency:	NEW YORK CITY TRANSIT AUT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	JAMES CRANDALL	Contact Person Phone:	(718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/06/2002		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
CLEANING CHEMICALS/PRODUCTS	OTHER	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

2 INCH DRAIN LINE FAILED ON NEW TANK − APPROX 250 GALS ENTERED STORM SEWER − REST OF SPILL CONTAINED

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
300 gallons of "Green Power" cleaner spilled from the drain line of a parts cleaner. pH 12.3 diluted to pH 9 or 10. DEP notified. Dye test confirmed that drain discharges to Harlem River. All product went to the reiver. Tank taken out of service until repairs. Storm drain pludded to prevent another incident.

Map Identification Number 270 **3852−6 10TH AVE/RAMIERO** **Spill Number: 9110175** **Close Date: 12/31/1991**
3852−3856 TENTH AVE NEW YORK, NY TT−Id: 520A−0094−245

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 790 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 3852−3856 10TH AVE
Revised zip code: 10034

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: M MCARDLE
DEC Investigator: SULLIVAN
Spiller: COASTAL
Notifier Name:
Caller Agency: COASTAL
Contact for more spill info:
Spiller Phone:
Notifier Phone:
Caller Phone: (718) 746−2412
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/27/1991	12/31/1991	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	300.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

COASTAL TEAM CONTAINING, MILRO TEAM ENROUTE TO CLEAN.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 271 **TANK FAILURE AND #2 SPILL IN BOILER ROOM** **Spill Number: 1306652** **Close Date: 03/28/2014**
130 POST AVENUE NEW YORK, NY TT−Id: 520A−0293−312

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 949 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: vszhune
Spiller: PROPERTY OWNER
Notifier Name:
Caller Agency:
Contact for more spill info: GOMEZ
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (646) 734−5207

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/25/2013		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	2000	GALLONS	0	GALLONS	

Caller Remarks:

cleanup pending −

DEC Investigator Remarks:

9/25/13−Vought−Called and spoke to Alex Bonnet (Ph:646−650−1420) and as per PBS tank is a 5000−gallon #2 fuel oil AST. As per Alex tank is in secondary containment adjacent to the boiler room and #2 fuel oil is "seeping" out of wall and creating "puddle" on basement floor. AL Eastmond is enroute to site and as per Alex, FDNY was on site earlier but left and FDNY shut down boilers. No drains affected as per Bonnet. Onsite contact is Gomez (Ph:646−734−5207). DEC Zhune to respond as per RSE.

9/25/13−Zhune inspected the site. Met Mr. Gomez(superintendent). There is oil on the boiler's secondary containment. As per Mr. Gomez the oil tank is leaking and the oil is seeping to the boiler room. The tank had 1600−gallons of #2 fuel before they noticed the spill, at the time they noticed the spill the tank had 1300−gallons. approximatelly 300 gallons went outside the tank into the floor of the tank room. I spoke to Mr. David Began from AL Eastmond he said their truck will arrived to the site in 30 minutes to pump the oil from the tank into a temporary tank and clean the spill. He will send the proposal to the owner for the tank replacement. There was odor in the boiler room. No odor in the building.

02/05/14− Spoke to Mr. Gomez. As per Mr. Gomez the tank was removed and the boiler and the tank room has been cleaned. They are in the process to convert to gas natura. Also a new oil tank will be install. I let Alex know that I eft several message to Mr. Alex but he did not return them. Mr. Gomez said that he will ask Mr. Alex to call me back.Dear Veronica

3/12/14− Neil Tomaselli from A. L. Eeastmond sent the following email dated 3/12/14
I am finding out that the work is not 100% completed. Upon re−inspecting the tank room, the floor was not complexly covered with cement. When the tank leaked, the leak contaminated a small portion of the dirt area and then ran out of the vault and into the boiler room. The boiler room was cleaned and pressure washed and is in excellent condition without any cracks or possible below grade contamination but there is some work to do in the vault which we have to call the owner and continue our contract

The vault floor was initially cleaned but no contaminated dirt was removed. We are at this time collecting soil samples to determine how mush of the area is contaminated and what work lies ahead.

3/28/14−Neil Tomaselli emailed the closure report.
On September 24th men were dispatched to clean thespilled oil, pump and empty the tank and to install 275 gallon temporary tanks. After the primary cleaning, the floors were pressure washed. After December 16, 2013 the mangement company contacted Eastmond

to cut and remove the tank. At this time the boiler room and the containment vault floor are clean. The tank bottom was in contact with dirt /soil in the center of the room. Although their was an oil leak, the leaking oil did not contaminate the ground directly beneath the tank.

They collected three soil samples (North,ens (1), The middle(2)and the south end (3). The noth end is facing theboiler room and it was at the end of the tank ythe leak occurred. Apparently that portion of the tank was resting on the concrete floor and due to a pich in the fllor the oil rwan away from the tank.

The soil analitcal results for the three samples indicate no dectected concentrations of VOCs and SVOCs above the acceptable limits. Spill closed.

Map Identification Number 272 **FORDHAM ROAD/MAJOR DEEGAN** **Spill Number: 8703950** **Close Date: 08/14/1987**
FORDHAM ROAD/MAJOR DEEGAN NEW YORK CITY, NY TT−Id: 520A−0014−434

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 953 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: I− 87 / W FORDHAM RD
Revised zip code: 10468

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	NYCDEP	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	UNASSIGNED	Contact for more spill info:		Contact Person Phone:	

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/12/1987	08/14/1987	EQUIPMENT FAILURE	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

3.1 MGD BY−PASS, LOSS SLUICE REGULATOR # 66, WAS FOUND PARTIALLY OPENENDED ON 08/13/87. NYCDEP ITEM # 1057

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: 3.1 MILLION / DAY

Map Identification Number 273 **2175 CEDAR AVE** **Spill Number: 9205906** **Close Date: 08/21/1992**
2175 CEDAR AVE BRONX, NY TT−Id: 520A−0008−098

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1065 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:		Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	STEVE	Caller Agency:	PETRO TANK CLEANERS	Caller Phone:	(718) 624−4842
DEC Investigator:	SJMILLER	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/21/1992	08/21/1992	EQUIPMENT FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	1000	GALLONS	0	GALLONS	SEWER

Caller Remarks:

OIL WENT INTO SUMP PUMP −SHUT OFF GASKET BROKE ON STRAINER DEVICE MOSTIS ON THE FLOOR PET TANK CLEANERS IS CLEANING UP NOW .
NOTIFIED NYC DEP IGIGS @1350

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"

Map Identification Number 274 **CON ED TRANSFORMER SPILL** **Spill Number: 1011811** **Close Date: 04/19/2011**
301 201ST STREET MANHATTAN, NY TT−Id: 520A−0261−961

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1608 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 301 W 201ST ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/27/2011		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	100.00	GALLONS	100.00	GALLONS	IMPERVIOUS SURFACE, UTILITY

Caller Remarks:

0948 THE CALLER ADVISED DISPATCH BLUE STONE HAS BEEN IMPACTED. SPILL IS CONTAINED IN THE WATER OIL SEPARATOR. THE CLEAN UP IS BEING CONDUCTED BY CON EDISON.

DEC Investigator Remarks:

2/28/11−Vought−Primary off hours responder. Called Con Ed ERT desk (Ph:212−580−8383) and spoke to Michael Beto and cause was Feeder leak (M29 and M3310 with leaked "150 gallons of transformer oil to concrete vault (mote)(sic) and is contained. Beto confirmed that there was no release to soil or groundwater and that bluestone in vault will be removed. Source was a bushing and repairs pending. Vought informed RSE of same. Intial EMIS #224967 added to Cross Reference field, deleted from proxy and added to E−docs. Spill assigned to DEC Feroze as part of routine Con Ed portfolio spill review and possible closure.

4/19/11 − Austin − Vault/moat cleaned by removal of bluestone and pressure washing − Con Ed contain ed and cleaned up the spill − see eDocs files for more details − spill closed − end

Map Identification Number 275 **MANHOLE 60578 IN FRT OF** **Spill Number: 9811243** **Close Date: 01/05/2004**
3758 TENTH AVE MANHATTAN, NY TT−Id: 520A−0094−234

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1676 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	ERNIE ROWLAND	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	ERNIE ROWLAND	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/07/1998		EQUIPMENT FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

CON EDISON HAS A DIELECTRIC FLUID SPILL THAT IS ON TOP OF 200 GALLONS OF WATER THAT IS CONTAINED IN A MANHOLE.REF 121770 CON EDISON NUMBER

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
E2MIS 121770

DEC. 07, 1998 14:45 HRS.

D. DONOHUE #10813 RED WAGONS #9 REPORTS THAT ON 12/07/98 @ 14:35 HRS HE FOUND APPROX 2 GALLONS ON DIELECTRIC OIL FROM A

BLOWN PRIMARY FEEDER JOINT ON FDR.# 1M09 MIXED WITH 200 GALLONS OF WATER IN MH−60578 F/O# 3758 10 AVE. HE WAS RESPONDING TO

A MANHOLE FIRE & FIRE DEPT REQUEST. UNPON ARRIVAL THERE WAS NO FIRE. THE SPILL IS CONTAINED AND DID NOT ENTER WATERWAYS OR SEWERS. THERE ARE NO VISABLE CRACKS AND UNABLE TO DETERMINE IF

THERE IS A SUMP. UNABLE TO TAKE A SAMPLE AND INSTALL A TAG AT THIS TIME DUE TO NO JAR OR TAG ON LOCATION. THEY ARE BEING DELIVERED AT THIS TIME. THE CLEANUP IS PENDING CLEAR ACCESS TO THE MANHOLE WHEN THE FEEDER IS GROUNDED. THE SPILL WILL BE CLEANED UP AS 50−499 PPM P.C.B.'S. THERE IS OIL FILLED PRIMARY CABLE IN THIS STRUCTURE.

12/07/98 16:30 HRS E. MANNING #03430 REPORTS SAMPLE TAKEN AND TAG# 21882 WAS INSTALLED AT THIS TIME.

12/07/98 18:30 MCHUGH OBTAINED AN EPA #NYP004033163. FOUL OIL TRUCK OREDERED FOR CLEAN UP. ASTORIA WILL ATTEMPT TO HAVE TRUCK AVAILABLE FOR 2300 HRS ON 12/7/98

12/08/98 00:59 RECEIVED LAB RESULTS ON 12/07/98 AT 22:36

AROCLOR − 1254 − PCB − <1.00 PPM

12/10/98 O.S. (UG) S. Falkowski # 56406 reports clean up complete in MH 60578 on 12/08/98 @ 06:00 hrs.

<1. ppm PCB

Removed 1150 gals. Oil/Water to tanker

Used flush truck to clean & rinse structure

Generated 2 drums large rinsed debris & PPE

Removed Spill tag #21882 upon completion

Map Identification Number 276 **SHERMAN CREEK SUBSTATION** **Spill Number: 9802465** **Close Date: 08/18/2009**
416 WEST 201ST STREET MANHATTAN, NY TT−Id: 520A−0099−724

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1707 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	BILL MURPHY − CON ED	Spiller Phone:	(212) 580−6763
Notifier Type:	Responsible Party	Notifier Name:	MR MADALATIS	Notifier Phone:	(212) 580−6763
Caller Name:	BILL MURPHY	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JMKRIMGO	Contact for more spill info:	BILL MURPYH	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/26/1998		EQUIPMENT FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

POSSIBLE OVER FLOW 1 GAL. SPILLED. CLEANUP TO BE DONE BY CON ED

CLEAN UP CREW.

DEC Investigator Remarks:

08/18/09 − See eDocs for Con Ed report detailing cleanup and closure.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #117110:

At 19:40hrs, Operator Gonzalez reported that bank #5 leaked from top of bank 1gal of oil which went into the bluestone. Placed pads to contain oil and reported that leak has now stopped.

5/27/98 1520hrs

B. Dick reports leak repairs and cleanup completed.

4/19/02

Allen Chase reports during substation inspection historic contamination was found on bluestone in/around transformer vault 5. By visual inspection the surface layer of bluestone appears to be less than 10% stained/discolored(next to concrete pad secondary transformer−south side). Contamination may be related to the initial spill report. A station remediation plan will be prepared to determine the priority order for addressing this and other historic incidents as per SSO letter to NYSDEC Reg 2 on 2/20/02. Housekeeping and maintenance acitivites, as required, will be documented.

DEC Notes:

Closed 6/12/98. Reopened on 4/28/03 to address historic contamination.(KMF)

Map Identification Number 277 **85−87 VERMILYEA AVE** **Spill Number: 9009853** **Close Date: 12/11/1990**
85−87 VERMILYEA AVE NEW YORK CITY, NY TT−Id: 520A−0098−367

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1766 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: CASTLE OIL Spiller Phone: (212) 823−8800
Notifier Type: Local Agency Notifier Name: Notifier Phone:
Caller Name: LIONEL MCKENZIE Caller Agency: NYCDEP Caller Phone: (212) 669−8930
DEC Investigator: WILSON Contact for more spill info: Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/07/1990	12/11/1990	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	400.00	GALLONS	0.00	GALLONS	SURFACE WATER

Caller Remarks:

DELIVERY TO WRONG TANK (550GAL & 5K TANK), FUEL WENT INTO STREET & STORM DRAIN, VAC TRUCK & SPEEDY DRY WAS USED, FREE PRODUCT HANDLED BY A L EASTMOND.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 278 **DYCKMAN HOUSES** **Spill Number: 9013033** **Close Date: 11/17/1994**
3790 10TH AVENUE MANHATTAN, NY TT−Id: 520A−0098−345

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1873 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Fire Department
Caller Name: FIREMAN HENRY
DEC Investigator: HEALY
Spiller: NYCHA
Notifier Name:
Caller Agency: NYCFD
Contact for more spill info:
Spiller Phone: (212) 306−3142
Notifier Phone:
Caller Phone: (718) 753−1424
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
03/21/1991	11/17/1994	TANK OVERFILL	2−474843	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

OIL WAS SPILLED FROM AN OVERFILLED OIL TANK.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 279 **FEEDER M51 − MANHOLE 29001** **Spill Number: 0706027** **Close Date: 09/20/2007**
SEDGWICK & BAILEY AVENUES BRONX, NY TT−Id: 520A−0211−925

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1964 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: SEDGWICK AVE / BAILEY AVE
Revised zip code: 10463

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: ERTSDESK − CON EDISON Spiller Phone: (212) 580−8383
Notifier Type: Responsible Party Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: gdbreen Contact for more spill info: ERTSDESK Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/27/2007		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	500.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

POTENTIAL SPILL AMOUNT IS 500 GALLONS; FEDDER RUNS FROM ABOVE ADRESS TO SPRAIN BRROK SUBSTATION IN WESTCHESTER − 245 TUCKAHOE RD; FEEDER NAME− M51− 345 TRANSMITION FEEDER; NRC #847038;

207748.000

DEC Investigator Remarks:

09/20/07 − See eDocs for Con Ed report detailing cleanup and closure.

207748. See eDocs.

This spill is believed to be related to discovery of cable oil in manhole in Bronx, spill 0706033 (emis 207751). Alarm is for feeder M51. Leak rate is low − about one gallon per hour.

The Sedgwick Avenue spill, 0706033, for cable oil in a manhole in the Bronx, is being closed out so that the information can be consolidated in one place, which is this spill 0706027.

08−28−07. Breen went to MH 29001 at Sedgwick Ave, site of Spill 0706027. All State vac'd out concrete vault. About 200 gal recovered. Leak is very slow. ConEd found it very quickly after feeder alarm went off. Feeder is operating and under full pressure. Excavated on the south side of the vault. I did not see any contaminated soil in the excavation. Leak is believed to be on bottom of feeder where it exits the south wall of vault. ConEd has to break concrete around feeder penetration of wall to install clamp. Mike Pillig was there with Ed Conway, former omsbudman who has just been promoted, and Tony DelGardo and new ERT from Indian Point. Leak is slow. Most or all of release is into the vault. Little or no impact to soil, or so it seems at this point in time. Plan is to expose feeder to locate leak. Then apply first a clamp and then weld on a barrel over the damaged area. ConEd will break the south wall around where the feeder penetrates in order to locate the leak. In the process of excavating, it will come clear where cable oil got out of the vault. After the repairs are made, ConEd plans to investigate the north wall of the vault by excavating there.

09−14−07. See spill 0706480 for an additional release from this feeder near 231 Street.

Map Identification Number 280 **HARLEM RIVER DRIVE / W.215TH** **Spill Number: 8701103** **Close Date: 05/08/1987**

HARLEM RIVER DR./W.215TH ST NEW YORK CITY, NY TT−Id: 520A−0102−224

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1971 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	UNASSIGNED	Contact for more spill info:		Contact Person Phone:	

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/08/1987	05/08/1987	ABANDONED DRUM	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

ILLEGAL ETHER DUMPING.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: ETHER.

Map Identification Number 281 **BRONX COMMUNITY COLLEGE** **Spill Number: 0709008** **Close Date: 11/20/2007**
UNIVERSITY AVE & WST 181 BRONX, NY TT−Id: 520A−0212−767

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2002 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: BRONX COMMUNITY COLLEGE
Revised zip code: 10453

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: rvketani
Spiller: MARTIN PULVER − BRONX COMMUNITY COLLEGE
Notifier Name:
Caller Agency:
Contact for more spill info: MARTIN PULVER
Spiller Phone: (917) 952−0694
Notifier Phone:
Caller Phone:
Contact Person Phone: (917) 952−0694

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/19/2007		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CHECKING UNIT EARLY THIS MORNING FOUND IT LEAKING ABOUT A 500 GALLON TANK: SPILL IS CONTAINED AND PADS ARE DOWN AND CLEAN UP CREW ENROUTE: STORM DRAIN NEAR, AND HAS BEEN COVERED

DEC Investigator Remarks:

11/19/07 − Raphael Ketani. Jeff Vought was the acting duty desk officer. He contacted Wayne Murphy, the super. (718) 289−5245. The oil leaked from one of 4 trailer mounted boilers that were outside the building being serviced. Mr. Vought called in the spill to DEP and received the service number #1781216. Mr. Murphy told Mr. Vought that the vendor was on the way to clean out the sewer. No soil or buildings were affected. Everything drained to the sewer. Spill had been reported by Martin Pulver, Ph.D. (917) 952−0694, a professor at the college.

I made several calls later in the day to Mr. Murphy, but he said that the cleanup company still hadn't arrived on site.

Finally at about 4:05PM, Michael Dillon, the senior station engineer, called me and said that Andrew Kelly of DEP and New York Petroleum Tank Cleaners had showed up. He said that Mr. Kelly gave him an order to cleanup the 25 feet of pavement that the oil ran down and to pump out the sewer. From what was burned overnight and the volume in the tank, Mr. Dillon has estimated that about 100 gals. were lost. He will FAX me the manifests and other cleanup documents when he gets them.

11/20/07 − Raphael Ketani. Mr. Dillon FAXed me a "Work Preformed Vac Truck" form from PTC, the cleanup contractor. The form showed that 30 gals. of an oil/water mix were collected and that 2 drums of spent absorbent and oil socks were generated.

Based upon the information on the Work Preformed form, I am closing the spill case.

Map Identification Number 282 **NYCDOS 12TH GARAGE FLOOR** **Spill Number: 1007143** **Close Date: 10/04/2010**
301 WEST 215TH STREET MANHATTAN, NY TT−Id: 520A−0255−622

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2035 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: JBVOUGHT

Spiller: NYCDOS
Notifier Name:
Caller Agency:
Contact for more spill info: CHRIS LANARES

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (646) 885−4855

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/04/2010		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	200.00	GALLONS	200.00	GALLONS	IMPERVIOUS SURFACE

Caller Remarks:

200 gallons of hydraulic oil spilled onto floor. Contained at this time. Clean up will be done by private company.

DEC Investigator Remarks:

10/4/10−Vought−Primary off hours responder. Called and spoke to NYCDOS Chris Lanares (646−885−4855) and spill was from leaking hydraulic hose from oil tank and cleanup acheived via 30 bags of speedy dry. Tank ia 3000−gallon UST. Spill did affect drains in building that lead to oil water separator. Oil water separator will be checked and emptied as well if necessary. Spill closed by Vought as no effect to soil or groundwater.

Map Identification Number 283 **FORDHAM HILL APARTMENTS** **Spill Number: 0212509** **Close Date: 05/03/2005**
2421 WEBB AVENUE BRONX, NY TT−Id: 520A−0013−401

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2090 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10468

Source of Spill:	TANK TRUCK	Spiller:	MR MOORE − FORDHAM HILL APT COMPLEX		Spiller Phone: (718) 365−9600
Notifier Type:	Responsible Party	Notifier Name:	SAME		Notifier Phone:
Caller Name:	JIM CAREY	Caller Agency:	CASTLE OIL CORPORATION		Caller Phone: (718) 579−3410
DEC Investigator:	SMSANGES	Contact for more spill info:	MR MOORE		Contact Person Phone: (718) 365−9600

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/19/2003		EQUIPMENT FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	150.00	GALLONS	100.00	GALLONS	SOIL

Caller Remarks:

al eastman and sons been contracted to clean area. on scene now and have cleaned up approx. 100 gallons. malfunctioning gauge.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
3/19/2003 Sangesland spoke with Jim Carey of Castle Oil who was at the site.

Apt Complex manager: Mr. Moore 718−365−9600

Location: 2421 Webb Ave. Building in a large apartment complex. Access is through a guard gate located near corner of Fordam Road and Webb Ave.

Spill: Complex has 2 − 25,000 gal #6 Oil USTs which were being filled. One filled OK, second tank had a bad gauge and overfilled. Approx 150 gal came out through the vent line and the stick line onto the grass/sidewalk area.

No sewers or drains were impacted.

As of 2:15PM, Mr. Carey says the apartment complex had 12 men on site cleaning up the sidewalk. AL Eastmond was on site. Sangesland repeated the requirement that the grassy area be dug out and clean endpoint samples submitted.

4/1/2004 Sangesland left a message with Eddie Ramos, asst property manager of apt complex (718−365−9600). Unknown if the building or Jim Carey at Castle Oil (718−579−3410) is responsible for the cleanup.

DEC will need the following:
1) Receipt from AL Eastmond showing cleanup was done
2) Endpoint sample results
3) If samples are not availble: Photos of spill area & letter saying everything is clean.

4/2/2004 Sangesland spoke with Mr. Ramos. He said he would put together the information listed above and send it out to the DEC within the next 2 weeks.

5/3/2005 No submittal was made, but both Jim Carey at Castle Oil and Rene at Eastmond say the spill was cleaned, dug out & endpoint tested OK. Spill closed

Map Identification Number 284 **IN STREET** **Spill Number: 9612843** **Close Date: 01/29/1997**
182 NAGLE AVE MANHATTAN, NY TT−Id: 520A−0092−391

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2146 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	TOMMY − B AND T TRANSPORT	Spiller Phone:	(718) 333−4154
Notifier Type:	Affected Persons	Notifier Name:	TOMMY − DRIVER	Notifier Phone:	(718) 333−4154
Caller Name:	BOB DECK	Caller Agency:	PETROLEUM TANK CLEANERS	Caller Phone:	(718) 624−4842
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/28/1997		TANK OVERFILL	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	100.00	GALLONS	75.00	GALLONS	SOIL

Caller Remarks:

OVERFILLED TANK, CLEANUP IN PROGRESS. THOUGHT SPILL WAS REPORTED

YESTERDAY. SPILL HOTLINE COMPUTER GLITCH THIS MORNING − TOLD TO CALL BACK

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
DEC INVESTIGATOR:CLEANED BY PETROLEUM TANK CLEANERS.

Map Identification Number 285 **#4 IN EAST RIVER** **Spill Number: 8601172** **Close Date: 05/20/1986**
216TH ST.&HARLEM R. DRIVE NEW YORK CITY, NY TT−Id: 520A−0101−645

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 2238 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: W 216TH ST / TENTH AVE
Revised zip code: 10034

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Local Agency
Caller Name:
DEC Investigator: UNASSIGNED
Spiller: UNKNOWN
Notifier Name:
Caller Agency:
Contact for more spill info:
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/19/1986	05/20/1986	EQUIPMENT FAILURE	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

CLOGGED 18" INTERCEPTOR TO REGULATOR N−14−CREW BEING DISPATCHED TO TRY TO REMEDY. OIL DISCHARGE THROUGH ILLEGAL SUMP

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: & OIL

Map Identification Number 286 **33 VERMILYEA AVENUE** **Spill Number: 0412559** **Close Date: 03/01/2005**
33 VERMILYEA AVENUE NEW YORK, NY TT−Id: 520A−0091−590

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2261 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: TANK TRUCK
Notifier Type: Responsible Party
Caller Name: MELANIE GILMORE
DEC Investigator: JBVOUGHT
Spiller: FERRANTINO FUEL CORP
Notifier Name: FERRANTINO FUEL CORP.
Caller Agency: NYC DEP
Contact for more spill info: FERRANTINO FUEL CORP
Spiller Phone: (646) 235−9752
Notifier Phone: (646) 235−9752
Caller Phone: (212) 689−1520
Contact Person Phone: (646) 235−9752

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/27/2005		TANK OVERFILL	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

Tank overfill caused 100 gallons of home heating oil to spill outside. Sewer is affected. Cleanup has begun.

DEC Investigator Remarks:

3/1/05−Vought−Spill response off hours duty−Vought called Farrantino Oil and spoke with mark Loughlin (646−235−9752) and crew on way to site. Spill result of tank overfill. Spil came out vent pipe onto sidewalk and out of fittings on AST in secondary containment room. Vought called DEP Gilmore and spill call originated from NYC Hotline (no onwer information). Vouht performed site visit and Petroleum Tank Cleaners (PTC) onsite (Anthony Lara 718−624−4842) and cleaning up sidewalk. Vought instructed PTC to vacuum out drain on Corner of Academy and Vermilyea. Drain was vacuumed and secondary containment room was inspected and speedy dry was put down (about 10−15 gallons spilled in secondary containment). No odors present in building or in basement. Spill on concrete and in drain (DEP notified) with no pathways to subsurface> Spill closed by Vought

Map Identification Number 287 **APT BLDG** **Spill Number: 0911984** **Close Date: 02/12/2010**
65−67 PARK TERRACE EAST MANHATTAN, NY TT−Id: 520A−0248−455

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2375 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	NICK PASCAL − HESS	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	hrpatel	Contact for more spill info:	NICK PASCAL	Contact Person Phone:	(201) 489−5100

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/12/2010		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	

Caller Remarks:

DUE TO A BROKEN PUMP ON THE TRUCK ABOUT 100 GALLONS SPILLED TO PAVEMENT CLEAN UP PENDING. SPILL IS CONTAINED.

DEC Investigator Remarks:

Mechanical problem with delivery truck. As the driver was pumping, there was a problem on the front of truck which he did not see. Oil is all around the truck and is being "contained" by piles of snow.

2/12/10 − Austin − DEC Patel went to spill site, and observed that approx. 70% of the spill was already cleaned up. spill on street only, contained and under control. Spill closed, as per Patel. End

02/16/10−Hiralkumar Patel. went to site at 4:00 PM on 02/12/10. about 70 gal spilled on street from broken pump on truck. oil spilled on street only. Eastmond cleaned up spill and power washed the street.

Map Identification Number 288 **29003 MANHOLE** **Spill Number: 1104125** **Close Date: 03/04/2014**

CEDAR AVE/ 180TH ST BRONX, NY TT−Id: 520A−0263−468

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 2396 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: CEDAR AVE / W 180TH ST
Revised zip code: 10453

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON ED	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/14/2011		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	300.00	GALLONS	0.00	GALLONS	
OTHER	OTHER	300.00	GALLONS	0.00	GALLONS	

Caller Remarks:

from feeder m51 or m52. clean up pending

DEC Investigator Remarks:

07/20/11−Hiralkumar Patel.
11:31 AM:− left message at ERT.
12:20 PM:− received call from Tim from ERT. he mentioned that a small leak was found on feeder line inside the manhole. it was a non−pcb oil. leak was clamped and cleanup completed. he will send updated emis report.
12:25 PM:− received updated emis report. as per emis report, oil was contained inside the manhole.

8/19/11 − Austin − 300 gal. feeder leak inside of manhole − Leaking feeder received barrel clamp to stop release − Con Ed contained and cleaned up the spill − See documents in eDocs files for more info − Case closed − end

3/4/14 − Austin − Through routine review of Con Ed spills that were still listed as open, found spills that had been reviewed and closed, but not confirmed in the Lead DEC and Spill closed fields − Edited to reflect that, as of today's date − end

Map Identification Number 289 **PRIVATE BUS DEPOT** **Spill Number: 1216627** **Close Date: 03/22/2013**
4065 10TH AVE MANHATTAN, NY TT−Id: 520A−1000−824

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2416 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: HRPATEL
Spiller: MTA
Notifier Name:
Caller Agency:
Contact for more spill info: SANJIV KURAY
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: 917−939−4309

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/21/2013		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	

Caller Remarks:

FAULTY SEAL LIFT #15 FLUID TO SECONDARY CONTAINMENT PIT. CLEANUP IN PROGRESS.

DEC Investigator Remarks:

03/21/13− Zhune spoketo Francine Maibauer from MTA 646−252−5777. She said a faulty seal from a lift caused the 200 gallons of hydraulic oil spill into the secondary container pit. The pit is made of concrete. They are currently removing the oil from the secondary container into 55−gallons drums. No release to the Environment, no release to soil and no release to any cath basin or storm basin. Once pit container empty it will be cleaned.

03/22/13−Hiralkumar Patel.
9:25 AM:− visited site. met Ryan Carroll (212−544−3414) and Suman Patel at the site. inspected area where leak occurred. MTA has fixed the leak. leaked oil was contained in concrete pit under the lift. MTA pumped out oil into drums last night. AARCO is hired to complete the cleanup. Ryan confirmed that pit is not connected to any drain/oil−water separator.

12:49 PM:− received call from Sanjiv Kuray from MTA. he mentioned that during cleaning, they found approx. 200 gal oil in second pit which is connected to the pit under leaking lift, via pipe. there is sump in the second pit which pumps material into oil/water separator. Mr. Kuray mentioned that the sump pumps in second pit were not working for long time and oil was contained inside the pit. he also confirmed that there are no other connections from these two pits.

based on available information, case closed.

Map Identification Number 290 **MAINTENANCE SHOP** **Spill Number: 1005813** **Close Date: 05/21/2014**
4065 10TH AVE MANHATTAN, NY TT−Id: 520A−0255−600

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2416 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	NYC TRANSIT	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	HRPATEL	Contact for more spill info:	HAROON ESLAN	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/16/2010		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	130.00	GALLONS	0.00	GALLONS	

Caller Remarks:

Caller advised 130 gallons of hydraulic oil spilled in maintenance facility for NYC transit on 08/16/2010

DEC Investigator Remarks:

Spilled into a contained area (part of bus lift mechanism)

05/21/14−Hiralkumar Patel. due to nature of the spill and based on available information, case closed administratively.

Map Identification Number 291 **ROADWAY** **Spill Number: 1207371** **Close Date: 10/26/2012**
DEEGAN EXPRESSWAY AT WEST 179 ST EXIT BRONX, NY TT−Id: 520A−0279−277

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2427 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: DEEGAN EXPY / W 179TH ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	UNKNOWN − COBRA LOGISTICS	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	SMSANGES	Contact for more spill info:	NYC HAZ MAT	Contact Person Phone:	(347) 203−6886

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/2012		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	

Caller Remarks:

spill to paved roadway/clean up underway

DEC Investigator Remarks:

Sangesland spoke to Fire HazMat on site. Spill was from a saddle tank.
Tanks were drained to 2 drums (85 gal + 16 gal).
Sangesland spoke to Dispatch Dept of Truck owner: Cobra Logistics 210−210−2288
Owner will confirm that tow company will take away 2 drums.

THE FOLLOWING CLOSED SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
9903526	MANHOLE #407M	10TH AV & ISHAM ST	MANHATTAN
0806243	DYCKMAN ST SUB−STATION 207 ST YARD	ISHAM ST & KENT AVE	NEW YORK
0711470	ON THE STREET	ISHAM STREET & 10TH	MANHATTEN
9311497	38−52, 38−56 10TH AVE	38−52, 38−56 10TH AVE	MANHATTAN
0412839	ST JUDES CHURCH	431 WEST 204TH ST	MANHATTAN
9312455	512−520 ISHAM ST.	512−520 ISHAM ST.	NEW YORK
9909964	MAJOR DEEGAN EXPRESS	AND FORDOM RD	BRONX
9707112	WEST FORDHAM ROAD	WEST FORDHAM ROAD @DEGAN	BRONX
1203879	ROADWAY	MAJOR DEEGAN EXPY NORTHBOUND NORTH OF WEST FORDHAM	BRONX
1006080	ROADWAY	WEST FORDHAM/MAJOR DEACON EXPRESSWAY	NEW YORK
1003888	WIB 66	MAJOR DEAGEN EXPRESSWAY AND FORDHAM RD	BRONX
0813940	ROADWAY	MAJOR DEEGAN S/B @ FORDHAM RD	BRONX
0407793	MAJOR DEACON EXPRESSWAY	WEST FORDHAM ROAD	BRONX

9708359	SHERMAN REALTY	231 SHERMAN AVE	MANHATTAN
0507332	MANHOLE 409	10TH AVE WEST 211 ST	MANHATTAN
0310736	KINGSBRIDGE BUS DEPOT	211TH STREET	NYC
0305629	KINGSBRIDGE DEPOT	211TH ST	MANHATTAN
9901724	MANHOLE 24188	WEST 204TH ST / 10TH AVE	NEW YORK
8808715	101−109 POST AVE/MANHATTA	101−109 POST AVENUE	NEW YORK CITY
1203449	ERTS/ CENTURY	204TH ST AND NEAGAL	NEW YORK
1312051	BOX TRUCK/CAR WASH	9TH AVE AND WEST 203 ST	NEW YORK/HAARLEM
0403035	SHERMAN CREEK SUBSTATION	9TH AVE/WEST 203 ST	NEW YORK
0106752	SHERMAN CREEK SUB STATION	WEST 203 ST/9TH AVE	MANHATTAN
0713544	APART	248 SHERMAN AVE	NEW YORK
1402037	ROADWAY	EXIT 9 DEGAN WEST FORDHAM RD	BRONX
9914127	TENTH AVE FURNITURE INC	3950 10TH AVE	MANHATTAN
0913950	215119; CEDAR AVENUE AND FORDHAM ROAD	CEDAR AVENUE AND FORDHAM ROAD	NEW YORK
0413128	VAULT #900	FORDHAM RD/CEDAR RD	BRONX
9815473	APT COMPLEX	181 VERMILYEA AVE	MANHATTAN
0506526	MANHOLE #410	10 AVENUE AND 212 STREET	MANHATTAN
1006759	HUNDLEY RESD	2240 CEDAR AVE	BRONX
9003988	549 ISHAM ST/MANHATTAN	549 ISHAM STREET	NEW YORK CITY
0808748	IN WOOD PARK APARTMENTS	585 WEST 204TH ST	MANHATTAN
9708357	APARTMENT BLDG	240 NAGLE AVE	MANHATTAN
1214892	APARTMENT BLDG	189 SHERMAN AVE	MANHATTAN
0300149	2269 HAMPDEN PLACE	2269 HAMPDEN PLACE	BRONX
9416246	9TH AVE & WEST 202 ST	9TH AVE/WEST 202 ST	MANHATTAN
0913335	CON EDISON MANHOLE451	202 ST AND 9TH AVE	MANHATTAN
9707952	207TH ST & VERMILYEA AVE	207TH ST & VERMILYEA AVE	MANHATTAN
0102738	531 WEST 211TH ST	531 WEST 211TH ST	MANHATTAN
9412467	65 POST AVENUE	65 POST AVENUE	MANHATTAN
0602055	YARD	74 POST AVE	MANHATTAN
1007006	APT BLD	573 ISHAM ST	MANHATTAN
9808344	MANHOLE 60575	WEST 202 ST / 10TH AVE	MANHATTAN
9404276	506 WEST 213TH ST	506 WEST 213TH ST	BRONX
0606883	APARTMENT BUILDING	140 VERMILYEA AVE	MANHATTAN
9914385	SHERMAN CREEK SUBSTATION	425 WEST 201 STREET	MANHATTAN
1103536	CON ED SUB STATION SHERMAN	425 WEST 201ST	MANHATTAN
1006058	SHERMAN CREEK SUB STATION	425 WEST 201 STREET	MAHATTAN
0903031	SHERMAN CREEK SUB STATION	425 WEST 201ST ST	MANHATTAN
0806161	SHERMAN CREEK SUBSTATION	425 WEST 201ST ST	MANHATTAN
0713225	SHERMAN CREEK SUBSTATION	425 WEST 201ST STREET	BRONX
0711374	SHERMAN CREEK S/S. 4 OZ CUTTING OIL	425 WEST 201 ST. SUBSTATION	MANHATTAN
0710307	SHERMAN CREEK S/S. POTHEAD	425 WEST 201 STREET. SUBSTATION	MANHATTAN
0303443	SHERMAN CREEK SUBSTATION	425 WEST 201ST STREET	BRONX
0300076	SHERMAN CREEK SUBSTATION	425 WEST 201ST ST	BRONX
0110598	SHERMAN CREEK SUB STATION	425 WEST 201 STREET	MANHATTAN

0006823	SHERMAN CREEK SUBSTATION	425 WEST 201 STREET	MANHATTAN
9801783	SPILL NUMBER 9801783	541 ACADEMY ST	MANHATTAN
0502114	CON ED VEHICLE	LANDING RD & FORDHAM RD	BRONX
0412868	BRONX CABLE HOUSE	LANDING ROAD/FORDAM RD	BRONX
9807558	ACADEMY ROE ASSOCIATED	553 ACADEMY ST	NEW YORK CITY
1001479	APT BLDG	553 ACADEMY ST	MANHATTAN
9410209	SERVICE STATION	3761 TENTH AVENUE	MANHATTAN
0902039	VACANT LOT (OLD GAS STATION)	3761 10TH AVE	MANHATTAN
9612769	4960 BROADWAY	4960 BROADWAY	NEW YORK
9516556	SOLIL MANAGEMENT APTS	4960 BROADWAY	NEW YORK
9515678	APARTMENT COMPLEX	5008 BROADWAY	NEW YORK
0009749	MAN HOLE # 60580	N. SIDE OF ACADMEY ST	MANHATTAN
9810429	MANHOLE #24156	WEST 201ST AND 9TH AV	MANHATTAN
1104562	NR 03 REGULATOR	WEST 201 ST AND 9TH AVE	MANHATTAN
0105825	PORT WASHINGTON AND	201ST ST	MANHATTAN
9509822	172 SHERMAN AVENUE	172 SHERMAN AVENUE	MANHATTAN
0905501	SUB STATION EMIS 217956	200 WEST 201 ST	MANHATTEN
0811571	APARTMENTS	610 WEST 204TH ST	MANHATTAN
0811438	APARTMENT BUILDING	610 W. 204TH ST	MANHATTAN
9812919	SPILL NUMBER 9812919	2305 SEDGEWICK AV	BRONX
8902470	N Y TELEPHONE	5030 BROADWAY	MANHATTAN
0230014	VERIZON	5030 BROADWAY AVENUE	MANHATTAN
9904015	SHERMAN CRK SUB STATION	416 WEST 201ST STREET	MANHATTAN
9903395	SHERMAN CREEK SUB−STATION	416 WEST 201ST STREET	MANHATTAN
9811846	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	MANHATTAN
9811462	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	MANHATTAN
9811387	SHERMAN CREEK SUB STATION	416 WEST 201ST STREET	MANHATTAN
9810017	SHERMAN CREEK SUB STATION	416 WEST 201ST STREET	MANHATTAN
9809472	SHERMAN CREEK SUB STATION	416 WEST 201ST STREET	MANHATTAN
9807486	CON EDISON SHERMAN CREEK	416 WEST 201ST STREET	MANHATTAN
9807310	SHERMAN CREEK SUB STATION	416 E 201ST ST	MANHATTAN
9712356	SHERMAN CREEK SUB SATION	416 WEST 201ST STREET	MANHATTAN
9707435	SHERMAN CREEK SUB STATION	436 WEST 201ST STREET	MANHATTAN
9705790	SHERMAN CREEK SUB STATION	416 WEST 201ST STREET	MANHATTAN
9705392	SHERMAN CREEK SUB	416 WEST 201ST STREET	MANHATTAN
9612597	SHERMAN CREEK STATION	416 WEST 201 ST	BRONX
9604631	SHERMAN CREEK SUB−STATION	416 WEST 201ST STREET	MANHATTAN
9416322	416 WEST 201ST STREET	416 WEST 201ST STREET	MANHATTAN
1200559	ACADEMY SUBSTATION	416 WEST 201 ST	MANHATTAN
0301490	SHERMAN CREEK SUBSTATION	416 WEST 201ST ST	BRONX
0301183	SHERMIN CREEK SUBSTATION	416 WEST 201ST STREET	MANHATTAN
0300542	SHERMAN CREEK SUB ST	416 W 201ST ST	BRONX
0110433	SHERMAN CREEK SUB STATION	416 W 201ST ST	BRONX
0105179	SHERMAN CREEK SUB−STATION	416 WEST 201ST ST	BRONX

0101395	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	MANHATTAN
0008787	SHERMIN CREEK SUBSTATION	416 WEST 201ST STREET	MANHATTAN
0006465	SHERMAN CREEK DIESEL GEN	416 WEST 201ST STREET	MANHATTAN
0002691	SHERMAN CREEK SUBSTATION	416 WEST 201ST STREET	MANHATTAN
0001470	SHERMAN CREEK SUBSTATION	416 W 201ST ST	BRONX
9904525	MANHOLE 412	214TH ST & 10TH AVE	MANHATTAN
9904172	MANHOLE #412	W 214TH ST & 10TH AV	MANHATTAN
0103540	MANHOLE 412	W 214TH ST & TENTH AV	MANHATTAN
9710624	WEST 201 ST AND 10TH AVE	WEST 201 ST AND 10TH AVE	BRONX
9710115	135 W.183TH ST	135 W.183TH ST	BRONX
1003475	NEW ACADEMY SUBSTATION	300 201ST ST	MANHATTAN
1002135	ACADEMY SUBSTATION	300 WEST 201 ST	MANHATTAN
0906849	ACADEMY SUB STATION	300 WEST 201 ST	NEY YORK
0901115	ACADEMY STREET SUB STATION	300 WEST 201ST STREET	MANHATTAN
0813636	ACADEMY SUBSTATION	300 WEST 201ST ST	MANHATTAN
0813598	SUBSTATION	300 WEST 201ST ST	MANHATTAN
0805959	ADADEMY ST SUBSTATION	300 WEST 201ST STREET	NEW YORK
0804291	VEHICLE LEAKED HYDRAULIC FLUID	300 WEST 201 STREET	MANHATTAN
1113159	ROAD	FEDGWICK AVE/WEBB AVE	BRONX
9713410	APT BUILDING	164 SHERMAN AVE	MANHATTAN
0207296	550 ACADEMY STREET	550 ACADEMY ST	NEW YORK
9603793	W FORDHAM RD & SEDGEWICK	W FORDHAM RD & SEDGEWICK	BRONX
9313155	FORDHAM RD / SEDGEWICK AV	FORDHAM RD / SEDGEWICK AV	BRONX
1215853	MAN HOLE 29002	WEST FORDHAM RD AND SEBGWICK AVE	BRONX
0410287	MANHOLE # 12719	SCHEDWICK AVE/FORDAM ROAD	BRONX
0308926	SPILL NUMBER 0308926	FORDHAM RD & SEDGWICK AVE	BRONX
0301808	MANHOLE 29002	FORDHAM RD & SEDGWICK	BRONX
0204153	SPILL NUMBER 0204153	SEDGWICK AV & FORDHAM RD	BRONX
9603050	552 ACADEMY ST	552 ACADEMY ST	MANHATTAN
0413558	SEWER	BROADWAY & 207 TH ST	MANHATTAN
9005621	123 WEST 183RD ST/BX	123 WEST 183RD STREET	NEW YORK CITY
9103098	DYCKMAN	215 NAGLE AVENUE	NEW YORK CITY
9013037	DYCKMAN	215 NAGLE AVENUE	NEW YORK CITY
9700776	APT HOUSE	33−39 POST AVE	MANHATTAN
9515733	GOOD SHEPARD SCHOOL	608 ISHAM ST	MANHATTAN
9011275	500 WEST 215TH ST/MANH	500 WEST 215TH STREET	NEW YORK CITY
0208658	SPILL NUMBER 0208658	500 W 215TH ST	MANHATTAN
9610643	JERUSALEM SERVICE CENTER DCAS −DDC	3725 10TH AVENUE	MANHATTAN
1216575	OPEN EXCAVATION	5056 BROADWAY	MANHATTAN
9911455	61−71 VERMILYEA AVENUE	61−71 VERMILYEA AVENUE	MANHATTAN
9705687	61 RT71/VERMILYEA AV	61 RT71/VERMILYEA AV	MANHATTAN
9600868	61−71 VERMILYEA AVE	61−71 VERMILYEA AVE	MANHATTAN
1307153	GETTY GAS STATION #5424	4880 BROADWAY	MANHATTAN
1304563	GLOBAL GAS STATION	4880 BROADWAY	NEW YORK

0711540	GETTY	4880 BROADWAY & W 204TH ST	NEW YORK
0701818	GETTY #339	4880 BROADWAY	NEW YORK
0510813	GETTY#339	4880 BROADWAY	MANHATTAN
1309460	MANHOLE 29001	SEDRICK AVE AND BAILEY AVE	BRONX
0302609	BAILEY AVE &	N OF SEDGWICK AVE	BRONX
9102292	25 POST AVE	25 POST AVE	MANHATTAN
9502775	5025 BROADWAY	5025 BROADWAY	MANHATTAN
0804412	IN ROADWAY INFRONT OF	5025 BROADWAY	MANHATTAN
0804409	ON THE STRRET IN FRONT OF	5025 BROADWAY	NEW YORK
0409850	BRONX COMMUNITY COLLEGE	BRONX COMMUNITY COLL ON CAMPUS	BRONX
9604408	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	MANHATTAN
9202338	MANHATTAN WEST 12 DOS −DDC	301 WEST 215TH STREET	NYC
1305536	NYC SANITATION M12 LINE FAILURE	301 WEST 215TH STREET	MANHATTAN
0330039	BRONX WEST 08 DOS −DDC	423 WEST 215TH STREET	BRONX
9903875	TM 1160	WEBB AVE/FATHER ZIESER	BRONX
9508364	2316 LORING PLACE	2316 LORING PLACE	BRONX
9505143	2316 LORING PLACE	2316 LORING PLACE	BRONX
9201422	204TH STREET AND ACADEMY	204TH ST AND ACADEMY ST	MANHATTAN
8700506	4856−66 BROADWAY GAS STA	4856−66TH STREET	NEW YORK CITY
0808853	BROADWAY/ACADEMY M311 M314	4862 BROADWAY	
9207502	620 ISHAM STREET	620 ISHAM STREET	MANHATTAN
0814034	ROADWAY	55 COOPER ST	MANHATTAN
9711069	677 WEST 204TH ST	677 WEST 204TH ST	MANHATTAN
9309268	1983 SEDGWICK AVENUE	1983 SEDGWICK AVENUE	BRONX
8807111	1983 SEDGWICK AVE/PELICAN	1983 SEDGWICK AVENUE	NEW YORK CITY
9600119	APT BUILDING	647 WEST 207TH ST	NEW YORK
0910112	PRIVATE RESIDENCE NAME NOT AVAILABLE	170 NAGLE AVE	MANHATTAN
9013235	33 VERMILYEA AVE/MANH	33 VERMILYEA AVENUE	NEW YORK CITY
0709224	OLIVERAS HOME	2311 ANDREWS AVENUE NORTH	BRONX
9414409	2315 ANDREWS AVENUE	2315 ANDREWS AVENUE	BRONX
9707317	117 DYCKMAN ST	117 DYCKMAN ST	MANHATTAN
9302252	216TH ST. & BROADWAY	216TH ST. & BROADWAY	MANHATTAN
9906836	SPILL NUMBER 9906836	153 SEAMAN AVE	MANHATTAN
9208723	5080 BROADWAY	5080 BROADWAY	MANHATTAN
0512612	KINGS BRIDGE DEPOT ANNEX	4056 10TH AVE	NEW YORK
0405540	KINGSBRIDGE BUS DEPOT	4056 10TH AVE	MANHATTAN
0603503	MANHOLE #39462	NAGEL AVENUE & DYCKMAN STREET	MANHATTAN
0903860	A&T FORDHAM CLEANERS INC	130 WEST FORDHAM ROAD	BRONX
0607266	DRY CLEANERS	130 WEST FORDAM ROAD	BRONX
0203131	SPILL NUMBER 0203131	2400 WEBB AVE	BRONX
9903936	VAULT #4811	204TH ST & COOPER ST	MANHATTAN
0814451	213555; ISHAM ST AND SEAMAN ST	ISHAM ST AND SEAMAN ST	NEW YORK
0914051	215827; CEDAR AVENUE AND 180TH STREET	CEDAR AVENUE AND 180TH STREET	NEW YORK
9805441	KINGSBRIDGE DEPOT	4065 10TH AVE	MANHATTAN

9803442	KINGSBRIDGE BUS DEPOT	4065 1OTH AVENUE	MANHATTAN
9612337	KINGS BRIDGE DEPOT	4065 10TH AVE	NEW YORK
1302097	KINGS BRIDEG DEPOT	4065 10TH AVE	MANHATTAN
1011018	BUS STATION GUNHILL	4065 10TH AVE	MANHATTAN
1002580	KINGS BRIDGE BUS DEPOT	4065 10TH AVE	MANHATTEN
0909251	KINGS BRIDGE BUS DEPOT	4065 10TH AVE	MANHATTAN
0900353	KINGS BRIDGE BUS DEPOT	4065 10TH AVE	MANHATTAN
0712224	KINGSBRIDGE DEPOT	4065 10TH AVE	MANHATTEN
0311759	KINGSBRIDGE DEPOT	217TH ST / BROADWAY	MANHATTAN
0230019	KINGSBRIDGE DEPOT	4065 10TH AVENUE	MANHATTAN
0009760	KINGSBRIDGE DEPOT	4065 10TH AV	MANHATTAN
0810936	MANHOLE # 63639	HARLEM RIVER DR & DYKMAN ST	MANHATTAN
0510557	SAGE HALL	BRONX COMMUNITY COLLEGE	BRONX
0413308	MANHOLE # 28185	BROADWAY/ACAMDEMY	MANHATTAN
0003040	MH #28185	BROADWAY/ACADEMY ST	MANHATTAN
0407901	APT BUILDING	153−175 FATHER ZIESER PLA	BRONX
9911713	RESIDENCE	2237 UNIVERSITY AVE	BRONX
0010462	SPILL NUMBER 0010462	109 SEMAN AVE	MANHATTAN
9711076	APARTMENT COMPLEX	60 PARK TERR WEST	MANHATTAN
8901506	60−2 PARK TERRACE WEST	60−2 PARK TERRACE WEST	MANHATTAN
8605749	JACKSONS, 1974 CEDAR AVE	1974 CEDER AVE.	BRONX
9906582	221−229 SEAMAN AVENUE	221−229 SEAMAN AVENUE	MANHATTAN
0409296	MANHOLE 23477	1975 SEDGWICK AV	BRONX
0302733	INSIGNEA	75−77 PARK TERRACE EAST	MANHATTAN
0301752	APARTMENT BLDG	77 PARK TERR EAST	MANHATTAN
0011644	SPILL NUMBER 0011644	75 PARK TERRACE EAST	MANHATTAN
9707814	2545 SEDGWICK AVE	2545 SEDGWICK AVE	BRONX
9612636	RESIDENCE	2545 SEDGWICK AVENUE	BRONX
9002435	2545 SEDGWICK AVE/BX	2545 SEDGWICK AVENUE	NEW YORK CITY
0813139	COMMERCIAL BLDG	30 COOPER ST	MANHATTAN
0609172	ROADWAY	30 COOPER ST.	NEW YORK
9909290	MANHOLE 23741	WEST FORDHAM RD/ANDREWS	BRONX
1302537	PRIVATE RESD	1970 CEDAR AVE	BRONX
1111457	COMMERCIAL PROPERTY	144 SEMAN AVE	MANHATTAN
0411686	PRIVATE RESIDENCE	2448 DEVOE TERRACE	BRONX
0105659	E BLDG PARK TERCE GARDENS	72 PARK TERRACE WEST	MANHATTAN
9511027	2440 WEBB AVE	2440 WEBB AVE	BRONX
0500759	RESIDENCE	2440 WEBB AVE	BRONX
9912073	MANHOLE 23110	SS W 180TH ST & LORING PL	BRONX
0914559	218892; W. 180TH ST AND LORING PL	W. 180TH ST AND LORING PL	BRONX
9908626	TM 2320	W 218TH ST/BROADWAY	MANHATTAN
0612589	6 GAL HYDRAUL FLUID FROM VEH 60565	WEST BROADWAY & 218 STREET	MANHATTAN
0510983	TM 2320	BROADWAY & 218 ST	MANHATTAN
0808843	SHERMAN CREEK − PS 5	3703 TENTH AVE.	



NO OIL STORAGE FACILITIES LARGER THAN 400,000 GALLONS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS



PETROLEUM BULK STORAGE FACILITIES LESS THAN 400,000 GALLONS IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 292 **HESS 32517** **Facility Id: 2−297453** **Source: NYS DEC**
401 WEST 207TH STREET @ 9TH AVE. NEW YORK, 10034 TT−Id: 640A−0032−449

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 204 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 401 WEST 207TH STREET
Revised zip code: NO CHANGE

Facility Type: Retail Gasoline Sales
Site Status: Active
Expiration Date of the facility's registration certificate: 05/23/2015
Operator Name: SITE MANAGER
Operator Phone #: (212) 569−3634
Owner Name: −
Owner Company: HESS CORPORATION
Owner Type: Corporate or Commercial
Owner Address: 1 HESS PLAZA, WOODBRIDGE, NJ 07095

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
4	Closed − Removed	Gasoline	4000	Underground	09/01/1980	07/01/1995	04/01/1996
2	Closed − Removed	Gasoline	4000	Underground	09/01/1980	07/01/1995	04/01/1996
1	Closed − Removed	Gasoline	2000	Underground	09/01/1980	07/01/1995	04/01/1996
3	Closed − Removed	Gasoline	2000	Underground	09/01/1980	07/01/1995	04/01/1996
5	Closed − Removed	Gasoline	4000	Underground	09/01/1980	07/01/1995	04/01/1996
6	Closed − Removed	Gasoline	4000	Underground	09/01/1980	07/01/1995	04/01/1996
0F7	Closed − Removed	#2 Fuel Oil	2000	Underground	09/01/1980	04/01/1991	07/01/1991
0W8	Closed − Removed	Other	550	Underground	09/01/1980		07/01/1991
009	Closed − Removed	Other	550	Underground	07/01/1991	07/01/1995	03/21/2002
010	Closed − Removed	Gasoline	550	Underground			04/01/1996
011	Closed − Removed	Gasoline	550	Underground			04/01/1996
012	Closed − Removed	Gasoline	550	Underground			04/01/1996
013	Closed − Removed	Gasoline	550	Underground			04/01/1996
014	Closed − Removed	Gasoline	550	Underground			04/01/1996
015	Closed − Removed	Gasoline	550	Underground			04/01/1996
016	Closed − Removed	Gasoline	550	Underground			04/01/1996
017	Closed − Removed	Gasoline	550	Underground			04/01/1996
018	Closed − Removed	Gasoline	550	Underground			04/01/1996

**** TANK INFO CONTINUES ON NEXT PAGE ****

019	Closed − Removed	Gasoline	550	Underground			04/01/1996
020	Closed − Removed	Gasoline	550	Underground			04/01/1996
021	Closed − Removed	Gasoline	550	Underground			04/01/1996
022	Closed − Removed	Gasoline	550	Underground			04/01/1996
023	Closed − Removed	Gasoline	550	Underground			04/01/1996
024	Closed − Removed	Gasoline	550	Underground			04/01/1996
025	Closed − Removed	Gasoline	550	Underground			04/01/1996
026	Closed − Removed	Gasoline	550	Underground			04/01/1996
027	Closed − Removed	Gasoline	550	Underground			04/01/1996
028	Closed − Removed	Gasoline	550	Underground			04/01/1996
029	Closed − Removed	Gasoline	550	Underground			04/01/1996
030	Closed − Removed	Gasoline	550	Underground			04/01/1996
031	Closed − Removed	Gasoline	550	Underground			04/01/1996
032	Closed − Removed	Gasoline	550	Underground			04/01/1996
033	Closed − Removed	Gasoline	550	Underground			04/01/1996
034	Closed − Removed	Gasoline	550	Underground			04/01/1996
035	Closed − Removed	Gasoline	550	Underground			04/01/1996
036	Closed − Removed	Gasoline	550	Underground			04/01/1996
037	Closed − Removed	Gasoline	550	Underground			04/01/1996
038	Closed − Removed	Gasoline	550	Underground			04/01/1996
039	Closed − Removed	Gasoline	550	Underground			04/01/1996
040	Closed − Removed	Gasoline	550	Underground			04/01/1996
041	Closed − Removed	Gasoline	550	Underground			04/01/1996
042	Closed − Removed	Gasoline	550	Underground			04/01/1996
043	Closed − Removed	Gasoline	550	Underground			04/01/1996
044	Closed − Removed	Gasoline	550	Underground			04/01/1996
045	Closed − Removed	Gasoline	550	Underground			04/01/1996
046	In Service	Gasoline/Ethanol	4000	Underground	04/01/1996		
The following tank 046 content has been deleted or replaced: Gasoline							
047	In Service	Gasoline/Ethanol	4000	Underground	04/01/1996		
The following tank 047 content has been deleted or replaced: Gasoline							
048	In Service	Gasoline/Ethanol	4000	Underground	04/01/1996	08/01/1997	
The following tank 048 content has been deleted or replaced: Gasoline							
049	In Service	Gasoline/Ethanol	4000	Underground	04/01/1996	08/01/1997	
The following tank 049 content has been deleted or replaced: Gasoline							
050	In Service	Diesel	4000	Underground	04/01/1996	08/01/1997	
38	Closed − Removed	#2 Fuel Oil	2000	Underground	02/01/1964		04/01/1996
The following tank(s) were either deleted from the reported data or the number was re−assigned.							
9	In Service	OTHER	550	Underground	07/91	07/95	

TANK NUMBER:	4	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:		DISPENSER METHOD:	Submersible

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

TANK NUMBER:	2	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:		DISPENSER METHOD:	Submersible
TANK NUMBER:	1	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:		DISPENSER METHOD:	Submersible
TANK NUMBER:	3	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:		DISPENSER METHOD:	Submersible
TANK NUMBER:	5	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:		DISPENSER METHOD:	Submersible
TANK NUMBER:	6	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:		DISPENSER METHOD:	Submersible
TANK NUMBER:	0F7	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	No Piping		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Submersible
TANK NUMBER:	0W8	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	
TANK NUMBER:	009	TANK TYPE:	Fiberglass Coated Steel	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Fiberglass	TANK LEAK DETECTN:	Interstitial − Electronic Monitoring	TK SEC. CONTAINMNT:	Double−Walled (Underground)

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN: Pressurized Piping Leak Detector
Interstitial − Electronic Monitoring
PIPE SEC. CONTAINMNT: Double−Walled (Underground)
PIPING TYPE: No Piping
PIPING LOCATION: No Piping
OVERFILL PROTECTION: Float Vent Valve
SPILL PREVENTION: Catch Basin
DISPENSER METHOD:

TANK NUMBER: 010
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 011
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 012
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 013
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 014
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 015
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 016
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: Underground/On−ground

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	017	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	018	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	019	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	020	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	021	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	022	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	023	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	024	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None SPILL PREVENTION: DISPENSER METHOD: Suction

TANK NUMBER: 025 TANK TYPE: Steel/Carbon Steel/Iron TK INT. PROTECTION: None
TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None SPILL PREVENTION: DISPENSER METHOD: Suction

TANK NUMBER: 026 TANK TYPE: Steel/Carbon Steel/Iron TK INT. PROTECTION: None
TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None SPILL PREVENTION: DISPENSER METHOD: Suction

TANK NUMBER: 027 TANK TYPE: Steel/Carbon Steel/Iron TK INT. PROTECTION: None
TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None SPILL PREVENTION: DISPENSER METHOD: Suction

TANK NUMBER: 028 TANK TYPE: Steel/Carbon Steel/Iron TK INT. PROTECTION: None
TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None SPILL PREVENTION: DISPENSER METHOD: Suction

TANK NUMBER: 029 TANK TYPE: Steel/Carbon Steel/Iron TK INT. PROTECTION: None
TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None SPILL PREVENTION: DISPENSER METHOD: Suction

TANK NUMBER: 030 TANK TYPE: Steel/Carbon Steel/Iron TK INT. PROTECTION: None
TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None SPILL PREVENTION: DISPENSER METHOD: Suction

TANK NUMBER: 031 TANK TYPE: Steel/Carbon Steel/Iron TK INT. PROTECTION: None
TANK EXT. PROTECTION: None TANK LEAK DETECTN: None TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None PIPING LEAK DETECTN: PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel PIPING LOCATION: Underground/On−ground
**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	032	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	033	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	034	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	035	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	036	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	037	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	038	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction
TANK NUMBER:	039	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	040	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	041	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	042	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	043	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	044	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	045	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Galvanized Steel	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	046	TANK TYPE:	Fiberglass Reinforced Plastic (FRP)	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Fiberglass	TANK LEAK DETECTN:	Interstitial − Electronic Monitoring	TK SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING EXT. PROTECTN:	Fiberglass	PIPING LEAK DETECTN:	Exempt Suction Piping Interstitial − Electronic Monitoring	PIPE SEC. CONTAINMNT:	Double−Walled (Underground)

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

PIPING TYPE:	Fiberglss Reinforcd Plastic(FRP)	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:	Catch Basin	DISPENSER METHOD:	Suction
TANK NUMBER:	047	TANK TYPE:	Fiberglass Reinforced Plastic (FRP)	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Fiberglass	TANK LEAK DETECTN:	Interstitial − Electronic Monitoring	TK SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING EXT. PROTECTN:	Fiberglass	PIPING LEAK DETECTN:	Interstitial − Electronic Monitoring Pressurized Piping Leak Detector	PIPE SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING TYPE:	Fiberglss Reinforcd Plastic(FRP)	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:	Catch Basin	DISPENSER METHOD:	Submersible
TANK NUMBER:	048	TANK TYPE:	Fiberglass Reinforced Plastic (FRP)	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Fiberglass	TANK LEAK DETECTN:	Interstitial − Electronic Monitoring	TK SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING EXT. PROTECTN:	Fiberglass	PIPING LEAK DETECTN:	Interstitial − Electronic Monitoring Pressurized Piping Leak Detector	PIPE SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING TYPE:	Fiberglss Reinforcd Plastic(FRP)	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:	Catch Basin	DISPENSER METHOD:	Submersible
TANK NUMBER:	049	TANK TYPE:	Fiberglass Reinforced Plastic (FRP)	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Fiberglass	TANK LEAK DETECTN:	Interstitial − Electronic Monitoring	TK SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING EXT. PROTECTN:	Fiberglass	PIPING LEAK DETECTN:	Exempt Suction Piping Interstitial − Electronic Monitoring	PIPE SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING TYPE:	Fiberglss Reinforcd Plastic(FRP)	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:	Catch Basin	DISPENSER METHOD:	Suction
TANK NUMBER:	050	TANK TYPE:	Fiberglass Reinforced Plastic (FRP)	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Fiberglass	TANK LEAK DETECTN:	Interstitial − Electronic Monitoring	TK SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING EXT. PROTECTN:	Fiberglass	PIPING LEAK DETECTN:	Interstitial − Electronic Monitoring Pressurized Piping Leak Detector	PIPE SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING TYPE:	Fiberglss Reinforcd Plastic(FRP)	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	Float Vent Valve	SPILL PREVENTION:	Catch Basin	DISPENSER METHOD:	Submersible
TANK NUMBER:	38	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None	TANK LEAK DETECTN:	Other	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Copper	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	

The following tank data pertains to a tank or tanks that were either deleted from the reported data or the tank number was re−assigned.

TANK NUMBER:	9	TANK TYPE:	Fiberglass Coated Steel	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	None Fiberglass	TANK LEAK DETECTN:	None Interstitial Monitoring	TK SEC. CONTAINMNT:	None Double−Walled Tank
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	None	PIPING LOCATION:	None		
OVERFILL PROTECTION:		SPILL PREVENTION:		DISPENSER METHOD:	

Map Identification Number 293 **MERIT OIL OF NY INC** **Facility Id: NY06631** **Source: NYC FIRE DEPT**
3876 9 AVE NEW YORK, NY 10034 TT−Id: 660A−0006−615

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 204 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 3876 9TH AVE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: 2−2000GAL& 4−4000GAL ,TLT11/2/89
(4)DIS.LINES RPLT−12/14/90
LUB OIL

Map Identification Number 294 **HARLEM RIVER BRIDGES** **Facility Id: 2−242179** **Source: NYS DEC**
300 WEST 206TH STREET NEW YORK, 10034 TT−Id: 640A−0030−863

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 433 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Other
Site Status: Unregulated
Expiration Date of the facility's registration certificate: 06/30/2007
Operator Name: FACILITY MANAGER
Operator Phone #: (212) 569−5100
Owner Name: −
Owner Company: NYC DEPARTMENT OF TRANSPORTATION
Owner Type: Local Government
Owner Address: 40 WORTH STREET, NEW YORK, NY 10013

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
002	Closed − Removed	Gasoline	550	Underground	12/01/1952		11/01/1994
003	Closed − Removed	Gasoline	550	Underground	12/01/1952		11/01/1994
001	Closed − Removed	#2 Fuel Oil	3000	Underground	12/01/1952		04/05/1995
001−A	Closed − In Place	#2 Fuel Oil	3000	Underground			07/01/2003

Map Identification Number 295 **NYC DEPT. TRANSPORTATION** **Facility Id: NY07432** **Source: NYC FIRE DEPT**
300 W 206 ST NEW YORK, NY 10034 TT−Id: 660A−0006−699

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 433 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 300 W 206TH ST
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: PFS 2−550GAL TKS TLT 4/19/89 (NRP)
LUB OIL OXY & ACET,PAINTS.
ALT (4) −6/89,SEE FOLDER

Map Identification Number 296 **MANHATTAN BIBLE CHURCH INC** **Facility Id: 2−197432** **Source: NYS DEC**
401 W 205TH ST NEW YORK, 10034 TT−Id: 640A−0033−283

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 516 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: School
Site Status: Active
Expiration Date of the facility's registration certificate: 07/20/2017
Operator Name: MANHATTAN BIBLE CHURCH INC
Operator Phone #: (212) 567−2276
Owner Name: WILLIAM LOPEZ − FACILITIES ADMINISTRATOR
Owner Company: MANHATTAN BIBLE CHURCH INC
Owner Type: Corporate or Commercial
Owner Address: 401 W 205TH ST, NEW YORK, NY 10034

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#2 Fuel Oil	3000	Underground Vaulted with Access	02/02/1989		

Map Identification Number 297 **420 WEST 206TH ST OWNERS CORP** **Facility Id: 2−147362** **Source: NYS DEC**
420 WEST 206TH STREET NEW YORK, 10034 TT−Id: 640A−0033−287

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 548 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Apartment Building/Office Building
Site Status: Active
Expiration Date of the facility's registration certificate: 08/26/2017
Operator Name: WALTER CAMBRELAIN
Operator Phone #: (212) 304−0423

Owner Name: MILAGROS MARTINEZ − MANAGING AGENT
Owner Company: 420 W 206 ST OWNERS CORP
Owner Type: Corporate or Commercial
Owner Address: 733 YONKERS AVE SUITE 103, YONKERS, NY 10704

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#6 Fuel Oil	5000	Aboveground on Crib Rack or Cradle	05/14/1947		

Map Identification Number 298 **MIRIAM YEDID REALTY LLC** **Facility Id: 2−266353** **Source: NYS DEC**
403 WEST 205TH ST NEW YORK, 10034 TT−Id: 640A−0033−285

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 550 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Apartment Building/Office Building
Site Status: Active
Expiration Date of the facility's registration certificate: 03/21/2017
Operator Name: LOUISE PENA
Operator Phone #: (646) 522−0272
Owner Name: MIRIAM YEDID REALTY LLC − MGR
Owner Company: MIRIAM YEDID REALTY LLC
Owner Type: Corporate or Commercial
Owner Address: 448 AVE W, BROOKLYN, NY 11223

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#2 Fuel Oil	4000	Aboveground − In Contact with Soil	01/01/1940		

Map Identification Number 299 **407 WEST 205TH STREET** **Facility Id: 2−129925** **Source: NYS DEC**
407 WEST 205TH STREET NEW YORK, 10034 TT−Id: 640A−0033−282

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 570 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Apartment Building/Office Building
Site Status: Active
Expiration Date of the facility's registration certificate: 12/04/2017
Operator Name: NOBERTO ROZON
Operator Phone #: (212) 942−0365
Owner Name: MORREY A. FORMAN − AGENT
Owner Company: 407−205 LLC
Owner Type: Corporate or Commercial
Owner Address: 775 BROOKLYN AVE, SUITE103, BALDWIN, NY 11510

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#2 Fuel Oil	2000	Aboveground − In Contact with Soil	02/01/1981		

Map Identification Number 300 **425 WEST 205TH ST CORP** **Facility Id: 2−241164** **Source: NYS DEC**
425 WEST 205TH ST NEW YORK, 10034 TT−Id: 640A−0033−284

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 627 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Apartment Building/Office Building
Site Status: Active
Expiration Date of the facility's registration certificate: 06/30/2017
Operator Name: ALEJANDRO ESPAILLAT
Operator Phone #: (646) 696−1030
Owner Name: CARL S. YOUNG − PRESIDENT
Owner Company: 425 WEST 205 STREET CORP
Owner Type: Corporate or Commercial
Owner Address: 2 CHESLEY ROAD, WHITE PLAINS, NY 10605

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#6 Fuel Oil	5000	Aboveground − In Contact with Soil	01/01/1947		

Map Identification Number 301 **NYCTA 207TH STREET OVERHAUL SHOP** **Facility Id: 2−189960** **Source: NYS DEC**
3961 TENTH AVENUE NEW YORK, 10038 TT−Id: 640A−0035−975

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 633 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3961 10TH AVE
Revised zip code: 10034

Facility Types: Trucking/Transportation/Fleet Operation
The following additional facility type data has not been updated since 2002.
Trucking/Transporation
Site Status: Active
Expiration Date of the facility's registration certificate: 10/15/2017
Operator Name: NYC TRANSIT AUTHORITY
Operator Phone #: (212) 544−3112
Owner Name: −
Owner Company: NYC TRANSIT AUTHORITY
Owner Type: MTA and Its Subsidiaries
Owner Address: 2 BROADWAY, NEW YORK, NY 10004

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
2071	Closed − Removed	Kerosene	120	Aboveground − In Contact with Soil	11/07/1997		
W/O−SHOP−4	In Service	Waste Oil/Used Oil	120	Aboveground on Crib Rack or Cradle	12/03/2001		
207−1	In Service	#6 Fuel Oil	35000	Underground	12/01/1954		
207−2	Temporarily Out of Service	#6 Fuel Oil	35000	Underground	12/01/1954		
006	Closed − Removed	#2 Fuel Oil	275	Aboveground − In Contact with Soil			
207−5	Closed − Removed	Diesel	35	Abovegrnd − In Contact w/Imperv. Barrier	01/01/2002		09/05/2006
E/G−SHOP−1	In Service	Diesel	180	Abovegrnd − In Contact w/Imperv. Barrier	08/10/2001		
207−3	In Service	#2 Fuel Oil	400	Abovegrnd − In Contact w/Imperv. Barrier	03/07/1999		
E/G−SHOP−2	In Service	Diesel	12	Abovegrnd − In Contact w/Imperv. Barrier	08/10/2001		
W/O−BARN−1	In Service	Waste Oil/Used Oil	120	Aboveground on Crib Rack or Cradle	09/05/2006		
W/O−BARN−2	In Service	Waste Oil/Used Oil	120	Aboveground on Crib Rack or Cradle	09/05/2006		
W/O−SHOP−1	In Service	Waste Oil/Used Oil	120	Aboveground on Crib Rack or Cradle	09/05/2006		
W/O−SHOP−2	In Service	Waste Oil/Used Oil	120	Aboveground on Crib Rack or Cradle	09/05/2006		
W/O−SHOP−3	In Service	Waste Oil/Used Oil	120	Aboveground on Crib Rack or Cradle	09/05/2006		
The following tank(s) were either deleted from the reported data or the number was re−assigned.							
002	In Service	#1 2 OR 4 FUEL OIL	275	Aboveground	00/00		
003	In Service	#1 2 OR 4 FUEL OIL	275	Aboveground	00/00		
004	In Service	#5 OR 6 FUEL OIL	35000	Underground	12/54		
005	In Service	#5 OR 6 FUEL OIL	35000	Underground	12/54		
007	In Service	#1 2 OR 4 FUEL OIL	60	Aboveground	00/00		
001	Closed−Rmvd from Ground	UNLEADED GASOLINE	500	Underground	12/64		00/00
207−4	In Service	#6 Fuel Oil	35000	Underground	12/01/1954		
207−6	In Service	Diesel	180	Aboveground − In Contact with Soil	08/10/2001		
207−7	In Service	#6 Fuel Oil	400	Aboveground − In Contact with Soil	03/07/1999		
207−8	In Service	Diesel	12	Aboveground − In Contact with Soil			

Map Identification Number 302 **9TH AVENUE SHOP** **Facility Id: 2−609046** **Source: NYS DEC**
3884 NINTH AVENUE NEW YORK, 10034 TT−Id: 640A−0035−976

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 633 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3884 9TH AVE
Revised zip code: NO CHANGE

Facility Type: Trucking/Transportation/Fleet Operation
Site Status: Active
Expiration Date of the facility's registration certificate: 06/24/2018
Operator Name: NYC TRANSIT
Operator Phone #: (718) 243−3449
Owner Name: −
Owner Company: NEW YORK CITY TRANSIT
Owner Type: Local Government
Owner Address: 2 BROADWAY, 27TH FLOOR, NEW YORK, NY 10004

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
W/O−1	In Service	Waste Oil/Used Oil	275	Aboveground − In Contact with Soil	01/01/1982		
W/O−2	In Service	Waste Oil/Used Oil	275	Aboveground − In Contact with Soil	01/01/1982		
The following tank(s) were either deleted from the reported data or the number was re−assigned.							
WASTOIL1	In Service	Waste Oil/Used Oil	275	Aboveground − In Contact with Soil	01/01/1982		
WASTOIL2	In Service	Waste Oil/Used Oil	275	Aboveground − In Contact with Soil	01/01/1982		



HAZARDOUS WASTE GENERATORS/TRANSPORTERS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 303 **NYSDEC Name:** **NYNEX** **Facility Id: NYP000922252**
NYSDEC Address: 207TH ST/9TH AVE NEW YORK, NY 10027 TT−Id: 740A−0028−444

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 67 feet to the W*

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 9TH AVE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	600	POUNDS	GENERATED	1995		

Map Identification Number 304 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004148946**
NYSDEC Address: W 207 ST & 9 AVE NEW YORK, NY 10034 TT−Id: 740A−0064−796
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: W 207 ST & 9 AVE NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 67 feet to the W*

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 9TH AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal:
Storer:
Receives offsite waste:
Treatment facility:
Notification date: None Given
Incinerator:
Transporter:

Contact Name: FRANKLIN MURRAY	Source Type: Annual/Biennial Report update with Notification	Contact Phone: 212−460−2808	Contact Info Date: 02/21/2008
Contact Name: PAUL WALSH	Source Type: Emergency	Contact Phone: 212−580−8383	Contact Info Date: 03/14/2008
Contact Name: PAUL WALSH	Source Type: Implementer	Contact Phone: 212−580−8383	Contact Info Date: 03/15/2008

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm	985	KILOGRAMS	GENERATED	2007		
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	2822	KILOGRAMS	GENERATED	2007		

Map Identification Number 305 **NYSDEC Name:** **CONED** **Facility Id: NYP004181194**

NYSDEC Address: 9TH AVE W207TH ST MANHATTAN, NY 10001 TT−Id: 740A−0067−651
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: 3857 W 207TH ST NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 67 feet to the W*

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 9TH AVE
Revised zip code: 10034

Special Note(s): The New York State Department of Environmental Conservation and the U. S. Environmental Protection Agency have reported different locations for this hazardous waste identification number. Available information for both locations is summarized below.

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR Notification date: None Given
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: DAVID DUKE Source Type: Emergency Contact Phone: 917−559−8971 Contact Info Date: 06/25/2009

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1000	POUNDS	GENERATED	2009		

Map Identification Number 306 **NYSDEC Name:** **NYSDOT G CAMPBELL PAINTING D500777** **Facility Id: NYD986943256**

NYSDEC Address: 207 ST OVER HARLEM RIVER NEW YORK, NY 10034 TT−Id: 740A−0028−467
EPA (RCRA) Name: NYSDOT G CAMPBELL PAINTING D500777
EPA (RCRA) Address: 207 ST OVER HARLEM RIVER NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 108 feet to the SSE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Notification date: 03/08/1991
Incinerator:
Transporter:
Contact Name: GEORGE CAMPBELL Source Type: Implementer Contact Phone: 718−353−8330 Contact Info Date: 01/01/2007
Contact Name: GEORGE CAMPBELL Source Type: Notification Contact Phone: 718−353−8330 Contact Info Date: 03/08/1991

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 307 **NYSDEC Name:** **AMERADA HESS CORPORATION** **Facility Id: NYD982185662**

NYSDEC Address: 401 WEST 207 STREET NEW YORK, NY 10032 TT−Id: 740A−0026−196
EPA (RCRA) Name: MERIT OIL CORP
EPA (RCRA) Address: 401 W 207TH ST & 9TH AVE NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 195 feet to the WNW*

ADDRESS CHANGE INFORMATION
Revised street: 401 WEST 207TH ST
Revised zip code: 10034

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Notification date: 05/11/1987
Incinerator:
Transporter:
Contact Name: DOM DEBENEDICTIS Source Type: Notification Contact Phone: 516−731−36 Contact Info Date: 05/11/1987

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability	1000	GALLONS	GENERATED	1996		

Map Identification Number 308 **NYSDEC Name:** **CONSOLIDATED EDISON − MH 40047** **Facility Id: NYP004221727**

NYSDEC Address: N/E/C WEST 206 ST & 9TH AVE NEW YORK, NY 10034 TT−Id: 740A−0076−480
EPA (RCRA) Name: CON EDISON MANHOLE 40047
EPA (RCRA) Address: W 206TH ST & 9TH AVE NE COR NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 339 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: W 206TH ST / 9TH AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: JUAN RODRIGUEZ Source Type: Emergency Contact Phone: 347−865−5931 Contact Info Date: 12/12/2010
Contact Name: JUAN RODRIGUEZ Source Type: Implementer Contact Phone: 347−865−5931 Contact Info Date: 01/11/2011

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1500	POUNDS	GENERATED	2010		

Map Identification Number 309 **NYSDEC Name:** **NYCDOT BIN 2240120** **Facility Id: NYR000052464**

NYSDEC Address: W 207TH ST BRG OVER HARLEM RIV BRONX, NY 10468 TT−Id: 740A−0003−442
EPA (RCRA) Name: NYCDOT BIN 2240120
EPA (RCRA) Address: W 207TH ST BRG OVER HARLEM RIV BRONX, NY 10468

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 469 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Notification date: 03/27/1998
Incinerator:
Transporter:
Contact Name: ALEX BEZCHASTNOV Source Type: Implementer Contact Phone: 212−788−2091 Contact Info Date: 01/01/2007
Contact Name: ALEX BEZCHASTNOV Source Type: Notification Contact Phone: 212−788−2091 Contact Info Date: 03/27/1998

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 310 **NYSDEC Name:** **NYSDOT HARLEM RIVER GARAGE** **Facility Id: NY0000709394**
NYSDEC Address: 300 W 206TH ST NEW YORK, NY 10034 TT−Id: 740A−0024−715
EPA (RCRA) Name: NYSDOT HARLEM RIVER GARAGE
EPA (RCRA) Address: 300 W 206TH ST NEW YORK, NY 100343717

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 499 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Notification date: 09/12/1994
Incinerator:
Transporter:
Contact Name: ED EDWARDS Source Type: Notification Contact Phone: 212−669−4616 Contact Info Date: 09/12/1994

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 311 **NYSDEC Name:** **NYCTA 215 ST SIGNALS** **Facility Id: NY0000366542**

NYSDEC Address: 396 WEST 215TH STREET NEW YORK, NY 10034 TT−Id: 740A−0026−130
EPA (RCRA) Name: NYCT−215 SIGNAL SHOP
EPA (RCRA) Address: 396 W 215 ST NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Notification date: 06/15/1994
Incinerator:
Transporter:

Contact Name: JENNIFER WUOTINEN	Source Type: Annual/Biennial Report update with Notification	Contact Phone: 646−252−5777	Contact Info Date: 03/02/2010
Contact Name: JENNIFER WUOTINEN	Source Type: Implementer	Contact Phone: 646−252−5774	Contact Info Date: 11/10/2010
Contact Name: HOWARD MATZA	Source Type: Notification	Contact Phone: 718−330−4581	Contact Info Date: 06/15/1994
Contact Name: JENNIFER WUOTINEN	Source Type: Annual/Biennial Report	Contact Phone: 646−252−5777	Contact Info Date: 04/25/2008

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR
SMALL QUANTITY GENERATOR

US EPA RCRA Violations:

Violation Type: Generators − General
Violation Number: 0001 Location: NY
Former Citation: FR − Multiple
Responsible Agency: EPA
Violation Determination Date: 02/22/2006
Violation Return to Compliance: 04/14/2006

Violation Type: Listing − General
Violation Number: 0002 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 12/29/2010

Violation Type: Generators − General
Violation Number: 0003 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 08/16/2012

Violation Type: Generators − Manifest
Violation Number: 0004 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: State Statute or Regulation
Violation Number: 0005 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: State Statute or Regulation
Violation Number: 0006 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: Generators − Records/Reporting
Violation Number: 0007 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: TSD Interim Status−General Facility Standards
Violation Number: 0008 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: TSD Interim Status−General Facility Standards
Violation Number: 0009 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 12/29/2010

Violation Type: TSD Interim Stat−Preparedness and Prevention
Violation Number: 0010 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 12/29/2010

Violation Type: TSD Interim Stat−Preparedness and Prevention
Violation Number: 0011 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 12/29/2010

Violation Type: TSD Int Stat−Contingency Plan and Emer Procedures
Violation Number: 0012 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: TSD Int Stat−Contingency Plan and Emer Procedures
Violation Number: 0013 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: Universal Waste − Small Quantity Handlers
Violation Number: 0014 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: Generators − Pre−transport
Violation Number: 0015 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 11/26/2010
Violation Return to Compliance: 12/29/2010

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D006	Cadmium	472	POUNDS	GENERATED	2010	13746	1997
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2010	165	2006
D001	Solid waste that exhibits the characteristic of ignitability						
D008	Lead						
More than one waste code was reported for the following waste amount:		330	GALLONS	GENERATED	2010	660	2009
D006	Cadmium						
D008	Lead						
More than one waste code was reported for the following waste amount:		2300	POUNDS	GENERATED	2010		
D006	Cadmium						
D008	Lead						
D001	Solid waste that exhibits the characteristic of ignitability	22	GALLONS	GENERATED	2008	1210	2000
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2008		
D001	Solid waste that exhibits the characteristic of ignitability						
F003	Spent non−halogenated solvents						
More than one waste code was reported for the following waste amount:		1542	POUNDS	GENERATED	2008	2484	2006
D002	Solid waste that exhibits the characteristic of corrosivity						
D006	Cadmium						
More than one waste code was reported for the following waste amount:		1	CUBIC YDS	GENERATED	2007		
D002	Solid waste that exhibits the characteristic of corrosivity						
D006	Cadmium						
D002	Solid waste that exhibits the characteristic of corrosivity	1297	POUNDS	GENERATED	2006	2255	2005
D006	Cadmium	165	GALLONS	GENERATED	2006	4800	1997
D007	Chromium	440	KILOGRAMS	GENERATED	2006		
D008	Lead	110	GALLONS	GENERATED	2006	825	1995
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	625	KILOGRAMS	GENERATED	2005	2522	2004
D001	Solid waste that exhibits the characteristic of ignitability	18	POUNDS	GENERATED	2005		
D002	Solid waste that exhibits the characteristic of corrosivity	495	GALLONS	GENERATED	2005	2540	1995
D008	Lead	516	KILOGRAMS	GENERATED	2005		

NYS DEC Manifested Waste Transactions for NY0000366542 continued −−−

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	983	POUNDS	GENERATED	2005		
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm	294	KILOGRAMS	GENERATED	2004		
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	1200	POUNDS	GENERATED	2004		
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	110	GALLONS	GENERATED	2003		
B006	PCB Transformers.	177	KILOGRAMS	GENERATED	1998		
D007	Chromium	55	GALLONS	GENERATED	1997	1518	1996
F005	Spent non−halogenated solvents	55	GALLONS	GENERATED	1997	110	1995
F003	Spent non−halogenated solvents	110	GALLONS	GENERATED	1996	220	1995

Map Identification Number 312 **NYSDEC Name:** **NYCTA** **Facility Id: NYD000366542**
NYSDEC Address: 396 W 215TH ST NEW YORK, NY 10034 TT−Id: 740A−0024−733

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.
US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability	353	GALLONS	GENERATED	1999		

Map Identification Number 313 **NYSDEC Name:** **MTA NYCT** **Facility Id: NYD980646335**
NYSDEC Address: 3961 10TH AVENUE NEW YORK, NY 10034 TT−Id: 740A−0026−168
EPA (RCRA) Name: NYCT−207TH STREET YARD
EPA (RCRA) Address: 3961 10TH AVE NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR Notification date: 12/16/1980
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:

Contact Name: CLARE SAMMON	Source Type: Annual/Biennial Report update with Notification	Contact Phone: 646−252−5777	Contact Info Date: 03/02/2012
Contact Name: JOSEPHINE BROWN	Source Type: Implementer	Contact Phone: 646−252−5777	Contact Info Date: 01/01/2007
Contact Name: JOHN SQUITIERI	Source Type: Notification	Contact Phone: 212−330−4782	Contact Info Date: 12/16/1980
Contact Name: JENNIFER WUOTINEN	Source Type: Annual/Biennial Report	Contact Phone: 646−252−5777	Contact Info Date: 02/07/2008

US EPA RCRA Violations:

Violation Type: Generators − General	Responsible Agency:	EPA
Violation Number: 0001 Location: NY	Violation Determination Date:	05/25/1982
Former Citation:	Violation Return to Compliance:	07/19/1984
Violation Type: Generators − General	Responsible Agency:	EPA
Violation Number: 0002 Location: NY	Violation Determination Date:	05/25/1982
Former Citation:	Violation Return to Compliance:	07/19/1984
Violation Type: Generators − General	Responsible Agency:	EPA
Violation Number: 0003 Location: NY	Violation Determination Date:	05/25/1982
Former Citation:	Violation Return to Compliance:	07/19/1984
Violation Type: Generators − General	Responsible Agency:	STATE
Violation Number: 0004 Location: NY	Violation Determination Date:	08/22/1984
Former Citation:	Violation Return to Compliance:	06/10/1985
Violation Type: Generators − General	Responsible Agency:	EPA
Violation Number: 5010 Location: NY	Violation Determination Date:	04/15/1985
Former Citation:	Violation Return to Compliance:	07/13/1984
Violation Type: Generators − General	Responsible Agency:	EPA
Violation Number: 5011 Location: NY	Violation Determination Date:	04/15/1985
Former Citation:	Violation Return to Compliance:	07/13/1984
Violation Type: Generators − General	Responsible Agency:	EPA
Violation Number: 5012 Location: NY	Violation Determination Date:	04/15/1985
Former Citation:	Violation Return to Compliance:	07/13/1984
Violation Type: Generators − General	Responsible Agency:	STATE
Violation Number: 0013 Location: NY	Violation Determination Date:	05/22/1985
Former Citation:	Violation Return to Compliance:	03/09/1987
Violation Type: Generators − Manifest	Responsible Agency:	EPA
Violation Number: 0005 Location: NY	Violation Determination Date:	05/23/1985
Former Citation:	Violation Return to Compliance:	01/28/1987

Violation Type: Generators − General
Violation Number: 0006 Location: NY
Former Citation:
Responsible Agency: EPA
Violation Determination Date: 05/23/1985
Violation Return to Compliance: 01/28/1987

Violation Type: Generators − General
Violation Number: 5008 Location: NY
Former Citation:
Responsible Agency: EPA
Violation Determination Date: 12/18/1985
Violation Return to Compliance: 01/20/1987

Violation Type: Generators − General
Violation Number: 5009 Location: NY
Former Citation:
Responsible Agency: EPA
Violation Determination Date: 12/18/1985
Violation Return to Compliance: 01/20/1987

Violation Type: Generators − General
Violation Number: 0014 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 02/20/1995
Violation Return to Compliance: 04/13/1995

Violation Type: Generators − General
Violation Number: 0007 Location: NY
Former Citation:
Responsible Agency: EPA
Violation Determination Date: 04/02/2002
Violation Return to Compliance: 05/10/2002

Violation Type: Generators − General
Violation Number: 0008 Location: NY
Former Citation:
Responsible Agency: EPA
Violation Determination Date: 12/07/2005
Violation Return to Compliance: 01/20/2006

Violation Type: Listing − General
Violation Number: 0015 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 12/29/2010

Violation Type: Generators − General
Violation Number: 0016 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 07/18/2012

Violation Type: Generators − Manifest
Violation Number: 0017 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: State Statute or Regulation
Violation Number: 0018 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: State Statute or Regulation
Violation Number: 0019 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: Generators − Records/Reporting
Violation Number: 0020 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: TSD Interim Status−General Facility Standards
Violation Number: 0021 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: TSD Interim Status−General Facility Standards
Violation Number: 0022 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 12/29/2010

Violation Type: TSD Interim Status−General Facility Standards
Violation Number: 0023 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 12/29/2010

Violation Type: TSD Interim Stat−Preparedness and Prevention
Violation Number: 0024 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 08/16/2012

Violation Type: TSD Interim Stat−Preparedness and Prevention
Violation Number: 0025 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 08/16/2012

Violation Type: TSD Int Stat−Contingency Plan and Emer Procedures
Violation Number: 0026 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 08/16/2012

Violation Type: TSD Int Stat−Contingency Plan and Emer Procedures
Violation Number: 0027 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

Violation Type: Universal Waste − Small Quantity Handlers
Violation Number: 0028 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/29/2010
Violation Return to Compliance: 11/04/2010

The following violation(s) were removed or have been significantly changed by the US EPA.

Violation Area: GENERATOR−ALL REQUIREMENTS (OVERSIGHT)
Violation Number: 0010 Location: NY
Citation:
Responsible Agency: OVERSIGHT
Violation Determination Date: 04/15/1985
Violation Return to Compliance: 07/13/1984

Violation Area: GENERATOR−ALL REQUIREMENTS (OVERSIGHT)
Violation Number: 0011 Location: NY
Citation:
Responsible Agency: OVERSIGHT
Violation Determination Date: 04/15/1985
Violation Return to Compliance: 07/13/1984

Violation Area: GENERATOR−ALL REQUIREMENTS (OVERSIGHT)
Violation Number: 0012 Location: NY
Citation:
Responsible Agency: OVERSIGHT
Violation Determination Date: 04/15/1985
Violation Return to Compliance: 07/13/1984

Violation Area: GENERATOR−ALL REQUIREMENTS (OVERSIGHT)
Violation Number: 0008 Location: NY
Citation:
Responsible Agency: OVERSIGHT
Violation Determination Date: 12/18/1985
Violation Return to Compliance: 01/20/1987

Violation Area: GENERATOR−ALL REQUIREMENTS (OVERSIGHT)
Violation Number: 0009 Location: NY
Citation:
Responsible Agency: OVERSIGHT
Violation Determination Date: 12/18/1985
Violation Return to Compliance: 01/20/1987

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability	4	GALLONS	GENERATED	2014	9160	1983
D001	Solid waste that exhibits the characteristic of ignitability	100	POUNDS	GENERATED	2014	3108	1992
D006	Cadmium	165	GALLONS	GENERATED	2014	17310	2003
D006	Cadmium	1027	POUNDS	GENERATED	2014	34400	1988
D008	Lead	1640	GALLONS	GENERATED	2014	13000	2007
D008	Lead	170	POUNDS	GENERATED	2014	6550	1988
More than one waste code was reported for the following waste amount:		220	GALLONS	GENERATED	2014	605	2013
D006	Cadmium						
D008	Lead						
More than one waste code was reported for the following waste amount:		300	POUNDS	GENERATED	2014		
D006	Cadmium						
D008	Lead						
More than one waste code was reported for the following waste amount:		10	POUNDS	GENERATED	2014		
D001	Solid waste that exhibits the characteristic of ignitability						
U220	Toluene						
D035	Methyl ethyl ketone						
D002	Solid waste that exhibits the characteristic of corrosivity	19	GALLONS	GENERATED	2013	10133	1992
D009	Mercury	342	POUNDS	GENERATED	2013		

NYS DEC Manifested Waste Transactions for NYD980646335 continued −−−

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2013		
D001	Solid waste that exhibits the characteristic of ignitability						
U154	Methyl alcohol (I)						
More than one waste code was reported for the following waste amount:		642	KILOGRAMS	GENERATED	2013		
D006	Cadmium						
D008	Lead						
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2013		
D006	Cadmium						
D010	Selenium						
More than one waste code was reported for the following waste amount:		220	GALLONS	GENERATED	2013		
D006	Cadmium						
D011	Silver						
More than one waste code was reported for the following waste amount:		30	GALLONS	GENERATED	2012	220	2011
D001	Solid waste that exhibits the characteristic of ignitability						
D018	BENZENE						
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2012		
D002	Solid waste that exhibits the characteristic of corrosivity						
D006	Cadmium						
D008	Lead						
More than one waste code was reported for the following waste amount:		165	GALLONS	GENERATED	2012	338	2009
D006	Cadmium						
D008	Lead						
D011	Silver						
B003	Petroleum oil or other liquid containing 500 ppm or greater of PCBs.	627	GALLONS	GENERATED	2011		
D008	Lead	7595	KILOGRAMS	GENERATED	2011		
More than one waste code was reported for the following waste amount:		410	GALLONS	GENERATED	2010		
D001	Solid waste that exhibits the characteristic of ignitability						
F003	Spent non−halogenated solvents						
F005	Spent non−halogenated solvents						
More than one waste code was reported for the following waste amount:		840	POUNDS	GENERATED	2010		
D002	Solid waste that exhibits the characteristic of corrosivity						

NYS DEC Manifested Waste Transactions for NYD980646335 continued −−− see previous page

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D006	Cadmium						
B001	PCB Oil (concentrated) from transformers, capacitors, etc.	20	GALLONS	GENERATED	2009		
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm	5	GALLONS	GENERATED	2009	110	1987
D010	Selenium	55	GALLONS	GENERATED	2009		
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2009	280	2007
D001	Solid waste that exhibits the characteristic of ignitability						
D035	Methyl ethyl ketone						
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2009		
D001	Solid waste that exhibits the characteristic of ignitability						
U220	Toluene						
More than one waste code was reported for the following waste amount:		85	GALLONS	GENERATED	2009		
U220	Toluene						
U239	Xylene (I)						
More than one waste code was reported for the following waste amount:		110	GALLONS	GENERATED	2009		
D006	Cadmium						
D011	Silver						
D008	Lead						
D007	Chromium	275	GALLONS	GENERATED	2008	1540	1989
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2008		
D001	Solid waste that exhibits the characteristic of ignitability						
D003	Solid waste that exhibits the characteristic of reactivity						
More than one waste code was reported for the following waste amount:		55	GALLONS	GENERATED	2008		
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						
D006	Cadmium						
D018	BENZENE	192	POUNDS	GENERATED	2007		
More than one waste code was reported for the following waste amount:		1	GALLONS	GENERATED	2007		
D001	Solid waste that exhibits the characteristic of ignitability						
D008	Lead						

NYS DEC Manifested Waste Transactions for NYD980646335 continued −−−

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		1	GALLONS	GENERATED	2007		
D001	Solid waste that exhibits the characteristic of ignitability						
D008	Lead						
D035	Methyl ethyl ketone						
More than one waste code was reported for the following waste amount:		5	POUNDS	GENERATED	2007		
D001	Solid waste that exhibits the characteristic of ignitability						
D035	Methyl ethyl ketone						
D006	Cadmium	4	CUBIC YDS	GENERATED	2006		
D001	Solid waste that exhibits the characteristic of ignitability	2	CUBIC YDS	GENERATED	2004		
U002	Acetone (I)	50	GALLONS	GENERATED	2004		
F003	Spent non−halogenated solvents	85	GALLONS	GENERATED	2002	2791	1990
U159	2−Butanone (I,T)	5	GALLONS	GENERATED	2002		
U188	Phenol	5	GALLONS	GENERATED	2002		
F003	Spent non−halogenated solvents	380	POUNDS	GENERATED	1999	2500	1989
B006	PCB Transformers.	525	POUNDS	GENERATED	1998	600	1997
D005	Barium	1000	POUNDS	GENERATED	1998		
F002	Spent halogenated solvents	25	GALLONS	GENERATED	1998	110	1988
F003	Spent non−halogenated solvents	3	CUBIC YDS	GENERATED	1998	8	1996
F005	Spent non−halogenated solvents	209	GALLONS	GENERATED	1998	1050	1995
D002	Solid waste that exhibits the characteristic of corrosivity	200	POUNDS	GENERATED	1997	6000	1986
D004	Arsenic	600	POUNDS	GENERATED	1997		
D005	Barium	1	CUBIC YDS	GENERATED	1997		
B003	Petroleum oil or other liquid containing 500 ppm or greater of PCBs.	3074	KILOGRAMS	GENERATED	1993		
X726	Unknown waste type.	500	POUNDS	GENERATED	1993	111699	1986
X900	Unknown waste type.	220	GALLONS	GENERATED	1993	10095	1984
D007	Chromium	1855	POUNDS	GENERATED	1992	10210	1990
F001	Spent halogenated solvents used in degreasing	55	GALLONS	GENERATED	1992		
X726	Unknown waste type.	165	GALLONS	GENERATED	1989	4070	1987
X910	Unknown waste type.	6300	POUNDS	GENERATED	1989	32500	1986
U226	Ethane, 1,1,1−trichloro−	110	GALLONS	GENERATED	1988	1100	1987
X725	Unknown waste type.	165	GALLONS	GENERATED	1987		

NOTE: 2014 waste amounts are for 1/1/14 to 2/25/14 only

Map Identification Number 314 **NYSDEC Name:** **NYCTA** **Facility Id: NYD982269573**

NYSDEC Address:	3884 9TH AVE	NEW YORK, NY 10034	TT−Id: 740A−0029−047
EPA (RCRA) Name:	NYCTA − 9TH AVE UNIT SHOP		
EPA (RCRA) Address:	3884 NINTH AVENUE	NEW YORK, NY 10034	

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Notification date: 06/29/1987
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:

Contact Name: JOSEPHINE BROWN	Source Type: Implementer	Contact Phone: 718−243−4581	Contact Info Date: 01/01/2007
Contact Name: IVAN USSACH	Source Type: Notification	Contact Phone: 718−643−6527	Contact Info Date: 06/29/1987
Contact Name: JOSEPHINE BROWN	Source Type: Annual/Biennial Report	Contact Phone: 718−243−4581	Contact Info Date: 02/05/2004

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

US EPA RCRA Violations:
Violation Type: Listing − General
Violation Number: 0001 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 03/06/2008
Violation Return to Compliance: 05/23/2008

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D006	Cadmium	110	GALLONS	GENERATED	2010	2186	2002
D039	Tetrachloroethylene	512	GALLONS	GENERATED	2008		
D008	Lead	935	GALLONS	GENERATED	2001		
D001	Solid waste that exhibits the characteristic of ignitability	6382	GALLONS	GENERATED	1994	9419	1993
D001	Solid waste that exhibits the characteristic of ignitability	49514	POUNDS	GENERATED	1992		
D006	Cadmium	36	POUNDS	GENERATED	1992		
D002	Solid waste that exhibits the characteristic of corrosivity	688	POUNDS	GENERATED	1991		
F002	Spent halogenated solvents	688	POUNDS	GENERATED	1990	688	1989

Map Identification Number 315 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004091252**
NYSDEC Address: MH43451−F/O 3961 10TH AVE NEW YORK, NY TT−Id: 740A−0026−348

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm	477	KILOGRAMS	GENERATED	2001		
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	71	KILOGRAMS	GENERATED	2001		

Map Identification Number 316 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004410148**
NYSDEC Address: 3955 10TH AVE SB 43453 NEW YORK, NY 10034 TT−Id: 740A−0101−008

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	100	POUNDS	GENERATED	2013		

Map Identification Number 317 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004410163**
NYSDEC Address: 3955 10TH AVE NEW YORK, NY 10034 TT−Id: 740A−0101−009
MH 43452

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1000	POUNDS	GENERATED	2013		

Map Identification Number 318 **NYSDEC Name:** **NEW YORK CITY TRANSIT AUTH** **Facility Id: NYT370011363**
NYSDEC Address: 3961 10TH AVE NYD980646335 NEW YORK, NY 10034 TT−Id: 740A−0026−436

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 558 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 3961 10TH AVE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D000	Unknown waste type.	6700	GALLONS	GENERATED	1982		
D002	Solid waste that exhibits the characteristic of corrosivity	3480	GALLONS	GENERATED	1982		

Map Identification Number 319 **NYSDEC Name:** **CONSOLIDATED EDISON OF NY** **Facility Id: NYP004157202**

NYSDEC Address: W. 205 ST & 9 AVE NEW YORK, NY 10040 TT−Id: 740A−0061−236
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: W 205 ST & 9 AVE NEW YORK, NY 10040

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 600 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: WEST 205TH ST / 9TH AVE
Revised zip code: 10034

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: None Given
Incinerator:
Transporter:

Contact Name: MICHAEL D'AGOSTINO Source Type: Emergency Contact Phone: 212−580−8383 Contact Info Date: 03/09/2008

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	350	GALLONS	GENERATED	2008		

Map Identification Number 320 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004278982**

NYSDEC Address: F/O 449 W 206 ST & 10TH AVE SERV BOX 24200 NEW YORK, NY 10034 TT−Id: 740A−0085−305
EPA (RCRA) Name: CON EDISON SERVICE BOX: 24200
EPA (RCRA) Address: 449 W 206TH ST & 10TH AVE FRONT OF NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 616 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: IFO 449 W 206TH ST
Revised zip code: NO CHANGE

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: None Given
Incinerator:
Transporter:

Contact Name: JOSE MONTALVO Source Type: Emergency Contact Phone: 212−427−1331 Contact Info Date: 11/26/2012

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1000	POUNDS	GENERATED	2012		

Map Identification Number 321 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004088464**

NYSDEC Address: 10TH AVE BRONX, NY TT−Id: 740A−0029−677
EPA (RCRA) Name: CON EDISION − 406
EPA (RCRA) Address: 10TH AVE. WEST CORNER OF POST NEW YORK, NY 10003

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 621 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: 10TH AVE / POST AVE
Revised zip code: 10034

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: ANTHONY DRUMMINGS Source Type: Implementer Contact Phone: 212−460−3770 Contact Info Date: 06/02/2002
Contact Name: ANTHONY DRUMMINGS Source Type: Annual/Biennial Report Contact Phone: 212−460−3770 Contact Info Date: 05/31/2002

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	2	CUBIC YDS	GENERATED	2001		

Map Identification Number 322 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004231726**

NYSDEC Address: POST AVE & 10TH AVE NEW YORK, NY 10034 TT−Id: 740A−0077−189
EPA (RCRA) Name: CON EDISON MANHOLE 406
EPA (RCRA) Address: POST AVE & 10TH AVE NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 621 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: POST AVE / 10TH AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste: Notification date: None Given
Storer: Treatment facility: Incinerator:
Transporter:

Contact Name: DENNIS HUACON Source Type: Annual/Biennial Report update with Notification Contact Phone: 212−460−2757 Contact Info Date: 03/06/2012
Contact Name: DONALD SENNO Source Type: Emergency Contact Phone: 212−460−2757 Contact Info Date: 03/21/2011
Contact Name: DONALD SENNO Source Type: Implementer Contact Phone: 212−460−2757 Contact Info Date: 04/20/2011

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		500	GALLONS	GENERATED	2011		
D018	BENZENE						
D008	Lead						
D001	Solid waste that exhibits the characteristic of ignitability						

Map Identification Number 323 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004220158**

NYSDEC Address: 207 ST & 10TH AVE MANHATTAN, NY TT−Id: 740A−0076−519
MH # 43432
EPA (RCRA) Name: CON EDISON MANHOLE 43432
EPA (RCRA) Address: W 207TH ST & 10TH AVE SW COR NEW YORK, NY 10023

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 628 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 10TH AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Notification date: None Given
Incinerator:
Transporter:
Contact Name: FRANK CURTIS Source Type: Emergency Contact Phone: 212−780−3756 Contact Info Date: 11/15/2010
Contact Name: FRANK CURTIS Source Type: Implementer Contact Phone: 212−780−3756 Contact Info Date: 12/15/2010

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		300	KILOGRAMS	GENERATED	2010		
D008	Lead						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						

Map Identification Number 324 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004403762**
NYSDEC Address: NORTHWEST CORNER OF 207TH ST & 10TH AVE NEW YORK, NY 10035 TT−Id: 740A−0105−023
SB43438

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 628 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 10TH AVE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	2200	POUNDS	GENERATED	2013		

Map Identification Number 325 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004403952**
NYSDEC Address: N/S 207TH ST 180 E/O 10TH AVE NEW YORK, NY 10034 TT−Id: 740A−0104−990
SB29230

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 628 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 10TH AVE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1000	POUNDS	GENERATED	2013		

Map Identification Number 326 **NYSDEC Name:** **MTA NYCT − 207TH STREET STATION 1 LINE** **Facility Id: NYR000177469**
NYSDEC Address: 10TH AVE & W 207TH ST NEW YORK, NY 10034 TT−Id: 740A−0072−046
EPA (RCRA) Name: MTA NYCT − 207TH STREET STATION 1 LINE
EPA (RCRA) Address: 10TH AVE & W 207TH ST NEW YORK, NY 10034

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 628 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST / 10TH AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: SMALL QUANTITY GENERATOR
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Notification date: 08/23/2010
Incinerator:
Transporter:
Contact Name: GERALD LEZEAU Source Type: Notification Contact Phone: 646−252−3535 Contact Info Date: 08/23/2010

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	50	POUNDS	GENERATED	2013	1950	2010



NO CHEMICAL STORAGE FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS



NO HISTORIC UTILITY SITES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS



NO HAZARDOUS SUBSTANCE WASTE DISPOSAL SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS



NO TOXIC AIR, LAND AND WATER RELEASES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS



NO WASTEWATER DISCHARGES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS



AIR DISCHARGE FACILITIES IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 327 **MANHATTAN RECYCLING CENTER** **Facility Id: 3606100593** **State−county CDS Id: 3606100593**
332 W. 207 STREET NEW YORK, NY 10034 State−county NED id:
TT−ID: 900A−0003−800

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 119 feet to the SSW*

ADDRESS CHANGE INFORMATION
Revised street: 332 W 207TH STREET
Revised zip code: NO CHANGE

CDS−ID: 00593 NED−ID: None Given EPA−ID: None Given FINDS−ID: None Given
Plant Phone #1: (212)567−7400 Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
State Classification: CLASS IS UNKNOWN
EPA Plant Compliance Status:
State Plant Compliance Status: NO APPLICABLE STATE REGULATION

AIR PROGRAM INFORMATION
Regulatory Air Program: CFC TRACKING Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: CHLOROFLUOROCARBONS
State Pollutant Compliance for this pollutant: NO APPLICABLE STATE REGULATION

Map Identification Number 328 **MERIT** **Facility Id: 3606100304** **State−county CDS Id: 3606100304**
401 W. 207TH ST @ 9T NEW YORK, NY 10034 State−county NED id:
EPA (FINDS) Name: MERIT TT−ID: 900A−0003−833
EPA (FINDS) Address: 401 W. 207TH ST @ 9T NEW YORK 10034

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 188 feet to the WNW*

ADDRESS CHANGE INFORMATION
Revised street: 401 W 207TH ST
Revised zip code: NO CHANGE

CDS−ID: 00304 NED−ID: None Given EPA−ID: NYD982185662 FINDS−ID: NYD982185662
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification:
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: IN COMPLIANCE − INSPECTION

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN COMPLIANCE − INSPECTION

Map Identification Number 329 **NYC TRANSIT AUTHORITY − 207 ST SHOP** **Facility Id: 3606100416** **State−county CDS Id: 3606100416**
3961 10TH AVENUE NEW YORK, NY 100340000 State−county NED id: 36061TA01
EPA (FINDS) Name: 207TH ST SHOP TT−ID: 900A−0004−363
EPA (FINDS) Address: 207TH ST NEW YORK 100340000

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 587 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

CDS−ID: 00416 NED−ID: TA01 EPA−ID: NY0001415017 FINDS−ID: NY0001415017
Plant Phone #1: None Given Plant Phone #2: (212)330−4506
Operating Status: OPERATING
EPA Classification:
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: UNKNOWN COMPLIANCE STATUS

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING
Regulatory Air Program: CFC TRACKING Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: CHLOROFLUOROCARBONS
State Pollutant Compliance for this pollutant: UNKNOWN COMPLIANCE STATUS
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN COMPLIANCE − INSPECTION

Map Identification Number 330 **207TH STREET SUBWAY YARD** **FINDS Id: NYD981138506**
207 STREET NEW YORK, NY 10001 State−county CDS id: 3606103009
TT−ID: 900A−0004−498

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 587 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10034

This site was identified in the EPA FINDS database. No air pollutant information given here.

CIVIL & ADMINISTRATIVE ENFORCEMENT DOCKET FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 331 **207TH STREET SUBWAY YARD** **Facility Id: NYD981138506**
207 STREET NEW YORK, NY 10001 TT−Id: 920A−0000−854

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 612 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: W 207TH ST
Revised zip code: 10034

Case Id: 02−1985−0046

This site is part of the EPA FINDS database, docket type can not be determined.
No Civil and/or Administrative Enforcement Docket Case Information for this site.



NO NYC ENVIRONMENTAL QUALITY REVIEW REQUIREMENTS − "E" DESIGNATION SITES IDENTIFIED WITHIN 250 FT SEARCH RADIUS

U.S. EPA EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) SPILLS
AT THE LOCATION OR POTENTIALLY AT THE LOCATION OF
3875 Ninth Ave
New York, NY

* Any ERNS Spills listed below are NOT mapped in this report *

POTENTIALLY ONSITE ERNS:

****

Spill Number (ID): 25087 Spill Date: 0

Location: LATITUDE: 4043.9 N LONGITUDE: 7358.5 W
Spill City: NY

Material Spilled	Quantity Spilled	Units	Pounds	Quantity Released in Water	Units	Casno
Ethyl ether	12.00	GAL	72.00	0.00		

Potentially Responsible Party (Discharger): 9TH AVE ETHER
Discharger Address:

Dun and Bradstreet Number: Organization Type:

Medium(s) Affected:
Air: F Land: F Water: F Groundwater: F Contained within Fixed Facility: F Other: F
Waterway Affected: NON WATERBODY
Damages Incurred: F Estimated Cost of Property Damage: $0.00

Cause(s):
Transportation Accident: F Equipment Failure: F
Operator Error: F Natural Phenomenon: F
Dumping: F Other Cause: F
Unknown: F
Cause of the incident: Source of Release:
Type of Transportation Involved: FIXED FACILITY

Action: OSC: USCG ACTION: CLEAN-UP PERF.

Description: OPER: UNKNOWN OPERATION PRIMARY CAUSE: UNKNOWN SECONDARY CAUSE: NEC CONTRIB CAUSE: UNKNOWN

Miscellaneous: PORT: NYCCP SOURCE_ID: NYCPHE004H

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Unmappable facilities for 'New York' County

NPL/CERCLIS/NYSDEC Inactive Haz. Waste or Reg. Qual. Sites

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
231006	ROUTE 9A RECONSTRUCTION PROJECT	ROUTE 9A BETWEEN BATTERY PK AND 59TH ST.	MANHATTAN	UNKNOWN
NYD980531578	LEROY SHOT & LEAD WORKS	UNKNOWN	NEW YORK	UNKNOWN

Solid Waste Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
03C01	BRONX FRONTIER COMPOSTING			UNKNOWN
03D05	SOUTH BRONX MARINE DEMO			UNKNOWN
03T03				UNKNOWN
03T04	REALTY TRS. STA.			UNKNOWN
03T06	LEE-BIN T.S.			UNKNOWN
03T10	A.L.A LAND DEVELOP TRS.ST			UNKNOWN
03T11	BEM CONTRACTING TRANS STA			UNKNOWN
03T35	UNIVERSAL DEMO RECYCLING			UNKNOWN
31D02	PENN CENTRAL DEMO			UNKNOWN
31T06	N.Y. CARTING T.S.			UNKNOWN
		21B GARAGE	BRONX	UNKNOWN
		168TH & RANDALLS AVE.	BRONX	UNKNOWN
		BOTTNER AVE.	BRONX	UNKNOWN
NY00000002077	PENN CENTRAL DEMO	UNKNOWN	UNKNOWN	UNKNOWN

Hazardous Spills - TANK TEST FAILURES - Active

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
1108592	500 ACE AVE - TTF	500 ACE AVE	MANHATTEN	UNKNOWN

Hazardous Spills - UNKNOWN CAUSE OR OTHER CAUSES - Active

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9704309	BETWEEN MANHOLES 441/446	EAST SIDE BROADWAY/S BDWY	BRONX	UNKNOWN
0801706	OIL STAIN IN MH 31260 - TIDAL	DIAGONAL STREET & WEST 209 STREET	MANHATTAN	10034
0801705	OIL STAIN IN MH 31259 - TIDAL	DIAGONAL STREET & WEST 209 STREET	MANHATTAN	10034

Hazardous Spills - MISC. SPILL CAUSES - Active

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9710111	FEEDER LINE 99031	BROADWAY & CENTER RD	BRONX	UNKNOWN
9605282	MANHOLES	BROADWAY	BRONX	UNKNOWN
9605281	IN MANHOLE 434 TO 441	BROADWAY	BRONX	UNKNOWN
1308187	TRACKBED	EAST RIVER TUNNEL 3 MM 1.14	MANHATTAN	UNKNOWN
9930008	VARIOUS LOCATIONS DRUMS	DRUMS VARIOUS LOCATIONS	NEW YORK CITY (5 BOROS)	UNKNOWN

Hazardous Spills - TANK FAILURES - Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
0705989	BRONX TERMINAL MARKET	UNDER DEEGAN EXP	BRONX	UNKNOWN
8000214	DYKEMAN AVE SEEPAGE	DYKEMAN AVE	NEW YORK CITY	UNKNOWN

Hazardous Spills - TANK TEST FAILURES - Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9500889	1419 MORNS AVENUE	1419 MORNS AVENUE	BRONX	UNKNOWN
8809318	CLOSED-LACKOF RECENT INFO	(NO STREET INFO)	BRONX	UNKNOWN
9208156	FORT WASHINGTON PARK	FORT WASHINGTON PARK	MANHATTAN	10040
9001811	PIER #192	PORT AUTHORITY PIER #192	NEW YORK	UNKNOWN
8802622	85-09 1ST AVENUE	85-09 1ST AVENUE	NEW YORK CITY	UNKNOWN

Hazardous Spills - UNKNOWN CAUSE OR OTHER CAUSES - Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP

8606271	RAW SEWAGE ITEM #932			UNKNOWN
9913861	FM 233RD ST SOUTH TO	149TH ST ALONG RR TRACKS	BRONX	UNKNOWN
9901843	SPILL NUMBER 9901843	200-227TH STREET	BRONX	UNKNOWN
9814033	WEST 178ST	ROBERTO CLEMENTE PARK	BRONX	10453
9812980	MANHOLE 32228	PENN STA RR	BRONX	10453
9812979	MANHOLE 29004	ROBERTO CLEMENTE ST PARK	BRONX	10453
9808237	MANHOLE #31365	BRONXKILLS S OF E 132RD	BRONX	UNKNOWN
9713244	DEPT SANITAION	NEAR PLAZA MATERIALS	BRONX	UNKNOWN
9611354	HUDSON RIVER	GUNHILL RD	BRONX	UNKNOWN
9611109	CROTON AQUADUCT	CROTON AQUADUCT	BRONX	UNKNOWN
9515857	1227 PINTON AVE	1227 PINTON AVE	BRONX	UNKNOWN
9504919	HUDSON RVR/SPUYLER DUYVAL	HUDSON RVR/SPUYLER DUYVAL	BRONX	10463
9504477	ROBERTO CLEMENTE STATE PK	ROBERTO CLEMENTE STATE PK	BRONX	10453
9416011	APARTMENT BLDG.	USS MORRISON AVE. B4	BRONX	UNKNOWN
9415281	UNK	UNKNOWN	BRONX	UNKNOWN
9413210	MAJOR DEEGAN EXPRESSWAY	N. BOUND VAN CORTLAND PK	BRONX	UNKNOWN
9314159	IN HUDSON RIVER-HARLEM RI	IN HUDSON RIVER-HARLEM RI	BRONX	UNKNOWN
8909258	MOBIL S/S / BX	BROADWAY	BRONX	UNKNOWN
8603470	FISH KILL	3 BLKS N. OF HARLEM RIVER	BRONX	UNKNOWN
8504703	NEW WINDSOR BRONX	NEW WINDSOR BRONX	BRONX	UNKNOWN
8503365	BRONX	BRONX	BRONX	UNKNOWN
8503141	BRONX	BRONX	BRONX	UNKNOWN
8100079	SPILL NUMBER 8100079		BRONX	UNKNOWN
1207441	HARLEM RIVER NEAR METRO NORTH MARBLE HILL TRAIN	UNKNOWN	BRONX	10463
0908432	MANHOLE 156	SOUTHBOUND MAJOR DEEGAN RDMANHOLE	BRONX	UNKNOWN
0411091	EAST BOUND BRONX EXPRESSW	MAJOR DEGAN	BRONX	UNKNOWN
0407428	SHAFT 3B	VAN CORLAND PARK	BRONX	10471
0303403	MANHOLE NUMBER 29004	ROBERTO CLEMENTE STATE PK	BRONX	10453
0207168	VAULT #0495	55 N CRESTON AVE	BRONX	UNKNOWN
0100318	HARLEM RIVER	NEAR HAMILTON AVE BRIDGE	BRONX	UNKNOWN
0209904	VARIOUS DEP -BWSO SITES	MISC.	BRONX/QUEENS/MANHATTAN	UNKNOWN
1309057	DRILL - VESSEL CHEMICAL PIONEER	DRILL - IN HUDSON BAY	DRILL - UNKNOWN	UNKNOWN
1215581	HUDSON RIVER	NORTH OF 79TH ST	HARLEM	UNKNOWN
9401841	SPITTEN DIVEL CREEK	SPITTEN DIVEL CREEK	HARLEM RIVER	10034
9909356	MANHOLE 42241	CENTER ISLAND & PARK RD	MANHATTAN	UNKNOWN
9811288	MAN HOLE #353	EAST RIVER STATION	MANHATTAN	UNKNOWN
9416342	MACOMBS BRIDGE-176TH ST	MACOMBS BRIDGE & 176TH ST	MANHATTAN	UNKNOWN
9413538	STERLING RD & UNION PK RD	STERLING RD & UNION PK RD	MANHATTAN	UNKNOWN
9412487	HARLEM RIVER	HARLEM RIVER	MANHATTAN	UNKNOWN
9313028	BET BROADWAY & RR BRIDGES	BET BROADWAY & RR BRIDGES	MANHATTAN	UNKNOWN
9307242	BRIDGE TO B'WAY.EXPRESSWA	BRIDGE TO B'WAY.EXPRESSWA	MANHATTAN	UNKNOWN
9207110	SPYTEN DUYUIL	SPYTEN DUYUIL	MANHATTAN	UNKNOWN
9006769	RESTAURANT/UNK ADDRESS	UNKNOWN	MANHATTAN	UNKNOWN
8608080	NORTH BLVD ,ASTORIA AVE	NORTH BLVD ,ASTORIA AVE	MANHATTAN	UNKNOWN
8602036	MORE OIL COMES TO HARLEM	HARLEM RIVER DR N-BOUND	MANHATTAN	UNKNOWN
8504758	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503796	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503779	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503506	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503421	MANHATTAN	MANHATTAN, EAST RIVER	MANHATTAN	WHR10
8503366	MANHATTAN, NYC	MANHATTAN, HUDSON RIVER	MANHATTAN	WHR10
8503301	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503107	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
1307059	TWO SUBSTATION	BTWN 637 WEST 49TH AND EAST 13ST ST	MANHATTAN	UNKNOWN
1101432	ROADWAY	CANAL AND FRONT STREET	MANHATTAN	UNKNOWN
1012387	A LINE SUBWAY STATION	BROADWAY SUBWAY STATION	MANHATTAN	UNKNOWN
1009165	222015; ADAM	ADAM	MANHATTAN	UNKNOWN
1009163	222000; ADAM	ADAM	MANHATTAN	UNKNOWN
1009149	221851; W ST	W ST	MANHATTAN	UNKNOWN
1009060	221212; 10 AVE	10 AVE	MANHATTAN	UNKNOWN

1009047	221085; ACADEMY ST	ACADEMY ST	MANHATTAN	10034
1009030	220841; MARGINAL ST	MARGINAL ST	MANHATTAN	UNKNOWN
1009027	220805; 9 AVE AVE	9 AVE AVE	MANHATTAN	UNKNOWN
1008985	220219; MARGINAL ST	MARGINAL ST	MANHATTAN	UNKNOWN
0914575	218964; BROADWAY	BROADWAY	MANHATTAN	UNKNOWN
0910600	MANHOLE # 5107	NORTH SIDE OF EAST NEW YORK AVE	MANHATTAN	UNKNOWN
0811929	ROADWAY	ISHAM ST	MANHATTAN	10034
0505356	MANHOLE #3068	WEST 167 ST BETWEEN 5 & 6 AVE	MANHATTAN	UNKNOWN
0502596	MANHOLE # 40053	9TH AVE/DIAGNAL STREET	MANHATTAN	UNKNOWN
0502491	MANHOLE #31256	75 FT EAST OF 9TH AVE, DI	MANHATTAN	UNKNOWN
0500598	NEW YORK HARBOR	NEW HARBOR	MANHATTAN	UNKNOWN
0411590	CROATON SHAFT 25 BLOWOFF	FDR DRIVE	MANHATTAN	UNKNOWN
0402835	UNKNOWN CON ED STRUCTURE	NORTHEAST CORNER AND EAST	MANHATTAN	UNKNOWN
0312667	MANHOLE #28166	BROADWAY ST NE CORNER	MANHATTAN	UNKNOWN
0209669	SPILL NUMBER 0209669	EXTERIOR AV/BROADWAY	MANHATTAN	UNKNOWN
0111569	SPILL NUMBER 0111569	SEAMAN AVE	MANHATTAN	10034
1105389	EAST 13TH ST & ASTORIA ANNEX SUBSTATIONS	BETWEEN 2 STATIONS	MANHATTAN/QUEENS	UNKNOWN
1006338	RAW SEWAGE	UNKNOWN	MANHATTEN	UNKNOWN
9905530	VARIOUS LOCAIONS	CITY AND WESTCHESTER	NEW YORK	UNKNOWN
9808577	SPILL NUMBER 9808577	1500 HARVARD BLVD	NEW YORK	UNKNOWN
9209502	UNK	UNK	NEW YORK	UNKNOWN
8907255	HERTZ RENT A CAR/MANH		NEW YORK	UNKNOWN
8604519	NEW YORK	NEW YORK	NEW YORK	UNKNOWN
8504836	WATER FRONT MANHATTAN	WATER FRONT MANHATTAN	NEW YORK	UNKNOWN
1308812	DRILL BLD 90	DRILL	NEW YORK	UNKNOWN
1305917	UNDERGROUND COLUMN # 143 + 50	BETWEEN 145TH AND 157TH	NEW YORK	UNKNOWN
0801987	PORT OF ELIZABETH	APM TERMINAL -BERTH AV8	NEW YORK	UNKNOWN
0406845	SPILL NUMBER 0406845	BAYWAY TERMINAL-LINDEN NJ	NEW YORK	UNKNOWN
0210329	OSTANKINO	NEW YORK	NEW YORK	UNKNOWN
0210315	PEARLMAR	NEW YORK	NEW YORK	UNKNOWN
0110864	ON MARIA KNUTSEN VESSEL	KINDER MORGAN DOCK 4	NEW YORK	UNKNOWN
9003659	HUDSON RIVER/HARLEM RIVER	HUDSON RIVER/HARLEM RIVER	NEW YORK CITY	UNKNOWN
9002947	HUDSON & HARLEM RIVER/BX	HUDSON & HARLEM RIVER	NEW YORK CITY	UNKNOWN
8703764	SOUTH OF RIVERDALE R.R./B	SOUTH OF RIVERDALE R.R.	NEW YORK CITY	UNKNOWN
8607915	NEW YORK CITYF		NEW YORK CITY	UNKNOWN
8606984	UNKNOWN ADDRESS !	UNKNOWN	NEW YORK CITY	UNKNOWN
8603024	BRONX	BRONX	NEW YORK CITY	UNKNOWN
1206911	OUTSIDE	GANSFORT STREET	NEW YORK CITY	UNKNOWN
0402552	SPILL NUMBER 0402552	BROADWAY	NEW YORK CITY	UNKNOWN
0107015	MANHOLE 10562	FORDHAM ROAD	NEW YORK CITY	UNKNOWN
9207036	BUOYS 22 & 24	BUOYS 22 & 24	NY	UNKNOWN
9205270	225TH ST BRIDGE	225TH ST BRIDGE	NYC	UNKNOWN
9204618	FT TRYON PARK/CORBIN DR	FT TRYON PARK/CORBIN DR	NYC	10040
9112696	BARGE	BARGE	NYC	UNKNOWN
8601101	OIL COMES TO HARLEM	HARLEM RIVER	NYC	UNKNOWN
8607173	UNK	UNKNOWN	UNKNOWN	UNKNOWN
0210719	INWOOD HILL PARK	218TH ST/INDIAN RD	WASHINGTON HEIGHTS	10034

Hazardous Spills - MISC. SPILL CAUSES - Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9906040	FEEEDER 99032	B'WAY & 225 TO VERVELEEN PL.	BRONX	10463
9902778	MANHOLE #424	IFO 521 BROADWAY	BRONX	UNKNOWN
9800436	VETERANS ADMIN HOSP	SEDGWICK AVE/KINGSBRIDGE	BRONX	10468
9711348	BAYSIDE FUEL	1975 FREDERICK AVE	BRONX	UNKNOWN
9709352	METRO-NORTH RAILROAD	HUDSON LINE TR#4 MIL 7.5	BRONX	UNKNOWN
9703305	262 BROADWAY-RIVERDALE SE	262 BROADWAY-RIVERDALE SE	BRONX	UNKNOWN
9700705	VA HOSPTIAL	SEDGWICK AV & KINGSBRIDGE	BRONX	10468
9601288	187 NB & GEORGE WASH BRID	I87 NB & GEORGE WASH BRID	BRONX	UNKNOWN
9516267	HIGHWAY 87N/MAJOR DEACON	OFF GEORGE WASHINGTON BRI	BRONX	UNKNOWN
9512039	2934 VENTON AVE	2934 VENTON AVE	BRONX	UNKNOWN

9416098	I-87 MAJOR DEEGAN EXPWY	1-87 MAJOR DEEGAN-BROADWA	BRONX	UNKNOWN
9414961	448 CUSLOGA AVENUE	448 CUSLOGA AVE	BRONX	UNKNOWN
9414947	MCGUINESS AVE & 233RD ST	MCGUINESS AVE & 233RD ST	BRONX	UNKNOWN
9412838	34 MT MORRIS PARKWAY	34 MT MORRIS PARKWAY	BRONX	UNKNOWN
9409277	233 MAJOR DEGAN EXPWY	233 MAJOR DEEGAN EXPWY	BRONX	UNKNOWN
9400698	1667 EAST 731 STREET	667 EAST 731 STREET	BRONX	UNKNOWN
9314217	3100 HEATHER AVE	3100 HEATHER AVE	BRONX	UNKNOWN
9312787	BET 2ND & 3RD - 46 ST.	BET 2ND & 3RD - 46ST.	BRONX	UNKNOWN
9311525	I-90 S.B.	I-90 S.B.	BRONX	UNKNOWN
9211051	SO. BRONX EXPSWY	SO. BRONX EXPSWY	BRONX	UNKNOWN
9208034	NO.ROBERTO CLEMENTE ST PA	NO. ROBERTO CLEMENTE STPA	BRONX	10453
9207432	1021 ATH STREET JOHN`S AV	1021 ATH STREET JOHN`S AV	BRONX	UNKNOWN
8100533	NONE RESPONSIBLE	PARKDALE HOSPITAL	BRONX	UNKNOWN
1303302	TRANSFORMER ON THE RR MANHATTAN TO BRONX CONNECTI	UNDER BROADWAY BRIDGE & 225TH ST	BRONX	10463
1103808	IN THE STREET	DEEGAN EXPRESSWAY	BRONX	UNKNOWN
1101665	HIGHWAY	MAJOR DEEGAN EXP AND CROSS BRONX SOUTH	BRONX	UNKNOWN
1006038	ROADWAY/SOIL	ENTRANCE RAMP GW BRIDGE	BRONX	UNKNOWN
1004769	TUNNEL BTW MANHATTAN AND BRONX	BTW 4135 9TH AVE	BRONX	UNKNOWN
0808012	VEHICLE 50756	' SEDGEWICK AVE & UNDERCLIFF AVE'	BRONX	10452
0505947	TRAFFIC ACCIDENT	DEGAN EXPRESS BY THE 230	BRONX	10463
0406777	CON ED VAULT# 4047	LORING AVE	BRONX	UNKNOWN
0306295	INDEPENDENT AVE &	SEDGWICK AVE	BRONX	10463
0301493	TREMOUNT AVE AND	LITTLE LEAGUE AVE	BRONX	UNKNOWN
0210709	SOUTHBOUND	MAJOR DEEGAN EXPRESSWAY	BRONX	UNKNOWN
0208438	SPILL NUMBER 0208438	23RD STREET & 1ST AVENUE	BRONX	UNKNOWN
0108784	ROADWAY	MAJOR DEEGAN EXPRESSWAY	BRONX	UNKNOWN
0105418	SPILL NUMBER 0105418	MAJOR DEGAN/CROSS BRONX	BRONX	UNKNOWN
0105191	ROADWAY	207TH ST/BROADWAY	BRONX	UNKNOWN
0104091	SPILL NUMBER 0104091	MAJOR DEEGAN & CROSS BRON	BRONX	UNKNOWN
0008417	EXTERIOR ST &	MAJOR DEEGAN EXPRESSWAY	BRONX	UNKNOWN
1010037	DRILL	DRILL	DRILL	UNKNOWN
9907607	CANAL	SANITATION	MANHATTAN	UNKNOWN
9808634	COLUMBIA UNIVERSITY	WEST 218TH STREET	MANHATTAN	10034
9804785	APT 4J-	10 BAY STREET LANDING	MANHATTAN	UNKNOWN
9713418	UNKNOWN	UNKNOWN	MANHATTAN	UNKNOWN
9612002	CABRINI CIRCLE	CABRINI CIRCLE	MANHATTAN	UNKNOWN
9506730	TANGO PIER	TANGO PIER	MANHATTAN	UNKNOWN
9504882	INWOOD HILL PARK	INWOOD HILL PARK	MANHATTAN	10034
9414330	5 MORGAN CT	5 MORGAN CT	MANHATTAN	UNKNOWN
9410330	115 LAKE ROAD	115 LAKE ROAD	MANHATTAN	UNKNOWN
9402295	LOWER LEVEL EB #12	LOWER LEVER EB #12	MANHATTAN	UNKNOWN
9312441	35 GROSS STREET	35 GROSS STREET	MANHATTAN	UNKNOWN
9310279	WESTSIDE HWY.	WESTSIDE HIGHWAY	MANHATTAN	UNKNOWN
9306349	331 WEST 211TH STREET	331 WEST 211TH STREET	MANHATTAN	UNKNOWN
9304809	PLANDOMD ROAD ?	PLANDOMD ROAD?	MANHATTAN	UNKNOWN
9300937	220 SEAMAN AVE - APT BLDG	220 SEAMAN AVE - APT BLDG	MANHATTAN	10034
9212593	119 ZECNILYEA AVE	119 ZECNILYEA AVE	MANHATTAN	UNKNOWN
9211572	HUDSON LIFT BRIDGE	HUDSON LIFT BRIDGE	MANHATTAN	UNKNOWN
1304633	RAILROAD TRACKS	EAST RIVER TUNNEL MILE POST 0.89	MANHATTAN	UNKNOWN
1304033	HARLEM RIVER	LINCOLN AVE	MANHATTAN	UNKNOWN
1214313	40.38.53 N 74.02.54 W	HUDSON RIVER	MANHATTAN	UNKNOWN
1208489	LOWER MANHATTAN	ALL STREETS IN LOWER MANHAT	MANHATTAN	UNKNOWN
1206721	ROADWAY	PIER 33 / HELLGATE BRIDGE	MANHATTAN	UNKNOWN
1206669	ROADWAY	49 NANN ST	MANHATTAN	UNKNOWN
1104569	NORTH RIVER WASTE WATER REGULATOR	REGULATOR NR23	MANHATTAN	UNKNOWN
1010077	# 7 SUBWAY LINE	STEINWAY TUBE C1 C2	MANHATTAN	UNKNOWN
0905309	SUB STATION EMIS 217895	ACADEMY STREET	MANHATTAN	10034
0709465	NEW YORK HARBOR	UNKNOWN STREET ADDRESS	MANHATTAN	UNKNOWN
0700398	HYBRIDGE PARK	HYBRIDGE PARK	MANHATTAN	UNKNOWN
0500954	FRONT OF	25 GRANITE STREET	MANHATTAN	UNKNOWN

0401661	MANHATTAN GRID CHAMBER	MAHATTAN GRID	MANHATTAN	UNKNOWN
0401520	MANHATTAN GRID CHAMBER	MANHATTAN GRID CHAMBER	MANHATTAN	UNKNOWN
0307439	HUDSON RIVER	HUDSON RIVER WAY	MANHATTAN	UNKNOWN
0109602	WESTSIDE PLAZA	NO ADDRESS(WESTSIDE PLAZA	MANHATTAN	UNKNOWN
0013621	PIER 45	NORTH RIVER	MANHATTAN	UNKNOWN
0012765	BETWEEN W49TH SUBSTATION	& SPRAINBROOK SUBSTATION	MANHATTAN	UNKNOWN
0012534	SPILL NUMBER 0012534	10TH AV & BROADWAY	MANHATTAN	UNKNOWN
0708382	AMTRACK	TUNNEL #3 BETWEEN MADISON	MANHATTEN	UNKNOWN
1204511	3 STORY BUILDING	1183 BAY STREET	NEW YORK	UNKNOWN
1101338	COMMERCIAL BLD	150 BARRACK ST	NEW YORK	UNKNOWN
1010611	PRINCESS K OVERFILL	LAT 40/37.9 LONG 74/ 3.7	NEW YORK	UNKNOWN
0810612	LAT 40-3942.8 SEC NORTH LONG-74.343SW	PORT JERSEY CHANNEL	NEW YORK	UNKNOWN
0808382	13 TH MANHATTEN CHAMBER	13 TH MANHATTEN CHAMBER	NEW YORK	UNKNOWN
0409938	NEW YORK IM TTDOCK A	NEW YORK IM TT DOCK	NEW YORK	UNKNOWN
1206909	SPECTRA SITE	GANSEVOORT RD	NEW YORK (MANHATTAN)	UNKNOWN
9606764	FEEDER #71	DUNWOODIE TO RAINEY	NEW YORK CITY	UNKNOWN
9011935	204TH ST &ACADEMY ST/MANH	204TH ST & ACADEMY ST	NEW YORK CITY	10034
9004330	3915 OILOTT AVE/BX	3915 OILOTT AVENUE	NEW YORK CITY	UNKNOWN
9004299	137 ZEIZER PLACE/BX	137 ZEIZER PLACE	NEW YORK CITY	UNKNOWN
8801984	8615 BROADWAY	8615 BROADWAY	NEW YORK CITY	UNKNOWN
8705544	IND SUBWAY YARD/REGULATOR	IND SUBWAY YARD/REG. N-10	NEW YORK CITY	UNKNOWN
1006037	ROADWAY	W 181 ST ST AT MAJOR DEACON EXPRESSWAY	NEW YORK CITY	10453
0402464	IN FLIGHT	AIR	NY	UNKNOWN
0901080	ROADSIDE	30 NEWPORT WALK	NYC	UNKNOWN
0211181	SPUYTEN DUYVILL BRIDGE	HOLLAND RIVER SPUYTEN BR	NYC	10034
1209588	TORM REPUBLICAN (NAME OF VESSEL)	ENR NY ANCHORAGE HARBOR	STATEN ISLAND	UNKNOWN
9501840	UNKNOWN LOCATION	UNKNOWN LOCATION	WESTCHESTER	UNKNOWN

Petroleum Bulk Storage Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
2-107204	BRONX COMMUNITY COLLEGE	2155 UNIVERSITY AVENUE	BRONX	10453
2-156418	MOBIL S/S 1JARDH AAMCO TRANAS	MOBIL S/S 1JARDH AAMCO TRANAS	BRONX	10400
NY07443	NYC FIRE		NEW YORK	UNKNOWN
2-157856	MOBIL S/S 1 JBWBT ARDOR GARAGE	MOBIL S/S 1 (JBWBT ARDOR GARAGE)	NY	UNKNOWN

Hazardous Waste Generation or Transport Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYN20002A347				UNKNOWN
NYP004001350	CONSOLIDATED EDISON CO VAULT 2039	3201 GRAND COLMAN AVE (???)		10468
NYP004004065	CONSOLIDATED EDISON CO 4294	50TH STREET AND 10TH AVENUE		UNKNOWN
NYP004026936	CONSOLIDATED EDISON CO	V4798 GRAND & CLINTON		UNKNOWN
NYP004059341	CONSOLIDATED EDISON	100 CROTON BLVD	BRONX	10468
NYP004076485	CONSOLIDATED EDISON	DAVIDSON ST	BRONX	UNKNOWN
NYP004455432	CON EDISON	OP 120 FORDHAM RD	BRONX	10468
NYP004496410	CON EDISON	NORTH EAST CORNER OF WEST BURNSIDE	BRONX	10453
NYP004502910	CON EDISON	OPP 2807 CHAPLIN AVE	BRONX	10468
NYR000052431	NYCDOT BIN 2241940	W 205TH ST BRIDGE OVER NYCT	BRONX	10468
NYP004171898	CONSOLIDATED EDISON	43RD & 204TH ST	MANHATTAN	UNKNOWN
NYP004179198	CONSOLIDATED EDISON	104 WEST END RIVERSIDE	MANHATTAN	UNKNOWN
NYP004181152	CONED	MH SV-13	MANHATTAN	UNKNOWN
NYP004407967	CONSOLIDATED EDISON	ILLEGIBLE	MANHATTAN	UNKNOWN
NY0000010363	NYCDOT	N/S	N/S	UNKNOWN
NYP004077467	CONSOLIDATED EDISON	MH37962-SAINT JOHN	N/S	UNKNOWN
NYR000077719	NYCTA-CPM ENVIRONMENTAL	VAN GORTLAND & AVE EDR	N/S	UNKNOWN
NY0005000575	JOHN DOE	DELETE	NEW YORK	UNKNOWN
NYD000100073	NYCDOT MANHATTN BRIDGE	OVER EAST RIVER	NEW YORK	10000
NYD004064622	CONSOLIDATED EDISON	N/S	NEW YORK	UNKNOWN
NYD981887194	METRO-NORTH RAILROAD	FORMER DISTRIBUTION CENTER	NEW YORK	UNKNOWN
NYD986867414	SESCO	SHIPPING WASTE PORTS IN NY NJ	NEW YORK	UNKNOWN
NYP000007732	NYCTA	N/S	NEW YORK	UNKNOWN

NYP000915488	CON EDISION - WTC AREA	VARIOUS WTC LOCATIONS VARIOUS	NEW YORK	UNKNOWN
NYP000918558	NYCTA	N/S	NEW YORK	UNKNOWN
NYP000919647	NYNEX	NORTH WEST CORNER MADISON AVE	NEW YORK	10016
NYP000945428	BELL ATLANTIC-NY	SW CORNER AMSTERDAM AVE & W	NEW YORK	UNKNOWN
NYP000948687	VERIZON NEW YORK INC	143 FRANLIN AVE	NEW YORK	UNKNOWN
NYP000959064	VERIZON NEW YORK INC. MANHOLE	213 STREET	NEW YORK	10034
NYP000963462	VERIZON NEW YORK INC. MANHOLE	NW 93 RD	NEW YORK	UNKNOWN
NYP000963595	VERIZON NEW YORK INC. MANHOLE	LIBERTY AVE	NEW YORK	UNKNOWN
NYP000963694	VERIZON NEW YORK INC. MANHOLE	CENTRAL AVE	NEW YORK	UNKNOWN
NYP000963728	VERIZON NEW YORK INC. MANHOLE	BERGEN STREET	NEW YORK	UNKNOWN
NYP000964247	VERIZON NEW YORK INC. MANHOLE	FRANKLIN AVE	NEW YORK	UNKNOWN
NYP004016986	CONSOLIDATED EDISON	MH62184-10TH AVE & WITTI ST	NEW YORK	UNKNOWN
NYP004020566	CONSOLIDATED EDISON	V5715-READERS DIGEST	NEW YORK	UNKNOWN
NYP004033411	CONSOLIDATED EDISON	V0155	NEW YORK	UNKNOWN
NYP004037867	CONSOLIDATED EDISON	V2801-W 395TH ST	NEW YORK	UNKNOWN
NYP004039633	CONSOLIDATED EDISON	VS0618-N/S	NEW YORK	UNKNOWN
NYP004048708	CONSOLIDATED EDISON	614145 M E	NEW YORK	UNKNOWN
NYP004050092	CONSOLIDATED EDISON	V5105-F/O 101 WHO ST	NEW YORK	UNKNOWN
NYP004056701	CONSOLIDATED EDISON	N/S	NEW YORK	UNKNOWN
NYP004063392	CONSOLIDATED EDISON	496 GLEN AVE	NEW YORK	UNKNOWN
NYP004066676	CONSOLIDATED EDISON	MH61062	NEW YORK	UNKNOWN
NYP004068078	CONSOLIDATED EDISON	TM3481	NEW YORK	UNKNOWN
NYP004072153	CONSOLIDATED EDISON	MH73305	NEW YORK	UNKNOWN
NYP004072385	CONSOLIDATED EDISON	209 FLORENCE AVE	NEW YORK	UNKNOWN
NYP004076295	CONSOLIDATED EDISON	MH27243-BROWN	NEW YORK	UNKNOWN
NYP004078721	CONSOLIDATED EDISON	200 FOREST AVE	NEW YORK	UNKNOWN
NYP004083804	CONSOLIDATED EDISON	BER BOX 54269	NEW YORK	UNKNOWN
NYP004097200	CONSOLIDATED EDISON	MH472-20 1ST ST & 9TH AVE	NEW YORK	UNKNOWN
NYP004107728	CONSOLIDATED EDISON	MH43221-NEC 10TH AVE	NEW YORK	UNKNOWN
NYP004110201	CONSOLIDATED EDISON	V3480 / 92-104 CODA ST	NEW YORK	UNKNOWN
NYP004132072	CONSOLIDATED EDISON	MH31256-DIAGONAL ST & 9TH AVE	NEW YORK	UNKNOWN
NYP004134565	CONSOLIDATED EDISON	MH26084-CARPENTER AVE	NEW YORK	UNKNOWN
NYP004137873	CONSOLIDATED EDISON	MH40053-9TH AVE & DIAGONAL ST	NEW YORK	UNKNOWN
NYP004143616	CONSOLIDATED EDISON	145TH ST A& AVE A	NEW YORK	UNKNOWN
NYP004144119	CONSOLIDATED EDISON	MH11077	NEW YORK	UNKNOWN
NYP004144190	CONSOLIDATED EDISON	413TH ST & 220TH ST	NEW YORK	UNKNOWN
NYP004146122	CONSOLIDATED EDISON	MANSION & MCKINLEY DUNWOODIE	NEW YORK	UNKNOWN
NYP004155909	CONSOLIDATED EDISON	209TH ST & 9TH AVE	NEW YORK	UNKNOWN
NYP004172177	CONSOLIDATED EDISON	112 E & 8557 WASHINGTON HEIGHTS	NEW YORK	UNKNOWN
NYP004173522	CONSOLIDATED EDISON	1000 FAIRWAY LANE	NEW YORK	UNKNOWN
NYP004174140	CONSOLIDATED EDISON	WASHINGTON HEIGHTS	NEW YORK	UNKNOWN
NYP004178281	CONSOLIDATED EDISON	F/O 680 WEST 93 ST	NEW YORK	UNKNOWN
NYP004179271	CONED	75 E BLD 1	NEW YORK	UNKNOWN
NYP004179297	CONSOLIDATED EDISON	F/O 281 E DROMBE AVE	NEW YORK	UNKNOWN
NYP004181194	CON EDISON	3857 W 207TH ST	NEW YORK	10034
NYP004189023	CONSOLIDATED EDISON	F/O 1731 EAST AVE.	NEW YORK	UNKNOWN
NYP004196879	CONSOLIDATED EDISON	NORTH SIDE OF JOHN ST 75‘ EAST	NEW YORK	UNKNOWN
NYP004208944	CON EDISON	W SIDE OF 10TH AVE 643 FEET N	NEW YORK	10034
NYP004217703	CONSOLIDATED EDISON	MH2721 - CEDAR & PALMER	NEW YORK	UNKNOWN
NYP004222501	CONSOLIDATED EDISON	FRONT OF 1693 25TH AVE	NEW YORK	UNKNOWN
NYP004224846	CONED -	NO ADDRESS INFO ON MANIFEST	NEW YORK	UNKNOWN
NYP004226629	CONED	W 1321TH ST	NEW YORK	UNKNOWN
NYP004226710	CONED	FLO 55	NEW YORK	UNKNOWN
NYP004226751	CONED	FLO 49	NEW YORK	UNKNOWN
NYP004226769	CONED	FLO 61	NEW YORK	UNKNOWN
NYP004240123	CONED	MANHOLE 1794	NEW YORK	UNKNOWN
NYP004241378	CONED	29 SAINT ANDREWS ST AND	NEW YORK	UNKNOWN
NYP004245866	CONED	GAS DRIP 501	NEW YORK	UNKNOWN
NYP004251385	CONSOLIDATED EDISON - MH3160	N/O DIAGONAL ST. E /O 9TH AVE	NEW YORK	10034
NYP004254553	CONSOLIDATED EDISON OF NY	F/O 26-8 ELM ST	NEW YORK	UNKNOWN

NYP004296166	CON EDISON		' 10 AVE 643‘ N/O DYCKMAN ST.’	NEW YORK	10034
NYP004307062	CON EDISON		48TH ST& 10TH AVE	NEW YORK	UNKNOWN
NYP004407987	CON EDISON		67 PARK TERR	NEW YORK	10034
NYP004440988	CON EDISON		3716 10TH AVE	NEW YORK	10034
NYP004441465	CON EDISON		S/E/C E 41ST PROPECT PL	NEW YORK	UNKNOWN
NYP004473765	CON EDISON		NORTH SIDE CYRPRESS AVE	NEW YORK	UNKNOWN
NYP004543070	CON EDISON		FO 5996 10 AVE	NEW YORK	10034
NYP004703834	CONSOLIDATED EDISON		MH26764	NEW YORK	UNKNOWN
NYR000034058	NYCTA		CONTRACT #S-34505 - RM 819	NEW YORK	UNKNOWN
NYR000050625	NYCTA		606W FROST	NYC	UNKNOWN
NYP000930479	CONSOLIDATED EDISON CO		V6312-LENOX	QUEENS	UNKNOWN
NYP004000899	CONSOLIDATED EDISON CO		V198-2500 JOHNSON	QUEENS	UNKNOWN
NYP004011334	CONSOLIDATED EDISON		V 1054 - WASHINGTON AVE	QUEENS	UNKNOWN
NYP004016242	CONSOLIDATED EDISON		V9379-32 HARRISON	QUEENS	UNKNOWN
NYP004409074	CON EDISON		255-22 TERRACE PL	QUEENS	UNKNOWN
NYP004014213	CONSOLIDATED EDISON		V 809 - HULUENOT & HARRISON	STATEN ISLAND	UNKNOWN

Wastewater Discharges

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NY0200794				UNKNOWN
NYU200032	CONSOLIDATED EDISON COMPANY			UNKNOWN

Air Releases

FACILITY ID	FACILITY NAME		STREET	CITY	ZIP
3606100080	NYCHA-FOSTER HOUSING		NO STREET ADDRESS	NEW YORK	UNKNOWN
3606100129	NAVY DIST COMMANDER		NO STREET ADDRESS	NEW YORK	UNKNOWN
3606100202	KWL CLEANERS		41-67 ABOWNE ST	NEW YORK	UNKNOWN
3606100431	CUMBERLAND FARMS INC.		777 DEDHAM STREET	NEW YORK	UNKNOWN
3606100495	FEILER BROS CORP		ROOM 1700	NEW YORK	UNKNOWN
3606100552	ACADEMY CONSTRUCTION		NO STREET ADDRESS	NEW YORK	UNKNOWN
3606180051	FEILER BROS CORP		ROOM 1700	NEW YORK	UNKNOWN
3606100558	SOS INTERNATIONAL		BOX 2976 CHURCH STAT	NEW YORK CITY	UNKNOWN
NY061X0NP	MIDTOWN HOLDING CO	NEW YORK	NO STREET ADDRESS	NO CITY NAME	UNKNOWN
NY061X2DR	UNIHAB CO	NEW YORK	NO STREET ADDRESS	NO CITY NAME	UNKNOWN

Hazardous waste codes presented in individual Toxic Information Profiles are defined below.

B001 PCB Oil (concentrated) from transformers, capacitors, etc.

B002 Petroleum oil or other liquid containing 50 ppm or greater of PCBs but less than 500 ppm PCBs. This includes oil from electrical equipment whose PCB concentration is unknown, except for circuit breakers, reclosers and cable.

B003 Petroleum oil or other liquid containing 500 ppm or greater of PCBs.

B006 PCB Transformers. "PCB Transformers" means any transformer that contains 500 ppm PCB or greater.

B007 Other PCB Wastes including contaminated soil, solids, sludges, clothing, rags, and dredge material.

D000

D001 Solid waste that exhibits the characteristic of ignitability, but is not listed under any other hazardous waste code.

D002 Solid waste that exhibits the characteristic of corrosivity, but is not listed under any other hazardous waste code.

D004 Arsenic

D005 Barium

D006 Cadmium

D007 Chromium

D008 Lead

D009 Mercury

D010 Selenium

D018 BENZENE

D039 Tetrachloroethylene

F001 The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1−trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. (T)

F002 The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1−trichloroethane,

chlorobenzene, 1,1,2−trichloro−1,2,2−trifluoroethane, ortho−dichlorobenzene, trichlorofluoromethane, and 1,1,2−trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. (T)

F003 The following spent non−halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n−butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non−halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non−halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. (I)*

F005 The following spent non−halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2−ethoxyethanol, and 2−nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non−halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. (I,T)

U002 Acetone (I)

U159 2−Butanone (I,T)

U188 Phenol

U226 Ethane, 1,1,1−trichloro−

X725

X726

X900

X910

Source: U. S. Environmental Protection Agency

How Toxic Site Locations Are Mapped

Toxics Targeting maps toxic site locations on a digital version of the U. S. Census map or those used by local authorities using addresses and map coordinates provided by site owners/operators or government agencies. In order to allow site locations to be verified independently, the information used to map each site is presented in the first section of each Toxic Site Profile, along with a description of the mapping technique used and any address corrections that were made in order to locate toxic sites with incomplete or inadequate site location information. The mapping process is explained below.

Map Identification Number: 12 Site Name: Acme World Manufacturing, Inc.

Site Address: 55 Main Street Anytown, NY 11797

MAP LOCATION INFORMATION

Site location mapped by:

Address Matching

1) Most toxic sites are mapped by matching addresses provided by site owners/operators or government agencies with locations on a digital version of the street or parcel map. These site locations are identified with the method used to map them.

Note: Some sites have an address match location and a map coordinate location. Both locations are mapped because they can be equally correct.

or Map Coordinate

2) Some toxic sites are located using map coordinates provided by site owners/ operators or government agencies. These site locations are identified "map coordinate." Map coordinates for Toxic Wastewater Discharges, Toxic Release Inventory sites and Major Oil Storage Facilities should be considered suspect.

or Manual Mapping

or Site Visit

3) Incomplete addresses or map coordinates require some site locations to be determined by commercial street maps (manual mapping), site visits, map coordinates from other databases and address location services. Application of any of these methods is identified accordingly.

ADDRESS CHANGE INFORMATION

Revised Street: NO CHANGE

Revised zip code: NO CHANGE

4) Site addresses are sometimes corrected to eliminate obvious errors that prevent sites from being mapped. All address corrections are noted here.

Information Source Guide

Toxics Targeting's Environmental Reports contain government and other information compiled on 21 categories of reported known or potential toxic sites. Each toxic site database is described below with information detailing a) the source of the information, b) the date when each database is covered to and c) when *Toxics Targeting* obtained the information..

1) **National Priority List for Federal Superfund Cleanup:** Toxic sites nominated for cleanup under the Federal Superfund program. Annual compilation of special two-page detailed profiles of NPL sites. Also includes delisted NPL sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated from: 7/28/2014. Data obtained by Toxics Targeting: 7/28/2014.
New Facilities updated through: 7/28/2014. Data obtained by Toxics Targeting: 7/28/2014.

2) **Inactive Hazardous Waste Disposal Site Registry:** New York State database that maintains information and aids decision making regarding the investigation and cleanup of toxic sites. The Registry's data includes two-page profiles noting site name, ID number, description, classification, cleanup status, types of cleanup, owner information, types and quantities of contaminants, and assessment of health and environmental problems. Also included are sites that qualify for possible inclusion on the Registry. These Registry Qualifying sites may or may not be on the Site Registry.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 7/1/2014. Data obtained by Toxics Targeting: 7/1/2014.
New Facilities updated to: 7/1/2014. Data obtained by Toxics Targeting: 7/1/2014.

3) **Corrective Action Activity (CORRACTS):** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]
Data attributes updated through: 6/10/2014. Data obtained by Toxics Targeting: 6/16/2014.
New facilities updated through: 6/10/2014. Data obtained by Toxics Targeting: 6/16/2014.

4) **CERCLIS:** Toxic sites listed in the Federal Comprehensive Environmental Response, Compensation and Liability Information System. Includes Active and No Further Remedial Action Planned (NFRAP) sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated through: 10/25/2013. Data obtained by Toxics Targeting: 1/7/2014.
New Facilities updated through: 10/25/2013. Data obtained by Toxics Targeting: 1/7/2014.

5) **Brownfield Programs:** NYS programs for sites that are abandoned, idled or under-used industrial and/or commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.
ASTM required.* Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 7/1/2014. Data obtained by Toxics Targeting: 7/1/2014.
New Facilities updated to: 7/1/2014. Data obtained by Toxics Targeting: 7/1/2014.

(a) **Brownfield Cleanup Program (BCP)**
(b) **Voluntary Cleanup Program (VCP)**
(c) **Environmental Restoration Program (ERP)**

6) **Solid Waste Facilities:** a compilation of the following 2 databases:

(a) **NYS Solid Waste Registry:** which includes, but is not limited to, landfills, incinerators, transfer stations, recycling centers.
ASTM required.* Fannie Mae required.** Source: New York State Dept. of Environmental Conservation.[2]
Data updated to: 4/1/2013. Data obtained by Toxics Targeting: 4/1/2013.

(b) **1934 Solid Waste Disposal Site in New York City:** which includes sites operated by municipal authorities circa 1934. Source: City of New York Department of Sanitation (1984). The Waste Disposal Problem in New York City: A Proposal For Action.

7) **RCRA Hazardous Waste Treatment, Storage or Disposal Facility Databases:**

(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the DEC's Division of Environmental Remediation pursuant to NYS Law and the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 5/25/2014. New facilities obtained by Toxics Targeting: 6/20/2014.
Manifest transactions data updated to: 5/25/2014. Manifest transactions data obtained by Toxics Targeting: 6/20/2014.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]
New facilities updated through: 6/10/2014. Data obtained by Toxics Targeting: 6/16/2014.
Data attributes updated through: 6/10/2014. Data obtained by Toxics Targeting: 6/16/2014.

8) **Spills Information Database:** Spills reported to the DEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from Petroleum Bulk Storage Regulations) or 6 NYCRR Section 595.2 (from Chemical Bulk Storage Regulations). This database includes both *active* and *closed* spills.
ASTM required.* Fannie Mae.** Source: NYS Department of Environmental Conservation.[2]

New spills through: 6/19/2014 New spills data obtained by Toxics Targeting: 6/19/2014
Spill attribute data through: 6/19/2014 Spill attribute data obtained by Toxics Targeting: 6/19/2014

Active spills: paperwork not completed. Closed spills: paperwork completed.
Both active and closed spills may or may not have been cleaned up (see Date Cleanup Ceased in spill profiles).

9) **Major Oil Storage Facilities:** NYS database of facilities licensed pursuant to Article 12 of the Navigation Law, 6NYCRR Parts 610 and 17NYCRR Part 30, such as onshore facilities or vessels, with petroleum storage capacities equal to or greater than four hundred thousand gallons. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

Data updated through: 6/23/2014. Data obtained by Toxics Targeting: 6/23/2014.

10) **Petroleum Bulk Storage Facilities:** a compilation of local and state databases of aboveground and underground petroleum storage tank facilities.

(a) **NYS Petroleum Bulk Storage Database:** This includes all New York State counties except Cortland, Nassau, Rockland, Suffolk, and Westchester. ASTM required.* Fannie Mae required.**
Source: NYS Department of Environmental Conservation.[2]
New facilities updated through: 6/23/2014. Data obtained by Toxics Targeting: 6/23/2014.
Tank data updated through: 6/23/2014. Data obtained by Toxics Targeting: 6/23/2014.

(b) **New York City Fire Department Tank Data:** **Data has been withheld by the NYC Fire Dept.**
Source: New York City Fire Department. Data obtained by Toxics Targeting: 2/18/1997

11) **RCRA Hazardous Waste Generators and/or Transporters Databases:**

(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the NYS Department of Environmental Conservation's Division of Environmental Remediation pursuant to New York State Law. ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 5/25/2014. New facilities obtained by Toxics Targeting: 6/20/2014.
Manifest transactions data updated to: 5/25/2014. Manifest transactions data obtained by Toxics Targeting: 6/20/2014.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]

New facilities updated through: 6/10/2014. Data obtained by Toxics Targeting: 6/16/2014.
Data attributes updated through: 6/10/2014. Data obtained by Toxics Targeting: 6/16/2014.

12) **Chemical Bulk Storage Facilities:** New York State database of facilities compiled pursuant to 6NYCRR Part 596 that store regulated substances listed in 6NYCRR Part 597 in aboveground tanks with capacities greater than 185 gallons and /or in underground tanks of any size. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data updated through: 6/23/2014. Data obtained by Toxics Targeting: 6/23/2014.

13) **Historic New York City Utility Facilities (1898 to 1950):** An inventory of selected power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites identified in various historic documents, maps and annual reports of New York utility companies, including: Sanborn Fire Insurance Maps of NYC (1898-1950); Consolidated Edison Co. Annual Reports (1922-1939); Consolidated Edison Co. Map: "Boroughs of Manhattan and the Bronx Showing Distribution Mains of the New York Edison Co.," (1922); and Consolidated Edison document: "Generating and Annex Stations," (1911).

14) **Hazardous Substance Waste Disposal Site Study:** NYS database of waste disposal sites that may pose threats to public health or the environment, but could not be remediated using monies from the Hazardous Waste Remedial Fund.
Source: New York State Department of Environmental Conservation.[2]
Data updated to: 5/16/2000. Data obtained by Toxics Targeting: 5/16/2000.

15) **Toxic Release Inventory (TRI):** Federal database of manufacturing facilities required under Section 313 of the Federal Emergency Planning and Community Right-to-Know Act to report releases to the air, water and land of any specifically listed toxic chemical. See Fannie Mae requirement** below.
Source: U. S. Environmental Protection Agency.[1] / NYS Department of Environmental Conservation[2]
Data updated through: 3/8/2004. Data obtained by Toxics Targeting: 3/25/2004

16) **Toxic Wastewater Discharges (Permit Compliance System):** Federal database of discharges of wastewater to surface waters and groundwaters. See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 6/17/2004. Data obtained by Toxics Targeting: 7/19/2004.

17) **Air Discharge Facilities:** EPA AIRS database containing address information on each air emission facility and the type of air pollutant emission it is. Compliance information is also provided on each pollutant as well as the facility itself.
See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency[1]
Data updated through: 11/24/1999. Data obtained by Toxics Targeting: 1/6/2000

18) **Civil Enforcement & Administrative Docket:** This database is the U. S. EPA's system for tracking administrative and civil judiciary cases filed on behalf of the agency by the Department of Justice. Fannie Mae required.**
Source: U. S. Environmental Protection Agency.[1]
New Sites through: 10/14/1999.
Data updated through: 10/14/1999. Data obtained by Toxics Targeting: 11/18/1999.

19) **New York City Environmental Quality Review (CEQR) – E Designation Sites:** These sites are parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed. Source: New York City Department of Planning[3]
Data updated through: 7/21/2014. Data obtained by Toxics Targeting: 7/21/2014

20) **Emergency Response Notification System (ERNS):** Federal database of spills compiled by the Emergency Response Notification System. On-site searches only.
ASTM required.* See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 1/31/2000. Data obtained by Toxics Targeting: 2/15/2000

21) **Remediation Site Borders:** Remediation site borders reported by NYSDEC.
Source: New York State Department of Environmental Conservation.[2]
Updated through: 4/8/2009. Data obtained by Toxics Targeting: 7/21/2009.

* American Society of Testing Materials: Standard Practice on Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-05).

** Fannie Mae's Part X Environmental Hazards Management Procedures specify 1.0 mile searches for "any state or Federal list of hazardous waste sites (e.g. CERCLIS, HWDMS etc.)." Searches for the property and adjacent properties are specified for "chemical manufacturing plants," "obvious high risk neighbors engaging in storing or transporting hazardous waste, chemicals or substances" and "...any documented or visible evidence of dangerous waste handling... (e.g. stressed vegetation, stained soil, open or leaking containers, foul fumes or smells, oily ponds, etc." Searches for property and adjacent properties can include sites up to a quarter mile away (W. Hayward, Director, Multi-Family Business Planning and Control, Fannie Mae, personal communication, 5/94).

[1]U. S. Environmental Protection Agency, 290 Broadway, NY, NY 10007-1866.

[2]NYS Department of Environmental Conservation, 625 Broadway, Albany, NY 12233.

[3]New York City Department of City Planning, 22 Reade St, New York, NY 10007-1216



CERCLIS/NPL/INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION REQUEST

HUDSON RIVER PCB SEDIMENTS **Facility Id: 546031**
HUDSON RIVER, HUDSON FALLS−NYC BATTERY UNKNOWN CITY, NY 12180

EPA Facility Name: HUDSON RIVER PCBS EPA Facility Id: NYD980763841
NO STREET APPLICABLE HUDSON RIVER, NY 12801

ADDRESS CHANGE INFORMATION
Revised street: HUDSON RIVER BETWEEN FT. EDWARD / TROY
Revised zip code: UNKNOWN

SITE DESIGNATION: NPL, CERCLIS, NYSDEC Registry

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USEPA NATIONAL PRIORITY LIST (NPL)

Hudson River PCBS
New York
EPA ID#: NYD980763841
EPA REGION 2
Congressional District(s): 22
Hudson River − Between Hudson Falls and the Battery in New York City

NPL LISTING HISTORY
Proposed Date: 9/8/1983
Final Date: 9/21/1984

Site Description
The Hudson River PCBs site includes the approximately 200−mile stretch of the Hudson River from Hudson Falls to the Battery in New York City. The Upper Hudson River, an approximately 40−mile reach of the river from Hudson Falls to Troy, in Washington, Saratoga and Rensselaer Counties, is the reach that has been selected for remediation. The General Electric Company discharged between 209,000 and 1.3 million pounds of polychlorinated biphenyls (PCBs) into the river from two capacitor manufacturing plants located in Hudson Falls and Fort Edward. The PCBs from these discharges contaminated the sediments of the Upper Hudson River. Also included in the site are five remnant deposits, which are river sediments that were exposed when the level of the river was lowered due to the removal of the Fort Edward Dam, in 1973.

In 1976, because of the concern over the bioaccumulation of PCBs in fish and other aquatic organisms and their subsequent consumption by people, the State of New York banned fishing in the Upper Hudson River and commercial fishing of striped bass, and several other species, in the Lower Hudson. In August 1995, the Upper Hudson was re−opened to fishing, but only on a catch and release basis.

Albany, the largest city in the basin, has a population of more than 100,000 people; the Town of Fort Edward has a population of 6,480. Land uses in the Hudson River Basin include agriculture, service, and manufacturing, in addition to residential. The Hudson River is an important source of hydroelectric power, public water supplies, transportation, and recreation. The Cities of Waterford, Poughkeepsie, and Rhinebeck, as well as the Highland and Port Ewen Water Districts obtain their water supplies directly from the Hudson River. In addition, a water intake near Chelsea, which is north of Beacon, may be used to supplement New York City's water supply during periods of drought. The Town of Waterford and Town of Halfmoon obtain water from the Upper Hudson River, and are the only municipal water supply intakes below Fort Edward and above the Troy Dam.

The Hudson River has been designated an American Heritage River because of its important role in American history and culture.

Site Responsibility: This site is being addressed through a combination of Federal and potential responsible party actions

Threat and Contaminants
Fish in the Hudson River have been contaminated with PCBs, and eating contaminated fish has been found to present an unacceptable risk (i.e., could affect the health of individuals.) Other exposure pathways to PCBs in the river do not generally exceed acceptable risk levels, such as drinking water, volatilization, or recreational exposure to sediment or water. Concerns related to possible exposure of residents and ecological receptors to PCB contamination in the floodplains are being further evaluated concurrent with the design phase of this project.

Cleanup Approach
The site is being addressed in three stages: immediate actions and two long−term remedial phases(Remnant Deposits and River Sediments) directed at cleanup of the Upper Hudson River. A floodplains evaluation is also in progress.

Response Action Status
Immediate Actions: In 1977 and 1978, an estimated 180,000 cubic yards of contaminated sediments were dredged from the east channel at Fort Edward to clear the navigational channel. These dredged sediments, along with approximately 14,000 cubic yards of highly contaminated sediments from one of the remnant areas, were placed in a clay−lined containment cell. A 40−mile stretch of the Upper Hudson River is open only to catch and release fishing, and the Lower Hudson River has a commercial fishing ban and consumption advisories on striped bass and several other species.

In 1991, investigations at Bakers Falls, in the vicinity of the General Electric Hudson Falls facility (a separate New York State listed hazardous waste site) showed elevated PCB concentrations in the water column. General Electric signed a consent agreement with the State of New York to further investigate this area and to conduct interim remedial measures to prevent PCB contamination from this source from entering the river. Numerous measures have been implemented, including: preventing flow of river water through seep areas in an abandoned mill building, installation of seep collection systems, removal of contaminated sediment from the mill building, pressure grouting of bedrock in areas where seeps were observed in the riverbed, and oil phase PCB collection wells. The State of New York selected a long term remedy for the facility in March 2004. Construction of this long term remedy was initiated in the Spring of 2007. Information collected for the Hudson Falls Plant site investigation was incorporated into the EPA's decision for addressing the contaminated river sediments.

A removal action was also performed on Rogers Island. Information generated by New York State in the early 1990's along with development activities on the southern portion of the island raised concerns regarding potential exposure to PCBs by current residents and potential future users of Rogers Island. EPA decided it was necessary to remove PCB and lead contaminated soils from properties on the northern (residential) area of the island. Removal of the contaminated soil was

completed in December 1999.

Long−Term Remedial Phases:
Remnant Deposits: General Electric, under a Consent Decree with EPA, conducted an interim cleanup of the remnant deposits, selected in the 1984 Record of Decision for the site. The remedy chosen for this portion of the site was in−place containment of shoreline remnant deposits. This includes covering the affected areas with a geosynthetic clay liner and a 2−foot layer of soil, followed by grading and revegetating to minimize erosion. The river banks were stabilized with rock to prevent scouring. Cap construction and the erection of gates to limit site access were completed in 1991.

River Sediments: In the 1984 Record of Decision (ROD) for the site, EPA selected an interim "no−action" decision for the contaminated river sediments. After conducting a comprehensive reassessment of the earlier decision, EPA decided in February 2002 that it is appropriate to remediate the Upper Hudson River. The remedy selected in the 2002 ROD includes the dredging of approximately 2.65 million cubic yards of PCB−contaminated sediments from the Upper Hudson River, which was estimated to contain 70,000 kg (about 150,000 lbs) of total PCBs (approximately 65% of the total PCB mass present within the Upper Hudson River). The selected remedy assumes that a separate source control action would be implemented at the GE Hudson Falls plant. The major components of the selected remedy include:

− Removal of sediments based primarily on a mass per unit area (MPA) of 3 g/m 2 Tri+ PCBs or greater (approximately 1.56 million cubic yards of sediments) from River Section 1;
− Removal of sediments based primarily on an MPA of 10 g/m 2 Tri+ PCBs or greater (approximately 0.58 million cubic yards of sediments) from River Section 2;
− Removal of selected sediments with high concentrations of PCBs and high erosional potential (NYSDEC Hot Spots 36, 37, and the southern portion of 39) (approximately 0.51 million cubic yards) from River Section 3;
− Dredging of the navigation channel, as necessary, to implement the remedy and to avoid hindering canal traffic during implementation. Approximately 341,000 cubic yards of sediments will be removed from the navigation channel (included in volume estimates in the first three components, above);
− Removal of all PCB−contaminated sediments within areas targeted for remediation, with an anticipated residual of approximately 1 mg/kg Tri+ PCBs (prior to backfilling);
− Performance standards for air quality and noise are included in this ROD consistent with state and federal law;
− Other performance standards (including but not necessarily limited to resuspension rates during dredging, production rates during dredging, and residuals after dredging) will be developed during the design with input from the public and in consultation with the state and federal natural resource trustees. These performance standards will be enforceable, and based on objective environmental and scientific criteria. The standards will promote accountability and ensure that the cleanup meets the human health and environmental protection objectives of the ROD.
− Independent external peer review of the dredging resuspension, PCB residuals, and production rate performance standards and the attendant monitoring program, as well as the report prepared at the end of the first phase of dredging that will evaluate the dredging with respect to these performance standards;
− Performance of the dredging in two phases whereby remedial dredging will occur at a reduced rate during the first year of dredging. This will allow comparison of operations with pre−established performance standards and evaluation of necessary adjustments to dredging operations in the succeeding phase or to the standards. Beginning in phase 1 and continuing throughout the life of the project, EPA will conduct an extensive monitoring program. The data EPA gathers, as well as the Agency’s ongoing evaluation of the work with respect to the performance standards, will be made available to the public in a timely manner and will be used to evaluate the project to determine whether it is achieving its human health and environmental protection objectives;

− Backfill of dredged areas with approximately one foot of clean material to isolate residual PCB contamination and to expedite habitat recovery, where appropriate;

− Use of rail and/or barge for transportation of clean backfill materials within the Upper Hudson River area;
− Monitored Natural Attenuation (MNA) of PCB contamination that remains in the river after dredging;
− Use of environmental dredging techniques to minimize and control resuspension of sediments during dredging;
− Transport of dredged sediments via barge or pipeline to sediment processing/transfer facilities for dewatering and, as needed, stabilization;
− Rail and/or barge transport of dewatered, stabilized sediments to an appropriate licensed off−site landfill(s) for disposal. If a beneficial use of some portion of the dredged material is arranged, then an appropriate transportation method will be determined (rail, truck, or barge);
− Monitoring of fish, water and sediment to determine when Remediation Goals are reached, and also monitoring the restoration of aquatic vegetation; and,
− Implementation (or modification) of appropriate institutional controls such as fish consumption advisories and fishing restrictions by the responsible authorities, until relevant Remediation Goals are met.
The targeting of Hot Spots 36, 37 and the southern portion of 39, was based on available data showing that those areas have high PCB concentrations, and potential for loss to the water column or uptake by biota. Additional sampling is being conducted during remedial design to determine whether other areas in River Section 3 have these characteristics and therefore need to be remediated as part of the selected remedy.

Remedial dredging will be conducted in two phases. The first phase will be the first construction season of remedial dredging. The dredging during that year will be implemented initially at less than full scale operation. It will include an extensive monitoring program of all operations. An independent external peer review of the dredging resuspension, PCB residuals, and production rate performance standards will be conducted as part of the Phase 1 program; modifications to the standards or the project design for Phase 2 will be made based upon the findings of the peer review and Phase 1 outcomes. The second phase will be the remainder of the dredging operation, which will be conducted at full−scale. During the full−scale remedial dredging, EPA will continue to monitor, evaluate performance data and make necessary adjustments.

The ROD also noted that sampling of the floodplains would be performed during the remedial design phase of the river sediments remedy. Sampling of the floodplains has been initiated. As a result of the initial phase of sampling, several floodplain areas were targeted for a removal action in 2007. This work was performed by GE. More extensive sampling for a remedial investigation is currently planned for 2008.

Enforcement Status:
EPA has entered into two Administrative Orders on Consent (AOCs) with General Electric Company (GE). Under the July 2002 AOC the company agreed to conduct the extensive sediment sampling needed to identify areas to be dredged; under the August 2003 AOC the company agreed to design both Phase 1 and Phase 2 of the project. EPA and GE reached agreement on a Consent Decree (CD) for under which GE would implement the first phase of the dredging remedy, slated to begin in the spring of 2009, and which would allow for a seamless transition for the Company to perform the remainder of the remedy. The proposed CD was lodged with the Federal District Court in Albany, New York on October 6, 2005. Comments on the CD were accepted through December 14, 2005. EPA and DOJ prepared responses to comments and filed them with the Court on May 16, 2006. In June 2006 the Town of Fort Edward filed a motion to intervene with the Court. On November 2, 2006, the court approved a Consent Decree (CD) and rejected the Town’s motion to intervene. The Town appealed the Court’s decision; this appeal was rejected in January 2008.

Under the agreements, EPA has already received approximately $37 million from GE for past site costs. The CD calls for GE to pay EPA an additional $78 million for the Agency’s past and future costs if GE takes on Phase 2 of the dredging program pursuant to the CD; if GE only conducts the first phase of the dredging program the additional payment would amount to approximately $43 million. Additionally, the agreement contains a provision to help ensure that there is no delay in the

transition between Phase 1 and Phase 2 of the project. It requires GE to spend up to $5 million between the end of the Phase 1 dredging and the date of GE's decision whether or not to conduct Phase 2, to prepare for the initiation of the second phase of dredging. If GE does not agree to conduct the Phase 2 dredging, EPA fully reserved all of its enforcement authorities, including its right to direct the company to perform the dredging and/or sue in district court to require GE to perform Phase 2 or to reimburse EPA for its costs if the Agency conducts Phase 2 using government funds.

Under an earlier agreement GE agreed to implement the in−place containment remedy for the remnant deposits and to reimburse EPA for any costs incurred for that portion of the site remedy.

GE also signed on to a floodplains removal agreement AOC in 2007. EPA is currentlly negotiating anadditional AOC with GE for floodplains remedial investigation/feasibility study. Negotiations on the remedial investigation are not expected to be complete before the summer/fall of 2009. However, GE entered into an AOC in September of 2008 to conduct additional investigatory work in the floodplains. The investigation was completed in the December of 2008 and a report is expected in the Spring of 2009.

Cleanup Progress
River Sediments; 2002 Record of Decision (ROD) for the Hudson River PCBs Site: EPA has made significant progress on the sediment remedy since the ROD was issued, reaching milestones that include the collection and analysis of more approximately 50,000 samples from the river bottom for PCB analysis, the completion of strict engineering and quality of life performance standards to protect public health and minimize impacts on Hudson River communities, the siting of the needed sediment transfer/processing facility in Fort Edward, New York, and the approval of several portions of the Final Design for Phase 1of the project. Construction of a major component of the project, the sediment processing and transfer facility, began in the Spring of 2007. The 110−acre facility is expected to take approximately 18 to 24 months to complete. The construction of this multi−million dollar facility is a major undertaking that will include: the widening of the Champlain Canal for a wharf for unloading barges; a rail yard with five miles of rail to facilitate the loading and transport of sediments by rail to a landfill outside New York State; a two mile access road that will alleviate project traffic on the Town of Fort Edward; a two million gallon per day treatment plant; a dewatering plant capable of processing more than 5000 cubic yards of sediment per day. Substantial construction of the facility has been completed. The Phase 1 design was finalized in January 2008. Dredging will begin in late Spring 2009.

A water line to serve two of the downstream communities (Waterford and Halfmoon) in the event of resuspension of PCBs is 60% complete and on schedule to be completed before the start of dredging. A filter system is being designed for a third community (Stillwater) and is expected to be completed by the start of dredging as well.

The Phase 2 Intermediate Design Report was submitted in May of 2008 and is under review.

Remnant Deposits: Cap construction was completed at the remnant deposits area of the Hudson River PCBs site in 1991, which prevents exposure to contaminants by direct contact or inhalation. In addition, the capping along with bank stabilization should minimize the amount of PCBs entering the river from the remnant deposits. Further studies to evaluate alternatives to address the river sediments are underway.

Hudson Falls Plant Site: After the implementation of interim remedial measures at the Hudson Falls Plant site, PCB concentrations in the water−column decreased to levels which are below those measured before the 1991 peak PCB levels. Additional studies were conducted to evaluate if additional control measures could further reduce contributions to the water column from the Hudson Falls Plant site. New York State selected additional remedial measures for the facility in March 2004. The construction of the remainder of the remedy dealing with the migration of PCB oil and contaminated groundwater began in the Spring of 2007, and are expected to be completed in 2009. Design of the remedy for the

contaminated overburden soils is ongoing.

Ft. Edward Plant Site: New York State issued a Record of Decision on Jan. 28, 2000 for the Ft. Edward plant site dealing with enhancements to the groundwater and PCB oil recovery systems in the main manufacturing area, and PCB−contaminated soils and sediments at the plant outfall. The work at the facility is substantially complete and a groundwater treatment system is operational, although New York State and GE have an agreement for the conduct of a remedial investigation of contaminated bedrock seeps discovered during the remediation of the plant outfall. This investigation is currently underway.

Site Repositories
Adriance Memorial Library, 93 Market Street, Poughkeepsie, NY 12601
Crandell Library, City Park, Glens Falls, NY 12801
Edgewater Public Library, 49 Hudson Ave., Edgewater, NJ 07020
New York State Library, CEC Empire State Plaza, Albany, NY 12230
Saratoga County EMC, 50 W. High Street, Ballston Spa, NY 12020

U.S. Environmental Protection Agency Records Center, 290 Broadway, 18th Floor, NY, NY 10007
USEPA, Hudson River Field Office, 421 Lower Main Street, Fort Edward, NY 12839

December 31, 2008

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 546031
CLASSIFICATION CODE: 02 REGION: 5 DEC ID: 56194
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Hudson River PCB Sediments
STREET ADDRESS: Hudson River, Hudson Falls−NYC Battery TOWN: Moreau
CITY: ZIP: 12180 COUNTY: Saratoga

ESTIMATED SIZE:
SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
NYD980763841	EPA Site ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: STATE OF NEW YORK Owner Type: Other State Agency (State Government)

ADDRESS:

NAME: New York State Owner Type: Other State Agency (State Government)
ADDRESS:

NAME: New York State
ADDRESS:

OWNER(S) DURING DISPOSAL:
NAME: STATE OF NEW YORK
ADDRESS:

OPERATOR(S) DURING DISPOSAL:
NAME: NYS Department of Transportation
ADDRESS: State Campus − Building 5
Albany, NY 12233

HAZARDOUS WASTE DISPOSAL PERIOD: from 1946 to present

SITE DESCRIPTION:
Site Location:

This site includes the nearly 200−mile stretch of the Hudson River that extends from Hudson Falls in Washington County to the Battery in New York City. The river is part of the Champlain Canal between Fort Edward and Waterford.

Site Features:

The site includes the main stem of the Hudson River, as well as the associated flood plains, river banks, riverene fringing wetlands, and backwater areas.

Current zoning / uses:

The river is currently used for recreation, transportation, and as a source of water for drinking and other purposes. The river floodplain areas include all types of land uses, from passive / recreational to residential to commenrcial / industrial.

Historical uses:

The General Electric Company (GE) discharged PCBs into the river from two capacitor manufacturing plants located in Hudson Falls and Fort Edward starting sometime in 1946.

Previous investigations identified 40 areas or ’hot spots’ in the upper Hudson that had sediments contaminated with greater than 50 ppm of PCBs. Also included in the definition of this site are five Remnant Deposits or river sediment areas that were exposed when the level of the river was lowered when the Fort Edward Dam was removed in 1973.

EPA issued a Record of Decision (ROD) for this National Priorities List site on September 25, 1984 which included: in−place containment of the Remnant Deposits; evaluation of downstream domestic water quality at Waterford, New York; and interim "No Action" as to the PCB−contaminated river sediment. The 1984 ROD indicated that both the No Action decision for the river

sediments and the containment remedy for the Remnant Deposits might be reexamined by EPA in the future. The containment remedy for the Remnant Deposits was performed by GE under a 1990 Consent Decree with EPA. In addition, in 1990, NYSDEC completed the evaluation of downstream domestic water quality at Waterford, New York, which concluded that PCB concentrations were below analytical detection limits after treatment and met standards applicable to public water supplies.

In December 1989, EPA announced its decision to initiate a detailed Reassessment Remedial Investigation/Feasibility Study (RI/FS) of the September 1984 decision concerning the PCB contaminated Hudson River sediments. The Reassessment culminated with EPA's issuance of a second ROD for the site in February 2002 which included the dredging of an estimated 2.65 million cubic yards of PCB contaminated sediments from the Upper Hudson River (between Fort Edward and Troy), which was estimated in the ROD to contain about 66,300 kilograms of total PCBs (approximately 65% of the total PCB mass estimated to be present within the Upper Hudson River). The ROD also identified further evaluation of PCB contamination in the flood plains concurrent with the design phase of the project.

EPA issued a series of Orders to GE for performance of the engineering design for the project. Project design has been completed for Phase 1 (the first year) of the dredging program, and is ongoing for the remainder of the project. Phase 1 dredging commenced in May 2009, and was completed in October 2009. As a result of supplemental investigations during design, the estimates of sediment volume and PCB mass to be removed have been revised to a lower volume of sediment (~1.8 million cubic yards) and a higher PCB mass (~113,000 kilograms) to be removed as a result of the project.

After completion of Phase 1, EPA reviewed the environmental monitoring and operational data to determine the changes to the project standards and to project design specifications for Phase 2.

The changes to the project for Phase 2 were provided to GE in December 2010. GE, in accordance with the Consent Decree for the site, opted to implement Phase 2 of the remedy on 12/31/10.

Phase 2 of the remedial project started in 2011, and is anticipated to take five to seven years.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
LEAD	UNKNOWN
CADMIUM	UNKNOWN
PCB-AROCLOR 1016	UNKNOWN
PCB-AROCLOR 1242	UNKNOWN
PCB-AROCLOR 1254	UNKNOWN
POLYCHLORINATED BIPHENYLS (PCB)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and extent of contamination:

Contaminants:

The primary constituent of concern is PCBs, discharged from two GE capacitor plants in Hudson Falls and Fort Edward. The upstream extent of contamination is the portion of the river immediately above the Bakers Falls Dam at the GE Hudson Falls plant site. The downstream extent of contamination is the Atlantic Ocean.

The commercial mixtures of PCBs discharged from the two GE plant sites changed over time; intially aroclor 1254, changing to

aroclor 1242 and then to aroclor 1016.

Contaminant Concentrations:

PCBs have been found in excess of standards, criteria and guidance concentrations (SCGs) in sediments, surface water, biota, air, and soils at the Hudson River PCBs site. The primary sources at the plant sites have been almost completely abated through remedial work at the plant sites; as a result, the primary source of PCB to the surface water and biota of the river are the contaminated sediments in the river south of the plant sites.

PCB concentrations in sediment range from non−detect to greater than one percent PCB (> 10,000 parts per million). In surface water typically concenrtations range from 2 nanograms per liter (ng/l or parts per trillion) to 100 ng/l, except at times of high flow when scour−driven remobilization of contaminated sediments can cause much higher concentrations in excess of 1 microgram per liter (1 ug/l or part per billion).

Investigations are underway to determine the extent of floodplain impacts. To date, PCB concentrations in excess of 500 milligrams per kilogram (mg/kg or part per million) have been found in limited areas. The nature and extent of floodplain soil contamination has not yet been established.

Significant threat:
PCB contamination in the Hudson River sediments pose a significant threat to human health and/or the environment. Concentrations in PCBs in biota directly attributable to the waste disposal at the site have led the Department of Health to recommend that human consumption of biota be limited over a substantial portion of the Hudson River between Hudson Falls and the Battery in New York City. In the upper Hudson, the fishery is catch and release only, and the NYSDOH advisory is to eat none.

The dispoal of PCB into the Hudson River has also led to significant environmental damage as defined in 6 NYCRR Part 375.

This site has been included in the Federal National Priorities List (NPL).

ASSESSMENT OF HEALTH PROBLEMS:
Consumption of fish is the major potential route of human exposure to PCBs from this site. Because of site impacts, most fish from the Hudson River downstream of Hudson Falls have elevated PCB levels, particularly near the GE Fort Edward Plant site and the GE Hudson Falls site. Fishing is restricted to catch and release from Hudson Falls to Troy. In addition, there are advisories ("eat none" or "eat no more than 1 meal per month") on consumption of several fish species caught from the Hudson River below the Troy Dam to New York Harbor. There are two downstream public drinking water supply intakes within the Upper Hudson River located in Halfmoon and in Waterford. Plans to protect these public water supplies during dredging are under development. In addition, GE under USEPA oversight will take actions at several properties along the Hudson River in 2007 to address PCB contaminated floodplain soils. These actions vary from deploying signs to installing various covers and are intended to reduce exposures to PCBs in floodplain soils until a permanent remedy is developed. Additionally, plans for further floodplain soil investigations in the Upper Hudson River Floodplain are under development.

PROJECT COMPLETIONS:
Operable Unit 01 − IRM − Remnant Site Capping

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Design		09/01/1990	Actual
Remedial Action		03/01/1995	Actual

Operable Unit 02 − USEPA Hudson River PCB Sediment Remedial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Investigation		02/01/2002	Actual
Remedial Design	Phase 1 – Contract 2 Remedial Design	05/31/2006	Actual
Remedial Design	Phase 1 – Contract 1 Remedial Design	05/31/2006	Actual
Remedial Design	Phase 1 – Contract 3 Remedial Design	09/14/2006	Actual
Remedial Design	Phase 1 – Contract 6 Remedial Design	09/14/2006	Actual
Remedial Design	Phase 1 – Contract 4 Remedial Design	11/30/2007	Actual
Remedial Design	Phase 1 – Contract 5 Remedial Design	11/30/2007	Actual
Remedial Design	Phase 1 Engineering Design Report	01/25/2008	Actual
Remedial Action	Dewatering Facility Construction	05/15/2009	Actual
Remedial Action	Phase 1 Dredging	12/24/2009	Actual
Remedial Design	Phase 2 Year 1	04/26/2011	Actual
Remedial Action	Phase 1 Habitat Reconstruction	08/15/2011	Actual
Remedial Action	Phase 2 Year 1 Dredging	12/30/2011	Actual
Remedial Design	Phase 2 Year 2	05/03/2012	Actual
Remedial Action	Phase 2 Year 1 Habitat Reconstruction	09/14/2012	Actual
Remedial Action	Phase 2 Year 2 Dredging	12/20/2012	Actual
Remedial Design	Phase 2 Year 3	05/01/2013	Actual
Remedial Action	Phase 2 Year 2 Habitat Reconstruction	08/16/2013	Actual
Remedial Action	Phase 2 Year 3 Dredging	12/12/2013	Actual

Operable Unit 03A – Upper Hudson Flood Plain – IRM (Short Term Response Action)

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Design	Upper Hudson Flood Plain – IRM – 2007	06/19/2007	Actual
Remedial Action	Upper Hudson Flood Plain – IRM – 2007	10/24/2007	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air–	Surface Water–X	Groundwater–	Soil–	Sediment–X		
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater–	Drinking Water–	Surface Water–X	Air–			

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE:	Fluvial sediments.
GROUNDWATER DEPTH:	Not applicable.

LEGAL ACTION:	Type: Consent Order		State–	Federal–X	
STATUS:	Negotiation in Progress–		Order Signed–X		
REMEDIAL ACTION:	Proposed–	Under Design–	In Progress–X	Completed–	
NATURE OF ACTION:	Reassessment.				

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USEPA COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)

SITE INFORMATION

EPA-ID: NYD980763841 Site-ID: 0202229
Site Name: HUDSON RIVER PCBS
Site Street: NO STREET APPLICABLE
Site City/State/Zip: HUDSON RIVER, NY 12801

NFRAP (No Further Remedial Activity Planned) Status: NOT DESIGNATED AS NFRAP

USGS Hydrological Unit: 02020003 NPL Status Indicator: Currently on the Final NPL
Incident Category: Waterways/Creeks/Rivers RCRA Flag:
Non-NPL Status: Non-NPL Stat Date:
Federal Facility Flag: Not a Federal Facility

Federal Register activity:
Activity: Proposed for Federal Register Date: 09/08/1983 Proposed NPL List Number: 1
Activity: Currently on the Final Federal Register Date: 09/21/1984 Final NPL List Number: 3

Site Type(s):
Category: Manufacturing/Processing/Maintenance Sub-Category: Electronic/electrical equipment

Site Program Priority:
CPRM Universe
EI FY 2006 Baseline Site
EI FY 2008 Baseline Site
Human Exposure EI FY 2002 Baseline Site
Mega Site

Contact information:
Person: JENNIFER LAPOMA Title: Remedial Project Manager (RPM) Phone: 2126374328

SITE DESCRIPTION
The Hudson River PCBs Site includes a nearly 200 river-mile stretch of the Hudson River in eastern New York State from the Village of Hudson Falls to the Battery in New York City. The Hudson River has been designated an American Heritage River because of its important role in American history and culture. This federal Superfund Record of Decision (ROD) addresses the risks to people and ecological receptors associated with polychlorinated biphenyls (PCBs) in the in-place sediments of the Upper Hudson River.

The Site is divided into the Upper Hudson River which is the length of river between Hudson Falls and the Federal Dam at Troy, New York and the Lower Hudson River which is the length of river between Federal Dam at Troy and the Battery. For purposes of this project, EPA further divided the Upper Hudson River area into three main sections known as River Section 1, River Section 2, and River Section 3. The Site also includes five Remnant Deposits, which are areas of PCB-contaminated sediment that became exposed after the river water level dropped following removal of the Fort Edward Dam in 1973.

The Upper Hudson River portion of the Site extends from the Fenimore Bridge in Hudson Falls to the Federal Dam at Troy, a distance of just over 43 river miles. The Lower Hudson River extends from the Federal Dam to the southern tip of Manhattan at the Battery in New York City. The Mid-Hudson River, which is primarily a subset of the Lower Hudson River, extends from the Federal Dam at Troy to just south of Poughkeepsie.

The predominant sources of PCB contamination to the Upper Hudson River were two capacitor manufacturing plants owned and operated by GE. The plants are located adjacent to or near the Hudson River in the Village of Hudson Falls and the Town of Fort Edward. Over a 30−year period, the plants discharged a substantial amount of PCBs into the river. At the GE Hudson Falls plant, leakage of non−aqueous phase PCB−bearing oils through bedrock to the river continues to be a source of PCB contamination. Regarding the former outfall to the Hudson River from the GE Fort Edward plant, New York State Department of Environmental Conservation (NYSDEC) issued a Record of Decision in January 2000 that calls for the excavation of PCB−contaminated soil and sediment in this area of the Upper Hudson River shoreline in order to eliminate this source of PCBs to the river. EPA's analysis assumes a significantly reduced PCB loading to the river from these sources once the State's plans for remediation are implemented.

PCBs, the chemicals of concern addressed in this decision document, have been classified by EPA as probable human carcinogens. They are also linked to other serious non− cancer adverse health effects based on observations in animals and emerging evidence in humans.

Once discharged from the GE plants, the PCBs adhered to river sediment and accumulated downstream as they settled in impounded pools and other depositional areas. Historic fish and sediment data indicated PCBs were accumulating downstream of the old Fort Edward Dam as well as accumulating behind the dam. The removal of the dam in 1973 resulted in a remobilization and downstream distribution of PCBs that had accumulated behind the dam. Historically, the highest PCB sediment concentrations have been detected in the cohesive sediments within the Upper Hudson River. River scouring/ erosion and other mechanisms have mobilized PCB− contaminated sediments from the extensive cohesive deposits, redepositing them farther downstream all the way to the Battery. The preponderance of data indicates that burial of contaminated sediment by cleaner materials is not universally or uniformly occurring. Data also indicate that contaminated sediments in River Sections 1, 2 and 3 continue to serve as the major source of PCBs to the water column and the fish within the Upper Hudson River.

During an approximate 30−year period ending in 1977, PCBs were used in capacitor manufacturing operations Hudson Falls and Fort Edward, New York facilities. PCB oils were discharged both directly and indirectly from these plants into the Hudson River. This included both non−permitted and permitted discharges. Even after permits were received in 1975, permit exceedances occurred. Estimates of the total quantity of PCBs discharged directly from the two plants into the river from the 1940s to 1977 are as high as 1,330,000 pounds (about 605,000 kg).

Many of the PCBs discharged to the river adhered to sediments and accumulated with the sediments as they settled in the impounded pool behind the Fort Edward Dam, as well as other depositional areas farther downstream. Because of its deteriorating condition, the Fort Edward Dam was removed in 1973. Five areas of PCB−contaminated sediments were exposed due to the lowering of the river water level when the Fort Edward Dam was removed. These five areas are known as the Remnant Deposits. During subsequent floods, PCB−contaminated sediments from the Fort Edward Dam area were scoured and transported downstream.

EPA notified the company that had the two plants of the remedy selected in the 1984 ROD and offered the company the opportunity to implement the selected remedy with respect to the Remnant Deposits and the Waterford drinking water supply evaluation. The company declined EPA's offer. NYSDEC, with funding provided by EPA, conducted the evaluation at the Waterford Water Works. In addition, NYSDEC prepared a design for the in− place containment of the Remnant Deposits. This design was completed in 1988.

In March 1989, the company offered to assume responsibility for the implementation of the in−place containment remedy for the Remnant Deposits. EPA issued a September 27, 1989 Administrative Order on Consent to the company which required the company to prepare a remedial design report for the construction of access roads to the Remnant Deposits and to submit a design for the in−place containment of the Remnant Deposits incorporating the NYSDEC−prepared design, plus any EPA−approved refinements to that design. EPA also issued a September 27, 1989 Administrative Order to the company requiring the company to construct and maintain the access roads to the Remnant Deposits. The company constructed the in−place containment of the Remnant Deposits under a 1990

Consent Decree with EPA. EPA will evaluate the need for further remedial action for the Remnant Deposits after completion of a 5−year review of the Remnant Deposit containment remedy, performed pursuant to CERCLA ?121(c).

The company's manufacturing plants in Hudson Falls and Fort Edward are listed under the New York State Inactive Hazardous Waste Disposal Sites Remedial program. The company currently is conducting remedial activities near the Hudson Falls and Fort Edward plants pursuant to Orders on Consent with NYSDEC. The company has thus far declined to implement the January 2000 NYSDEC Record of Decision for the Fort Edward plant Outfall 004. The NYSDEC is conducting the remedial design for that ROD.

As one of America's great rivers, the Hudson has played and will continue to play a major role in the history, culture, and economy of the area. The Hudson has been designated an American Heritage River because of its important role in American history and culture. Current and reasonably−anticipated future land use and surface water use are described below. Current land use includes a variety of residential, commercial and industrial activities. Use of the river and lands surrounding the river are projected to remain the same. At this time, no changes in future land use are known, nor are any new uses expected. The Site passes through 14 different counties as the river flows to its final discharge point in New York Harbor. Four counties (Albany, Washington, Rensselaer, and Saratoga) lie adjacent to the more highly contaminated portions (areas of proposed active remediation in River Sections 1, 2 and 3) of the Upper Hudson River between Troy (Federal Dam) and Hudson Falls. Within these four counties, forests and farmlands surround urban centers and historic villages. There are apple orchards and dairy farms, parks, nature preserves and gardens. In addition to the GE Hudson Falls and Fort Edward plants, the area is home to technology companies, oil service companies and food companies. Saratoga and Washington Counties have experienced population growth between 1990 and 1999 of 10.2 percent and 1.4 percent, respectively, while Rensselaer and Albany Counties have experienced population declines of 1.9 percent and 0.3 percent, respectively. Total population of these four counties, according to July 1999 estimates by the US Department of Commerce Bureau of the Census, is just under 700,000. Warren County, in which the City of Glens Falls is located, has a population of just over 60,000 and is just to the northwest of the Hudson River PCBs Site.

A Record of Decision (ROD) addressing operable unit 1 (OU 01) was completed in September 1984.

A Record of Decision addressing OU 2 was completed in February 2002.

SITE ALIAS INFORMATION

Alias Name: HUDSON RIVER PCBS Alias ID: 101
Alias Street:
Alias City/State/Zip: WARREN, NY

Alias Name: HUDSON RIVER PCBS Alias ID: 102
Alias Street: NO STREET APPLICABLE
Alias City/State/Zip: NO CITY APPLICABLE, NY 12801

Alias Name: HUDSON RIVER PCBS Alias ID: 103
Alias Street: NO STREET APPLICABLE
Alias City/State/Zip: HUDSON RIVER, NY 12801

OPERABLE UNIT INFORMATION

Operable Unit ID: 00 Operable Unit Name: SITEWIDE
Operable Unit ID: 01 Operable Unit Name: REMNANT DEPOSIT CAPPING
Operable Unit ID: 02 Operable Unit Name: REASSESSMENT RIVER

Operable Unit ID: 03 Operable Unit Name: ROGER'S ISLAND
Operable Unit ID: 04 Operable Unit Name: FLOODPLAINS OU

Constituent Contaminant(s):

Name:	AROCLOR-1016					Haz Substance Code: 12674-11-2
Contam Group:	PCBs	Media:	Sediment			Subst Of Concern: Y
Wst Src Name:	Sediment	Min Concen:				Max Concen:
Action:	Record of Decision			Start Date:		Compl Date: 02/01/2002
Name:	AROCLOR-1016					Haz Substance Code: 12674-11-2
Contam Group:	PCBs	Media:	Surface Water			Subst Of Concern: Y
Wst Src Name:	Surface Water	Min Concen:				Max Concen:
Action:	Record of Decision			Start Date:		Compl Date: 02/01/2002
Name:	AROCLOR-1254					Haz Substance Code: 11097-69-1
Contam Group:	PCBs	Media:	Sediment			Subst Of Concern: Y
Wst Src Name:	Sediment	Min Concen:				Max Concen:
Action:	Record of Decision			Start Date:		Compl Date: 02/01/2002
Name:	AROCLOR-1254					Haz Substance Code: 11097-69-1
Contam Group:	PCBs	Media:	Surface Water			Subst Of Concern: Y
Wst Src Name:	Surface Water	Min Concen:				Max Concen:
Action:	Record of Decision			Start Date:		Compl Date: 02/01/2002
Name:	METALS					Haz Substance Code: TBD-00000006
Contam Group:	Metals	Media:	Soil			Subst Of Concern:
Wst Src Name:	SOIL 01 MATRL	Min Concen:				Max Concen:
Action:	PRP Remedial Action			Start Date:	09/28/1990	Compl Date: 09/29/1992
Name:	METALS					Haz Substance Code: TBD-00000006
Contam Group:	Metals	Media:	Soil			Subst Of Concern:
Wst Src Name:	SOIL 02 MATRL	Min Concen:				Max Concen:
Action:	PRP Remedial Action			Start Date:	09/28/1990	Compl Date: 09/29/1992
Name:	PCBs					Haz Substance Code: TBD-00000027
Contam Group:	PCBs	Media:	Soil			Subst Of Concern:
Wst Src Name:	SOIL 01 MATRL	Min Concen:				Max Concen:
Action:	PRP Remedial Action			Start Date:	09/28/1990	Compl Date: 09/29/1992
Name:	PCBs					Haz Substance Code: TBD-00000027
Contam Group:	PCBs	Media:	Soil			Subst Of Concern:
Wst Src Name:	SOIL 02 MATRL	Min Concen:				Max Concen:
Action:	PRP Remedial Action			Start Date:	09/28/1990	Compl Date: 09/29/1992
Name:	PCBs					Haz Substance Code: 1336-36-3
Contam Group:	PCBs	Media:	Sediment			Subst Of Concern: Y
Wst Src Name:	River Sediment	Min Concen:				Max Concen:

Action: Record of Decision Start Date: Compl Date: 09/25/1984

Name: PCBs Haz Substance Code: 1336-36-3
Contam Group: PCBs Media: Sediment Subst Of Concern: Y
Wst Src Name: Sediment Min Concen: Max Concen:
Action: Record of Decision Start Date: Compl Date: 02/01/2002

Name: PCBs Haz Substance Code: 1336-36-3
Contam Group: PCBs Media: Surface Water Subst Of Concern: Y
Wst Src Name: Surface Water Min Concen: Max Concen:
Action: Record of Decision Start Date: Compl Date: 02/01/2002

Name: PCBs Haz Substance Code: 1336-36-3
Contam Group: PCBs Media: Sediment Subst Of Concern: Y
Wst Src Name: Remnant Deposits Min Concen: Max Concen:
Action: Record of Decision Start Date: Compl Date: 09/25/1984

Name: PCBs Haz Substance Code: TBD-00000027
Contam Group: PCBs Media: Soil Subst Of Concern: Y
Wst Src Name: Soil1 Min Concen: Max Concen:
Action: Potentially Responsible Party Removal Start Date: 09/11/2007 Compl Date: 04/10/2012

Waste Source Media:

Wst Src Name: River Sediment Media: Sediment
Action: Record of Decision Start Date: Compl Date: 09/25/1984
Low Volume: High Volume:

Wst Src Name: Remnant Deposits Media: Sediment
Action: Record of Decision Start Date: Compl Date: 09/25/1984
Low Volume: 0 Acres High Volume: 359525 Acres

Wst Src Name: Access Roads Media: Soil
Action: PRP Remedial Action Start Date: 10/13/1989 Compl Date: 09/29/1992
Low Volume: High Volume:

Wst Src Name: SOIL 01 MATRL Media: Soil
Action: PRP Remedial Action Start Date: 09/28/1990 Compl Date: 09/29/1992
Low Volume: High Volume:

Wst Src Name: SOIL 02 MATRL Media: Soil
Action: PRP Remedial Action Start Date: 09/28/1990 Compl Date: 09/29/1992
Low Volume: High Volume:

Wst Src Name: soil Media: Soil
Action: Removal Start Date: 10/06/1999 Compl Date: 09/14/2001
Low Volume: High Volume:

Wst Src Name: Sediment
Action: Record of Decision
Low Volume: 0
Media: Sediment
Start Date: Compl Date: 02/01/2002
High Volume: 2650000

Wst Src Name: Surface Water
Action: Record of Decision
Low Volume:
Media: Surface Water
Start Date: Compl Date: 02/01/2002
High Volume:

Wst Src Name: Surface Water
Action: Remedial Action
Low Volume:
Media: Surface Water
Start Date: 05/09/2008 Compl Date: 11/24/2009
High Volume:

Wst Src Name: Sediment
Action: Remedial Action
Low Volume: 0
Media: Sediment
Start Date: 05/09/2008 Compl Date: 11/24/2009
High Volume: 2650000

Wst Src Name: Surface Water
Action: Remedial Action
Low Volume:
Media: Surface Water
Start Date: 12/04/2008 Compl Date: 12/23/2009
High Volume:

Wst Src Name: Sediment
Action: Remedial Action
Low Volume: 0
Media: Sediment
Start Date: 12/04/2008 Compl Date: 12/23/2009
High Volume: 2650000

Wst Src Name: sediment
Action: PRP Remedial Action
Low Volume:
Media: Sediment
Start Date: 12/31/2010 Compl Date:
High Volume:

Wst Src Name: Soil1
Action: Potentially Responsible Party Removal
Low Volume:
Media: Soil
Start Date: 09/11/2007 Compl Date: 04/10/2012
High Volume:

Wst Src Name: River Sediments
Action: PRP Remedial Action
Low Volume: 0
Media: Sediment
Start Date: 09/06/2005 Compl Date: 09/04/2012
High Volume: 2650000

Removal Response activity:
Technology Type: Disposal
Technology Group: OTHER
Action: Removal
Media: Soil
Start Date: 10/06/1999 Compl Date: 09/14/2001

Remedial Response activity:
Technology Type: No Action
Technology Group: OTHER
Action: Record of Decision
Media: Sediment
Start Date: Compl Date: 09/25/1984

Technology Type:	Containment, (N.O.S.)	Media:	Sediment		
Technology Group:	CONTAINMENT				
Action:	Record of Decision	Start Date:		Compl Date:	09/25/1984
Technology Type:	Slope Stabilization	Media:	Sediment		
Technology Group:	OTHER				
Action:	Record of Decision	Start Date:		Compl Date:	09/25/1984
Technology Type:	Revegetation	Media:	Sediment		
Technology Group:	OTHER				
Action:	Record of Decision	Start Date:		Compl Date:	09/25/1984
Technology Type:	Cap	Media:	Soil		
Technology Group:	CONTAINMENT				
Action:	PRP Remedial Action	Start Date:	10/13/1989	Compl Date:	09/29/1992
Technology Type:	Cap	Media:	Soil		
Technology Group:	CONTAINMENT				
Action:	PRP Remedial Action	Start Date:	09/28/1990	Compl Date:	09/29/1992
Technology Type:	Other, (N.O.S.)	Media:	Soil		
Technology Group:	OTHER				
Action:	PRP Remedial Action	Start Date:	09/28/1990	Compl Date:	09/29/1992
Technology Type:	Excavation	Media:	Sediment		
Technology Group:	PHYSICAL/CHEMICAL TREATMENT (EX-SITU - ASSUMING EXCAVATION)				
Action:	Record of Decision	Start Date:		Compl Date:	02/01/2002
Technology Type:	Monitoring	Media:	Surface Water		
Technology Group:	OTHER				
Action:	Record of Decision	Start Date:		Compl Date:	02/01/2002
Technology Type:	Natural Attenuation	Media:	Surface Water		
Technology Group:	OTHER				
Action:	Record of Decision	Start Date:		Compl Date:	02/01/2002
Technology Type:	Fishing Advisory	Media:	Surface Water		
Technology Group:	INSTITUTIONAL CONTROLS				
Action:	Record of Decision	Start Date:		Compl Date:	02/01/2002
Technology Type:	Disposal	Media:	Sediment		
Technology Group:	OTHER				
Action:	Record of Decision	Start Date:		Compl Date:	02/01/2002
Technology Type:	Solidification/Stabilization (Ex-Situ)	Media:	Sediment		
Technology Group:	PHYSICAL/CHEMICAL TREATMENT (EX-SITU - ASSUMING EXCAVATION)				
Action:	Record of Decision	Start Date:		Compl Date:	02/01/2002

Technology Type: Dewatering Media: Sediment
Technology Group: PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)
Action: Record of Decision Start Date: Compl Date: 02/01/2002

Technology Type: Monitoring Media: Surface Water
Technology Group: OTHER
Action: Remedial Action Start Date: 05/09/2008 Compl Date: 11/24/2009

Technology Type: Natural Attenuation Media: Surface Water
Technology Group: OTHER
Action: Remedial Action Start Date: 05/09/2008 Compl Date: 11/24/2009

Technology Type: Fishing Advisory Media: Surface Water
Technology Group: INSTITUTIONAL CONTROLS
Action: Remedial Action Start Date: 05/09/2008 Compl Date: 11/24/2009

Technology Type: Excavation Media: Sediment
Technology Group: PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)
Action: Remedial Action Start Date: 05/09/2008 Compl Date: 11/24/2009

Technology Type: Disposal Media: Sediment
Technology Group: OTHER
Action: Remedial Action Start Date: 05/09/2008 Compl Date: 11/24/2009

Technology Type: Solidification/Stabilization (Ex−Situ) Media: Sediment
Technology Group: PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)
Action: Remedial Action Start Date: 05/09/2008 Compl Date: 11/24/2009

Technology Type: Dewatering Media: Sediment
Technology Group: PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)
Action: Remedial Action Start Date: 05/09/2008 Compl Date: 11/24/2009

Technology Type: Monitoring Media: Surface Water
Technology Group: OTHER
Action: Remedial Action Start Date: 12/04/2008 Compl Date: 12/23/2009

Technology Type: Natural Attenuation Media: Surface Water
Technology Group: OTHER
Action: Remedial Action Start Date: 12/04/2008 Compl Date: 12/23/2009

Technology Type: Fishing Advisory Media: Surface Water
Technology Group: INSTITUTIONAL CONTROLS
Action: Remedial Action Start Date: 12/04/2008 Compl Date: 12/23/2009

Technology Type: Excavation Media: Sediment
Technology Group: PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)

Action:	Remedial Action	Start Date: 12/04/2008	Compl Date: 12/23/2009
Technology Type:	Disposal	Media:	Sediment
Technology Group:	OTHER		
Action:	Remedial Action	Start Date: 12/04/2008	Compl Date: 12/23/2009
Technology Type:	Solidification/Stabilization (Ex−Situ)	Media:	Sediment
Technology Group:	PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)		
Action:	Remedial Action	Start Date: 12/04/2008	Compl Date: 12/23/2009
Technology Type:	Dewatering	Media:	Sediment
Technology Group:	PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)		
Action:	Remedial Action	Start Date: 12/04/2008	Compl Date: 12/23/2009
Technology Type:	Dredging	Media:	Sediment
Technology Group:	CONTAINMENT		
Action:	PRP Remedial Action	Start Date: 12/31/2010	Compl Date:
Technology Type:	Disposal	Media:	Sediment
Technology Group:	OTHER		
Action:	PRP Remedial Action	Start Date: 09/06/2005	Compl Date: 09/04/2012
Technology Type:	Excavation	Media:	Sediment
Technology Group:	PHYSICAL/CHEMICAL TREATMENT (EX−SITU − ASSUMING EXCAVATION)		
Action:	PRP Remedial Action	Start Date: 09/06/2005	Compl Date: 09/04/2012
Technology Type:	Institutional Controls, (N.O.S.)	Media:	Sediment
Technology Group:	INSTITUTIONAL CONTROLS		
Action:	PRP Remedial Action	Start Date: 09/06/2005	Compl Date: 09/04/2012
Technology Type:	Monitoring	Media:	Sediment
Technology Group:	OTHER		
Action:	PRP Remedial Action	Start Date: 09/06/2005	Compl Date: 09/04/2012

ACTION INFORMATION

Name:	Discovery	Start Date:		Operable Unit ID: 00
Lead:	EPA Fund−Financed	Completion Date:	07/01/1983	
Qualifier:		Fin Budget Src:		
Name:	Preliminary Assessment	Start Date:		Operable Unit ID: 00
Lead:	EPA Fund−Financed	Completion Date:	09/01/1983	
Qualifier:	Low	Fin Budget Src:	Remedial	
Name:	Site Inspection	Start Date:	08/01/1983	Operable Unit ID: 00
Lead:	EPA Fund−Financed	Completion Date:	09/01/1983	
Qualifier:	High	Fin Budget Src:	Remedial	

Name:	Proposal to NPL	Start Date:		Operable Unit ID: 00
Lead:	EPA Fund−Financed	Completion Date:	09/08/1983	
Qualifier:		Fin Budget Src:	Remedial	
Name:	NPL Responsible Party Search	Start Date:		Operable Unit ID: 00
Lead:	Federal Enforcement	Completion Date:	11/15/1983	
Qualifier:	Search Complete, Viable PRPs	Fin Budget Src:	Enforcement	
Name:	Final Listing on NPL	Start Date:		Operable Unit ID: 00
Lead:	EPA Fund−Financed	Completion Date:	09/21/1984	
Qualifier:		Fin Budget Src:	Remedial	
Name:	Combined RI/FS	Start Date:	03/30/1984	Operable Unit ID: 01
Lead:	EPA Fund−Financed	Completion Date:	09/25/1984	
Qualifier:		Fin Budget Src:	Remedial	
Name:	Record of Decision	Start Date:		Operable Unit ID: 01
Lead:	EPA Fund−Financed	Completion Date:	09/25/1984	
Qualifier:		Fin Budget Src:		
Name:	Remedial Design/Remedial Action Negotiations	Start Date:	10/27/1983	Operable Unit ID: 00
Lead:	Federal Enforcement	Completion Date:	09/28/1984	
Qualifier:		Fin Budget Src:	Enforcement	
Name:	Administrative/Voluntary Cost Recovery	Start Date:		Operable Unit ID: 00
Lead:	Federal Enforcement	Completion Date:	05/04/1988	
Qualifier:		Fin Budget Src:	Enforcement	
Name:	Remedial Design	Start Date:	02/02/1989	Operable Unit ID: 01
Lead:	EPA Fund−Financed	Completion Date:	06/05/1989	
Qualifier:		Fin Budget Src:	Remedial	
Name:	Administrative Order on Consent	Start Date:		Operable Unit ID: 01
Lead:	Federal Enforcement	Completion Date:	09/27/1989	
Qualifier:		Fin Budget Src:	Enforcement	
Name:	Remedial Design/Remedial Action Negotiations	Start Date:	06/09/1989	Operable Unit ID: 00
Lead:	Federal Enforcement	Completion Date:	09/27/1989	
Qualifier:		Fin Budget Src:	Enforcement	
Name:	Remedial Design/Remedial Action Negotiations	Start Date:	06/09/1989	Operable Unit ID: 00
Lead:	Federal Enforcement	Completion Date:	09/27/1989	
Qualifier:		Fin Budget Src:	Enforcement	
Name:	Unilateral Administrative Order	Start Date:		Operable Unit ID: 00
Lead:	Federal Enforcement	Completion Date:	09/27/1989	

Qualifier: Fin Budget Src: Enforcement

Name: Remedial Design/Remedial Action Negotiations Start Date: 03/03/1989 Operable Unit ID: 00
Lead: Federal Enforcement Completion Date: 04/06/1990
Qualifier: Fin Budget Src: Enforcement

Name: Lodged by DOJ Start Date: Operable Unit ID: 01
Lead: Federal Enforcement Completion Date: 05/18/1990
Qualifier: Fin Budget Src:

Name: Remedial Design Start Date: 09/28/1984 Operable Unit ID: 01
Lead: State, Fund Financed Completion Date: 05/18/1990
Qualifier: Fin Budget Src: Remedial

Name: Consent Decree Start Date: 04/06/1990 Operable Unit ID: 01
Lead: Federal Enforcement Completion Date: 07/21/1990
Qualifier: Fin Budget Src:

Name: Removal Assessment Start Date: 04/17/1990 Operable Unit ID: 00
Lead: EPA Fund−Financed Completion Date: 08/21/1990
Qualifier: Stabilized Fin Budget Src: Removal

Name: PRP Remedial Design Start Date: 09/27/1989 Operable Unit ID: 01
Lead: Responsible Party Completion Date: 09/28/1990
Qualifier: Fin Budget Src: Remedial

Name: RI/FS Negotiations Start Date: 03/12/1990 Operable Unit ID: 00
Lead: Federal Enforcement Completion Date: 10/04/1990
Qualifier: Fin Budget Src: Enforcement

Name: PRP Remedial Design Start Date: 05/18/1989 Operable Unit ID: 01
Lead: Responsible Party Completion Date: 01/07/1991
Qualifier: Fin Budget Src: Remedial

Name: PRP Remedial Action Start Date: 10/13/1989 Operable Unit ID: 01
Lead: Responsible Party Completion Date: 09/29/1992
Qualifier: Fin Budget Src: Remedial

Name: PRP Remedial Action Start Date: 09/28/1990 Operable Unit ID: 01
Lead: Responsible Party Completion Date: 09/29/1992
Qualifier: Fin Budget Src: Remedial

Name: Removal Assessment Start Date: 11/19/1992 Operable Unit ID: 03
Lead: EPA Fund−Financed Completion Date: 12/01/1992
Qualifier: Stabilized Fin Budget Src: Removal

Name: Technical Assistence Start Date: 09/30/1997 Operable Unit ID: 02

Lead: EPA Fund−Financed
Qualifier:
Completion Date:
Fin Budget Src: Remedial

Name: Comfort/Status Letter
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 00
Completion Date: 11/02/1998
Fin Budget Src:

Name: Removal Assessment
Lead: EPA Fund−Financed
Qualifier:
Start Date: 10/14/1998 Operable Unit ID: 03
Completion Date: 01/07/1999
Fin Budget Src: Removal

Name: Removal Assessment
Lead: EPA Fund−Financed
Qualifier:
Start Date: 06/03/1998 Operable Unit ID: 03
Completion Date: 06/24/1999
Fin Budget Src: Removal

Name: Public Notice Published
Lead: EPA Fund−Financed
Qualifier:
Start Date: Operable Unit ID: 00
Completion Date: 03/28/2000
Fin Budget Src:

Name: Removal
Lead: EPA Fund−Financed
Qualifier: Stabilized
Start Date: 10/06/1999 Operable Unit ID: 03
Completion Date: 09/14/2001
Fin Budget Src: Removal

Name: Combined RI/FS
Lead: EPA Fund−Financed
Qualifier:
Start Date: 07/25/1990 Operable Unit ID: 02
Completion Date: 02/01/2002
Fin Budget Src: Remedial

Name: Record of Decision
Lead: EPA Fund−Financed
Qualifier: Final Remedy Selected at Site
Start Date: Operable Unit ID: 02
Completion Date: 02/01/2002
Fin Budget Src:

Name: Special Notice Issued
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 02
Completion Date: 02/04/2002
Fin Budget Src:

Name: Special Notice Issued
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 02
Completion Date: 02/04/2002
Fin Budget Src:

Name: Special Notice Issued
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 04
Completion Date: 02/04/2002
Fin Budget Src:

Name: Remedial Design
Lead: Special Account Financed Action − EPA
Qualifier:
Start Date: 02/15/2002 Operable Unit ID: 02
Completion Date:
Fin Budget Src: Remedial

Name: Administrative Order on Consent
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 02
Completion Date: 07/23/2002
Fin Budget Src: Enforcement

Name: Remedial Design/Remedial Action Negotiations
Lead: Federal Enforcement
Qualifier:
Start Date: 02/04/2002 Operable Unit ID: 02
Completion Date: 07/23/2002
Fin Budget Src: Enforcement

Name: PRP Remedial Design
Lead: Responsible Party
Qualifier:
Start Date: 07/23/2002 Operable Unit ID: 02
Completion Date:
Fin Budget Src: Remedial

Name: Technical Assistence
Lead: EPA Fund−Financed
Qualifier:
Start Date: 07/08/2003 Operable Unit ID: 02
Completion Date:
Fin Budget Src: Remedial

Name: Administrative Order on Consent
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 02
Completion Date: 08/13/2003
Fin Budget Src: Enforcement

Name: Remedial Design/Remedial Action Negotiations
Lead: Federal Enforcement
Qualifier:
Start Date: 07/23/2002 Operable Unit ID: 02
Completion Date: 08/13/2003
Fin Budget Src: Enforcement

Name: Expanded Site Insp/Remedial Investigation
Lead: EPA Fund−Financed
Qualifier: Referred to Removal, no further Remedial
Start Date: Operable Unit ID: 00
Completion Date: 08/31/2005
Fin Budget Src: Remedial

Name: Remedial Design/Remedial Action Negotiations
Lead: Federal Enforcement
Qualifier:
Start Date: 02/04/2002 Operable Unit ID: 02
Completion Date: 09/06/2005
Fin Budget Src: Enforcement

Name: Technical Assistance Grant
Lead: EPA Fund−Financed
Qualifier:
Start Date: 09/29/1995 Operable Unit ID: 00
Completion Date: 09/20/2005
Fin Budget Src: Remedial

Name: Lodged by DOJ
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 02
Completion Date: 10/06/2005
Fin Budget Src:

Name: Consent Decree
Lead: Federal Enforcement
Qualifier:
Start Date: 09/06/2005 Operable Unit ID: 02
Completion Date: 11/02/2006
Fin Budget Src:

Name: Community Involvement
Lead: EPA Fund−Financed
Qualifier:
Start Date: 03/25/2002 Operable Unit ID: 02
Completion Date: 11/02/2006
Fin Budget Src: Remedial

Name: Remedial Action
Lead: Special Account Financed Action − State
Qualifier:
Start Date: 01/19/2007 Operable Unit ID: 02
Completion Date:
Fin Budget Src: Remedial

Name: Unilateral Administrative Order
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 00
Completion Date: 03/29/2007
Fin Budget Src: Enforcement

Name: State Support Agency Cooperative Agreement
Lead: EPA Fund−Financed
Qualifier:
Start Date: 02/22/1991 Operable Unit ID: 02
Completion Date: 04/03/2007
Fin Budget Src: Remedial

Name: Administrative Order on Consent
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 04
Completion Date: 07/11/2007
Fin Budget Src: Enforcement

Name: Removal Negotiations
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 04
Completion Date: 07/11/2007
Fin Budget Src: Enforcement

Name: PRP Emergency Removal
Lead: Responsible Party
Qualifier: Cleaned up
Start Date: 08/24/2007 Operable Unit ID: 00
Completion Date: 08/27/2007
Fin Budget Src:

Name: PRP Remedial Design
Lead: Responsible Party
Qualifier:
Start Date: 08/14/2003 Operable Unit ID: 02
Completion Date: 01/25/2008
Fin Budget Src: Remedial

Name: Real Property Acquisition
Lead:
Qualifier:
Start Date: 02/15/2008 Operable Unit ID: 02
Completion Date:
Fin Budget Src: Pipeline Operations

Name: Section 104(E) Ref Litigation
Lead: Federal Enforcement
Qualifier:
Start Date: 09/27/2007 Operable Unit ID: 00
Completion Date: 07/28/2008
Fin Budget Src: Enforcement

Name: Unilateral Administrative Order
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 00
Completion Date: 09/05/2008
Fin Budget Src: Enforcement

Name: Unilateral Administrative Order
Lead: Federal Enforcement
Qualifier:
Start Date: Operable Unit ID: 00
Completion Date: 09/05/2008
Fin Budget Src: Enforcement

Name: Administrative Order on Consent
Lead: Federal Enforcement
Start Date: Operable Unit ID: 04
Completion Date: 09/08/2008

Qualifier: Fin Budget Src: Enforcement

Name: PRP Remedial Investigation/Feasibility Study Start Date: 09/08/2008 Operable Unit ID: 04
Lead: Responsible Party Completion Date:
Qualifier: Fin Budget Src: Remedial

Name: RI/FS Negotiations Start Date: 02/04/2002 Operable Unit ID: 04
Lead: Federal Enforcement Completion Date: 09/08/2008
Qualifier: Fin Budget Src: Enforcement

Name: Unilateral Administrative Order Start Date: Operable Unit ID: 00
Lead: Federal Enforcement Completion Date: 09/11/2008
Qualifier: Fin Budget Src: Enforcement

Name: Unilateral Administrative Order Start Date: Operable Unit ID: 00
Lead: Federal Enforcement Completion Date: 10/14/2008
Qualifier: Fin Budget Src: Enforcement

Name: Unilateral Administrative Order Start Date: Operable Unit ID: 00
Lead: Federal Enforcement Completion Date: 02/03/2009
Qualifier: Fin Budget Src: Enforcement

Name: Technical Assistance Grant Start Date: 11/17/2009 Operable Unit ID: 00
Lead: EPA Fund−Financed Completion Date:
Qualifier: Fin Budget Src: Remedial

Name: Remedial Action Start Date: 05/09/2008 Operable Unit ID: 02
Lead: Special Account Financed Action − EPA Completion Date: 11/24/2009
Qualifier: Final RA Report Fin Budget Src: Remedial

Name: Remedial Action Start Date: 12/04/2008 Operable Unit ID: 02
Lead: Special Account Financed Action − EPA Completion Date: 12/23/2009
Qualifier: Final RA Report Fin Budget Src: Remedial

Name: PRP Remedial Action Start Date: 12/31/2010 Operable Unit ID: 02
Lead: Responsible Party Completion Date:
Qualifier: Fin Budget Src: Remedial

Name: PRP Remedial Design Start Date: 08/14/2003 Operable Unit ID: 02
Lead: Responsible Party Completion Date: 04/26/2011
Qualifier: Fin Budget Src: Remedial

Name: Potentially Responsible Party Removal Start Date: 09/11/2007 Operable Unit ID: 04
Lead: Responsible Party Completion Date: 04/10/2012
Qualifier: Stabilized Fin Budget Src: Removal

Name: Five−Year Review Start Date: Operable Unit ID: 00

Lead: EPA Fund-Financed
Qualifier:
Completion Date: 06/01/2012
Fin Budget Src: Remedial

Name: PRP Remedial Action
Lead: Responsible Party
Qualifier:
Start Date: 09/06/2005 Operable Unit ID: 02
Completion Date: 09/04/2012
Fin Budget Src: Remedial

FINANCIAL INFORMATION

Action Name:	Combined RI/FS	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	03/30/1984
Budget Source:	Remedial	Amount:	$131000
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	09/28/1984
Budget Source:	Remedial	Amount:	$359539
Action Name:	Combined RI/FS	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	08/14/1985
Budget Source:	Remedial	Amount:	$13460
Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Commitment	Date:	01/30/1989
Budget Source:	Remedial	Amount:	$100000
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Open Commitment	Date:	01/30/1989
Budget Source:	Remedial	Amount:	$100000
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	02/02/1989
Budget Source:	Remedial	Amount:	$100000
Action Name:	Remedial Design	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	04/28/1989
Budget Source:	Remedial	Amount:	$350000
Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	10/02/1989
Budget Source:	Remedial	Amount:	$100000
Action Name:	PRP Remedial Design	Financial ID:	0002
Financial Type:	Commitment	Date:	03/20/1990
Budget Source:	Remedial	Amount:	$40000
Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Open Commitment	Date:	03/20/1990

Budget Source: Remedial Amount: $40000

Action Name: PRP Remedial Design Financial ID: 0001
Financial Type: Actual Obligation Date: 05/22/1990
Budget Source: Remedial Amount: $40000

Action Name: Combined RI/FS Financial ID: 0001
Financial Type: Actual Obligation Date: 07/25/1990
Budget Source: Remedial Amount: $500000

Action Name: PRP Remedial Action Financial ID: 0001
Financial Type: Actual Obligation Date: 09/25/1990
Budget Source: Remedial Amount: $60000

Action Name: PRP Remedial Action Financial ID: 0002
Financial Type: Actual Obligation Date: 09/29/1990
Budget Source: Remedial Amount: $49500

Action Name: PRP Remedial Action Financial ID: 0003
Financial Type: Actual Obligation Date: 09/30/1990
Budget Source: Remedial Amount: $150000

Action Name: Combined RI/FS Financial ID: 0004
Financial Type: Commitment Date: 02/12/1991
Budget Source: Remedial Amount: $1000000

Action Name: Combined RI/FS Financial ID: 0001
Financial Type: Open Commitment Date: 02/12/1991
Budget Source: Remedial Amount: $1000000

Action Name: Combined RI/FS Financial ID: 0024
Financial Type: Actual Obligation Date: 05/07/1991
Budget Source: Remedial Amount: $1000000

Action Name: State Support Agency Cooperative Agreement Financial ID: 0001
Financial Type: Actual Obligation Date: 09/22/1991
Budget Source: Remedial Amount: $80000

Action Name: PRP Remedial Action Financial ID: 0001
Financial Type: Actual Obligation Date: 09/25/1991
Budget Source: Remedial Amount: $50000

Action Name: Combined RI/FS Financial ID: 0019
Financial Type: Actual Obligation Date: 09/30/1991
Budget Source: Remedial Amount: $750000

Action Name: Combined RI/FS Financial ID: 0023

Financial Type: Actual Obligation
Budget Source: Remedial
Date: 09/30/1991
Amount: $500000

Action Name: Combined RI/FS
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0017
Date: 08/24/1992
Amount: $2540000

Action Name: Combined RI/FS
Financial Type: Open Commitment
Budget Source: Remedial
Financial ID: 0002
Date: 08/24/1992
Amount: $2540000

Action Name: Combined RI/FS
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0016
Date: 09/25/1992
Amount: $767003

Action Name: Combined RI/FS
Financial Type: Open Commitment
Budget Source: Remedial
Financial ID: 0003
Date: 09/25/1992
Amount: $767003

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0020
Date: 09/30/1992
Amount: $2540000

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0021
Date: 09/30/1992
Amount: $767003

Action Name: State Support Agency Cooperative Agreement
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0004
Date: 09/24/1993
Amount: $133996

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0002
Date: 09/30/1993
Amount: $100000

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0003
Date: 09/30/1993
Amount: $250000

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0022
Date: 09/30/1993
Amount: $3452457

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0018
Date: 01/25/1994
Amount: $340000

Action Name:	Combined RI/FS	Financial ID:	0010
Financial Type:	Actual Obligation	Date:	08/31/1994
Budget Source:	Remedial	Amount:	$419042
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	09/29/1994
Budget Source:	Remedial	Amount:	$36400
Action Name:	Combined RI/FS	Financial ID:	0011
Financial Type:	Actual Obligation	Date:	09/30/1994
Budget Source:	Remedial	Amount:	$580958
Action Name:	Combined RI/FS	Financial ID:	0015
Financial Type:	Commitment	Date:	02/10/1995
Budget Source:	Remedial	Amount:	$70000
Action Name:	Combined RI/FS	Financial ID:	0004
Financial Type:	Open Commitment	Date:	02/10/1995
Budget Source:	Remedial	Amount:	$70000
Action Name:	Combined RI/FS	Financial ID:	0009
Financial Type:	Actual Obligation	Date:	02/28/1995
Budget Source:	Remedial	Amount:	$70000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	04/06/1995
Budget Source:	Remedial	Amount:	$60000
Action Name:	Combined RI/FS	Financial ID:	0007
Financial Type:	Actual Obligation	Date:	06/21/1995
Budget Source:	Remedial	Amount:	$110000
Action Name:	Combined RI/FS	Financial ID:	0008
Financial Type:	Actual Obligation	Date:	06/30/1995
Budget Source:	Remedial	Amount:	$1900000
Action Name:	Combined RI/FS	Financial ID:	0014
Financial Type:	Commitment	Date:	08/07/1995
Budget Source:	Remedial	Amount:	$50000
Action Name:	Combined RI/FS	Financial ID:	0005
Financial Type:	Open Commitment	Date:	08/07/1995
Budget Source:	Remedial	Amount:	$50000
Action Name:	Combined RI/FS	Financial ID:	0006
Financial Type:	Actual Obligation	Date:	09/27/1995
Budget Source:	Remedial	Amount:	$50000

Action Name:	Technical Assistance Grant	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	09/29/1995
Budget Source:	Remedial	Amount:	$50000
Action Name:	Combined RI/FS	Financial ID:	0013
Financial Type:	Commitment	Date:	03/13/1996
Budget Source:	Remedial	Amount:	$1000000
Action Name:	Combined RI/FS	Financial ID:	0030
Financial Type:	Decommitment	Date:	03/13/1996
Budget Source:	Remedial	Amount:	$1000000
Action Name:	Combined RI/FS	Financial ID:	0005
Financial Type:	Actual Obligation	Date:	03/13/1996
Budget Source:	Remedial	Amount:	$1000000
Action Name:	Combined RI/FS	Financial ID:	0001
Financial Type:	Deobligation	Date:	07/15/1996
Budget Source:	Remedial	Amount:	$1500000
Action Name:	Combined RI/FS	Financial ID:	0018
Financial Type:	Commitment	Date:	08/28/1996
Budget Source:	Remedial	Amount:	$1500000
Action Name:	Combined RI/FS	Financial ID:	0019
Financial Type:	Commitment	Date:	09/21/1996
Budget Source:	Remedial	Amount:	$1792845
Action Name:	Combined RI/FS	Financial ID:	0001
Financial Type:	Decommitment	Date:	09/25/1996
Budget Source:	Remedial	Amount:	$1500000
Action Name:	Combined RI/FS	Financial ID:	0025
Financial Type:	Actual Obligation	Date:	09/25/1996
Budget Source:	Remedial	Amount:	$1500000
Action Name:	Combined RI/FS	Financial ID:	0028
Financial Type:	Decommitment	Date:	09/28/1996
Budget Source:	Remedial	Amount:	$1792845
Action Name:	Combined RI/FS	Financial ID:	0029
Financial Type:	Actual Obligation	Date:	09/28/1996
Budget Source:	Remedial	Amount:	$1792845
Action Name:	Combined RI/FS	Financial ID:	0029
Financial Type:	Deobligation	Date:	05/14/1997

Budget Source: Remedial
Amount: $23018

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0030
Date: 05/14/1997
Amount: $9849

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0002
Date: 06/19/1997
Amount: $159393

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0003
Date: 06/19/1997
Amount: $312386

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0031
Date: 06/19/1997
Amount: $244817

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0001
Date: 06/19/1997
Amount: $159393

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0002
Date: 06/19/1997
Amount: $312386

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 08/08/1997
Amount: $3776

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 08/08/1997
Amount: $3776

Action Name: Combined RI/FS
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0020
Date: 09/04/1997
Amount: $600000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0005
Date: 09/16/1997
Amount: $4571

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0004
Date: 09/16/1997
Amount: $4571

Action Name: Technical Assistence
Financial ID: 0001

Financial Type: Commitment
Budget Source: Remedial
Date: 09/24/1997
Amount: $80000

Action Name: Combined RI/FS
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0031
Date: 09/26/1997
Amount: $600000

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0030
Date: 09/26/1997
Amount: $600000

Action Name: Technical Assistence
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0001
Date: 09/30/1997
Amount: $80000

Action Name: Technical Assistence
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0001
Date: 09/30/1997
Amount: $80000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0006
Date: 10/14/1997
Amount: $120737

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0005
Date: 10/14/1997
Amount: $120737

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0007
Date: 10/31/1997
Amount: $520

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0006
Date: 10/31/1997
Amount: $520

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0008
Date: 01/05/1998
Amount: $7078

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 01/05/1998
Amount: $283782

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 01/05/1998
Amount: $107986

Action Name:	Combined RI/FS	Financial ID:	0007
Financial Type:	Extramural Outlay (Payment)	Date:	01/05/1998
Budget Source:	Remedial	Amount:	$283782
Action Name:	Combined RI/FS	Financial ID:	0008
Financial Type:	Extramural Outlay (Payment)	Date:	01/05/1998
Budget Source:	Remedial	Amount:	$107986
Action Name:	Combined RI/FS	Financial ID:	0009
Financial Type:	Extramural Outlay (Payment)	Date:	01/05/1998
Budget Source:	Remedial	Amount:	$7078
Action Name:	Combined RI/FS	Financial ID:	0011
Financial Type:	Deobligation	Date:	04/07/1998
Budget Source:	Remedial	Amount:	$13861
Action Name:	Combined RI/FS	Financial ID:	0012
Financial Type:	Deobligation	Date:	04/07/1998
Budget Source:	Remedial	Amount:	$1594
Action Name:	Combined RI/FS	Financial ID:	0013
Financial Type:	Deobligation	Date:	04/07/1998
Budget Source:	Remedial	Amount:	$1472
Action Name:	Combined RI/FS	Financial ID:	0010
Financial Type:	Extramural Outlay (Payment)	Date:	04/07/1998
Budget Source:	Remedial	Amount:	$13861
Action Name:	Combined RI/FS	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	04/07/1998
Budget Source:	Remedial	Amount:	$1594
Action Name:	Combined RI/FS	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	04/07/1998
Budget Source:	Remedial	Amount:	$1472
Action Name:	Combined RI/FS	Financial ID:	0021
Financial Type:	Commitment	Date:	04/10/1998
Budget Source:	Remedial	Amount:	$700000
Action Name:	Combined RI/FS	Financial ID:	0014
Financial Type:	Deobligation	Date:	05/19/1998
Budget Source:	Remedial	Amount:	$8366
Action Name:	Combined RI/FS	Financial ID:	0015
Financial Type:	Deobligation	Date:	05/19/1998
Budget Source:	Remedial	Amount:	$128644

Action Name:	Combined RI/FS	Financial ID:	0016
Financial Type:	Deobligation	Date:	05/19/1998
Budget Source:	Remedial	Amount:	$4041
Action Name:	Combined RI/FS	Financial ID:	0013
Financial Type:	Extramural Outlay (Payment)	Date:	05/19/1998
Budget Source:	Remedial	Amount:	$8366
Action Name:	Combined RI/FS	Financial ID:	0014
Financial Type:	Extramural Outlay (Payment)	Date:	05/19/1998
Budget Source:	Remedial	Amount:	$128644
Action Name:	Combined RI/FS	Financial ID:	0015
Financial Type:	Extramural Outlay (Payment)	Date:	05/19/1998
Budget Source:	Remedial	Amount:	$4041
Action Name:	Technical Assistence	Financial ID:	0001
Financial Type:	Deobligation	Date:	05/20/1998
Budget Source:	Remedial	Amount:	$80000
Action Name:	Technical Assistence	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	05/20/1998
Budget Source:	Remedial	Amount:	$80000
Action Name:	Combined RI/FS	Financial ID:	0032
Financial Type:	Decommitment	Date:	07/01/1998
Budget Source:	Remedial	Amount:	$700000
Action Name:	Combined RI/FS	Financial ID:	0031
Financial Type:	Actual Obligation	Date:	07/01/1998
Budget Source:	Remedial	Amount:	$700000
Action Name:	Combined RI/FS	Financial ID:	0017
Financial Type:	Deobligation	Date:	07/06/1998
Budget Source:	Remedial	Amount:	$9150
Action Name:	Combined RI/FS	Financial ID:	0016
Financial Type:	Extramural Outlay (Payment)	Date:	07/06/1998
Budget Source:	Remedial	Amount:	$9150
Action Name:	Combined RI/FS	Financial ID:	0018
Financial Type:	Deobligation	Date:	07/08/1998
Budget Source:	Remedial	Amount:	$6195
Action Name:	Combined RI/FS	Financial ID:	0017
Financial Type:	Extramural Outlay (Payment)	Date:	07/08/1998

Budget Source:	Remedial	Amount:	$6195
Action Name:	PRP Remedial Action	Financial ID:	0001
Financial Type:	Deobligation	Date:	07/30/1998
Budget Source:	Remedial	Amount:	$11966
Action Name:	Combined RI/FS	Financial ID:	0026
Financial Type:	Deobligation	Date:	07/30/1998
Budget Source:	Remedial	Amount:	$193567
Action Name:	Combined RI/FS	Financial ID:	0027
Financial Type:	Deobligation	Date:	07/30/1998
Budget Source:	Remedial	Amount:	$20479
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Deobligation	Date:	07/30/1998
Budget Source:	Remedial	Amount:	$3182
Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Deobligation	Date:	07/30/1998
Budget Source:	Remedial	Amount:	$3763
Action Name:	Combined RI/FS	Financial ID:	0019
Financial Type:	Deobligation	Date:	08/26/1998
Budget Source:	Remedial	Amount:	$6075
Action Name:	Combined RI/FS	Financial ID:	0018
Financial Type:	Extramural Outlay (Payment)	Date:	08/26/1998
Budget Source:	Remedial	Amount:	$6075
Action Name:	Combined RI/FS	Financial ID:	0022
Financial Type:	Commitment	Date:	09/03/1998
Budget Source:	Remedial	Amount:	$252
Action Name:	Combined RI/FS	Financial ID:	0033
Financial Type:	Decommitment	Date:	09/17/1998
Budget Source:	Remedial	Amount:	$252
Action Name:	Combined RI/FS	Financial ID:	0032
Financial Type:	Actual Obligation	Date:	09/17/1998
Budget Source:	Remedial	Amount:	$252
Action Name:	Combined RI/FS	Financial ID:	0020
Financial Type:	Deobligation	Date:	09/17/1998
Budget Source:	Remedial	Amount:	$10303
Action Name:	Combined RI/FS	Financial ID:	0019

Financial Type: Extramural Outlay (Payment) Date: 09/17/1998
Budget Source: Remedial Amount: $10303

Action Name: Combined RI/FS Financial ID: 0021
Financial Type: Deobligation Date: 09/21/1998
Budget Source: Remedial Amount: $4389

Action Name: Combined RI/FS Financial ID: 0020
Financial Type: Extramural Outlay (Payment) Date: 09/21/1998
Budget Source: Remedial Amount: $4389

Action Name: Combined RI/FS Financial ID: 0022
Financial Type: Deobligation Date: 09/24/1998
Budget Source: Remedial Amount: $5557

Action Name: Combined RI/FS Financial ID: 0023
Financial Type: Deobligation Date: 09/24/1998
Budget Source: Remedial Amount: $116100

Action Name: Combined RI/FS Financial ID: 0021
Financial Type: Extramural Outlay (Payment) Date: 09/24/1998
Budget Source: Remedial Amount: $5557

Action Name: Combined RI/FS Financial ID: 0022
Financial Type: Extramural Outlay (Payment) Date: 09/24/1998
Budget Source: Remedial Amount: $116100

Action Name: State Support Agency Cooperative Agreement Financial ID: 0001
Financial Type: Commitment Date: 09/28/1998
Budget Source: Remedial Amount: $150100

Action Name: State Support Agency Cooperative Agreement Financial ID: 0002
Financial Type: Commitment Date: 09/28/1998
Budget Source: Remedial Amount: $100000

Action Name: State Support Agency Cooperative Agreement Financial ID: 0001
Financial Type: Decommitment Date: 09/30/1998
Budget Source: Remedial Amount: $150100

Action Name: State Support Agency Cooperative Agreement Financial ID: 0002
Financial Type: Decommitment Date: 09/30/1998
Budget Source: Remedial Amount: $100000

Action Name: State Support Agency Cooperative Agreement Financial ID: 0005
Financial Type: Actual Obligation Date: 09/30/1998
Budget Source: Remedial Amount: $150100

Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0006
Financial Type:	Actual Obligation	Date:	09/30/1998
Budget Source:	Remedial	Amount:	$100000
Action Name:	Combined RI/FS	Financial ID:	0024
Financial Type:	Deobligation	Date:	10/06/1998
Budget Source:	Remedial	Amount:	$3383
Action Name:	Combined RI/FS	Financial ID:	0023
Financial Type:	Extramural Outlay (Payment)	Date:	10/06/1998
Budget Source:	Remedial	Amount:	$3383
Action Name:	Combined RI/FS	Financial ID:	0025
Financial Type:	Deobligation	Date:	10/21/1998
Budget Source:	Remedial	Amount:	$3984
Action Name:	Combined RI/FS	Financial ID:	0024
Financial Type:	Extramural Outlay (Payment)	Date:	10/21/1998
Budget Source:	Remedial	Amount:	$3984
Action Name:	Combined RI/FS	Financial ID:	0028
Financial Type:	Deobligation	Date:	12/01/1998
Budget Source:	Remedial	Amount:	$14960
Action Name:	Combined RI/FS	Financial ID:	0025
Financial Type:	Extramural Outlay (Payment)	Date:	12/01/1998
Budget Source:	Remedial	Amount:	$14960
Action Name:	Combined RI/FS	Financial ID:	0032
Financial Type:	Deobligation	Date:	12/15/1998
Budget Source:	Remedial	Amount:	$119764
Action Name:	Combined RI/FS	Financial ID:	0026
Financial Type:	Extramural Outlay (Payment)	Date:	12/15/1998
Budget Source:	Remedial	Amount:	$119764
Action Name:	Combined RI/FS	Financial ID:	0033
Financial Type:	Deobligation	Date:	12/16/1998
Budget Source:	Remedial	Amount:	$81643
Action Name:	Combined RI/FS	Financial ID:	0034
Financial Type:	Deobligation	Date:	12/16/1998
Budget Source:	Remedial	Amount:	$146864
Action Name:	Combined RI/FS	Financial ID:	0027
Financial Type:	Extramural Outlay (Payment)	Date:	12/16/1998
Budget Source:	Remedial	Amount:	$146864

Action Name:	Combined RI/FS	Financial ID:	0028
Financial Type:	Extramural Outlay (Payment)	Date:	12/16/1998
Budget Source:	Remedial	Amount:	$81643
Action Name:	Combined RI/FS	Financial ID:	0035
Financial Type:	Deobligation	Date:	12/29/1998
Budget Source:	Remedial	Amount:	$35387
Action Name:	Combined RI/FS	Financial ID:	0029
Financial Type:	Extramural Outlay (Payment)	Date:	12/29/1998
Budget Source:	Remedial	Amount:	$35387
Action Name:	Combined RI/FS	Financial ID:	0036
Financial Type:	Deobligation	Date:	02/02/1999
Budget Source:	Remedial	Amount:	$6265
Action Name:	Combined RI/FS	Financial ID:	0030
Financial Type:	Extramural Outlay (Payment)	Date:	02/02/1999
Budget Source:	Remedial	Amount:	$6265
Action Name:	Combined RI/FS	Financial ID:	0037
Financial Type:	Deobligation	Date:	02/09/1999
Budget Source:	Remedial	Amount:	$102338
Action Name:	Combined RI/FS	Financial ID:	0038
Financial Type:	Deobligation	Date:	02/09/1999
Budget Source:	Remedial	Amount:	$97995
Action Name:	Combined RI/FS	Financial ID:	0031
Financial Type:	Extramural Outlay (Payment)	Date:	02/09/1999
Budget Source:	Remedial	Amount:	$102338
Action Name:	Combined RI/FS	Financial ID:	0032
Financial Type:	Extramural Outlay (Payment)	Date:	02/09/1999
Budget Source:	Remedial	Amount:	$97995
Action Name:	Combined RI/FS	Financial ID:	0035
Financial Type:	Actual Obligation	Date:	02/16/1999
Budget Source:	Remedial	Amount:	$288
Action Name:	Combined RI/FS	Financial ID:	0049
Financial Type:	Deobligation	Date:	02/18/1999
Budget Source:	Remedial	Amount:	$540
Action Name:	Combined RI/FS	Financial ID:	0043
Financial Type:	Extramural Outlay (Payment)	Date:	02/18/1999

Budget Source: Remedial
Amount: $540

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0039
Date: 02/26/1999
Amount: $8665

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0033
Date: 02/26/1999
Amount: $8665

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0004
Date: 03/01/1999
Amount: $2186

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0002
Date: 03/01/1999
Amount: $2186

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0001
Date: 03/01/1999
Amount: $1637

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0004
Date: 03/01/1999
Amount: $2186

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0001
Date: 03/01/1999
Amount: $1637

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0002
Date: 03/04/1999
Amount: $1637

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0001
Date: 03/12/1999
Amount: $3792

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0005
Date: 03/12/1999
Amount: $3792

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0005
Date: 03/12/1999
Amount: $3792

Action Name: Combined RI/FS
Financial ID: 0040

Financial Type: Deobligation
Budget Source: Remedial
Date: 03/30/1999
Amount: $17021

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0034
Date: 03/30/1999
Amount: $17021

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0041
Date: 04/02/1999
Amount: $623341

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0042
Date: 04/02/1999
Amount: $105654

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0035
Date: 04/02/1999
Amount: $623341

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0036
Date: 04/02/1999
Amount: $105654

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0043
Date: 04/16/1999
Amount: $34530

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0037
Date: 04/16/1999
Amount: $34530

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0033
Date: 04/21/1999
Amount: $8052

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0044
Date: 04/21/1999
Amount: $8052

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0038
Date: 04/21/1999
Amount: $8052

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0045
Date: 04/29/1999
Amount: $18981

Action Name:	Combined RI/FS	Financial ID:	0039
Financial Type:	Extramural Outlay (Payment)	Date:	04/29/1999
Budget Source:	Remedial	Amount:	$18981
Action Name:	Combined RI/FS	Financial ID:	0046
Financial Type:	Deobligation	Date:	05/04/1999
Budget Source:	Remedial	Amount:	$226604
Action Name:	Combined RI/FS	Financial ID:	0040
Financial Type:	Extramural Outlay (Payment)	Date:	05/04/1999
Budget Source:	Remedial	Amount:	$226604
Action Name:	Removal Assessment	Financial ID:	0005
Financial Type:	Actual Obligation	Date:	05/12/1999
Budget Source:	Removal	Amount:	$4036
Action Name:	Removal Assessment	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	05/12/1999
Budget Source:	Removal	Amount:	$11
Action Name:	Removal Assessment	Financial ID:	0004
Financial Type:	Deobligation	Date:	05/12/1999
Budget Source:	Removal	Amount:	$4036
Action Name:	Removal Assessment	Financial ID:	0002
Financial Type:	Deobligation	Date:	05/12/1999
Budget Source:	Removal	Amount:	$11
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	05/12/1999
Budget Source:	Removal	Amount:	$4036
Action Name:	Removal Assessment	Financial ID:	0001
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/12/1999
Budget Source:	Removal	Amount:	$11
Action Name:	Removal Assessment	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	05/26/1999
Budget Source:	Removal	Amount:	$11834
Action Name:	Combined RI/FS	Financial ID:	0047
Financial Type:	Deobligation	Date:	05/26/1999
Budget Source:	Remedial	Amount:	$17303
Action Name:	Removal Assessment	Financial ID:	0001
Financial Type:	Deobligation	Date:	05/26/1999
Budget Source:	Removal	Amount:	$11834

Action Name:	Combined RI/FS	Financial ID:	0041
Financial Type:	Extramural Outlay (Payment)	Date:	05/26/1999
Budget Source:	Remedial	Amount:	$17303
Action Name:	Removal Assessment	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	05/26/1999
Budget Source:	Removal	Amount:	$11834
Action Name:	Combined RI/FS	Financial ID:	0023
Financial Type:	Commitment	Date:	06/03/1999
Budget Source:	Remedial	Amount:	$1500000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0001
Financial Type:	Deobligation	Date:	06/03/1999
Budget Source:	Remedial	Amount:	$150100
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	06/03/1999
Budget Source:	Remedial	Amount:	$150100
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	06/09/1999
Budget Source:	Removal	Amount:	$401
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Deobligation	Date:	06/09/1999
Budget Source:	Removal	Amount:	$401
Action Name:	Removal Assessment	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	06/09/1999
Budget Source:	Removal	Amount:	$401
Action Name:	Combined RI/FS	Financial ID:	0048
Financial Type:	Deobligation	Date:	06/16/1999
Budget Source:	Remedial	Amount:	$77348
Action Name:	Combined RI/FS	Financial ID:	0042
Financial Type:	Extramural Outlay (Payment)	Date:	06/16/1999
Budget Source:	Remedial	Amount:	$77348
Action Name:	Combined RI/FS	Financial ID:	0034
Financial Type:	Decommitment	Date:	06/22/1999
Budget Source:	Remedial	Amount:	$1500000
Action Name:	Combined RI/FS	Financial ID:	0034
Financial Type:	Actual Obligation	Date:	06/22/1999

Budget Source: Remedial
Amount: $1500000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0050
Date: 06/29/1999
Amount: $33288

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0044
Date: 06/29/1999
Amount: $33288

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0051
Date: 08/02/1999
Amount: $6154

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0045
Date: 08/02/1999
Amount: $6154

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0052
Date: 08/03/1999
Amount: $314567

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0053
Date: 08/03/1999
Amount: $63605

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0054
Date: 08/03/1999
Amount: $6920

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0046
Date: 08/03/1999
Amount: $314567

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0047
Date: 08/03/1999
Amount: $6920

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0048
Date: 08/03/1999
Amount: $63605

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0007
Date: 08/09/1999
Amount: $82

Action Name: Removal Assessment
Financial ID: 0006

Financial Type: Deobligation
Budget Source: Removal
Date: 08/09/1999
Amount: $82

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0006
Date: 08/09/1999
Amount: $82

Action Name: State Support Agency Cooperative Agreement
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0003
Date: 08/18/1999
Amount: $20000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0055
Date: 09/02/1999
Amount: $22733

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0049
Date: 09/02/1999
Amount: $22733

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0056
Date: 09/03/1999
Amount: $14118

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0050
Date: 09/03/1999
Amount: $14118

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0001
Date: 09/15/1999
Amount: $1982

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0006
Date: 09/15/1999
Amount: $7496

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0001
Date: 09/15/1999
Amount: $1982

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0007
Date: 09/15/1999
Amount: $7496

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0001
Date: 09/15/1999
Amount: $1982

Action Name:	Removal Assessment	Financial ID:	0005
Financial Type:	Extramural Outlay (Payment)	Date:	09/15/1999
Budget Source:	Removal	Amount:	$7496
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0004
Financial Type:	Commitment	Date:	09/16/1999
Budget Source:	Remedial	Amount:	$160000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0003
Financial Type:	Decommitment	Date:	09/21/1999
Budget Source:	Remedial	Amount:	$160000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0004
Financial Type:	Decommitment	Date:	09/21/1999
Budget Source:	Remedial	Amount:	$20000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0007
Financial Type:	Actual Obligation	Date:	09/21/1999
Budget Source:	Remedial	Amount:	$160000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0008
Financial Type:	Actual Obligation	Date:	09/21/1999
Budget Source:	Remedial	Amount:	$20000
Action Name:	Combined RI/FS	Financial ID:	0057
Financial Type:	Deobligation	Date:	09/23/1999
Budget Source:	Remedial	Amount:	$8
Action Name:	Combined RI/FS	Financial ID:	0051
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/1999
Budget Source:	Remedial	Amount:	$8
Action Name:	Combined RI/FS	Financial ID:	0058
Financial Type:	Deobligation	Date:	09/27/1999
Budget Source:	Remedial	Amount:	$66984
Action Name:	Combined RI/FS	Financial ID:	0052
Financial Type:	Extramural Outlay (Payment)	Date:	09/27/1999
Budget Source:	Remedial	Amount:	$66984
Action Name:	Removal	Financial ID:	0001
Financial Type:	Commitment	Date:	09/30/1999
Budget Source:	Removal	Amount:	$1000000
Action Name:	Removal	Financial ID:	0001
Financial Type:	Decommitment	Date:	09/30/1999
Budget Source:	Removal	Amount:	$1000000

Action Name:	Removal	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	09/30/1999
Budget Source:	Removal	Amount:	$1000000
Action Name:	Combined RI/FS	Financial ID:	0059
Financial Type:	Deobligation	Date:	09/30/1999
Budget Source:	Remedial	Amount:	$59246
Action Name:	Combined RI/FS	Financial ID:	0053
Financial Type:	Extramural Outlay (Payment)	Date:	09/30/1999
Budget Source:	Remedial	Amount:	$59246
Action Name:	Removal Assessment	Financial ID:	0004
Financial Type:	Actual Obligation	Date:	10/13/1999
Budget Source:	Removal	Amount:	$2836
Action Name:	Removal Assessment	Financial ID:	0005
Financial Type:	Actual Obligation	Date:	10/13/1999
Budget Source:	Removal	Amount:	$1417
Action Name:	Removal Assessment	Financial ID:	0004
Financial Type:	Deobligation	Date:	10/13/1999
Budget Source:	Removal	Amount:	$2836
Action Name:	Removal Assessment	Financial ID:	0005
Financial Type:	Deobligation	Date:	10/13/1999
Budget Source:	Removal	Amount:	$1417
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	10/13/1999
Budget Source:	Removal	Amount:	$2836
Action Name:	Removal Assessment	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	10/13/1999
Budget Source:	Removal	Amount:	$1417
Action Name:	Combined RI/FS	Financial ID:	0060
Financial Type:	Deobligation	Date:	11/26/1999
Budget Source:	Remedial	Amount:	$4777
Action Name:	Combined RI/FS	Financial ID:	0054
Financial Type:	Extramural Outlay (Payment)	Date:	11/26/1999
Budget Source:	Remedial	Amount:	$4777
Action Name:	Combined RI/FS	Financial ID:	0061
Financial Type:	Deobligation	Date:	12/07/1999

Budget Source: Remedial Amount: $77166

Action Name: Combined RI/FS Financial ID: 0055
Financial Type: Extramural Outlay (Payment) Date: 12/07/1999
Budget Source: Remedial Amount: $77166

Action Name: Removal Financial ID: 0001
Financial Type: Deobligation Date: 12/15/1999
Budget Source: Removal Amount: $5995

Action Name: Removal Financial ID: 0001
Financial Type: Extramural Outlay (Payment) Date: 12/15/1999
Budget Source: Removal Amount: $5995

Action Name: Combined RI/FS Financial ID: 0024
Financial Type: Commitment Date: 12/17/1999
Budget Source: Remedial Amount: $1500000

Action Name: Combined RI/FS Financial ID: 0062
Financial Type: Deobligation Date: 12/23/1999
Budget Source: Remedial Amount: $389684

Action Name: Combined RI/FS Financial ID: 0063
Financial Type: Deobligation Date: 12/23/1999
Budget Source: Remedial Amount: $77274

Action Name: Combined RI/FS Financial ID: 0056
Financial Type: Extramural Outlay (Payment) Date: 12/23/1999
Budget Source: Remedial Amount: $389684

Action Name: Combined RI/FS Financial ID: 0057
Financial Type: Extramural Outlay (Payment) Date: 12/23/1999
Budget Source: Remedial Amount: $77274

Action Name: Combined RI/FS Financial ID: 0064
Financial Type: Deobligation Date: 01/11/2000
Budget Source: Remedial Amount: $196078

Action Name: Combined RI/FS Financial ID: 0058
Financial Type: Extramural Outlay (Payment) Date: 01/11/2000
Budget Source: Remedial Amount: $196078

Action Name: Combined RI/FS Financial ID: 0065
Financial Type: Deobligation Date: 01/13/2000
Budget Source: Remedial Amount: $1716

Action Name: Combined RI/FS Financial ID: 0059

Financial Type: Extramural Outlay (Payment) Date: 01/13/2000
Budget Source: Remedial Amount: $1716

Action Name: Removal Financial ID: 0002
Financial Type: Deobligation Date: 01/18/2000
Budget Source: Removal Amount: $102874

Action Name: Removal Financial ID: 0002
Financial Type: Extramural Outlay (Payment) Date: 01/18/2000
Budget Source: Removal Amount: $102874

Action Name: Combined RI/FS Financial ID: 0035
Financial Type: Decommitment Date: 02/01/2000
Budget Source: Remedial Amount: $1500000

Action Name: Combined RI/FS Financial ID: 0036
Financial Type: Actual Obligation Date: 02/01/2000
Budget Source: Remedial Amount: $1500000

Action Name: Combined RI/FS Financial ID: 0066
Financial Type: Deobligation Date: 02/04/2000
Budget Source: Remedial Amount: $121415

Action Name: Combined RI/FS Financial ID: 0060
Financial Type: Extramural Outlay (Payment) Date: 02/04/2000
Budget Source: Remedial Amount: $121415

Action Name: Removal Financial ID: 0003
Financial Type: Deobligation Date: 02/16/2000
Budget Source: Removal Amount: $186845

Action Name: Removal Financial ID: 0003
Financial Type: Extramural Outlay (Payment) Date: 02/16/2000
Budget Source: Removal Amount: $186845

Action Name: Combined RI/FS Financial ID: 0037
Financial Type: Actual Obligation Date: 02/25/2000
Budget Source: Remedial Amount: $10177

Action Name: Combined RI/FS Financial ID: 0001
Financial Type: Extramural Deoutlay (Credit) Date: 02/25/2000
Budget Source: Remedial Amount: $10177

Action Name: Removal Financial ID: 0004
Financial Type: Deobligation Date: 03/01/2000
Budget Source: Removal Amount: $123995

Action Name:	Removal	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	03/01/2000
Budget Source:	Removal	Amount:	$123995
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	03/07/2000
Budget Source:	Removal	Amount:	$1217
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Deobligation	Date:	03/07/2000
Budget Source:	Removal	Amount:	$1217
Action Name:	Removal Assessment	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	03/07/2000
Budget Source:	Removal	Amount:	$1217
Action Name:	Combined RI/FS	Financial ID:	0067
Financial Type:	Deobligation	Date:	03/22/2000
Budget Source:	Remedial	Amount:	$22726
Action Name:	Combined RI/FS	Financial ID:	0061
Financial Type:	Extramural Outlay (Payment)	Date:	03/22/2000
Budget Source:	Remedial	Amount:	$22726
Action Name:	Combined RI/FS	Financial ID:	0068
Financial Type:	Deobligation	Date:	03/24/2000
Budget Source:	Remedial	Amount:	$331472
Action Name:	Combined RI/FS	Financial ID:	0062
Financial Type:	Extramural Outlay (Payment)	Date:	03/24/2000
Budget Source:	Remedial	Amount:	$331472
Action Name:	Combined RI/FS	Financial ID:	0025
Financial Type:	Commitment	Date:	04/07/2000
Budget Source:	Remedial	Amount:	$700000
Action Name:	Removal	Financial ID:	0005
Financial Type:	Deobligation	Date:	04/11/2000
Budget Source:	Removal	Amount:	$265400
Action Name:	Removal	Financial ID:	0005
Financial Type:	Extramural Outlay (Payment)	Date:	04/11/2000
Budget Source:	Removal	Amount:	$265400
Action Name:	Combined RI/FS	Financial ID:	0069
Financial Type:	Deobligation	Date:	04/28/2000
Budget Source:	Remedial	Amount:	$9297

Action Name:	Combined RI/FS	Financial ID:	0063
Financial Type:	Extramural Outlay (Payment)	Date:	04/28/2000
Budget Source:	Remedial	Amount:	$9297
Action Name:	Combined RI/FS	Financial ID:	0038
Financial Type:	Actual Obligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$0
Action Name:	Combined RI/FS	Financial ID:	0039
Financial Type:	Actual Obligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$3732
Action Name:	Combined RI/FS	Financial ID:	0040
Financial Type:	Actual Obligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$6057
Action Name:	Combined RI/FS	Financial ID:	0041
Financial Type:	Actual Obligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$8453
Action Name:	Combined RI/FS	Financial ID:	0070
Financial Type:	Deobligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$3945
Action Name:	Combined RI/FS	Financial ID:	0071
Financial Type:	Deobligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$8453
Action Name:	Combined RI/FS	Financial ID:	0072
Financial Type:	Deobligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$1972
Action Name:	Combined RI/FS	Financial ID:	0073
Financial Type:	Deobligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$1761
Action Name:	Combined RI/FS	Financial ID:	0074
Financial Type:	Deobligation	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$2114
Action Name:	Combined RI/FS	Financial ID:	0064
Financial Type:	Extramural Outlay (Payment)	Date:	05/02/2000
Budget Source:	Remedial	Amount:	$3945
Action Name:	Combined RI/FS	Financial ID:	0065
Financial Type:	Extramural Outlay (Payment)	Date:	05/02/2000

Budget Source: Remedial Amount: $8453

Action Name: Combined RI/FS Financial ID: 0066
Financial Type: Extramural Outlay (Payment) Date: 05/02/2000
Budget Source: Remedial Amount: $1972

Action Name: Combined RI/FS Financial ID: 0067
Financial Type: Extramural Outlay (Payment) Date: 05/02/2000
Budget Source: Remedial Amount: $1761

Action Name: Combined RI/FS Financial ID: 0068
Financial Type: Extramural Outlay (Payment) Date: 05/02/2000
Budget Source: Remedial Amount: $2114

Action Name: Combined RI/FS Financial ID: 0002
Financial Type: Extramural Deoutlay (Credit) Date: 05/02/2000
Budget Source: Remedial Amount: $0

Action Name: Combined RI/FS Financial ID: 0003
Financial Type: Extramural Deoutlay (Credit) Date: 05/02/2000
Budget Source: Remedial Amount: $6057

Action Name: Combined RI/FS Financial ID: 0004
Financial Type: Extramural Deoutlay (Credit) Date: 05/02/2000
Budget Source: Remedial Amount: $8453

Action Name: Combined RI/FS Financial ID: 0005
Financial Type: Extramural Deoutlay (Credit) Date: 05/02/2000
Budget Source: Remedial Amount: $3732

Action Name: Removal Financial ID: 0006
Financial Type: Deobligation Date: 05/03/2000
Budget Source: Removal Amount: $203997

Action Name: Removal Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 05/03/2000
Budget Source: Removal Amount: $203997

Action Name: Combined RI/FS Financial ID: 0075
Financial Type: Deobligation Date: 05/11/2000
Budget Source: Remedial Amount: $123605

Action Name: Combined RI/FS Financial ID: 0069
Financial Type: Extramural Outlay (Payment) Date: 05/11/2000
Budget Source: Remedial Amount: $123605

Action Name: Combined RI/FS Financial ID: 0076

Financial Type: Deobligation
Budget Source: Remedial
Date: 05/23/2000
Amount: $32388

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0070
Date: 05/23/2000
Amount: $32388

Action Name: Combined RI/FS
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0026
Date: 05/27/2000
Amount: $600000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0077
Date: 05/30/2000
Amount: $650155

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0078
Date: 05/30/2000
Amount: $16236

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0071
Date: 05/30/2000
Amount: $650155

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0072
Date: 05/30/2000
Amount: $16236

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0079
Date: 06/01/2000
Amount: $188443

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0073
Date: 06/01/2000
Amount: $188443

Action Name: Removal
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0007
Date: 06/06/2000
Amount: $25156

Action Name: Removal
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0007
Date: 06/06/2000
Amount: $25156

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0080
Date: 06/07/2000
Amount: $44977

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0074
Date: 06/07/2000
Amount: $44977

Action Name: Combined RI/FS
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0036
Date: 06/27/2000
Amount: $700000

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0042
Date: 06/27/2000
Amount: $700000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0081
Date: 07/20/2000
Amount: $41237

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0075
Date: 07/20/2000
Amount: $41237

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0082
Date: 07/27/2000
Amount: $20486

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0076
Date: 07/27/2000
Amount: $20486

Action Name: Combined RI/FS
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0037
Date: 08/01/2000
Amount: $600000

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0043
Date: 08/01/2000
Amount: $600000

Action Name: Combined RI/FS
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0027
Date: 08/02/2000
Amount: $1300000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0083
Date: 08/04/2000
Amount: $342941

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0077
Date: 08/04/2000
Amount: $342941

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0084
Date: 08/11/2000
Amount: $23502

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0085
Date: 08/11/2000
Amount: $29649

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0078
Date: 08/11/2000
Amount: $29649

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0079
Date: 08/11/2000
Amount: $23502

Action Name: State Support Agency Cooperative Agreement
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0005
Date: 08/29/2000
Amount: $160840

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0086
Date: 09/07/2000
Amount: $50722

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0080
Date: 09/07/2000
Amount: $50722

Action Name: State Support Agency Cooperative Agreement
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0005
Date: 09/11/2000
Amount: $160840

Action Name: State Support Agency Cooperative Agreement
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0009
Date: 09/11/2000
Amount: $160840

Action Name: Removal
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0008
Date: 09/11/2000
Amount: $68904

Action Name: Removal
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0008
Date: 09/11/2000
Amount: $68904

Action Name: Combined RI/FS
Financial Type: Deobligation
Financial ID: 0087
Date: 09/13/2000

Budget Source: Remedial Amount: $25746

Action Name: Combined RI/FS Financial ID: 0081
Financial Type: Extramural Outlay (Payment) Date: 09/13/2000
Budget Source: Remedial Amount: $25746

Action Name: Combined RI/FS Financial ID: 0028
Financial Type: Commitment Date: 09/14/2000
Budget Source: Remedial Amount: $1000000

Action Name: Combined RI/FS Financial ID: 0038
Financial Type: Decommitment Date: 09/19/2000
Budget Source: Remedial Amount: $1300000

Action Name: Combined RI/FS Financial ID: 0044
Financial Type: Actual Obligation Date: 09/19/2000
Budget Source: Remedial Amount: $1300000

Action Name: Combined RI/FS Financial ID: 0029
Financial Type: Commitment Date: 09/21/2000
Budget Source: Remedial Amount: $500000

Action Name: Combined RI/FS Financial ID: 0039
Financial Type: Decommitment Date: 09/29/2000
Budget Source: Remedial Amount: $1000000

Action Name: Combined RI/FS Financial ID: 0040
Financial Type: Decommitment Date: 09/29/2000
Budget Source: Remedial Amount: $500000

Action Name: Combined RI/FS Financial ID: 0045
Financial Type: Actual Obligation Date: 09/29/2000
Budget Source: Remedial Amount: $500000

Action Name: Combined RI/FS Financial ID: 0046
Financial Type: Actual Obligation Date: 09/29/2000
Budget Source: Remedial Amount: $1000000

Action Name: Combined RI/FS Financial ID: 0088
Financial Type: Deobligation Date: 09/29/2000
Budget Source: Remedial Amount: $347330

Action Name: Combined RI/FS Financial ID: 0089
Financial Type: Deobligation Date: 09/29/2000
Budget Source: Remedial Amount: $15385

Action Name: Combined RI/FS Financial ID: 0082

Financial Type: Extramural Outlay (Payment) Date: 09/29/2000
Budget Source: Remedial Amount: $347330

Action Name: Combined RI/FS Financial ID: 0083
Financial Type: Extramural Outlay (Payment) Date: 09/29/2000
Budget Source: Remedial Amount: $15385

Action Name: Removal Financial ID: 0009
Financial Type: Deobligation Date: 10/11/2000
Budget Source: Removal Amount: $4020

Action Name: Removal Financial ID: 0009
Financial Type: Extramural Outlay (Payment) Date: 10/11/2000
Budget Source: Removal Amount: $4020

Action Name: Combined RI/FS Financial ID: 0090
Financial Type: Deobligation Date: 10/16/2000
Budget Source: Remedial Amount: $56871

Action Name: Combined RI/FS Financial ID: 0084
Financial Type: Extramural Outlay (Payment) Date: 10/16/2000
Budget Source: Remedial Amount: $56871

Action Name: Combined RI/FS Financial ID: 0091
Financial Type: Deobligation Date: 10/17/2000
Budget Source: Remedial Amount: $18628

Action Name: Combined RI/FS Financial ID: 0085
Financial Type: Extramural Outlay (Payment) Date: 10/17/2000
Budget Source: Remedial Amount: $18628

Action Name: Combined RI/FS Financial ID: 0093
Financial Type: Deobligation Date: 11/14/2000
Budget Source: Remedial Amount: $15301

Action Name: Combined RI/FS Financial ID: 0087
Financial Type: Extramural Outlay (Payment) Date: 11/14/2000
Budget Source: Remedial Amount: $15301

Action Name: Combined RI/FS Financial ID: 0092
Financial Type: Deobligation Date: 11/15/2000
Budget Source: Remedial Amount: $8435

Action Name: Combined RI/FS Financial ID: 0086
Financial Type: Extramural Outlay (Payment) Date: 11/15/2000
Budget Source: Remedial Amount: $8435

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0094
Date: 12/05/2000
Amount: $567629

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0095
Date: 12/05/2000
Amount: $150005

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0096
Date: 12/05/2000
Amount: $22036

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0088
Date: 12/05/2000
Amount: $567629

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0089
Date: 12/05/2000
Amount: $150005

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0090
Date: 12/05/2000
Amount: $22036

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0097
Date: 12/14/2000
Amount: $4528

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0091
Date: 12/14/2000
Amount: $4528

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0098
Date: 12/19/2000
Amount: $450550

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0092
Date: 12/19/2000
Amount: $450550

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0099
Date: 01/09/2001
Amount: $23846

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0093
Date: 01/09/2001
Amount: $23846

Action Name:	Combined RI/FS	Financial ID:	0100
Financial Type:	Deobligation	Date:	01/19/2001
Budget Source:	Remedial	Amount:	$67
Action Name:	Combined RI/FS	Financial ID:	0101
Financial Type:	Deobligation	Date:	01/19/2001
Budget Source:	Remedial	Amount:	$3008
Action Name:	Combined RI/FS	Financial ID:	0094
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2001
Budget Source:	Remedial	Amount:	$67
Action Name:	Combined RI/FS	Financial ID:	0095
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2001
Budget Source:	Remedial	Amount:	$3008
Action Name:	Combined RI/FS	Financial ID:	0102
Financial Type:	Deobligation	Date:	02/26/2001
Budget Source:	Remedial	Amount:	$275129
Action Name:	Combined RI/FS	Financial ID:	0103
Financial Type:	Deobligation	Date:	02/26/2001
Budget Source:	Remedial	Amount:	$75598
Action Name:	Combined RI/FS	Financial ID:	0096
Financial Type:	Extramural Outlay (Payment)	Date:	02/26/2001
Budget Source:	Remedial	Amount:	$75598
Action Name:	Combined RI/FS	Financial ID:	0097
Financial Type:	Extramural Outlay (Payment)	Date:	02/26/2001
Budget Source:	Remedial	Amount:	$275129
Action Name:	Combined RI/FS	Financial ID:	0104
Financial Type:	Deobligation	Date:	04/03/2001
Budget Source:	Remedial	Amount:	$217747
Action Name:	Combined RI/FS	Financial ID:	0098
Financial Type:	Extramural Outlay (Payment)	Date:	04/03/2001
Budget Source:	Remedial	Amount:	$217747
Action Name:	Combined RI/FS	Financial ID:	0030
Financial Type:	Commitment	Date:	05/24/2001
Budget Source:	Remedial	Amount:	$1200000
Action Name:	Combined RI/FS	Financial ID:	0105
Financial Type:	Deobligation	Date:	06/12/2001

Budget Source: Remedial Amount: $21166

Action Name: Combined RI/FS Financial ID: 0099
Financial Type: Extramural Outlay (Payment) Date: 06/12/2001
Budget Source: Remedial Amount: $21166

Action Name: Removal Financial ID: 0002
Financial Type: Commitment Date: 06/14/2001
Budget Source: Removal Amount: $25000

Action Name: Removal Financial ID: 0002
Financial Type: Decommitment Date: 06/15/2001
Budget Source: Removal Amount: $25000

Action Name: Removal Financial ID: 0002
Financial Type: Actual Obligation Date: 06/15/2001
Budget Source: Removal Amount: $25000

Action Name: Combined RI/FS Financial ID: 0106
Financial Type: Deobligation Date: 06/25/2001
Budget Source: Remedial Amount: $85958

Action Name: Combined RI/FS Financial ID: 0107
Financial Type: Deobligation Date: 06/25/2001
Budget Source: Remedial Amount: $332249

Action Name: Combined RI/FS Financial ID: 0100
Financial Type: Extramural Outlay (Payment) Date: 06/25/2001
Budget Source: Remedial Amount: $85958

Action Name: Combined RI/FS Financial ID: 0101
Financial Type: Extramural Outlay (Payment) Date: 06/25/2001
Budget Source: Remedial Amount: $332249

Action Name: Combined RI/FS Financial ID: 0108
Financial Type: Deobligation Date: 07/03/2001
Budget Source: Remedial Amount: $24098

Action Name: Combined RI/FS Financial ID: 0102
Financial Type: Extramural Outlay (Payment) Date: 07/03/2001
Budget Source: Remedial Amount: $24098

Action Name: Combined RI/FS Financial ID: 0112
Financial Type: Deobligation Date: 07/25/2001
Budget Source: Remedial Amount: $9170

Action Name: Combined RI/FS Financial ID: 0106

Financial Type: Extramural Outlay (Payment) Date: 07/25/2001
Budget Source: Remedial Amount: $9170

Action Name: Removal Financial ID: 0010
Financial Type: Deobligation Date: 08/07/2001
Budget Source: Removal Amount: $5808

Action Name: Removal Financial ID: 0010
Financial Type: Extramural Outlay (Payment) Date: 08/07/2001
Budget Source: Removal Amount: $5808

Action Name: Combined RI/FS Financial ID: 0109
Financial Type: Deobligation Date: 08/14/2001
Budget Source: Remedial Amount: $214507

Action Name: Combined RI/FS Financial ID: 0103
Financial Type: Extramural Outlay (Payment) Date: 08/14/2001
Budget Source: Remedial Amount: $214507

Action Name: Combined RI/FS Financial ID: 0110
Financial Type: Deobligation Date: 08/16/2001
Budget Source: Remedial Amount: $729146

Action Name: Combined RI/FS Financial ID: 0111
Financial Type: Deobligation Date: 08/16/2001
Budget Source: Remedial Amount: $289918

Action Name: Combined RI/FS Financial ID: 0104
Financial Type: Extramural Outlay (Payment) Date: 08/16/2001
Budget Source: Remedial Amount: $729146

Action Name: Combined RI/FS Financial ID: 0105
Financial Type: Extramural Outlay (Payment) Date: 08/16/2001
Budget Source: Remedial Amount: $289918

Action Name: Combined RI/FS Financial ID: 0041
Financial Type: Decommitment Date: 08/27/2001
Budget Source: Remedial Amount: $1200000

Action Name: Combined RI/FS Financial ID: 0047
Financial Type: Actual Obligation Date: 08/27/2001
Budget Source: Remedial Amount: $1200000

Action Name: Removal Financial ID: 0011
Financial Type: Deobligation Date: 08/31/2001
Budget Source: Removal Amount: $3489

Action Name: Removal
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0011
Date: 08/31/2001
Amount: $3489

Action Name: Combined RI/FS
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0031
Date: 09/05/2001
Amount: $750000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0113
Date: 09/18/2001
Amount: $236259

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0107
Date: 09/18/2001
Amount: $236259

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0114
Date: 09/20/2001
Amount: $30000

Action Name: Combined RI/FS
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0042
Date: 09/25/2001
Amount: $750000

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0048
Date: 09/25/2001
Amount: $750000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0115
Date: 11/09/2001
Amount: $440064

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0108
Date: 11/09/2001
Amount: $440064

Action Name: Combined RI/FS
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0032
Date: 12/04/2001
Amount: $400000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0116
Date: 12/07/2001
Amount: $24488

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0117
Date: 12/07/2001
Amount: $33759

Action Name:	Combined RI/FS	Financial ID:	0118
Financial Type:	Deobligation	Date:	12/07/2001
Budget Source:	Remedial	Amount:	$500000
Action Name:	Combined RI/FS	Financial ID:	0119
Financial Type:	Deobligation	Date:	12/07/2001
Budget Source:	Remedial	Amount:	$511430
Action Name:	Combined RI/FS	Financial ID:	0109
Financial Type:	Extramural Outlay (Payment)	Date:	12/07/2001
Budget Source:	Remedial	Amount:	$24488
Action Name:	Combined RI/FS	Financial ID:	0110
Financial Type:	Extramural Outlay (Payment)	Date:	12/07/2001
Budget Source:	Remedial	Amount:	$33759
Action Name:	Combined RI/FS	Financial ID:	0111
Financial Type:	Extramural Outlay (Payment)	Date:	12/07/2001
Budget Source:	Remedial	Amount:	$500000
Action Name:	Combined RI/FS	Financial ID:	0112
Financial Type:	Extramural Outlay (Payment)	Date:	12/07/2001
Budget Source:	Remedial	Amount:	$511430
Action Name:	Combined RI/FS	Financial ID:	0120
Financial Type:	Deobligation	Date:	01/15/2002
Budget Source:	Remedial	Amount:	$416561
Action Name:	Combined RI/FS	Financial ID:	0113
Financial Type:	Extramural Outlay (Payment)	Date:	01/15/2002
Budget Source:	Remedial	Amount:	$416561
Action Name:	Combined RI/FS	Financial ID:	0043
Financial Type:	Decommitment	Date:	01/23/2002
Budget Source:	Remedial	Amount:	$200000
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Commitment	Date:	02/01/2002
Budget Source:	Remedial	Amount:	$2200000
Action Name:	Combined RI/FS	Financial ID:	0121
Financial Type:	Deobligation	Date:	03/05/2002
Budget Source:	Remedial	Amount:	$144900
Action Name:	Combined RI/FS	Financial ID:	0122
Financial Type:	Deobligation	Date:	03/05/2002

Budget Source: Remedial Amount: $247521

Action Name: Combined RI/FS Financial ID: 0123
Financial Type: Deobligation Date: 03/05/2002
Budget Source: Remedial Amount: $108909

Action Name: Combined RI/FS Financial ID: 0114
Financial Type: Extramural Outlay (Payment) Date: 03/05/2002
Budget Source: Remedial Amount: $247521

Action Name: Combined RI/FS Financial ID: 0115
Financial Type: Extramural Outlay (Payment) Date: 03/05/2002
Budget Source: Remedial Amount: $108909

Action Name: Combined RI/FS Financial ID: 0116
Financial Type: Extramural Outlay (Payment) Date: 03/05/2002
Budget Source: Remedial Amount: $144900

Action Name: Combined RI/FS Financial ID: 0044
Financial Type: Decommitment Date: 03/11/2002
Budget Source: Remedial Amount: $200000

Action Name: Remedial Design Financial ID: 0001
Financial Type: Decommitment Date: 03/11/2002
Budget Source: Remedial Amount: $2200000

Action Name: Combined RI/FS Financial ID: 0049
Financial Type: Actual Obligation Date: 03/11/2002
Budget Source: Remedial Amount: $200000

Action Name: Remedial Design Financial ID: 0001
Financial Type: Actual Obligation Date: 03/11/2002
Budget Source: Remedial Amount: $2200000

Action Name: Remedial Design Financial ID: 0023
Financial Type: Actual Obligation Date: 03/11/2002
Budget Source: Remedial Amount: $5384

Action Name: Remedial Design Financial ID: 0323
Financial Type: Deobligation Date: 03/11/2002
Budget Source: Remedial Amount: $678

Action Name: Remedial Design Financial ID: 0324
Financial Type: Deobligation Date: 03/11/2002
Budget Source: Remedial Amount: $361

Action Name: Remedial Design Financial ID: 0325

Financial Type: Deobligation
Budget Source: Remedial
Date: 03/11/2002
Amount: $7511

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0326
Date: 03/11/2002
Amount: $189

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0327
Date: 03/11/2002
Amount: $806

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0328
Date: 03/11/2002
Amount: $96

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0329
Date: 03/11/2002
Amount: $4110

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0330
Date: 03/11/2002
Amount: $699

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0331
Date: 03/11/2002
Amount: $9609

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0332
Date: 03/11/2002
Amount: $577

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0333
Date: 03/11/2002
Amount: $713

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0334
Date: 03/11/2002
Amount: $1499

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0335
Date: 03/11/2002
Amount: $481

Action Name: Community Involvement
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0001
Date: 03/14/2002
Amount: $250000

Action Name:	Removal	Financial ID:	0012
Financial Type:	Deobligation	Date:	03/14/2002
Budget Source:	Removal	Amount:	$890
Action Name:	Removal	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	03/14/2002
Budget Source:	Removal	Amount:	$890
Action Name:	Community Involvement	Financial ID:	0001
Financial Type:	Decommitment	Date:	03/25/2002
Budget Source:	Remedial	Amount:	$250000
Action Name:	Community Involvement	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	03/25/2002
Budget Source:	Remedial	Amount:	$250000
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Deobligation	Date:	04/15/2002
Budget Source:	Remedial	Amount:	$22231
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	04/15/2002
Budget Source:	Remedial	Amount:	$22231
Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Deobligation	Date:	05/16/2002
Budget Source:	Remedial	Amount:	$66966
Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	05/16/2002
Budget Source:	Remedial	Amount:	$66966
Action Name:	Combined RI/FS	Financial ID:	0124
Financial Type:	Deobligation	Date:	05/20/2002
Budget Source:	Remedial	Amount:	$0
Action Name:	Combined RI/FS	Financial ID:	0117
Financial Type:	Extramural Outlay (Payment)	Date:	05/20/2002
Budget Source:	Remedial	Amount:	$0
Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Commitment	Date:	06/03/2002
Budget Source:	Remedial	Amount:	$1200000
Action Name:	Remedial Design	Financial ID:	0003
Financial Type:	Commitment	Date:	06/03/2002
Budget Source:	Remedial	Amount:	$1200000

Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Decommitment	Date:	06/03/2002
Budget Source:	Remedial	Amount:	$1200000
Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Commitment	Date:	06/07/2002
Budget Source:	Remedial	Amount:	$300000
Action Name:	Remedial Design	Financial ID:	0003
Financial Type:	Decommitment	Date:	06/19/2002
Budget Source:	Remedial	Amount:	$1200000
Action Name:	Remedial Design	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	06/19/2002
Budget Source:	Remedial	Amount:	$1200000
Action Name:	Combined RI/FS	Financial ID:	0130
Financial Type:	Deobligation	Date:	06/20/2002
Budget Source:	Remedial	Amount:	$102254
Action Name:	Combined RI/FS	Financial ID:	0131
Financial Type:	Deobligation	Date:	06/20/2002
Budget Source:	Remedial	Amount:	$106585
Action Name:	Remedial Design	Financial ID:	0012
Financial Type:	Deobligation	Date:	06/20/2002
Budget Source:	Remedial	Amount:	$63512
Action Name:	Combined RI/FS	Financial ID:	0119
Financial Type:	Extramural Outlay (Payment)	Date:	06/20/2002
Budget Source:	Remedial	Amount:	$102254
Action Name:	Combined RI/FS	Financial ID:	0120
Financial Type:	Extramural Outlay (Payment)	Date:	06/20/2002
Budget Source:	Remedial	Amount:	$106585
Action Name:	Remedial Design	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	06/20/2002
Budget Source:	Remedial	Amount:	$63512
Action Name:	Remedial Design	Financial ID:	0003
Financial Type:	Deobligation	Date:	06/28/2002
Budget Source:	Remedial	Amount:	$475515
Action Name:	Remedial Design	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	06/28/2002

Budget Source: Remedial Amount: $475515

Action Name: Remedial Design Financial ID: 0004
Financial Type: Deobligation Date: 07/18/2002
Budget Source: Remedial Amount: $100000

Action Name: Remedial Design Financial ID: 0004
Financial Type: Extramural Outlay (Payment) Date: 07/18/2002
Budget Source: Remedial Amount: $100000

Action Name: Community Involvement Financial ID: 0001
Financial Type: Deobligation Date: 07/19/2002
Budget Source: Remedial Amount: $125946

Action Name: Community Involvement Financial ID: 0001
Financial Type: Extramural Outlay (Payment) Date: 07/19/2002
Budget Source: Remedial Amount: $125946

Action Name: Remedial Design Financial ID: 0006
Financial Type: Deobligation Date: 07/29/2002
Budget Source: Remedial Amount: $14470

Action Name: Remedial Design Financial ID: 0007
Financial Type: Deobligation Date: 07/29/2002
Budget Source: Remedial Amount: $417514

Action Name: Remedial Design Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 07/29/2002
Budget Source: Remedial Amount: $14470

Action Name: Remedial Design Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 07/29/2002
Budget Source: Remedial Amount: $417514

Action Name: Remedial Design Financial ID: 0005
Financial Type: Deobligation Date: 07/30/2002
Budget Source: Remedial Amount: $179013

Action Name: Remedial Design Financial ID: 0005
Financial Type: Extramural Outlay (Payment) Date: 07/30/2002
Budget Source: Remedial Amount: $179013

Action Name: Community Involvement Financial ID: 0002
Financial Type: Commitment Date: 08/14/2002
Budget Source: Remedial Amount: $49875

Action Name: Community Involvement Financial ID: 0003

Financial Type: Commitment
Budget Source: Remedial
Date: 08/14/2002
Amount: $49875

Action Name: Community Involvement
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0002
Date: 08/14/2002
Amount: $49875

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0008
Date: 08/15/2002
Amount: $8265

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0008
Date: 08/15/2002
Amount: $8265

Action Name: PRP Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0001
Date: 08/19/2002
Amount: $300000

Action Name: PRP Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0001
Date: 08/19/2002
Amount: $300000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0125
Date: 08/20/2002
Amount: $4598

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0126
Date: 08/20/2002
Amount: $21483

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0127
Date: 08/20/2002
Amount: $11231

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0128
Date: 08/20/2002
Amount: $77585

Action Name: Community Involvement
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0002
Date: 08/20/2002
Amount: $91764

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0118
Date: 08/20/2002
Amount: $77585

Action Name: Community Involvement
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0002
Date: 08/20/2002
Amount: $91764

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0129
Date: 08/28/2002
Amount: $200000

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0002
Date: 08/29/2002
Amount: $300000

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0004
Date: 08/29/2002
Amount: $1200000

Action Name: Community Involvement
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0003
Date: 08/30/2002
Amount: $49875

Action Name: Community Involvement
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0002
Date: 08/30/2002
Amount: $49875

Action Name: PRP Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0002
Date: 09/03/2002
Amount: $300000

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0004
Date: 09/03/2002
Amount: $1200000

Action Name: PRP Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0002
Date: 09/03/2002
Amount: $300000

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0003
Date: 09/03/2002
Amount: $1200000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0001
Date: 09/03/2002
Amount: $300000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 09/03/2002
Amount: $1200000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 09/06/2002
Amount: $24191

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0011
Date: 09/06/2002
Amount: $13021

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0009
Date: 09/06/2002
Amount: $24191

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 09/06/2002
Amount: $13021

Action Name: Community Involvement
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0003
Date: 09/13/2002
Amount: $32289

Action Name: Community Involvement
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 09/13/2002
Amount: $16922

Action Name: Community Involvement
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 09/13/2002
Amount: $32289

Action Name: Community Involvement
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0004
Date: 09/13/2002
Amount: $16922

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0132
Date: 09/20/2002
Amount: $1962

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0133
Date: 09/20/2002
Amount: $35513

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0121
Date: 09/20/2002
Amount: $1962

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Financial ID: 0122
Date: 09/20/2002

Budget Source: Remedial
Amount: $35513

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0013
Date: 09/24/2002
Amount: $165713

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0014
Date: 09/24/2002
Amount: $146363

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0015
Date: 09/24/2002
Amount: $106632

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0012
Date: 09/24/2002
Amount: $165713

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0013
Date: 09/24/2002
Amount: $146363

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0014
Date: 09/24/2002
Amount: $106632

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0016
Date: 09/26/2002
Amount: $154434

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0015
Date: 09/26/2002
Amount: $154434

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0002
Date: 10/03/2002
Amount: $3596

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0134
Date: 10/03/2002
Amount: $9770

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0017
Date: 10/03/2002
Amount: $16575

Action Name: PRP Remedial Design
Financial ID: 0001

Financial Type: Extramural Outlay (Payment) Date: 10/03/2002
Budget Source: Remedial Amount: $3596

Action Name: Combined RI/FS Financial ID: 0123
Financial Type: Extramural Outlay (Payment) Date: 10/03/2002
Budget Source: Remedial Amount: $9770

Action Name: Remedial Design Financial ID: 0016
Financial Type: Extramural Outlay (Payment) Date: 10/03/2002
Budget Source: Remedial Amount: $16575

Action Name: Remedial Design Financial ID: 0018
Financial Type: Deobligation Date: 10/15/2002
Budget Source: Remedial Amount: $110399

Action Name: Remedial Design Financial ID: 0017
Financial Type: Extramural Outlay (Payment) Date: 10/15/2002
Budget Source: Remedial Amount: $110399

Action Name: Community Involvement Financial ID: 0005
Financial Type: Deobligation Date: 10/17/2002
Budget Source: Remedial Amount: $19389

Action Name: Community Involvement Financial ID: 0005
Financial Type: Extramural Outlay (Payment) Date: 10/17/2002
Budget Source: Remedial Amount: $19389

Action Name: Remedial Design Financial ID: 0005
Financial Type: Commitment Date: 10/23/2002
Budget Source: Remedial Amount: $1700000

Action Name: Remedial Design Financial ID: 0006
Financial Type: Commitment Date: 10/23/2002
Budget Source: Remedial Amount: $700000

Action Name: Remedial Design Financial ID: 0019
Financial Type: Deobligation Date: 10/30/2002
Budget Source: Remedial Amount: $121013

Action Name: Remedial Design Financial ID: 0020
Financial Type: Deobligation Date: 10/30/2002
Budget Source: Remedial Amount: $6216

Action Name: Remedial Design Financial ID: 0018
Financial Type: Extramural Outlay (Payment) Date: 10/30/2002
Budget Source: Remedial Amount: $121013

Action Name:	Remedial Design	Financial ID:	0019
Financial Type:	Extramural Outlay (Payment)	Date:	10/30/2002
Budget Source:	Remedial	Amount:	$6216
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Commitment	Date:	11/13/2002
Budget Source:	Remedial	Amount:	$700000
Action Name:	Remedial Design	Financial ID:	0005
Financial Type:	Decommitment	Date:	11/13/2002
Budget Source:	Remedial	Amount:	$700000
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$5032
Action Name:	Combined RI/FS	Financial ID:	0135
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$9114
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0002
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$160840
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0003
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$100000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0004
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$160000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0005
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$20000
Action Name:	Remedial Design	Financial ID:	0021
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$9034
Action Name:	Remedial Design	Financial ID:	0022
Financial Type:	Deobligation	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$11093
Action Name:	PRP Remedial Design	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$5032

Action Name:	Combined RI/FS	Financial ID:	0124
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$9114
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$160840
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$100000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$160000
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0005
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$20000
Action Name:	Remedial Design	Financial ID:	0020
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$9034
Action Name:	Remedial Design	Financial ID:	0021
Financial Type:	Extramural Outlay (Payment)	Date:	11/18/2002
Budget Source:	Remedial	Amount:	$11093
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Decommitment	Date:	11/19/2002
Budget Source:	Remedial	Amount:	$700000
Action Name:	Remedial Design	Financial ID:	0006
Financial Type:	Decommitment	Date:	11/19/2002
Budget Source:	Remedial	Amount:	$1700000
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	11/19/2002
Budget Source:	Remedial	Amount:	$700000
Action Name:	Remedial Design	Financial ID:	0004
Financial Type:	Actual Obligation	Date:	11/19/2002
Budget Source:	Remedial	Amount:	$1700000
Action Name:	Community Involvement	Financial ID:	0006
Financial Type:	Deobligation	Date:	11/19/2002

Budget Source: Remedial Amount: $8187

Action Name: Community Involvement Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 11/19/2002
Budget Source: Remedial Amount: $8187

Action Name: Remedial Design Financial ID: 0023
Financial Type: Deobligation Date: 11/27/2002
Budget Source: Remedial Amount: $133357

Action Name: Remedial Design Financial ID: 0024
Financial Type: Deobligation Date: 11/27/2002
Budget Source: Remedial Amount: $140226

Action Name: Remedial Design Financial ID: 0022
Financial Type: Extramural Outlay (Payment) Date: 11/27/2002
Budget Source: Remedial Amount: $140226

Action Name: Remedial Design Financial ID: 0023
Financial Type: Extramural Outlay (Payment) Date: 11/27/2002
Budget Source: Remedial Amount: $133357

Action Name: Remedial Design Financial ID: 0025
Financial Type: Deobligation Date: 12/04/2002
Budget Source: Remedial Amount: $41049

Action Name: Remedial Design Financial ID: 0024
Financial Type: Extramural Outlay (Payment) Date: 12/04/2002
Budget Source: Remedial Amount: $41049

Action Name: Remedial Design Financial ID: 0026
Financial Type: Deobligation Date: 12/17/2002
Budget Source: Remedial Amount: $163758

Action Name: Remedial Design Financial ID: 0025
Financial Type: Extramural Outlay (Payment) Date: 12/17/2002
Budget Source: Remedial Amount: $163758

Action Name: Community Involvement Financial ID: 0007
Financial Type: Deobligation Date: 12/24/2002
Budget Source: Remedial Amount: $3900

Action Name: Community Involvement Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 12/24/2002
Budget Source: Remedial Amount: $3900

Action Name: Remedial Design Financial ID: 0027

Financial Type: Deobligation
Budget Source: Remedial
Date: 12/26/2002
Amount: $192860

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0028
Date: 12/26/2002
Amount: $151637

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0029
Date: 12/26/2002
Amount: $139831

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0026
Date: 12/26/2002
Amount: $192860

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0027
Date: 12/26/2002
Amount: $151637

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0028
Date: 12/26/2002
Amount: $139831

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 01/10/2003
Amount: $7038

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0136
Date: 01/10/2003
Amount: $1811

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0137
Date: 01/10/2003
Amount: $4116

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0030
Date: 01/10/2003
Amount: $10369

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0031
Date: 01/10/2003
Amount: $10495

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 01/10/2003
Amount: $7038

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0125
Date: 01/10/2003
Amount: $1811

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0126
Date: 01/10/2003
Amount: $4116

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0029
Date: 01/10/2003
Amount: $10369

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0030
Date: 01/10/2003
Amount: $10495

Action Name: Community Involvement
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0008
Date: 01/21/2003
Amount: $1027

Action Name: Community Involvement
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0008
Date: 01/21/2003
Amount: $1027

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0032
Date: 02/10/2003
Amount: $16205

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0033
Date: 02/10/2003
Amount: $127897

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0031
Date: 02/10/2003
Amount: $16205

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0032
Date: 02/10/2003
Amount: $127897

Action Name: Technical Assistence
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0001
Date: 02/11/2003
Amount: $467931

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0007
Date: 02/12/2003
Amount: $632069

Action Name:	Remedial Design	Financial ID:	0008
Financial Type:	Commitment	Date:	02/12/2003
Budget Source:	Remedial	Amount:	$267931
Action Name:	Remedial Design	Financial ID:	0034
Financial Type:	Deobligation	Date:	03/06/2003
Budget Source:	Remedial	Amount:	$145423
Action Name:	Remedial Design	Financial ID:	0033
Financial Type:	Extramural Outlay (Payment)	Date:	03/06/2003
Budget Source:	Remedial	Amount:	$145423
Action Name:	Remedial Design	Financial ID:	0035
Financial Type:	Deobligation	Date:	03/07/2003
Budget Source:	Remedial	Amount:	$9513
Action Name:	Remedial Design	Financial ID:	0034
Financial Type:	Extramural Outlay (Payment)	Date:	03/07/2003
Budget Source:	Remedial	Amount:	$9513
Action Name:	Remedial Design	Financial ID:	0036
Financial Type:	Deobligation	Date:	03/10/2003
Budget Source:	Remedial	Amount:	$173608
Action Name:	Remedial Design	Financial ID:	0035
Financial Type:	Extramural Outlay (Payment)	Date:	03/10/2003
Budget Source:	Remedial	Amount:	$173608
Action Name:	Removal	Financial ID:	0013
Financial Type:	Deobligation	Date:	03/12/2003
Budget Source:	Removal	Amount:	$12816
Action Name:	PRP Remedial Design	Financial ID:	0005
Financial Type:	Deobligation	Date:	03/28/2003
Budget Source:	Remedial	Amount:	$89727
Action Name:	PRP Remedial Design	Financial ID:	0006
Financial Type:	Deobligation	Date:	03/28/2003
Budget Source:	Remedial	Amount:	$97180
Action Name:	PRP Remedial Design	Financial ID:	0007
Financial Type:	Deobligation	Date:	03/28/2003
Budget Source:	Remedial	Amount:	$46656
Action Name:	PRP Remedial Design	Financial ID:	0008
Financial Type:	Deobligation	Date:	03/28/2003

Budget Source: Remedial Amount: $12918

Action Name: PRP Remedial Design Financial ID: 0004
Financial Type: Extramural Outlay (Payment) Date: 03/28/2003
Budget Source: Remedial Amount: $89727

Action Name: PRP Remedial Design Financial ID: 0005
Financial Type: Extramural Outlay (Payment) Date: 03/28/2003
Budget Source: Remedial Amount: $97180

Action Name: PRP Remedial Design Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 03/28/2003
Budget Source: Remedial Amount: $46656

Action Name: PRP Remedial Design Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 03/28/2003
Budget Source: Remedial Amount: $12918

Action Name: Remedial Design Financial ID: 0037
Financial Type: Deobligation Date: 04/01/2003
Budget Source: Remedial Amount: $356036

Action Name: Remedial Design Financial ID: 0038
Financial Type: Deobligation Date: 04/01/2003
Budget Source: Remedial Amount: $181656

Action Name: Remedial Design Financial ID: 0036
Financial Type: Extramural Outlay (Payment) Date: 04/01/2003
Budget Source: Remedial Amount: $356036

Action Name: Remedial Design Financial ID: 0037
Financial Type: Extramural Outlay (Payment) Date: 04/01/2003
Budget Source: Remedial Amount: $181656

Action Name: Remedial Design Financial ID: 0007
Financial Type: Decommitment Date: 04/10/2003
Budget Source: Remedial Amount: $632069

Action Name: Remedial Design Financial ID: 0008
Financial Type: Decommitment Date: 04/10/2003
Budget Source: Remedial Amount: $267931

Action Name: Remedial Design Financial ID: 0005
Financial Type: Actual Obligation Date: 04/10/2003
Budget Source: Remedial Amount: $632069

Action Name: Remedial Design Financial ID: 0006

Financial Type: Actual Obligation
Budget Source: Remedial
Date: 04/10/2003
Amount: $267931

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0039
Date: 04/21/2003
Amount: $126413

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0038
Date: 04/21/2003
Amount: $126413

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0004
Date: 04/25/2003
Amount: $400000

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0009
Date: 04/25/2003
Amount: $1200000

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0138
Date: 04/29/2003
Amount: $5446

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0127
Date: 04/29/2003
Amount: $5446

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0040
Date: 05/12/2003
Amount: $144116

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0039
Date: 05/12/2003
Amount: $144116

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 05/16/2003
Amount: $37853

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 05/16/2003
Amount: $29131

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0139
Date: 05/16/2003
Amount: $1474

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0140
Date: 05/16/2003
Amount: $317

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0141
Date: 05/16/2003
Amount: $242

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0142
Date: 05/16/2003
Amount: $465

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0041
Date: 05/16/2003
Amount: $9758

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0008
Date: 05/16/2003
Amount: $37853

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0009
Date: 05/16/2003
Amount: $29131

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0128
Date: 05/16/2003
Amount: $1474

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0129
Date: 05/16/2003
Amount: $317

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0130
Date: 05/16/2003
Amount: $242

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0131
Date: 05/16/2003
Amount: $465

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0040
Date: 05/16/2003
Amount: $9758

Action Name: PRP Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0004
Date: 05/30/2003
Amount: $400000

Action Name:	Remedial Design	Financial ID:	0009
Financial Type:	Decommitment	Date:	05/30/2003
Budget Source:	Remedial	Amount:	$1200000
Action Name:	PRP Remedial Design	Financial ID:	0004
Financial Type:	Actual Obligation	Date:	05/30/2003
Budget Source:	Remedial	Amount:	$400000
Action Name:	Remedial Design	Financial ID:	0007
Financial Type:	Actual Obligation	Date:	05/30/2003
Budget Source:	Remedial	Amount:	$1200000
Action Name:	Remedial Design	Financial ID:	0042
Financial Type:	Deobligation	Date:	06/02/2003
Budget Source:	Remedial	Amount:	$228259
Action Name:	Remedial Design	Financial ID:	0041
Financial Type:	Extramural Outlay (Payment)	Date:	06/02/2003
Budget Source:	Remedial	Amount:	$228259
Action Name:	Removal	Financial ID:	0014
Financial Type:	Deobligation	Date:	06/19/2003
Budget Source:	Removal	Amount:	$14814
Action Name:	Technical Assistence	Financial ID:	0001
Financial Type:	Decommitment	Date:	07/08/2003
Budget Source:	Remedial	Amount:	$263723
Action Name:	Technical Assistence	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	07/08/2003
Budget Source:	Remedial	Amount:	$263723
Action Name:	Remedial Design	Financial ID:	0043
Financial Type:	Deobligation	Date:	07/08/2003
Budget Source:	Remedial	Amount:	$166592
Action Name:	Remedial Design	Financial ID:	0044
Financial Type:	Deobligation	Date:	07/08/2003
Budget Source:	Remedial	Amount:	$17213
Action Name:	Remedial Design	Financial ID:	0042
Financial Type:	Extramural Outlay (Payment)	Date:	07/08/2003
Budget Source:	Remedial	Amount:	$166592
Action Name:	Remedial Design	Financial ID:	0043
Financial Type:	Extramural Outlay (Payment)	Date:	07/08/2003

Budget Source: Remedial
Amount: $17213

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0045
Date: 07/28/2003
Amount: $121106

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0046
Date: 07/28/2003
Amount: $245243

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0044
Date: 07/28/2003
Amount: $121106

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0045
Date: 07/28/2003
Amount: $245243

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0010
Date: 07/31/2003
Amount: $25000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0011
Date: 07/31/2003
Amount: $9001

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0047
Date: 07/31/2003
Amount: $19727

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 07/31/2003
Amount: $9001

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0046
Date: 07/31/2003
Amount: $19727

Action Name: Technical Assistence
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0002
Date: 08/13/2003
Amount: $204208

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0010
Date: 08/19/2003
Amount: $18214

Action Name: Remedial Design
Financial ID: 0008

Financial Type: Actual Obligation
Budget Source: Remedial
Date: 08/19/2003
Amount: $18214

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0048
Date: 08/19/2003
Amount: $18214

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0047
Date: 08/19/2003
Amount: $18214

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0011
Date: 08/20/2003
Amount: $204208

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0049
Date: 08/21/2003
Amount: $14851

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0050
Date: 08/21/2003
Amount: $14719

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0051
Date: 08/21/2003
Amount: $13714

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0048
Date: 08/21/2003
Amount: $14851

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0049
Date: 08/21/2003
Amount: $14719

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0050
Date: 08/21/2003
Amount: $13714

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0012
Date: 08/26/2003
Amount: $5269

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0013
Date: 08/26/2003
Amount: $44975

Action Name:	Remedial Design	Financial ID:	0052
Financial Type:	Deobligation	Date:	08/26/2003
Budget Source:	Remedial	Amount:	$12387
Action Name:	PRP Remedial Design	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	08/26/2003
Budget Source:	Remedial	Amount:	$5269
Action Name:	PRP Remedial Design	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	08/26/2003
Budget Source:	Remedial	Amount:	$44975
Action Name:	Remedial Design	Financial ID:	0051
Financial Type:	Extramural Outlay (Payment)	Date:	08/26/2003
Budget Source:	Remedial	Amount:	$12387
Action Name:	Remedial Design	Financial ID:	0053
Financial Type:	Deobligation	Date:	08/28/2003
Budget Source:	Remedial	Amount:	$248508
Action Name:	Remedial Design	Financial ID:	0054
Financial Type:	Deobligation	Date:	08/28/2003
Budget Source:	Remedial	Amount:	$52296
Action Name:	Remedial Design	Financial ID:	0055
Financial Type:	Deobligation	Date:	08/28/2003
Budget Source:	Remedial	Amount:	$31345
Action Name:	Remedial Design	Financial ID:	0052
Financial Type:	Extramural Outlay (Payment)	Date:	08/28/2003
Budget Source:	Remedial	Amount:	$248508
Action Name:	Remedial Design	Financial ID:	0053
Financial Type:	Extramural Outlay (Payment)	Date:	08/28/2003
Budget Source:	Remedial	Amount:	$52296
Action Name:	Remedial Design	Financial ID:	0054
Financial Type:	Extramural Outlay (Payment)	Date:	08/28/2003
Budget Source:	Remedial	Amount:	$31345
Action Name:	Remedial Design	Financial ID:	0056
Financial Type:	Deobligation	Date:	09/02/2003
Budget Source:	Remedial	Amount:	$9021
Action Name:	Remedial Design	Financial ID:	0055
Financial Type:	Extramural Outlay (Payment)	Date:	09/02/2003
Budget Source:	Remedial	Amount:	$9021

Action Name:	Remedial Design	Financial ID:	0057
Financial Type:	Deobligation	Date:	09/03/2003
Budget Source:	Remedial	Amount:	$21587
Action Name:	Remedial Design	Financial ID:	0058
Financial Type:	Deobligation	Date:	09/03/2003
Budget Source:	Remedial	Amount:	$138123
Action Name:	Remedial Design	Financial ID:	0056
Financial Type:	Extramural Outlay (Payment)	Date:	09/03/2003
Budget Source:	Remedial	Amount:	$21587
Action Name:	Remedial Design	Financial ID:	0057
Financial Type:	Extramural Outlay (Payment)	Date:	09/03/2003
Budget Source:	Remedial	Amount:	$138123
Action Name:	Remedial Design	Financial ID:	0011
Financial Type:	Decommitment	Date:	09/16/2003
Budget Source:	Remedial	Amount:	$204208
Action Name:	Remedial Design	Financial ID:	0009
Financial Type:	Actual Obligation	Date:	09/16/2003
Budget Source:	Remedial	Amount:	$204208
Action Name:	PRP Remedial Design	Financial ID:	0005
Financial Type:	Commitment	Date:	09/17/2003
Budget Source:	Remedial	Amount:	$400000
Action Name:	Remedial Design	Financial ID:	0012
Financial Type:	Commitment	Date:	09/17/2003
Budget Source:	Remedial	Amount:	$1467931
Action Name:	Remedial Design	Financial ID:	0059
Financial Type:	Deobligation	Date:	09/17/2003
Budget Source:	Remedial	Amount:	$2515
Action Name:	Remedial Design	Financial ID:	0060
Financial Type:	Deobligation	Date:	09/17/2003
Budget Source:	Remedial	Amount:	$17592
Action Name:	Remedial Design	Financial ID:	0061
Financial Type:	Deobligation	Date:	09/17/2003
Budget Source:	Remedial	Amount:	$24580
Action Name:	Remedial Design	Financial ID:	0062
Financial Type:	Deobligation	Date:	09/17/2003

Budget Source: Remedial Amount: $196766

Action Name: Remedial Design Financial ID: 0058
Financial Type: Extramural Outlay (Payment) Date: 09/17/2003
Budget Source: Remedial Amount: $2515

Action Name: Remedial Design Financial ID: 0059
Financial Type: Extramural Outlay (Payment) Date: 09/17/2003
Budget Source: Remedial Amount: $17592

Action Name: Remedial Design Financial ID: 0060
Financial Type: Extramural Outlay (Payment) Date: 09/17/2003
Budget Source: Remedial Amount: $24580

Action Name: Remedial Design Financial ID: 0061
Financial Type: Extramural Outlay (Payment) Date: 09/17/2003
Budget Source: Remedial Amount: $196766

Action Name: PRP Remedial Design Financial ID: 0005
Financial Type: Decommitment Date: 09/19/2003
Budget Source: Remedial Amount: $400000

Action Name: Remedial Design Financial ID: 0012
Financial Type: Decommitment Date: 09/19/2003
Budget Source: Remedial Amount: $1467931

Action Name: PRP Remedial Design Financial ID: 0005
Financial Type: Actual Obligation Date: 09/19/2003
Budget Source: Remedial Amount: $400000

Action Name: Remedial Design Financial ID: 0010
Financial Type: Actual Obligation Date: 09/19/2003
Budget Source: Remedial Amount: $267931

Action Name: Remedial Design Financial ID: 0011
Financial Type: Actual Obligation Date: 09/19/2003
Budget Source: Remedial Amount: $216873

Action Name: Remedial Design Financial ID: 0012
Financial Type: Actual Obligation Date: 09/19/2003
Budget Source: Remedial Amount: $1467931

Action Name: PRP Remedial Design Financial ID: 0014
Financial Type: Deobligation Date: 09/19/2003
Budget Source: Remedial Amount: $400000

Action Name: Remedial Design Financial ID: 0063

Financial Type: Deobligation
Budget Source: Remedial
Date: 09/19/2003
Amount: $267931

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0064
Date: 09/19/2003
Amount: $1200000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0065
Date: 09/19/2003
Amount: $484804

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0062
Date: 09/19/2003
Amount: $484804

Action Name: Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0001
Date: 09/19/2003
Amount: $267931

Action Name: Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0002
Date: 09/19/2003
Amount: $216873

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0015
Date: 09/22/2003
Amount: $89983

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0013
Date: 09/22/2003
Amount: $89983

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0001
Date: 09/26/2003
Amount: $3070

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0001
Date: 09/26/2003
Amount: $3070

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0013
Date: 10/02/2003
Amount: $6786

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0007
Date: 10/10/2003
Amount: $900000

Action Name:	PRP Remedial Design	Financial ID:	0002
Financial Type:	Commitment	Date:	10/10/2003
Budget Source:	Remedial	Amount:	$900000
Action Name:	Remedial Design	Financial ID:	0014
Financial Type:	Commitment	Date:	10/10/2003
Budget Source:	Remedial	Amount:	$2800000
Action Name:	Combined RI/FS	Financial ID:	0143
Financial Type:	Deobligation	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$814
Action Name:	Remedial Design	Financial ID:	0066
Financial Type:	Deobligation	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$104205
Action Name:	Remedial Design	Financial ID:	0067
Financial Type:	Deobligation	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$100003
Action Name:	Remedial Design	Financial ID:	0068
Financial Type:	Deobligation	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$340976
Action Name:	Remedial Design	Financial ID:	0069
Financial Type:	Deobligation	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$202599
Action Name:	Technical Assistence	Financial ID:	0002
Financial Type:	Deobligation	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$7024
Action Name:	Combined RI/FS	Financial ID:	0132
Financial Type:	Extramural Outlay (Payment)	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$814
Action Name:	Remedial Design	Financial ID:	0063
Financial Type:	Extramural Outlay (Payment)	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$104205
Action Name:	Remedial Design	Financial ID:	0064
Financial Type:	Extramural Outlay (Payment)	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$100003
Action Name:	Remedial Design	Financial ID:	0065
Financial Type:	Extramural Outlay (Payment)	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$340976

Action Name:	Remedial Design	Financial ID:	0066
Financial Type:	Extramural Outlay (Payment)	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$202599
Action Name:	Technical Assistence	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	10/15/2003
Budget Source:	Remedial	Amount:	$7024
Action Name:	PRP Remedial Design	Financial ID:	0006
Financial Type:	Commitment	Date:	10/16/2003
Budget Source:	Remedial	Amount:	$900000
Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Commitment	Date:	10/16/2003
Budget Source:	Remedial	Amount:	$900000
Action Name:	Remedial Design	Financial ID:	0013
Financial Type:	Commitment	Date:	10/16/2003
Budget Source:	Remedial	Amount:	$2800000
Action Name:	PRP Remedial Design	Financial ID:	0007
Financial Type:	Decommitment	Date:	10/16/2003
Budget Source:	Remedial	Amount:	$900000
Action Name:	PRP Remedial Design	Financial ID:	0002
Financial Type:	Decommitment	Date:	10/16/2003
Budget Source:	Remedial	Amount:	$900000
Action Name:	Remedial Design	Financial ID:	0015
Financial Type:	Decommitment	Date:	10/16/2003
Budget Source:	Remedial	Amount:	$2800000
Action Name:	PRP Remedial Design	Financial ID:	0006
Financial Type:	Decommitment	Date:	10/23/2003
Budget Source:	Remedial	Amount:	$900000
Action Name:	Remedial Design	Financial ID:	0014
Financial Type:	Decommitment	Date:	10/23/2003
Budget Source:	Remedial	Amount:	$2800000
Action Name:	PRP Remedial Design	Financial ID:	0006
Financial Type:	Actual Obligation	Date:	10/23/2003
Budget Source:	Remedial	Amount:	$900000
Action Name:	Remedial Design	Financial ID:	0013
Financial Type:	Actual Obligation	Date:	10/23/2003

Budget Source: Remedial Amount: $2800000

Action Name: PRP Remedial Design Financial ID: 0001
Financial Type: Decommitment Date: 11/18/2003
Budget Source: Remedial Amount: $900000

Action Name: PRP Remedial Design Financial ID: 0001
Financial Type: Actual Obligation Date: 11/18/2003
Budget Source: Remedial Amount: $900000

Action Name: PRP Remedial Design Financial ID: 0083
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $900000

Action Name: PRP Remedial Design Financial ID: 0084
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $650000

Action Name: PRP Remedial Design Financial ID: 0085
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $662000

Action Name: PRP Remedial Design Financial ID: 0086
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $1000000

Action Name: PRP Remedial Design Financial ID: 0087
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $1110000

Action Name: PRP Remedial Design Financial ID: 0088
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $1500000

Action Name: PRP Remedial Design Financial ID: 0089
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $1500000

Action Name: PRP Remedial Design Financial ID: 0030
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $772

Action Name: PRP Remedial Design Financial ID: 0031
Financial Type: Deobligation Date: 11/18/2003
Budget Source: Remedial Amount: $2289

Action Name: PRP Remedial Design Financial ID: 0032

Financial Type: Deobligation
Budget Source: Remedial
Date: 11/18/2003
Amount: $1082

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0033
Date: 11/18/2003
Amount: $229

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0034
Date: 11/18/2003
Amount: $244

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0036
Date: 11/18/2003
Amount: $122

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0037
Date: 11/18/2003
Amount: $610000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0016
Date: 11/20/2003
Amount: $161880

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0017
Date: 11/20/2003
Amount: $109866

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0070
Date: 11/20/2003
Amount: $13913

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0071
Date: 11/20/2003
Amount: $15492

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0003
Date: 11/20/2003
Amount: $13134

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0014
Date: 11/20/2003
Amount: $109866

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0015
Date: 11/20/2003
Amount: $161880

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0067
Date: 11/20/2003
Amount: $13913

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0068
Date: 11/20/2003
Amount: $15492

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 11/20/2003
Amount: $13134

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0072
Date: 11/26/2003
Amount: $4348

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0073
Date: 11/26/2003
Amount: $55306

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0069
Date: 11/26/2003
Amount: $4348

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0070
Date: 11/26/2003
Amount: $55306

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0074
Date: 12/09/2003
Amount: $317712

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0071
Date: 12/09/2003
Amount: $317712

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 12/16/2003
Amount: $13831

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0004
Date: 12/16/2003
Amount: $13831

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0075
Date: 12/17/2003
Amount: $8083

Action Name:	Remedial Design	Financial ID:	0076
Financial Type:	Deobligation	Date:	12/17/2003
Budget Source:	Remedial	Amount:	$62186
Action Name:	Remedial Design	Financial ID:	0077
Financial Type:	Deobligation	Date:	12/17/2003
Budget Source:	Remedial	Amount:	$125706
Action Name:	Remedial Design	Financial ID:	0072
Financial Type:	Extramural Outlay (Payment)	Date:	12/17/2003
Budget Source:	Remedial	Amount:	$8083
Action Name:	Remedial Design	Financial ID:	0073
Financial Type:	Extramural Outlay (Payment)	Date:	12/17/2003
Budget Source:	Remedial	Amount:	$62186
Action Name:	Remedial Design	Financial ID:	0074
Financial Type:	Extramural Outlay (Payment)	Date:	12/17/2003
Budget Source:	Remedial	Amount:	$125706
Action Name:	Remedial Design	Financial ID:	0078
Financial Type:	Deobligation	Date:	12/24/2003
Budget Source:	Remedial	Amount:	$516807
Action Name:	Remedial Design	Financial ID:	0075
Financial Type:	Extramural Outlay (Payment)	Date:	12/24/2003
Budget Source:	Remedial	Amount:	$516807
Action Name:	Combined RI/FS	Financial ID:	0050
Financial Type:	Actual Obligation	Date:	12/29/2003
Budget Source:	Remedial	Amount:	$8052
Action Name:	Combined RI/FS	Financial ID:	0144
Financial Type:	Deobligation	Date:	12/29/2003
Budget Source:	Remedial	Amount:	$8052
Action Name:	Combined RI/FS	Financial ID:	0006
Financial Type:	Extramural Deoutlay (Credit)	Date:	12/29/2003
Budget Source:	Remedial	Amount:	$8052
Action Name:	PRP Remedial Design	Financial ID:	0018
Financial Type:	Deobligation	Date:	01/06/2004
Budget Source:	Remedial	Amount:	$24123
Action Name:	PRP Remedial Design	Financial ID:	0019
Financial Type:	Deobligation	Date:	01/06/2004

Budget Source: Remedial Amount: $55320

Action Name: PRP Remedial Design Financial ID: 0020
Financial Type: Deobligation Date: 01/06/2004
Budget Source: Remedial Amount: $225773

Action Name: PRP Remedial Design Financial ID: 0016
Financial Type: Extramural Outlay (Payment) Date: 01/06/2004
Budget Source: Remedial Amount: $24123

Action Name: PRP Remedial Design Financial ID: 0017
Financial Type: Extramural Outlay (Payment) Date: 01/06/2004
Budget Source: Remedial Amount: $55320

Action Name: PRP Remedial Design Financial ID: 0018
Financial Type: Extramural Outlay (Payment) Date: 01/06/2004
Budget Source: Remedial Amount: $225773

Action Name: Technical Assistence Financial ID: 0005
Financial Type: Deobligation Date: 01/15/2004
Budget Source: Remedial Amount: $24266

Action Name: Technical Assistence Financial ID: 0005
Financial Type: Extramural Outlay (Payment) Date: 01/15/2004
Budget Source: Remedial Amount: $24266

Action Name: Remedial Design Financial ID: 0079
Financial Type: Deobligation Date: 02/09/2004
Budget Source: Remedial Amount: $276705

Action Name: Remedial Design Financial ID: 0080
Financial Type: Deobligation Date: 02/09/2004
Budget Source: Remedial Amount: $675

Action Name: Remedial Design Financial ID: 0081
Financial Type: Deobligation Date: 02/09/2004
Budget Source: Remedial Amount: $39857

Action Name: Remedial Design Financial ID: 0076
Financial Type: Extramural Outlay (Payment) Date: 02/09/2004
Budget Source: Remedial Amount: $276705

Action Name: Remedial Design Financial ID: 0077
Financial Type: Extramural Outlay (Payment) Date: 02/09/2004
Budget Source: Remedial Amount: $675

Action Name: Remedial Design Financial ID: 0078

Financial Type: Extramural Outlay (Payment) Date: 02/09/2004
Budget Source: Remedial Amount: $39857

Action Name: Technical Assistence Financial ID: 0006
Financial Type: Deobligation Date: 02/17/2004
Budget Source: Remedial Amount: $13838

Action Name: Technical Assistence Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 02/17/2004
Budget Source: Remedial Amount: $13838

Action Name: Remedial Design Financial ID: 0082
Financial Type: Deobligation Date: 02/25/2004
Budget Source: Remedial Amount: $228385

Action Name: Remedial Design Financial ID: 0079
Financial Type: Extramural Outlay (Payment) Date: 02/25/2004
Budget Source: Remedial Amount: $228385

Action Name: Remedial Design Financial ID: 0083
Financial Type: Deobligation Date: 03/10/2004
Budget Source: Remedial Amount: $110187

Action Name: Remedial Design Financial ID: 0080
Financial Type: Extramural Outlay (Payment) Date: 03/10/2004
Budget Source: Remedial Amount: $110187

Action Name: Remedial Design Financial ID: 0015
Financial Type: Commitment Date: 03/11/2004
Budget Source: Remedial Amount: $1900000

Action Name: Technical Assistence Financial ID: 0007
Financial Type: Deobligation Date: 03/23/2004
Budget Source: Remedial Amount: $24194

Action Name: Technical Assistence Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 03/23/2004
Budget Source: Remedial Amount: $24194

Action Name: PRP Remedial Design Financial ID: 0008
Financial Type: Commitment Date: 03/24/2004
Budget Source: Remedial Amount: $350000

Action Name: PRP Remedial Design Financial ID: 0003
Financial Type: Commitment Date: 03/24/2004
Budget Source: Remedial Amount: $650000

Action Name:	PRP Remedial Design	Financial ID:	0021
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$199983
Action Name:	PRP Remedial Design	Financial ID:	0022
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$61220
Action Name:	PRP Remedial Design	Financial ID:	0023
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$144698
Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$1851
Action Name:	PRP Remedial Design	Financial ID:	0002
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$1198
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$2978
Action Name:	Remedial Design	Financial ID:	0084
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$8141
Action Name:	Remedial Design	Financial ID:	0085
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$4949
Action Name:	Remedial Design	Financial ID:	0086
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$10143
Action Name:	Remedial Design	Financial ID:	0087
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$10973
Action Name:	Remedial Design	Financial ID:	0088
Financial Type:	Deobligation	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$5692
Action Name:	PRP Remedial Design	Financial ID:	0019
Financial Type:	Extramural Outlay (Payment)	Date:	03/29/2004
Budget Source:	Remedial	Amount:	$199983

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0020
Date: 03/29/2004
Amount: $61220

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0021
Date: 03/29/2004
Amount: $144698

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0001
Date: 03/29/2004
Amount: $1851

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0002
Date: 03/29/2004
Amount: $2978

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 03/29/2004
Amount: $1198

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0081
Date: 03/29/2004
Amount: $8141

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0082
Date: 03/29/2004
Amount: $4949

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0083
Date: 03/29/2004
Amount: $10143

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0084
Date: 03/29/2004
Amount: $10973

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0085
Date: 03/29/2004
Amount: $5692

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0089
Date: 03/31/2004
Amount: $202061

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Financial ID: 0086
Date: 03/31/2004

Budget Source: Remedial Amount: $202061

Action Name: Remedial Design Financial ID: 0090
Financial Type: Deobligation Date: 04/06/2004
Budget Source: Remedial Amount: $39730

Action Name: Remedial Design Financial ID: 0087
Financial Type: Extramural Outlay (Payment) Date: 04/06/2004
Budget Source: Remedial Amount: $39730

Action Name: Remedial Design Financial ID: 0091
Financial Type: Deobligation Date: 04/15/2004
Budget Source: Remedial Amount: $314807

Action Name: Remedial Design Financial ID: 0088
Financial Type: Extramural Outlay (Payment) Date: 04/15/2004
Budget Source: Remedial Amount: $314807

Action Name: Technical Assistence Financial ID: 0008
Financial Type: Deobligation Date: 04/19/2004
Budget Source: Remedial Amount: $11110

Action Name: Technical Assistence Financial ID: 0008
Financial Type: Extramural Outlay (Payment) Date: 04/19/2004
Budget Source: Remedial Amount: $11110

Action Name: PRP Remedial Design Financial ID: 0009
Financial Type: Commitment Date: 04/20/2004
Budget Source: Remedial Amount: $350000

Action Name: PRP Remedial Design Financial ID: 0004
Financial Type: Commitment Date: 04/20/2004
Budget Source: Remedial Amount: $650000

Action Name: Remedial Design Financial ID: 0016
Financial Type: Commitment Date: 04/20/2004
Budget Source: Remedial Amount: $1900000

Action Name: PRP Remedial Design Financial ID: 0008
Financial Type: Decommitment Date: 04/20/2004
Budget Source: Remedial Amount: $350000

Action Name: PRP Remedial Design Financial ID: 0003
Financial Type: Decommitment Date: 04/20/2004
Budget Source: Remedial Amount: $650000

Action Name: Remedial Design Financial ID: 0016

Financial Type: Decommitment
Budget Source: Remedial
Date: 04/20/2004
Amount: $1900000

Action Name: PRP Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0009
Date: 04/29/2004
Amount: $350000

Action Name: PRP Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0004
Date: 04/29/2004
Amount: $650000

Action Name: PRP Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0007
Date: 04/29/2004
Amount: $350000

Action Name: PRP Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0002
Date: 04/29/2004
Amount: $650000

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0017
Date: 04/30/2004
Amount: $1900000

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0014
Date: 04/30/2004
Amount: $1900000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0092
Date: 05/05/2004
Amount: $75593

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0089
Date: 05/05/2004
Amount: $75593

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0093
Date: 05/11/2004
Amount: $241999

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0090
Date: 05/11/2004
Amount: $241999

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 05/21/2004
Amount: $34644

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0009
Date: 05/21/2004
Amount: $34644

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 06/15/2004
Amount: $45103

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 06/15/2004
Amount: $45103

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0098
Date: 06/16/2004
Amount: $177784

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0099
Date: 06/16/2004
Amount: $97147

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0095
Date: 06/16/2004
Amount: $177784

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0096
Date: 06/16/2004
Amount: $97147

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0024
Date: 06/22/2004
Amount: $343378

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0025
Date: 06/22/2004
Amount: $46676

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0026
Date: 06/22/2004
Amount: $10633

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0027
Date: 06/22/2004
Amount: $6327

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 06/22/2004
Amount: $2501

Action Name:	PRP Remedial Design	Financial ID:	0005
Financial Type:	Deobligation	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$89196
Action Name:	PRP Remedial Design	Financial ID:	0006
Financial Type:	Deobligation	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$4166
Action Name:	PRP Remedial Design	Financial ID:	0007
Financial Type:	Deobligation	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$164959
Action Name:	Remedial Design	Financial ID:	0094
Financial Type:	Deobligation	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$6208
Action Name:	Remedial Design	Financial ID:	0095
Financial Type:	Deobligation	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$7259
Action Name:	Remedial Design	Financial ID:	0096
Financial Type:	Deobligation	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$6139
Action Name:	Remedial Design	Financial ID:	0097
Financial Type:	Deobligation	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$11343
Action Name:	PRP Remedial Design	Financial ID:	0022
Financial Type:	Extramural Outlay (Payment)	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$343378
Action Name:	PRP Remedial Design	Financial ID:	0023
Financial Type:	Extramural Outlay (Payment)	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$46676
Action Name:	PRP Remedial Design	Financial ID:	0024
Financial Type:	Extramural Outlay (Payment)	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$10633
Action Name:	PRP Remedial Design	Financial ID:	0025
Financial Type:	Extramural Outlay (Payment)	Date:	06/22/2004
Budget Source:	Remedial	Amount:	$6327
Action Name:	PRP Remedial Design	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	06/22/2004

Budget Source: Remedial
Amount: $2501

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0005
Date: 06/22/2004
Amount: $89196

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0006
Date: 06/22/2004
Amount: $4166

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0007
Date: 06/22/2004
Amount: $164959

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0091
Date: 06/22/2004
Amount: $6208

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0092
Date: 06/22/2004
Amount: $7259

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0093
Date: 06/22/2004
Amount: $6139

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0094
Date: 06/22/2004
Amount: $11343

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0102
Date: 07/06/2004
Amount: $117296

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0103
Date: 07/06/2004
Amount: $27178

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0104
Date: 07/06/2004
Amount: $171164

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0099
Date: 07/06/2004
Amount: $117296

Action Name: Remedial Design
Financial ID: 0100

Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Date: 07/06/2004
Amount: $27178

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0101
Date: 07/06/2004
Amount: $171164

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0145
Date: 07/13/2004
Amount: $5126

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0146
Date: 07/13/2004
Amount: $875

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0147
Date: 07/13/2004
Amount: $1320

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0148
Date: 07/13/2004
Amount: $1251

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0133
Date: 07/13/2004
Amount: $5126

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0134
Date: 07/13/2004
Amount: $875

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0135
Date: 07/13/2004
Amount: $1320

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0136
Date: 07/13/2004
Amount: $1251

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0149
Date: 07/16/2004
Amount: $1160

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0150
Date: 07/16/2004
Amount: $1270

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0137
Date: 07/16/2004
Amount: $1270

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0138
Date: 07/16/2004
Amount: $1160

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0011
Date: 07/21/2004
Amount: $51551

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0011
Date: 07/21/2004
Amount: $51551

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0105
Date: 07/28/2004
Amount: $96345

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0102
Date: 07/28/2004
Amount: $96345

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0106
Date: 08/13/2004
Amount: $163116

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0103
Date: 08/13/2004
Amount: $163116

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0012
Date: 08/19/2004
Amount: $6817

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0012
Date: 08/19/2004
Amount: $6817

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0005
Date: 09/08/2004
Amount: $662000

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0013
Date: 09/08/2004
Amount: $998

Action Name:	Technical Assistence	Financial ID:	0013
Financial Type:	Extramural Outlay (Payment)	Date:	09/08/2004
Budget Source:	Remedial	Amount:	$998
Action Name:	Remedial Design	Financial ID:	0107
Financial Type:	Deobligation	Date:	09/09/2004
Budget Source:	Remedial	Amount:	$11459
Action Name:	Remedial Design	Financial ID:	0104
Financial Type:	Extramural Outlay (Payment)	Date:	09/09/2004
Budget Source:	Remedial	Amount:	$11459
Action Name:	Remedial Design	Financial ID:	0108
Financial Type:	Deobligation	Date:	09/22/2004
Budget Source:	Remedial	Amount:	$298588
Action Name:	Remedial Design	Financial ID:	0109
Financial Type:	Deobligation	Date:	09/22/2004
Budget Source:	Remedial	Amount:	$2944
Action Name:	Remedial Design	Financial ID:	0105
Financial Type:	Extramural Outlay (Payment)	Date:	09/22/2004
Budget Source:	Remedial	Amount:	$298588
Action Name:	Remedial Design	Financial ID:	0106
Financial Type:	Extramural Outlay (Payment)	Date:	09/22/2004
Budget Source:	Remedial	Amount:	$2944
Action Name:	PRP Remedial Design	Financial ID:	0005
Financial Type:	Decommitment	Date:	09/28/2004
Budget Source:	Remedial	Amount:	$662000
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	09/28/2004
Budget Source:	Remedial	Amount:	$662000
Action Name:	PRP Remedial Design	Financial ID:	0028
Financial Type:	Deobligation	Date:	10/13/2004
Budget Source:	Remedial	Amount:	$67807
Action Name:	PRP Remedial Design	Financial ID:	0029
Financial Type:	Deobligation	Date:	10/13/2004
Budget Source:	Remedial	Amount:	$44097
Action Name:	PRP Remedial Design	Financial ID:	0008
Financial Type:	Deobligation	Date:	10/13/2004

Budget Source: Remedial Amount: $310261

Action Name: PRP Remedial Design Financial ID: 0009
Financial Type: Deobligation Date: 10/13/2004
Budget Source: Remedial Amount: $101549

Action Name: Remedial Design Financial ID: 0110
Financial Type: Deobligation Date: 10/13/2004
Budget Source: Remedial Amount: $5006

Action Name: PRP Remedial Design Financial ID: 0026
Financial Type: Extramural Outlay (Payment) Date: 10/13/2004
Budget Source: Remedial Amount: $67807

Action Name: PRP Remedial Design Financial ID: 0027
Financial Type: Extramural Outlay (Payment) Date: 10/13/2004
Budget Source: Remedial Amount: $44097

Action Name: PRP Remedial Design Financial ID: 0008
Financial Type: Extramural Outlay (Payment) Date: 10/13/2004
Budget Source: Remedial Amount: $310261

Action Name: PRP Remedial Design Financial ID: 0009
Financial Type: Extramural Outlay (Payment) Date: 10/13/2004
Budget Source: Remedial Amount: $101549

Action Name: Remedial Design Financial ID: 0107
Financial Type: Extramural Outlay (Payment) Date: 10/13/2004
Budget Source: Remedial Amount: $5006

Action Name: Technical Assistence Financial ID: 0015
Financial Type: Deobligation Date: 10/15/2004
Budget Source: Remedial Amount: $175

Action Name: Technical Assistence Financial ID: 0015
Financial Type: Extramural Outlay (Payment) Date: 10/15/2004
Budget Source: Remedial Amount: $175

Action Name: Remedial Design Financial ID: 0111
Financial Type: Deobligation Date: 10/20/2004
Budget Source: Remedial Amount: $156791

Action Name: Remedial Design Financial ID: 0108
Financial Type: Extramural Outlay (Payment) Date: 10/20/2004
Budget Source: Remedial Amount: $156791

Action Name: Remedial Design Financial ID: 0112

Financial Type: Deobligation
Budget Source: Remedial
Date: 11/09/2004
Amount: $18225

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0109
Date: 11/09/2004
Amount: $18225

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0113
Date: 12/16/2004
Amount: $3801

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0110
Date: 12/16/2004
Amount: $3801

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0114
Date: 12/29/2004
Amount: $207106

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0115
Date: 12/29/2004
Amount: $183573

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0116
Date: 12/29/2004
Amount: $1789

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0111
Date: 12/29/2004
Amount: $207106

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0112
Date: 12/29/2004
Amount: $183573

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0113
Date: 12/29/2004
Amount: $1789

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0030
Date: 01/19/2005
Amount: $47881

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0031
Date: 01/19/2005
Amount: $18832

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0032
Date: 01/19/2005
Amount: $59220

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0033
Date: 01/19/2005
Amount: $17034

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0034
Date: 01/19/2005
Amount: $10674

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 01/19/2005
Amount: $217731

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0011
Date: 01/19/2005
Amount: $158887

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0012
Date: 01/19/2005
Amount: $3611

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0013
Date: 01/19/2005
Amount: $2507

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0014
Date: 01/19/2005
Amount: $105684

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0117
Date: 01/19/2005
Amount: $3013

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0118
Date: 01/19/2005
Amount: $5383

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0119
Date: 01/19/2005
Amount: $4916

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0120
Date: 01/19/2005
Amount: $213

Action Name:	Remedial Design	Financial ID:	0121
Financial Type:	Deobligation	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$4181
Action Name:	PRP Remedial Design	Financial ID:	0028
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$47881
Action Name:	PRP Remedial Design	Financial ID:	0029
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$18832
Action Name:	PRP Remedial Design	Financial ID:	0030
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$59220
Action Name:	PRP Remedial Design	Financial ID:	0031
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$17034
Action Name:	PRP Remedial Design	Financial ID:	0032
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$10674
Action Name:	PRP Remedial Design	Financial ID:	0010
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$217731
Action Name:	PRP Remedial Design	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$158887
Action Name:	PRP Remedial Design	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$3611
Action Name:	PRP Remedial Design	Financial ID:	0013
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$2507
Action Name:	PRP Remedial Design	Financial ID:	0014
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005
Budget Source:	Remedial	Amount:	$105684
Action Name:	Remedial Design	Financial ID:	0114
Financial Type:	Extramural Outlay (Payment)	Date:	01/19/2005

Budget Source: Remedial
Amount: $3013

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0115
Date: 01/19/2005
Amount: $5383

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0116
Date: 01/19/2005
Amount: $4916

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0117
Date: 01/19/2005
Amount: $213

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0118
Date: 01/19/2005
Amount: $4181

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0122
Date: 02/01/2005
Amount: $124967

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0119
Date: 02/01/2005
Amount: $124967

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0006
Date: 02/04/2005
Amount: $1000000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0123
Date: 02/17/2005
Amount: $192228

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0124
Date: 02/17/2005
Amount: $1263

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0120
Date: 02/17/2005
Amount: $192228

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0121
Date: 02/17/2005
Amount: $1263

Action Name: PRP Remedial Design
Financial ID: 0006

Financial Type: Decommitment
Budget Source: Remedial
Date: 03/02/2005
Amount: $1000000

Action Name: PRP Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0004
Date: 03/02/2005
Amount: $1000000

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0017
Date: 03/10/2005
Amount: $1020000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0125
Date: 03/23/2005
Amount: $6972

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0122
Date: 03/23/2005
Amount: $6972

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0018
Date: 04/08/2005
Amount: $1020000

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0015
Date: 04/08/2005
Amount: $1020000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0126
Date: 04/12/2005
Amount: $5666

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0123
Date: 04/12/2005
Amount: $5666

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0151
Date: 04/25/2005
Amount: $525

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0139
Date: 04/25/2005
Amount: $525

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0152
Date: 04/26/2005
Amount: $4946

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0153
Date: 04/26/2005
Amount: $638

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0154
Date: 04/26/2005
Amount: $833

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0155
Date: 04/26/2005
Amount: $312

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0156
Date: 04/26/2005
Amount: $8803

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0140
Date: 04/26/2005
Amount: $4946

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0141
Date: 04/26/2005
Amount: $638

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0142
Date: 04/26/2005
Amount: $833

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0143
Date: 04/26/2005
Amount: $312

Action Name: Combined RI/FS
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0144
Date: 04/26/2005
Amount: $8803

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0127
Date: 05/05/2005
Amount: $136184

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0128
Date: 05/05/2005
Amount: $35314

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0129
Date: 05/05/2005
Amount: $117818

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0124
Date: 05/05/2005
Amount: $136184

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0125
Date: 05/05/2005
Amount: $35314

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0126
Date: 05/05/2005
Amount: $117818

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0130
Date: 05/11/2005
Amount: $5145

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0127
Date: 05/11/2005
Amount: $5145

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0131
Date: 05/24/2005
Amount: $19713

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0132
Date: 05/24/2005
Amount: $69761

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0128
Date: 05/24/2005
Amount: $19713

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0129
Date: 05/24/2005
Amount: $69761

Action Name: Community Involvement
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 05/26/2005
Amount: $450

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0133
Date: 06/10/2005
Amount: $5488

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Financial ID: 0130
Date: 06/10/2005

Budget Source: Remedial Amount: $5488

Action Name: PRP Remedial Design Financial ID: 0035
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $6501

Action Name: PRP Remedial Design Financial ID: 0036
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $3128

Action Name: PRP Remedial Design Financial ID: 0037
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $56991

Action Name: PRP Remedial Design Financial ID: 0038
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $29040

Action Name: PRP Remedial Design Financial ID: 0039
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $5546

Action Name: PRP Remedial Design Financial ID: 0015
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $285427

Action Name: PRP Remedial Design Financial ID: 0016
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $10014

Action Name: PRP Remedial Design Financial ID: 0017
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $87481

Action Name: PRP Remedial Design Financial ID: 0018
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $3222

Action Name: PRP Remedial Design Financial ID: 0019
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $231901

Action Name: PRP Remedial Design Financial ID: 0020
Financial Type: Deobligation Date: 06/14/2005
Budget Source: Remedial Amount: $99295

Action Name: Remedial Design Financial ID: 0134

Financial Type: Deobligation
Budget Source: Remedial
Date: 06/14/2005
Amount: $12367

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0135
Date: 06/14/2005
Amount: $3320

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0136
Date: 06/14/2005
Amount: $2921

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0137
Date: 06/14/2005
Amount: $13610

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0138
Date: 06/14/2005
Amount: $2876

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0033
Date: 06/14/2005
Amount: $6501

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0034
Date: 06/14/2005
Amount: $3128

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0035
Date: 06/14/2005
Amount: $56991

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0036
Date: 06/14/2005
Amount: $29040

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0037
Date: 06/14/2005
Amount: $5546

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0015
Date: 06/14/2005
Amount: $285427

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0016
Date: 06/14/2005
Amount: $10014

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0017
Date: 06/14/2005
Amount: $87481

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0018
Date: 06/14/2005
Amount: $3222

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0019
Date: 06/14/2005
Amount: $231901

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0020
Date: 06/14/2005
Amount: $99295

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0131
Date: 06/14/2005
Amount: $12367

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0132
Date: 06/14/2005
Amount: $3320

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0133
Date: 06/14/2005
Amount: $2921

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0134
Date: 06/14/2005
Amount: $13610

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0135
Date: 06/14/2005
Amount: $2876

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0016
Date: 06/27/2005
Amount: $12667

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0016
Date: 06/27/2005
Amount: $12667

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0139
Date: 06/29/2005
Amount: $110929

Action Name:	Remedial Design	Financial ID:	0136
Financial Type:	Extramural Outlay (Payment)	Date:	06/29/2005
Budget Source:	Remedial	Amount:	$110929
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0010
Financial Type:	Actual Obligation	Date:	06/30/2005
Budget Source:	Remedial	Amount:	$31200
Action Name:	PRP Remedial Design	Financial ID:	0021
Financial Type:	Deobligation	Date:	06/30/2005
Budget Source:	Remedial	Amount:	$272510
Action Name:	Remedial Design	Financial ID:	0140
Financial Type:	Deobligation	Date:	06/30/2005
Budget Source:	Remedial	Amount:	$71207
Action Name:	PRP Remedial Design	Financial ID:	0021
Financial Type:	Extramural Outlay (Payment)	Date:	06/30/2005
Budget Source:	Remedial	Amount:	$272510
Action Name:	Remedial Design	Financial ID:	0137
Financial Type:	Extramural Outlay (Payment)	Date:	06/30/2005
Budget Source:	Remedial	Amount:	$71207
Action Name:	State Support Agency Cooperative Agreement	Financial ID:	0001
Financial Type:	Extramural Deoutlay (Credit)	Date:	06/30/2005
Budget Source:	Remedial	Amount:	$31200
Action Name:	Remedial Design	Financial ID:	0141
Financial Type:	Deobligation	Date:	08/02/2005
Budget Source:	Remedial	Amount:	$76209
Action Name:	Remedial Design	Financial ID:	0138
Financial Type:	Extramural Outlay (Payment)	Date:	08/02/2005
Budget Source:	Remedial	Amount:	$76209
Action Name:	PRP Remedial Design	Financial ID:	0007
Financial Type:	Commitment	Date:	08/08/2005
Budget Source:	Remedial	Amount:	$1110000
Action Name:	PRP Remedial Design	Financial ID:	0008
Financial Type:	Commitment	Date:	08/08/2005
Budget Source:	Remedial	Amount:	$1110000
Action Name:	PRP Remedial Design	Financial ID:	0007
Financial Type:	Decommitment	Date:	08/08/2005

Budget Source: Remedial Amount: $1110000

Action Name: PRP Remedial Design Financial ID: 0008
Financial Type: Decommitment Date: 08/25/2005
Budget Source: Remedial Amount: $1110000

Action Name: PRP Remedial Design Financial ID: 0005
Financial Type: Actual Obligation Date: 08/25/2005
Budget Source: Remedial Amount: $1110000

Action Name: PRP Remedial Design Financial ID: 0022
Financial Type: Deobligation Date: 08/30/2005
Budget Source: Remedial Amount: $424726

Action Name: PRP Remedial Design Financial ID: 0023
Financial Type: Deobligation Date: 08/30/2005
Budget Source: Remedial Amount: $55072

Action Name: PRP Remedial Design Financial ID: 0024
Financial Type: Deobligation Date: 08/30/2005
Budget Source: Remedial Amount: $47277

Action Name: PRP Remedial Design Financial ID: 0022
Financial Type: Extramural Outlay (Payment) Date: 08/30/2005
Budget Source: Remedial Amount: $424726

Action Name: PRP Remedial Design Financial ID: 0023
Financial Type: Extramural Outlay (Payment) Date: 08/30/2005
Budget Source: Remedial Amount: $55072

Action Name: PRP Remedial Design Financial ID: 0024
Financial Type: Extramural Outlay (Payment) Date: 08/30/2005
Budget Source: Remedial Amount: $47277

Action Name: Remedial Design Financial ID: 0145
Financial Type: Deobligation Date: 09/07/2005
Budget Source: Remedial Amount: $79330

Action Name: Remedial Design Financial ID: 0142
Financial Type: Extramural Outlay (Payment) Date: 09/07/2005
Budget Source: Remedial Amount: $79330

Action Name: Remedial Design Financial ID: 0142
Financial Type: Deobligation Date: 09/12/2005
Budget Source: Remedial Amount: $14404

Action Name: Remedial Design Financial ID: 0143

Financial Type: Deobligation
Budget Source: Remedial
Date: 09/12/2005
Amount: $2428

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0144
Date: 09/12/2005
Amount: $2421

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0139
Date: 09/12/2005
Amount: $14404

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0140
Date: 09/12/2005
Amount: $2428

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0141
Date: 09/12/2005
Amount: $2421

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0025
Date: 09/21/2005
Amount: $225996

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0025
Date: 09/21/2005
Amount: $225996

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0146
Date: 09/27/2005
Amount: $3051

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0143
Date: 09/27/2005
Amount: $3051

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0147
Date: 10/12/2005
Amount: $117151

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0144
Date: 10/12/2005
Amount: $117151

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0148
Date: 11/09/2005
Amount: $118442

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0145
Date: 11/09/2005
Amount: $118442

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0018
Date: 12/02/2005
Amount: $1000000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0149
Date: 12/13/2005
Amount: $105275

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0146
Date: 12/13/2005
Amount: $105275

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0009
Date: 12/20/2005
Amount: $1500000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0040
Date: 12/28/2005
Amount: $2000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0041
Date: 12/28/2005
Amount: $1811

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0042
Date: 12/28/2005
Amount: $11969

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0043
Date: 12/28/2005
Amount: $6171

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0038
Date: 12/28/2005
Amount: $2000

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0039
Date: 12/28/2005
Amount: $1811

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0040
Date: 12/28/2005
Amount: $11969

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0041
Date: 12/28/2005
Amount: $6171

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0026
Date: 01/10/2006
Amount: $1306

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0027
Date: 01/10/2006
Amount: $10369

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0028
Date: 01/10/2006
Amount: $87200

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0029
Date: 01/10/2006
Amount: $214802

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0030
Date: 01/10/2006
Amount: $54913

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0026
Date: 01/10/2006
Amount: $1306

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0027
Date: 01/10/2006
Amount: $10369

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0028
Date: 01/10/2006
Amount: $87200

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0029
Date: 01/10/2006
Amount: $214802

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0030
Date: 01/10/2006
Amount: $54913

Action Name: PRP Remedial Design
Financial Type: Decommitment
Financial ID: 0009
Date: 01/20/2006

Budget Source: Remedial Amount: $1500000

Action Name: PRP Remedial Design Financial ID: 0006
Financial Type: Actual Obligation Date: 01/20/2006
Budget Source: Remedial Amount: $1500000

Action Name: PRP Remedial Design Financial ID: 0044
Financial Type: Deobligation Date: 01/23/2006
Budget Source: Remedial Amount: $15918

Action Name: PRP Remedial Design Financial ID: 0045
Financial Type: Deobligation Date: 01/23/2006
Budget Source: Remedial Amount: $3015

Action Name: PRP Remedial Design Financial ID: 0046
Financial Type: Deobligation Date: 01/23/2006
Budget Source: Remedial Amount: $626

Action Name: PRP Remedial Design Financial ID: 0047
Financial Type: Deobligation Date: 01/23/2006
Budget Source: Remedial Amount: $26521

Action Name: Remedial Design Financial ID: 0150
Financial Type: Deobligation Date: 01/23/2006
Budget Source: Remedial Amount: $3022

Action Name: Remedial Design Financial ID: 0151
Financial Type: Deobligation Date: 01/23/2006
Budget Source: Remedial Amount: $6474

Action Name: Remedial Design Financial ID: 0152
Financial Type: Deobligation Date: 01/23/2006
Budget Source: Remedial Amount: $1447

Action Name: PRP Remedial Design Financial ID: 0042
Financial Type: Extramural Outlay (Payment) Date: 01/23/2006
Budget Source: Remedial Amount: $15918

Action Name: PRP Remedial Design Financial ID: 0043
Financial Type: Extramural Outlay (Payment) Date: 01/23/2006
Budget Source: Remedial Amount: $3015

Action Name: PRP Remedial Design Financial ID: 0044
Financial Type: Extramural Outlay (Payment) Date: 01/23/2006
Budget Source: Remedial Amount: $626

Action Name: PRP Remedial Design Financial ID: 0045

Financial Type: Extramural Outlay (Payment) Date: 01/23/2006
Budget Source: Remedial Amount: $26521

Action Name: Remedial Design Financial ID: 0147
Financial Type: Extramural Outlay (Payment) Date: 01/23/2006
Budget Source: Remedial Amount: $3022

Action Name: Remedial Design Financial ID: 0148
Financial Type: Extramural Outlay (Payment) Date: 01/23/2006
Budget Source: Remedial Amount: $6474

Action Name: Remedial Design Financial ID: 0149
Financial Type: Extramural Outlay (Payment) Date: 01/23/2006
Budget Source: Remedial Amount: $1447

Action Name: Remedial Design Financial ID: 0153
Financial Type: Deobligation Date: 02/14/2006
Budget Source: Remedial Amount: $66905

Action Name: Remedial Design Financial ID: 0150
Financial Type: Extramural Outlay (Payment) Date: 02/14/2006
Budget Source: Remedial Amount: $66905

Action Name: PRP Remedial Design Financial ID: 0031
Financial Type: Deobligation Date: 03/03/2006
Budget Source: Remedial Amount: $3124

Action Name: PRP Remedial Design Financial ID: 0032
Financial Type: Deobligation Date: 03/03/2006
Budget Source: Remedial Amount: $500099

Action Name: PRP Remedial Design Financial ID: 0031
Financial Type: Extramural Outlay (Payment) Date: 03/03/2006
Budget Source: Remedial Amount: $3124

Action Name: PRP Remedial Design Financial ID: 0032
Financial Type: Extramural Outlay (Payment) Date: 03/03/2006
Budget Source: Remedial Amount: $500099

Action Name: Remedial Design Financial ID: 0154
Financial Type: Deobligation Date: 03/06/2006
Budget Source: Remedial Amount: $75686

Action Name: Remedial Design Financial ID: 0151
Financial Type: Extramural Outlay (Payment) Date: 03/06/2006
Budget Source: Remedial Amount: $75686

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0019
Date: 03/31/2006
Amount: $1000000

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0016
Date: 03/31/2006
Amount: $1000000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0155
Date: 04/03/2006
Amount: $48933

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0156
Date: 04/03/2006
Amount: $32078

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0152
Date: 04/03/2006
Amount: $48933

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0153
Date: 04/03/2006
Amount: $32078

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0033
Date: 04/18/2006
Amount: $43433

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0034
Date: 04/18/2006
Amount: $197564

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0160
Date: 04/18/2006
Amount: $71824

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0033
Date: 04/18/2006
Amount: $43433

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0034
Date: 04/18/2006
Amount: $197564

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0157
Date: 04/18/2006
Amount: $71824

Action Name: Combined RI/FS
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0157
Date: 04/21/2006
Amount: $56000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0048
Date: 05/09/2006
Amount: $21910

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0049
Date: 05/09/2006
Amount: $16692

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0050
Date: 05/09/2006
Amount: $20551

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0157
Date: 05/09/2006
Amount: $2017

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0158
Date: 05/09/2006
Amount: $3275

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0159
Date: 05/09/2006
Amount: $10738

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0046
Date: 05/09/2006
Amount: $21910

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0047
Date: 05/09/2006
Amount: $16692

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0048
Date: 05/09/2006
Amount: $20551

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0154
Date: 05/09/2006
Amount: $2017

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Financial ID: 0155
Date: 05/09/2006

Budget Source: Remedial Amount: $3275

Action Name: Remedial Design Financial ID: 0156
Financial Type: Extramural Outlay (Payment) Date: 05/09/2006
Budget Source: Remedial Amount: $10738

Action Name: Removal Financial ID: 0003
Financial Type: Commitment Date: 05/24/2006
Budget Source: Removal Amount: $15000

Action Name: Remedial Design Financial ID: 0161
Financial Type: Deobligation Date: 05/24/2006
Budget Source: Remedial Amount: $98554

Action Name: Remedial Design Financial ID: 0158
Financial Type: Extramural Outlay (Payment) Date: 05/24/2006
Budget Source: Remedial Amount: $98554

Action Name: State Support Agency Cooperative Agreement Financial ID: 0006
Financial Type: Deobligation Date: 05/26/2006
Budget Source: Remedial Amount: $31200

Action Name: Removal Financial ID: 0003
Financial Type: Decommitment Date: 06/08/2006
Budget Source: Removal Amount: $15000

Action Name: Removal Financial ID: 0003
Financial Type: Actual Obligation Date: 06/08/2006
Budget Source: Removal Amount: $15000

Action Name: Remedial Design Financial ID: 0162
Financial Type: Deobligation Date: 06/19/2006
Budget Source: Remedial Amount: $136009

Action Name: Remedial Design Financial ID: 0159
Financial Type: Extramural Outlay (Payment) Date: 06/19/2006
Budget Source: Remedial Amount: $136009

Action Name: Removal Assessment Financial ID: 0001
Financial Type: Commitment Date: 06/20/2006
Budget Source: Removal Amount: $50000

Action Name: Removal Assessment Financial ID: 0001
Financial Type: Decommitment Date: 06/23/2006
Budget Source: Removal Amount: $50000

Action Name: Removal Assessment Financial ID: 0002

Financial Type: Actual Obligation
Budget Source: Removal
Date: 06/23/2006
Amount: $50000

Action Name: Technical Assistence
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0002
Date: 06/27/2006
Amount: $1814

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0166
Date: 07/10/2006
Amount: $112135

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0163
Date: 07/10/2006
Amount: $112135

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0051
Date: 07/11/2006
Amount: $2818

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0163
Date: 07/11/2006
Amount: $3028

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0049
Date: 07/11/2006
Amount: $2818

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0160
Date: 07/11/2006
Amount: $3028

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0010
Date: 07/14/2006
Amount: $24000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0052
Date: 07/14/2006
Amount: $813

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0035
Date: 07/14/2006
Amount: $12031

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0164
Date: 07/14/2006
Amount: $2554

Action Name:	Remedial Design	Financial ID:	0165
Financial Type:	Deobligation	Date:	07/14/2006
Budget Source:	Remedial	Amount:	$9534
Action Name:	PRP Remedial Design	Financial ID:	0050
Financial Type:	Extramural Outlay (Payment)	Date:	07/14/2006
Budget Source:	Remedial	Amount:	$813
Action Name:	PRP Remedial Design	Financial ID:	0035
Financial Type:	Extramural Outlay (Payment)	Date:	07/14/2006
Budget Source:	Remedial	Amount:	$12031
Action Name:	Remedial Design	Financial ID:	0161
Financial Type:	Extramural Outlay (Payment)	Date:	07/14/2006
Budget Source:	Remedial	Amount:	$2554
Action Name:	Remedial Design	Financial ID:	0162
Financial Type:	Extramural Outlay (Payment)	Date:	07/14/2006
Budget Source:	Remedial	Amount:	$9534
Action Name:	Technical Assistence	Financial ID:	0017
Financial Type:	Deobligation	Date:	07/21/2006
Budget Source:	Remedial	Amount:	$3114
Action Name:	Technical Assistence	Financial ID:	0017
Financial Type:	Extramural Outlay (Payment)	Date:	07/21/2006
Budget Source:	Remedial	Amount:	$3114
Action Name:	Removal Assessment	Financial ID:	0002
Financial Type:	Deobligation	Date:	07/26/2006
Budget Source:	Removal	Amount:	$1239
Action Name:	Removal Assessment	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	07/26/2006
Budget Source:	Removal	Amount:	$1239
Action Name:	PRP Remedial Design	Financial ID:	0036
Financial Type:	Deobligation	Date:	08/01/2006
Budget Source:	Remedial	Amount:	$287162
Action Name:	PRP Remedial Design	Financial ID:	0037
Financial Type:	Deobligation	Date:	08/01/2006
Budget Source:	Remedial	Amount:	$30474
Action Name:	PRP Remedial Design	Financial ID:	0038
Financial Type:	Deobligation	Date:	08/01/2006
Budget Source:	Remedial	Amount:	$129566

Action Name:	PRP Remedial Design	Financial ID:	0036
Financial Type:	Extramural Outlay (Payment)	Date:	08/01/2006
Budget Source:	Remedial	Amount:	$287162
Action Name:	PRP Remedial Design	Financial ID:	0037
Financial Type:	Extramural Outlay (Payment)	Date:	08/01/2006
Budget Source:	Remedial	Amount:	$30474
Action Name:	PRP Remedial Design	Financial ID:	0038
Financial Type:	Extramural Outlay (Payment)	Date:	08/01/2006
Budget Source:	Remedial	Amount:	$129566
Action Name:	Remedial Design	Financial ID:	0167
Financial Type:	Deobligation	Date:	08/14/2006
Budget Source:	Remedial	Amount:	$86606
Action Name:	Remedial Design	Financial ID:	0164
Financial Type:	Extramural Outlay (Payment)	Date:	08/14/2006
Budget Source:	Remedial	Amount:	$86606
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Deobligation	Date:	08/21/2006
Budget Source:	Removal	Amount:	$8507
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	08/21/2006
Budget Source:	Removal	Amount:	$8507
Action Name:	PRP Remedial Design	Financial ID:	0053
Financial Type:	Deobligation	Date:	08/25/2006
Budget Source:	Remedial	Amount:	$2977
Action Name:	PRP Remedial Design	Financial ID:	0051
Financial Type:	Extramural Outlay (Payment)	Date:	08/25/2006
Budget Source:	Remedial	Amount:	$2977
Action Name:	Remedial Design	Financial ID:	0003
Financial Type:	Deobligation	Date:	09/01/2006
Budget Source:	Remedial	Amount:	$88367
Action Name:	Remedial Design	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	09/01/2006
Budget Source:	Remedial	Amount:	$88367
Action Name:	PRP Remedial Design	Financial ID:	0010
Financial Type:	Decommitment	Date:	09/12/2006

Budget Source: Remedial
Amount: $24000

Action Name: PRP Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0007
Date: 09/12/2006
Amount: $22122

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0168
Date: 09/14/2006
Amount: $2953

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0165
Date: 09/14/2006
Amount: $2953

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0054
Date: 09/25/2006
Amount: $823

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0039
Date: 09/25/2006
Amount: $5701

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0169
Date: 09/25/2006
Amount: $1339

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0052
Date: 09/25/2006
Amount: $823

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0039
Date: 09/25/2006
Amount: $5701

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0166
Date: 09/25/2006
Amount: $1339

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0004
Date: 10/05/2006
Amount: $5300

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0004
Date: 10/05/2006
Amount: $5300

Action Name: PRP Remedial Design
Financial ID: 0011

Financial Type: Commitment
Budget Source: Remedial
Date: 10/24/2006
Amount: $1500000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0171
Date: 10/24/2006
Amount: $79898

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0168
Date: 10/24/2006
Amount: $79898

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0055
Date: 11/07/2006
Amount: $10590

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0040
Date: 11/07/2006
Amount: $112445

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0170
Date: 11/07/2006
Amount: $1629

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0053
Date: 11/07/2006
Amount: $10590

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0040
Date: 11/07/2006
Amount: $112445

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0167
Date: 11/07/2006
Amount: $1629

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0005
Date: 11/08/2006
Amount: $930

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0005
Date: 11/08/2006
Amount: $930

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0019
Date: 11/20/2006
Amount: $1000000

Action Name: PRP Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0011
Date: 11/22/2006
Amount: $1500000

Action Name: PRP Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0008
Date: 11/22/2006
Amount: $1500000

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0006
Date: 11/24/2006
Amount: $4822

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0006
Date: 11/24/2006
Amount: $4822

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0172
Date: 12/05/2006
Amount: $95837

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0169
Date: 12/05/2006
Amount: $95837

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0020
Date: 12/08/2006
Amount: $1000000

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0017
Date: 12/08/2006
Amount: $1000000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0056
Date: 12/12/2006
Amount: $2349

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0041
Date: 12/12/2006
Amount: $14657

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0042
Date: 12/12/2006
Amount: $450881

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0173
Date: 12/12/2006
Amount: $12411

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0054
Date: 12/12/2006
Amount: $2349

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0041
Date: 12/12/2006
Amount: $14657

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0042
Date: 12/12/2006
Amount: $450881

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0170
Date: 12/12/2006
Amount: $12411

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0043
Date: 01/23/2007
Amount: $22122

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0043
Date: 01/23/2007
Amount: $5909

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0044
Date: 01/23/2007
Amount: $16213

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0045
Date: 01/23/2007
Amount: $19

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0007
Date: 02/01/2007
Amount: $2497

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0007
Date: 02/01/2007
Amount: $2497

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0189
Date: 02/05/2007
Amount: $44004

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Financial ID: 0186
Date: 02/05/2007

Budget Source: Remedial Amount: $44004

Action Name: PRP Remedial Action Financial ID: 0001
Financial Type: Commitment Date: 02/15/2007
Budget Source: Remedial Amount: $1800000

Action Name: Remedial Design Financial ID: 0174
Financial Type: Deobligation Date: 02/21/2007
Budget Source: Remedial Amount: $112497

Action Name: Remedial Design Financial ID: 0190
Financial Type: Deobligation Date: 02/21/2007
Budget Source: Remedial Amount: $136689

Action Name: Remedial Design Financial ID: 0171
Financial Type: Extramural Outlay (Payment) Date: 02/21/2007
Budget Source: Remedial Amount: $112497

Action Name: Remedial Design Financial ID: 0187
Financial Type: Extramural Outlay (Payment) Date: 02/21/2007
Budget Source: Remedial Amount: $136689

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0001
Financial Type: Commitment Date: 03/05/2007
Budget Source: Remedial Amount: $100000

Action Name: PRP Remedial Design Financial ID: 0057
Financial Type: Deobligation Date: 03/05/2007
Budget Source: Remedial Amount: $5588

Action Name: Remedial Design Financial ID: 0175
Financial Type: Deobligation Date: 03/05/2007
Budget Source: Remedial Amount: $2280

Action Name: Remedial Design Financial ID: 0176
Financial Type: Deobligation Date: 03/05/2007
Budget Source: Remedial Amount: $5825

Action Name: Remedial Design Financial ID: 0177
Financial Type: Deobligation Date: 03/05/2007
Budget Source: Remedial Amount: $3457

Action Name: Remedial Design Financial ID: 0178
Financial Type: Deobligation Date: 03/05/2007
Budget Source: Remedial Amount: $2028

Action Name: PRP Remedial Design Financial ID: 0055

Financial Type: Extramural Outlay (Payment) Date: 03/05/2007
Budget Source: Remedial Amount: $5588

Action Name: Remedial Design Financial ID: 0172
Financial Type: Extramural Outlay (Payment) Date: 03/05/2007
Budget Source: Remedial Amount: $2280

Action Name: Remedial Design Financial ID: 0173
Financial Type: Extramural Outlay (Payment) Date: 03/05/2007
Budget Source: Remedial Amount: $5825

Action Name: Remedial Design Financial ID: 0174
Financial Type: Extramural Outlay (Payment) Date: 03/05/2007
Budget Source: Remedial Amount: $3457

Action Name: Remedial Design Financial ID: 0175
Financial Type: Extramural Outlay (Payment) Date: 03/05/2007
Budget Source: Remedial Amount: $2028

Action Name: PRP Remedial Design Financial ID: 0044
Financial Type: Deobligation Date: 03/06/2007
Budget Source: Remedial Amount: $5736

Action Name: PRP Remedial Design Financial ID: 0045
Financial Type: Deobligation Date: 03/06/2007
Budget Source: Remedial Amount: $26845

Action Name: PRP Remedial Design Financial ID: 0046
Financial Type: Deobligation Date: 03/06/2007
Budget Source: Remedial Amount: $306416

Action Name: PRP Remedial Design Financial ID: 0047
Financial Type: Deobligation Date: 03/06/2007
Budget Source: Remedial Amount: $101516

Action Name: PRP Remedial Design Financial ID: 0046
Financial Type: Extramural Outlay (Payment) Date: 03/06/2007
Budget Source: Remedial Amount: $5736

Action Name: PRP Remedial Design Financial ID: 0047
Financial Type: Extramural Outlay (Payment) Date: 03/06/2007
Budget Source: Remedial Amount: $26845

Action Name: PRP Remedial Design Financial ID: 0048
Financial Type: Extramural Outlay (Payment) Date: 03/06/2007
Budget Source: Remedial Amount: $306416

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0049
Date: 03/06/2007
Amount: $101516

Action Name: PRP Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0001
Date: 03/21/2007
Amount: $1800000

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0001
Date: 03/21/2007
Amount: $1800000

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0001
Date: 03/21/2007
Amount: $430536

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0002
Date: 03/21/2007
Amount: $421877

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0003
Date: 03/21/2007
Amount: $40248

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0006
Date: 03/21/2007
Amount: $414425

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0007
Date: 03/21/2007
Amount: $174897

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0008
Date: 03/21/2007
Amount: $129423

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 03/21/2007
Amount: $192616

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0011
Date: 03/21/2007
Amount: $206513

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0012
Date: 03/21/2007
Amount: $249615

Action Name:	PRP Remedial Action	Financial ID:	0014
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$339326
Action Name:	PRP Remedial Action	Financial ID:	0015
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$1893
Action Name:	PRP Remedial Action	Financial ID:	0016
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$367230
Action Name:	PRP Remedial Action	Financial ID:	0017
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$118620
Action Name:	PRP Remedial Action	Financial ID:	0018
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$236766
Action Name:	PRP Remedial Action	Financial ID:	0019
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$329657
Action Name:	PRP Remedial Action	Financial ID:	0020
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$356349
Action Name:	PRP Remedial Action	Financial ID:	0021
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$188336
Action Name:	PRP Remedial Action	Financial ID:	0022
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$246548
Action Name:	PRP Remedial Action	Financial ID:	0023
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$133717
Action Name:	PRP Remedial Action	Financial ID:	0024
Financial Type:	Deobligation	Date:	03/21/2007
Budget Source:	Remedial	Amount:	$367353
Action Name:	PRP Remedial Action	Financial ID:	0025
Financial Type:	Deobligation	Date:	03/21/2007

Budget Source: Remedial Amount: $185717

Action Name: PRP Remedial Action Financial ID: 0026
Financial Type: Deobligation Date: 03/21/2007
Budget Source: Remedial Amount: $414318

Action Name: Remedial Design Financial ID: 0179
Financial Type: Deobligation Date: 04/10/2007
Budget Source: Remedial Amount: $162957

Action Name: Remedial Design Financial ID: 0176
Financial Type: Extramural Outlay (Payment) Date: 04/10/2007
Budget Source: Remedial Amount: $162957

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0001
Financial Type: Decommitment Date: 04/16/2007
Budget Source: Remedial Amount: $100000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0001
Financial Type: Actual Obligation Date: 04/16/2007
Budget Source: Remedial Amount: $100000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0119
Financial Type: Deobligation Date: 04/16/2007
Budget Source: Remedial Amount: $570180

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0120
Financial Type: Deobligation Date: 04/16/2007
Budget Source: Remedial Amount: $120000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0121
Financial Type: Deobligation Date: 04/16/2007
Budget Source: Remedial Amount: $250000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0122
Financial Type: Deobligation Date: 04/16/2007
Budget Source: Remedial Amount: $1035000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0123
Financial Type: Deobligation Date: 04/16/2007
Budget Source: Remedial Amount: $100000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0124
Financial Type: Deobligation Date: 04/16/2007
Budget Source: Remedial Amount: $340000

Action Name: Remedial Design Financial ID: 0180

Financial Type: Deobligation
Budget Source: Remedial
Date: 05/14/2007
Amount: $92016

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0177
Date: 05/14/2007
Amount: $92016

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0058
Date: 05/17/2007
Amount: $5396

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0048
Date: 05/17/2007
Amount: $19114

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0181
Date: 05/17/2007
Amount: $4452

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0056
Date: 05/17/2007
Amount: $5396

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0050
Date: 05/17/2007
Amount: $19114

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0178
Date: 05/17/2007
Amount: $4452

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0001
Date: 05/30/2007
Amount: $2381

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0059
Date: 05/30/2007
Amount: $225767

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0049
Date: 05/30/2007
Amount: $113155

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0182
Date: 05/30/2007
Amount: $7445

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0183
Date: 05/30/2007
Amount: $1545

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0001
Date: 05/30/2007
Amount: $2381

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0057
Date: 05/30/2007
Amount: $225767

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0051
Date: 05/30/2007
Amount: $113155

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0179
Date: 05/30/2007
Amount: $7445

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0180
Date: 05/30/2007
Amount: $1545

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0050
Date: 06/01/2007
Amount: $102553

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0001
Date: 06/01/2007
Amount: $671

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0052
Date: 06/01/2007
Amount: $102553

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0001
Date: 06/01/2007
Amount: $671

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0184
Date: 06/08/2007
Amount: $84371

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0181
Date: 06/08/2007
Amount: $84371

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0002
Financial Type:	Deobligation	Date:	06/15/2007
Budget Source:	Remedial	Amount:	$1915
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	06/15/2007
Budget Source:	Remedial	Amount:	$1915
Action Name:	Removal Assessment	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	07/03/2007
Budget Source:	Removal	Amount:	$1501
Action Name:	Removal Assessment	Financial ID:	0008
Financial Type:	Deobligation	Date:	07/03/2007
Budget Source:	Removal	Amount:	$1501
Action Name:	Removal Assessment	Financial ID:	0008
Financial Type:	Extramural Outlay (Payment)	Date:	07/03/2007
Budget Source:	Removal	Amount:	$1501
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0003
Financial Type:	Deobligation	Date:	07/16/2007
Budget Source:	Remedial	Amount:	$933
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	07/16/2007
Budget Source:	Remedial	Amount:	$933
Action Name:	Remedial Design	Financial ID:	0185
Financial Type:	Deobligation	Date:	07/24/2007
Budget Source:	Remedial	Amount:	$94291
Action Name:	Remedial Design	Financial ID:	0182
Financial Type:	Extramural Outlay (Payment)	Date:	07/24/2007
Budget Source:	Remedial	Amount:	$94291
Action Name:	Removal Assessment	Financial ID:	0004
Financial Type:	Actual Obligation	Date:	08/09/2007
Budget Source:	Removal	Amount:	$1061
Action Name:	Removal Assessment	Financial ID:	0009
Financial Type:	Deobligation	Date:	08/09/2007
Budget Source:	Removal	Amount:	$1061
Action Name:	Removal Assessment	Financial ID:	0009
Financial Type:	Extramural Outlay (Payment)	Date:	08/09/2007

Budget Source: Removal
Amount: $1061

Action Name: Remedial Action
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0001
Date: 08/13/2007
Amount: $316153

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0010
Date: 08/13/2007
Amount: $7

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0010
Date: 08/13/2007
Amount: $7

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0020
Date: 08/14/2007
Amount: $1500000

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0001
Date: 08/17/2007
Amount: $497940

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0051
Date: 08/17/2007
Amount: $80940

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0052
Date: 08/17/2007
Amount: $29597

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0002
Date: 08/17/2007
Amount: $2135

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0186
Date: 08/17/2007
Amount: $2870

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0053
Date: 08/17/2007
Amount: $80940

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0054
Date: 08/17/2007
Amount: $29597

Action Name: PRP Remedial Action
Financial ID: 0002

Financial Type: Extramural Outlay (Payment) Date: 08/17/2007
Budget Source: Remedial Amount: $2135

Action Name: Remedial Design Financial ID: 0183
Financial Type: Extramural Outlay (Payment) Date: 08/17/2007
Budget Source: Remedial Amount: $2870

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0004
Financial Type: Deobligation Date: 08/21/2007
Budget Source: Remedial Amount: $870

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0004
Financial Type: Extramural Outlay (Payment) Date: 08/21/2007
Budget Source: Remedial Amount: $870

Action Name: Remedial Design Financial ID: 0187
Financial Type: Deobligation Date: 08/22/2007
Budget Source: Remedial Amount: $91876

Action Name: Remedial Design Financial ID: 0184
Financial Type: Extramural Outlay (Payment) Date: 08/22/2007
Budget Source: Remedial Amount: $91876

Action Name: Removal Assessment Financial ID: 0005
Financial Type: Actual Obligation Date: 08/24/2007
Budget Source: Removal Amount: $11107

Action Name: PRP Remedial Design Financial ID: 0053
Financial Type: Deobligation Date: 08/24/2007
Budget Source: Remedial Amount: $176722

Action Name: PRP Remedial Action Financial ID: 0003
Financial Type: Deobligation Date: 08/24/2007
Budget Source: Remedial Amount: $20400

Action Name: Remedial Design Financial ID: 0188
Financial Type: Deobligation Date: 08/24/2007
Budget Source: Remedial Amount: $2786

Action Name: Removal Assessment Financial ID: 0011
Financial Type: Deobligation Date: 08/24/2007
Budget Source: Removal Amount: $11107

Action Name: PRP Remedial Design Financial ID: 0055
Financial Type: Extramural Outlay (Payment) Date: 08/24/2007
Budget Source: Remedial Amount: $176722

Action Name:	PRP Remedial Action	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	08/24/2007
Budget Source:	Remedial	Amount:	$20400
Action Name:	Remedial Design	Financial ID:	0185
Financial Type:	Extramural Outlay (Payment)	Date:	08/24/2007
Budget Source:	Remedial	Amount:	$2786
Action Name:	Removal Assessment	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	08/24/2007
Budget Source:	Removal	Amount:	$11107
Action Name:	Remedial Design	Financial ID:	0021
Financial Type:	Decommitment	Date:	09/10/2007
Budget Source:	Remedial	Amount:	$1500000
Action Name:	Remedial Design	Financial ID:	0018
Financial Type:	Actual Obligation	Date:	09/10/2007
Budget Source:	Remedial	Amount:	$1500000
Action Name:	Remedial Design	Financial ID:	0191
Financial Type:	Deobligation	Date:	09/10/2007
Budget Source:	Remedial	Amount:	$9645
Action Name:	Remedial Design	Financial ID:	0188
Financial Type:	Extramural Outlay (Payment)	Date:	09/10/2007
Budget Source:	Remedial	Amount:	$9645
Action Name:	Combined RI/FS	Financial ID:	0051
Financial Type:	Actual Obligation	Date:	09/13/2007
Budget Source:	Remedial	Amount:	$13363
Action Name:	Combined RI/FS	Financial ID:	0007
Financial Type:	Extramural Deoutlay (Credit)	Date:	09/13/2007
Budget Source:	Remedial	Amount:	$13363
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Decommitment	Date:	09/19/2007
Budget Source:	Remedial	Amount:	$316153
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	09/19/2007
Budget Source:	Remedial	Amount:	$316153
Action Name:	Remedial Action	Financial ID:	0016
Financial Type:	Actual Obligation	Date:	09/19/2007
Budget Source:	Remedial	Amount:	$79

Action Name:	Remedial Action	Financial ID:	0037
Financial Type:	Deobligation	Date:	09/19/2007
Budget Source:	Remedial	Amount:	$23722
Action Name:	Remedial Action	Financial ID:	0039
Financial Type:	Deobligation	Date:	09/19/2007
Budget Source:	Remedial	Amount:	$9017
Action Name:	Remedial Action	Financial ID:	0040
Financial Type:	Deobligation	Date:	09/19/2007
Budget Source:	Remedial	Amount:	$39
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0005
Financial Type:	Deobligation	Date:	09/20/2007
Budget Source:	Remedial	Amount:	$400
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0005
Financial Type:	Extramural Outlay (Payment)	Date:	09/20/2007
Budget Source:	Remedial	Amount:	$400
Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Decommitment	Date:	09/26/2007
Budget Source:	Remedial	Amount:	$497940
Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	09/26/2007
Budget Source:	Remedial	Amount:	$497940
Action Name:	PRP Remedial Design	Financial ID:	0029
Financial Type:	Deobligation	Date:	09/26/2007
Budget Source:	Remedial	Amount:	$19582
Action Name:	PRP Remedial Design	Financial ID:	0035
Financial Type:	Deobligation	Date:	09/26/2007
Budget Source:	Remedial	Amount:	$1859
Action Name:	PRP Remedial Design	Financial ID:	0038
Financial Type:	Deobligation	Date:	09/26/2007
Budget Source:	Remedial	Amount:	$8635
Action Name:	PRP Remedial Design	Financial ID:	0039
Financial Type:	Deobligation	Date:	09/26/2007
Budget Source:	Remedial	Amount:	$11613
Action Name:	PRP Remedial Design	Financial ID:	0040
Financial Type:	Deobligation	Date:	09/26/2007

Budget Source: Remedial
Amount: $16980

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0012
Date: 10/03/2007
Amount: $639

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0012
Date: 10/03/2007
Amount: $639

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0006
Date: 10/29/2007
Amount: $854

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0054
Date: 10/29/2007
Amount: $2410

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0055
Date: 10/29/2007
Amount: $90449

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 10/29/2007
Amount: $12892

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0005
Date: 10/29/2007
Amount: $20928

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0192
Date: 10/29/2007
Amount: $2291

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0006
Date: 10/29/2007
Amount: $854

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0056
Date: 10/29/2007
Amount: $2410

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0057
Date: 10/29/2007
Amount: $90449

Action Name: PRP Remedial Action
Financial ID: 0004

Financial Type: Extramural Outlay (Payment) Date: 10/29/2007
Budget Source: Remedial Amount: $12892

Action Name: PRP Remedial Action Financial ID: 0005
Financial Type: Extramural Outlay (Payment) Date: 10/29/2007
Budget Source: Remedial Amount: $20928

Action Name: Remedial Design Financial ID: 0189
Financial Type: Extramural Outlay (Payment) Date: 10/29/2007
Budget Source: Remedial Amount: $2291

Action Name: Removal Assessment Financial ID: 0013
Financial Type: Deobligation Date: 11/01/2007
Budget Source: Removal Amount: $2692

Action Name: Removal Assessment Financial ID: 0013
Financial Type: Extramural Outlay (Payment) Date: 11/01/2007
Budget Source: Removal Amount: $2692

Action Name: Remedial Design Financial ID: 0193
Financial Type: Deobligation Date: 11/14/2007
Budget Source: Remedial Amount: $92628

Action Name: Remedial Design Financial ID: 0194
Financial Type: Deobligation Date: 11/14/2007
Budget Source: Remedial Amount: $129982

Action Name: Remedial Design Financial ID: 0190
Financial Type: Extramural Outlay (Payment) Date: 11/14/2007
Budget Source: Remedial Amount: $92628

Action Name: Remedial Design Financial ID: 0191
Financial Type: Extramural Outlay (Payment) Date: 11/14/2007
Budget Source: Remedial Amount: $129982

Action Name: Remedial Design Financial ID: 0195
Financial Type: Deobligation Date: 11/20/2007
Budget Source: Remedial Amount: $80072

Action Name: Remedial Design Financial ID: 0192
Financial Type: Extramural Outlay (Payment) Date: 11/20/2007
Budget Source: Remedial Amount: $80072

Action Name: Removal Assessment Financial ID: 0014
Financial Type: Deobligation Date: 11/21/2007
Budget Source: Removal Amount: $3975

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0014
Date: 11/21/2007
Amount: $3975

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0007
Date: 11/29/2007
Amount: $919

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0007
Date: 11/29/2007
Amount: $919

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0056
Date: 12/04/2007
Amount: $225177

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0006
Date: 12/04/2007
Amount: $30990

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0007
Date: 12/04/2007
Amount: $59543

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0058
Date: 12/04/2007
Amount: $225177

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0006
Date: 12/04/2007
Amount: $30990

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0007
Date: 12/04/2007
Amount: $59543

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0015
Date: 12/11/2007
Amount: $2306

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0015
Date: 12/11/2007
Amount: $2306

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0196
Date: 12/31/2007
Amount: $41310

Action Name:	Remedial Design	Financial ID:	0197
Financial Type:	Deobligation	Date:	12/31/2007
Budget Source:	Remedial	Amount:	$56362
Action Name:	Remedial Design	Financial ID:	0193
Financial Type:	Extramural Outlay (Payment)	Date:	12/31/2007
Budget Source:	Remedial	Amount:	$41310
Action Name:	Remedial Design	Financial ID:	0194
Financial Type:	Extramural Outlay (Payment)	Date:	12/31/2007
Budget Source:	Remedial	Amount:	$56362
Action Name:	Removal Assessment	Financial ID:	0016
Financial Type:	Deobligation	Date:	01/07/2008
Budget Source:	Removal	Amount:	$13615
Action Name:	Removal Assessment	Financial ID:	0016
Financial Type:	Extramural Outlay (Payment)	Date:	01/07/2008
Budget Source:	Removal	Amount:	$13615
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0008
Financial Type:	Deobligation	Date:	01/08/2008
Budget Source:	Remedial	Amount:	$24378
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0008
Financial Type:	Extramural Outlay (Payment)	Date:	01/08/2008
Budget Source:	Remedial	Amount:	$24378
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0009
Financial Type:	Deobligation	Date:	01/22/2008
Budget Source:	Remedial	Amount:	$6928
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0009
Financial Type:	Extramural Outlay (Payment)	Date:	01/22/2008
Budget Source:	Remedial	Amount:	$6928
Action Name:	PRP Remedial Design	Financial ID:	0057
Financial Type:	Deobligation	Date:	01/28/2008
Budget Source:	Remedial	Amount:	$341
Action Name:	PRP Remedial Action	Financial ID:	0008
Financial Type:	Deobligation	Date:	01/28/2008
Budget Source:	Remedial	Amount:	$25685
Action Name:	PRP Remedial Design	Financial ID:	0059
Financial Type:	Extramural Outlay (Payment)	Date:	01/28/2008

Budget Source: Remedial
Amount: $341

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0008
Date: 01/28/2008
Amount: $25685

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0058
Date: 01/29/2008
Amount: $1570

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0198
Date: 01/29/2008
Amount: $4241

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0060
Date: 01/29/2008
Amount: $1570

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0195
Date: 01/29/2008
Amount: $4241

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0199
Date: 01/30/2008
Amount: $4215

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0196
Date: 01/30/2008
Amount: $4215

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0200
Date: 01/31/2008
Amount: $60368

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0197
Date: 01/31/2008
Amount: $60368

Action Name: Real Property Acquisition
Financial Type: Commitment
Budget Source: Pipeline Operations
Financial ID: 0001
Date: 02/01/2008
Amount: $355660

Action Name: Real Property Acquisition
Financial Type: Decommitment
Budget Source: Pipeline Operations
Financial ID: 0001
Date: 02/15/2008
Amount: $355660

Action Name: Real Property Acquisition
Financial ID: 0001

Financial Type: Actual Obligation
Budget Source: Pipeline Operations
Date: 02/15/2008
Amount: $355660

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0059
Date: 02/19/2008
Amount: $179894

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 02/19/2008
Amount: $123902

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0201
Date: 02/19/2008
Amount: $106472

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0202
Date: 02/19/2008
Amount: $29578

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0203
Date: 02/19/2008
Amount: $6149

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0061
Date: 02/19/2008
Amount: $179894

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0009
Date: 02/19/2008
Amount: $123902

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0198
Date: 02/19/2008
Amount: $106472

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0199
Date: 02/19/2008
Amount: $29578

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0200
Date: 02/19/2008
Amount: $6149

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0017
Date: 02/28/2008
Amount: $11

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0017
Date: 02/28/2008
Amount: $11

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 03/03/2008
Amount: $2112

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0060
Date: 03/03/2008
Amount: $81916

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 03/03/2008
Amount: $79354

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0204
Date: 03/03/2008
Amount: $2730

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 03/03/2008
Amount: $2112

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0062
Date: 03/03/2008
Amount: $81916

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 03/03/2008
Amount: $79354

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0201
Date: 03/03/2008
Amount: $2730

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0205
Date: 03/04/2008
Amount: $28415

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0202
Date: 03/04/2008
Amount: $28415

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0011
Date: 03/18/2008
Amount: $1431

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	03/18/2008
Budget Source:	Remedial	Amount:	$1431
Action Name:	Remedial Design	Financial ID:	0206
Financial Type:	Deobligation	Date:	03/27/2008
Budget Source:	Remedial	Amount:	$114077
Action Name:	Remedial Design	Financial ID:	0203
Financial Type:	Extramural Outlay (Payment)	Date:	03/27/2008
Budget Source:	Remedial	Amount:	$114077
Action Name:	Remedial Design	Financial ID:	0207
Financial Type:	Deobligation	Date:	03/28/2008
Budget Source:	Remedial	Amount:	$14745
Action Name:	Remedial Design	Financial ID:	0208
Financial Type:	Deobligation	Date:	03/28/2008
Budget Source:	Remedial	Amount:	$18127
Action Name:	Remedial Design	Financial ID:	0204
Financial Type:	Extramural Outlay (Payment)	Date:	03/28/2008
Budget Source:	Remedial	Amount:	$14745
Action Name:	Remedial Design	Financial ID:	0205
Financial Type:	Extramural Outlay (Payment)	Date:	03/28/2008
Budget Source:	Remedial	Amount:	$18127
Action Name:	PRP Remedial Design	Financial ID:	0061
Financial Type:	Deobligation	Date:	03/31/2008
Budget Source:	Remedial	Amount:	$1585
Action Name:	PRP Remedial Action	Financial ID:	0011
Financial Type:	Deobligation	Date:	03/31/2008
Budget Source:	Remedial	Amount:	$46548
Action Name:	Remedial Design	Financial ID:	0209
Financial Type:	Deobligation	Date:	03/31/2008
Budget Source:	Remedial	Amount:	$4442
Action Name:	PRP Remedial Design	Financial ID:	0063
Financial Type:	Extramural Outlay (Payment)	Date:	03/31/2008
Budget Source:	Remedial	Amount:	$1585
Action Name:	PRP Remedial Action	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	03/31/2008

Budget Source: Remedial Amount: $46548

Action Name: Remedial Design Financial ID: 0206
Financial Type: Extramural Outlay (Payment) Date: 03/31/2008
Budget Source: Remedial Amount: $4442

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0012
Financial Type: Deobligation Date: 04/22/2008
Budget Source: Remedial Amount: $310

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0012
Financial Type: Extramural Outlay (Payment) Date: 04/22/2008
Budget Source: Remedial Amount: $310

Action Name: Remedial Design Financial ID: 0210
Financial Type: Deobligation Date: 04/29/2008
Budget Source: Remedial Amount: $99480

Action Name: Remedial Design Financial ID: 0207
Financial Type: Extramural Outlay (Payment) Date: 04/29/2008
Budget Source: Remedial Amount: $99480

Action Name: Removal Assessment Financial ID: 0018
Financial Type: Deobligation Date: 05/02/2008
Budget Source: Removal Amount: $10

Action Name: Removal Assessment Financial ID: 0018
Financial Type: Extramural Outlay (Payment) Date: 05/02/2008
Budget Source: Removal Amount: $10

Action Name: Remedial Action Financial ID: 0001
Financial Type: Commitment Date: 05/09/2008
Budget Source: Remedial Amount: $5989563

Action Name: Remedial Action Financial ID: 0001
Financial Type: Decommitment Date: 05/21/2008
Budget Source: Remedial Amount: $5989563

Action Name: Remedial Action Financial ID: 0001
Financial Type: Actual Obligation Date: 05/21/2008
Budget Source: Remedial Amount: $5989563

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0013
Financial Type: Deobligation Date: 05/22/2008
Budget Source: Remedial Amount: $9263

Action Name: Remedial Design Financial ID: 0211

Financial Type: Deobligation
Budget Source: Remedial
Date: 05/22/2008
Amount: $29684

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0212
Date: 05/22/2008
Amount: $104313

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0013
Date: 05/22/2008
Amount: $9263

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0208
Date: 05/22/2008
Amount: $29684

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0209
Date: 05/22/2008
Amount: $104313

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0019
Date: 05/29/2008
Amount: $2

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0019
Date: 05/29/2008
Amount: $2

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0213
Date: 06/03/2008
Amount: $55576

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0210
Date: 06/03/2008
Amount: $55576

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0062
Date: 06/09/2008
Amount: $75502

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0012
Date: 06/09/2008
Amount: $129377

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0214
Date: 06/09/2008
Amount: $1682

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0215
Date: 06/09/2008
Amount: $3900

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0064
Date: 06/09/2008
Amount: $75502

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0012
Date: 06/09/2008
Amount: $129377

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0211
Date: 06/09/2008
Amount: $1682

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0212
Date: 06/09/2008
Amount: $3900

Action Name: Real Property Acquisition
Financial Type: Deobligation
Budget Source: Pipeline Operations
Financial ID: 0001
Date: 06/17/2008
Amount: $355660

Action Name: Real Property Acquisition
Financial Type: Extramural Outlay (Payment)
Budget Source: Pipeline Operations
Financial ID: 0001
Date: 06/17/2008
Amount: $355660

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0021
Date: 06/18/2008
Amount: $2000000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0002
Date: 06/19/2008
Amount: $120000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0014
Date: 06/24/2008
Amount: $3828

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0014
Date: 06/24/2008
Amount: $3828

Action Name: Community Involvement
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0003
Date: 06/26/2008
Amount: $509

Action Name:	PRP Remedial Design	Financial ID:	0063
Financial Type:	Deobligation	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$29212
Action Name:	PRP Remedial Action	Financial ID:	0013
Financial Type:	Deobligation	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$138821
Action Name:	Remedial Design	Financial ID:	0216
Financial Type:	Deobligation	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$6413
Action Name:	Remedial Design	Financial ID:	0217
Financial Type:	Deobligation	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$158178
Action Name:	PRP Remedial Design	Financial ID:	0065
Financial Type:	Extramural Outlay (Payment)	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$29212
Action Name:	PRP Remedial Action	Financial ID:	0013
Financial Type:	Extramural Outlay (Payment)	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$138821
Action Name:	Remedial Design	Financial ID:	0213
Financial Type:	Extramural Outlay (Payment)	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$6413
Action Name:	Remedial Design	Financial ID:	0214
Financial Type:	Extramural Outlay (Payment)	Date:	06/26/2008
Budget Source:	Remedial	Amount:	$158178
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0131
Financial Type:	Deobligation	Date:	06/27/2008
Budget Source:	Remedial	Amount:	$337
Action Name:	Remedial Action	Financial ID:	0038
Financial Type:	Deobligation	Date:	06/27/2008
Budget Source:	Remedial	Amount:	$91151
Action Name:	Removal Assessment	Financial ID:	0053
Financial Type:	Deobligation	Date:	06/27/2008
Budget Source:	Removal	Amount:	$7679
Action Name:	Removal Assessment	Financial ID:	0054
Financial Type:	Deobligation	Date:	06/27/2008

Budget Source: Removal
Amount: $337

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0218
Date: 07/08/2008
Amount: $70642

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0215
Date: 07/08/2008
Amount: $70642

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0022
Date: 07/10/2008
Amount: $2000000

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0019
Date: 07/10/2008
Amount: $2000000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0064
Date: 07/15/2008
Amount: $373

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0014
Date: 07/15/2008
Amount: $22073

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0219
Date: 07/15/2008
Amount: $3849

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0066
Date: 07/15/2008
Amount: $373

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0014
Date: 07/15/2008
Amount: $22073

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0216
Date: 07/15/2008
Amount: $3849

Action Name: Community Involvement
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 07/18/2008
Amount: $509

Action Name: Community Involvement
Financial ID: 0009

Financial Type: Extramural Outlay (Payment) Date: 07/18/2008
Budget Source: Remedial Amount: $509

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0015
Financial Type: Deobligation Date: 07/23/2008
Budget Source: Remedial Amount: $1394

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0015
Financial Type: Extramural Outlay (Payment) Date: 07/23/2008
Budget Source: Remedial Amount: $1394

Action Name: Removal Assessment Financial ID: 0020
Financial Type: Deobligation Date: 07/28/2008
Budget Source: Removal Amount: $5

Action Name: Removal Assessment Financial ID: 0020
Financial Type: Extramural Outlay (Payment) Date: 07/28/2008
Budget Source: Removal Amount: $5

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0003
Financial Type: Commitment Date: 08/01/2008
Budget Source: Remedial Amount: $1010000

Action Name: Remedial Design Financial ID: 0220
Financial Type: Deobligation Date: 08/01/2008
Budget Source: Remedial Amount: $126144

Action Name: Remedial Design Financial ID: 0221
Financial Type: Deobligation Date: 08/01/2008
Budget Source: Remedial Amount: $113829

Action Name: Remedial Design Financial ID: 0217
Financial Type: Extramural Outlay (Payment) Date: 08/01/2008
Budget Source: Remedial Amount: $126144

Action Name: Remedial Design Financial ID: 0218
Financial Type: Extramural Outlay (Payment) Date: 08/01/2008
Budget Source: Remedial Amount: $113829

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0004
Financial Type: Commitment Date: 09/03/2008
Budget Source: Remedial Amount: $100000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0002
Financial Type: Decommitment Date: 09/03/2008
Budget Source: Remedial Amount: $120000

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	09/03/2008
Budget Source:	Remedial	Amount:	$120000
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Deobligation	Date:	09/03/2008
Budget Source:	Remedial	Amount:	$21000
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	09/03/2008
Budget Source:	Remedial	Amount:	$21000
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0016
Financial Type:	Deobligation	Date:	09/04/2008
Budget Source:	Remedial	Amount:	$4102
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0016
Financial Type:	Extramural Outlay (Payment)	Date:	09/04/2008
Budget Source:	Remedial	Amount:	$4102
Action Name:	Remedial Design	Financial ID:	0222
Financial Type:	Deobligation	Date:	09/08/2008
Budget Source:	Remedial	Amount:	$96197
Action Name:	Remedial Design	Financial ID:	0219
Financial Type:	Extramural Outlay (Payment)	Date:	09/08/2008
Budget Source:	Remedial	Amount:	$96197
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0003
Financial Type:	Decommitment	Date:	09/09/2008
Budget Source:	Remedial	Amount:	$100000
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	09/09/2008
Budget Source:	Remedial	Amount:	$100000
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Deobligation	Date:	09/09/2008
Budget Source:	Remedial	Amount:	$10629
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	09/09/2008
Budget Source:	Remedial	Amount:	$10629
Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Deobligation	Date:	09/10/2008
Budget Source:	Remedial	Amount:	$33124

Action Name:	PRP Remedial Design	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	09/10/2008
Budget Source:	Remedial	Amount:	$33124
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Commitment	Date:	09/11/2008
Budget Source:	Remedial	Amount:	$2482762
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0004
Financial Type:	Decommitment	Date:	09/16/2008
Budget Source:	Remedial	Amount:	$1010000
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0004
Financial Type:	Actual Obligation	Date:	09/16/2008
Budget Source:	Remedial	Amount:	$1010000
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0017
Financial Type:	Deobligation	Date:	09/19/2008
Budget Source:	Remedial	Amount:	$11282
Action Name:	Remedial Design	Financial ID:	0223
Financial Type:	Deobligation	Date:	09/19/2008
Budget Source:	Remedial	Amount:	$190816
Action Name:	Remedial Design	Financial ID:	0224
Financial Type:	Deobligation	Date:	09/19/2008
Budget Source:	Remedial	Amount:	$28931
Action Name:	Remedial Design	Financial ID:	0225
Financial Type:	Deobligation	Date:	09/19/2008
Budget Source:	Remedial	Amount:	$159008
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0017
Financial Type:	Extramural Outlay (Payment)	Date:	09/19/2008
Budget Source:	Remedial	Amount:	$11282
Action Name:	Remedial Design	Financial ID:	0220
Financial Type:	Extramural Outlay (Payment)	Date:	09/19/2008
Budget Source:	Remedial	Amount:	$190816
Action Name:	Remedial Design	Financial ID:	0221
Financial Type:	Extramural Outlay (Payment)	Date:	09/19/2008
Budget Source:	Remedial	Amount:	$28931
Action Name:	Remedial Design	Financial ID:	0222
Financial Type:	Extramural Outlay (Payment)	Date:	09/19/2008

Budget Source: Remedial
Amount: $159008

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0022
Date: 09/23/2008
Amount: $30000

Action Name: Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0023
Date: 09/25/2008
Amount: $30000

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0020
Date: 09/25/2008
Amount: $19525

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0065
Date: 09/26/2008
Amount: $68241

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0066
Date: 09/26/2008
Amount: $2063

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0067
Date: 09/26/2008
Amount: $67095

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0068
Date: 09/26/2008
Amount: $2589

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0015
Date: 09/26/2008
Amount: $64392

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0016
Date: 09/26/2008
Amount: $124882

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0017
Date: 09/26/2008
Amount: $30061

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0018
Date: 09/26/2008
Amount: $68896

Action Name: Remedial Action
Financial ID: 0002

Financial Type: Deobligation
Budget Source: Remedial
Date: 09/26/2008
Amount: $18531

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0226
Date: 09/26/2008
Amount: $18000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0227
Date: 09/26/2008
Amount: $1202

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0228
Date: 09/26/2008
Amount: $5839

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0267
Date: 09/26/2008
Amount: $1626

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0268
Date: 09/26/2008
Amount: $5516

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0269
Date: 09/26/2008
Amount: $10858

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0067
Date: 09/26/2008
Amount: $68241

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0068
Date: 09/26/2008
Amount: $2063

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0069
Date: 09/26/2008
Amount: $67095

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0070
Date: 09/26/2008
Amount: $2589

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0015
Date: 09/26/2008
Amount: $124882

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0016
Date: 09/26/2008
Amount: $30061

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0017
Date: 09/26/2008
Amount: $68896

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0018
Date: 09/26/2008
Amount: $64392

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0002
Date: 09/26/2008
Amount: $18531

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0223
Date: 09/26/2008
Amount: $18000

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0224
Date: 09/26/2008
Amount: $1202

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0225
Date: 09/26/2008
Amount: $5839

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0264
Date: 09/26/2008
Amount: $1626

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0265
Date: 09/26/2008
Amount: $5516

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0266
Date: 09/26/2008
Amount: $10858

Action Name: Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0002
Date: 09/29/2008
Amount: $2482762

Action Name: Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0002
Date: 09/29/2008
Amount: $2482762

Action Name:	Remedial Action	Financial ID:	0003
Financial Type:	Deobligation	Date:	09/29/2008
Budget Source:	Remedial	Amount:	$5565
Action Name:	Remedial Action	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	09/29/2008
Budget Source:	Remedial	Amount:	$5565
Action Name:	Remedial Action	Financial ID:	0004
Financial Type:	Deobligation	Date:	10/08/2008
Budget Source:	Remedial	Amount:	$7179
Action Name:	Remedial Action	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	10/08/2008
Budget Source:	Remedial	Amount:	$7179
Action Name:	Combined RI/FS	Financial ID:	0158
Financial Type:	Deobligation	Date:	10/16/2008
Budget Source:	Remedial	Amount:	$50564
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Deobligation	Date:	10/16/2008
Budget Source:	Remedial	Amount:	$15257
Action Name:	Combined RI/FS	Financial ID:	0145
Financial Type:	Extramural Outlay (Payment)	Date:	10/16/2008
Budget Source:	Remedial	Amount:	$50564
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	10/16/2008
Budget Source:	Remedial	Amount:	$15257
Action Name:	Remedial Action	Financial ID:	0005
Financial Type:	Deobligation	Date:	10/21/2008
Budget Source:	Remedial	Amount:	$3470
Action Name:	Remedial Action	Financial ID:	0005
Financial Type:	Extramural Outlay (Payment)	Date:	10/21/2008
Budget Source:	Remedial	Amount:	$3470
Action Name:	Remedial Design	Financial ID:	0229
Financial Type:	Deobligation	Date:	10/27/2008
Budget Source:	Remedial	Amount:	$241239
Action Name:	Remedial Design	Financial ID:	0226
Financial Type:	Extramural Outlay (Payment)	Date:	10/27/2008

Budget Source: Remedial Amount: $241239

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0018
Financial Type: Deobligation Date: 10/28/2008
Budget Source: Remedial Amount: $14340

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0018
Financial Type: Extramural Outlay (Payment) Date: 10/28/2008
Budget Source: Remedial Amount: $14340

Action Name: Remedial Action Financial ID: 0006
Financial Type: Deobligation Date: 10/30/2008
Budget Source: Remedial Amount: $3450

Action Name: Remedial Action Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 10/30/2008
Budget Source: Remedial Amount: $3450

Action Name: Remedial Action Financial ID: 0007
Financial Type: Deobligation Date: 11/13/2008
Budget Source: Remedial Amount: $7942

Action Name: Remedial Action Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 11/13/2008
Budget Source: Remedial Amount: $7942

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0019
Financial Type: Deobligation Date: 11/14/2008
Budget Source: Remedial Amount: $124

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0021
Financial Type: Deobligation Date: 11/14/2008
Budget Source: Remedial Amount: $1010000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0019
Financial Type: Extramural Outlay (Payment) Date: 11/14/2008
Budget Source: Remedial Amount: $124

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0020
Financial Type: Extramural Outlay (Payment) Date: 11/14/2008
Budget Source: Remedial Amount: $1010000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0005
Financial Type: Actual Obligation Date: 11/17/2008
Budget Source: Remedial Amount: $124

Action Name: Removal Assessment Financial ID: 0006

Financial Type: Actual Obligation
Budget Source: Removal
Date: 11/17/2008
Amount: $124

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0020
Date: 11/17/2008
Amount: $124

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0021
Date: 11/17/2008
Amount: $124

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0021
Date: 11/17/2008
Amount: $124

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0001
Date: 11/17/2008
Amount: $124

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0005
Date: 11/18/2008
Amount: $570180

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0006
Date: 11/18/2008
Amount: $570180

Action Name: Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0023
Date: 11/18/2008
Amount: $1754443

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0005
Date: 11/18/2008
Amount: $570180

Action Name: Technical Assistence
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0002
Date: 11/25/2008
Amount: $2486

Action Name: Technical Assistence
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0002
Date: 11/25/2008
Amount: $2486

Action Name: Technical Assistence
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0002
Date: 11/25/2008
Amount: $2486

Action Name:	Technical Assistence	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	12/02/2008
Budget Source:	Remedial	Amount:	$5373
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0022
Financial Type:	Deobligation	Date:	12/02/2008
Budget Source:	Remedial	Amount:	$7989
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0023
Financial Type:	Deobligation	Date:	12/02/2008
Budget Source:	Remedial	Amount:	$7554
Action Name:	Technical Assistence	Financial ID:	0003
Financial Type:	Deobligation	Date:	12/02/2008
Budget Source:	Remedial	Amount:	$5373
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0021
Financial Type:	Extramural Outlay (Payment)	Date:	12/02/2008
Budget Source:	Remedial	Amount:	$7989
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0022
Financial Type:	Extramural Outlay (Payment)	Date:	12/02/2008
Budget Source:	Remedial	Amount:	$7554
Action Name:	Technical Assistence	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	12/02/2008
Budget Source:	Remedial	Amount:	$5373
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Commitment	Date:	12/03/2008
Budget Source:	Remedial	Amount:	$851150
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0006
Financial Type:	Decommitment	Date:	12/03/2008
Budget Source:	Remedial	Amount:	$570180
Action Name:	Remedial Design	Financial ID:	0024
Financial Type:	Decommitment	Date:	12/03/2008
Budget Source:	Remedial	Amount:	$1754443
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0006
Financial Type:	Actual Obligation	Date:	12/03/2008
Budget Source:	Remedial	Amount:	$570180
Action Name:	Remedial Design	Financial ID:	0021
Financial Type:	Actual Obligation	Date:	12/03/2008
Budget Source:	Remedial	Amount:	$1754443

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0007
Financial Type:	Actual Obligation	Date:	12/04/2008
Budget Source:	Remedial	Amount:	$7554
Action Name:	Removal Assessment	Financial ID:	0007
Financial Type:	Actual Obligation	Date:	12/04/2008
Budget Source:	Removal	Amount:	$7554
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0024
Financial Type:	Deobligation	Date:	12/04/2008
Budget Source:	Remedial	Amount:	$7554
Action Name:	Removal Assessment	Financial ID:	0022
Financial Type:	Deobligation	Date:	12/04/2008
Budget Source:	Removal	Amount:	$7554
Action Name:	Removal Assessment	Financial ID:	0022
Financial Type:	Extramural Outlay (Payment)	Date:	12/04/2008
Budget Source:	Removal	Amount:	$7554
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0002
Financial Type:	Extramural Deoutlay (Credit)	Date:	12/04/2008
Budget Source:	Remedial	Amount:	$7554
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Decommitment	Date:	12/08/2008
Budget Source:	Remedial	Amount:	$851150
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	12/08/2008
Budget Source:	Remedial	Amount:	$851150
Action Name:	Remedial Design	Financial ID:	0230
Financial Type:	Deobligation	Date:	12/09/2008
Budget Source:	Remedial	Amount:	$226533
Action Name:	Remedial Design	Financial ID:	0231
Financial Type:	Deobligation	Date:	12/09/2008
Budget Source:	Remedial	Amount:	$52802
Action Name:	Remedial Design	Financial ID:	0232
Financial Type:	Deobligation	Date:	12/09/2008
Budget Source:	Remedial	Amount:	$201357
Action Name:	Remedial Design	Financial ID:	0227
Financial Type:	Extramural Outlay (Payment)	Date:	12/09/2008

Budget Source: Remedial Amount: $226533

Action Name: Remedial Design Financial ID: 0228
Financial Type: Extramural Outlay (Payment) Date: 12/09/2008
Budget Source: Remedial Amount: $52802

Action Name: Remedial Design Financial ID: 0229
Financial Type: Extramural Outlay (Payment) Date: 12/09/2008
Budget Source: Remedial Amount: $201357

Action Name: PRP Remedial Design Financial ID: 0009
Financial Type: Actual Obligation Date: 12/10/2008
Budget Source: Remedial Amount: $4886

Action Name: Removal Assessment Financial ID: 0023
Financial Type: Deobligation Date: 12/10/2008
Budget Source: Removal Amount: $1

Action Name: Removal Assessment Financial ID: 0023
Financial Type: Extramural Outlay (Payment) Date: 12/10/2008
Budget Source: Removal Amount: $1

Action Name: PRP Remedial Design Financial ID: 0001
Financial Type: Extramural Deoutlay (Credit) Date: 12/10/2008
Budget Source: Remedial Amount: $4886

Action Name: Remedial Action Financial ID: 0008
Financial Type: Deobligation Date: 12/11/2008
Budget Source: Remedial Amount: $3470

Action Name: Remedial Action Financial ID: 0003
Financial Type: Deobligation Date: 12/11/2008
Budget Source: Remedial Amount: $78458

Action Name: Remedial Design Financial ID: 0233
Financial Type: Deobligation Date: 12/11/2008
Budget Source: Remedial Amount: $4221

Action Name: Remedial Design Financial ID: 0234
Financial Type: Deobligation Date: 12/11/2008
Budget Source: Remedial Amount: $21576

Action Name: Remedial Design Financial ID: 0235
Financial Type: Deobligation Date: 12/11/2008
Budget Source: Remedial Amount: $108

Action Name: Remedial Design Financial ID: 0236

Financial Type: Deobligation
Budget Source: Remedial
Date: 12/11/2008
Amount: $11005

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0008
Date: 12/11/2008
Amount: $3470

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 12/11/2008
Amount: $78458

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0230
Date: 12/11/2008
Amount: $4221

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0231
Date: 12/11/2008
Amount: $21576

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0232
Date: 12/11/2008
Amount: $108

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0233
Date: 12/11/2008
Amount: $11005

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 12/23/2008
Amount: $1026757

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0024
Date: 12/23/2008
Amount: $1290

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0004
Date: 12/23/2008
Amount: $1026757

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0024
Date: 12/23/2008
Amount: $1290

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 12/26/2008
Amount: $11412

Action Name:	Remedial Action	Financial ID:	0009
Financial Type:	Extramural Outlay (Payment)	Date:	12/26/2008
Budget Source:	Remedial	Amount:	$11412
Action Name:	Remedial Design	Financial ID:	0237
Financial Type:	Deobligation	Date:	12/30/2008
Budget Source:	Remedial	Amount:	$102259
Action Name:	Remedial Design	Financial ID:	0234
Financial Type:	Extramural Outlay (Payment)	Date:	12/30/2008
Budget Source:	Remedial	Amount:	$102259
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0025
Financial Type:	Deobligation	Date:	01/02/2009
Budget Source:	Remedial	Amount:	$30026
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0026
Financial Type:	Deobligation	Date:	01/02/2009
Budget Source:	Remedial	Amount:	$3075
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0023
Financial Type:	Extramural Outlay (Payment)	Date:	01/02/2009
Budget Source:	Remedial	Amount:	$30026
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0024
Financial Type:	Extramural Outlay (Payment)	Date:	01/02/2009
Budget Source:	Remedial	Amount:	$3075
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0008
Financial Type:	Actual Obligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$3075
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$3075
Action Name:	Technical Assistence	Financial ID:	0004
Financial Type:	Actual Obligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$6252
Action Name:	Technical Assistence	Financial ID:	0005
Financial Type:	Actual Obligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$1021
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0027
Financial Type:	Deobligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$3075

Action Name:	Remedial Action	Financial ID:	0010
Financial Type:	Deobligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$3075
Action Name:	Technical Assistence	Financial ID:	0004
Financial Type:	Deobligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$6252
Action Name:	Technical Assistence	Financial ID:	0005
Financial Type:	Deobligation	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$1021
Action Name:	Remedial Action	Financial ID:	0010
Financial Type:	Extramural Outlay (Payment)	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$3075
Action Name:	Technical Assistence	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$6252
Action Name:	Technical Assistence	Financial ID:	0005
Financial Type:	Extramural Outlay (Payment)	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$1021
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0003
Financial Type:	Extramural Deoutlay (Credit)	Date:	01/07/2009
Budget Source:	Remedial	Amount:	$3075
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0009
Financial Type:	Actual Obligation	Date:	01/08/2009
Budget Source:	Remedial	Amount:	$30026
Action Name:	Remedial Action	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	01/08/2009
Budget Source:	Remedial	Amount:	$30026
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0028
Financial Type:	Deobligation	Date:	01/08/2009
Budget Source:	Remedial	Amount:	$30026
Action Name:	Remedial Action	Financial ID:	0011
Financial Type:	Deobligation	Date:	01/08/2009
Budget Source:	Remedial	Amount:	$30026
Action Name:	Remedial Action	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	01/08/2009

Budget Source: Remedial Amount: $30026

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0004
Financial Type: Extramural Deoutlay (Credit) Date: 01/08/2009
Budget Source: Remedial Amount: $30026

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0029
Financial Type: Deobligation Date: 01/15/2009
Budget Source: Remedial Amount: $3135

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0025
Financial Type: Extramural Outlay (Payment) Date: 01/15/2009
Budget Source: Remedial Amount: $3135

Action Name: Technical Assistence Financial ID: 0006
Financial Type: Actual Obligation Date: 01/20/2009
Budget Source: Remedial Amount: $1072

Action Name: Technical Assistence Financial ID: 0007
Financial Type: Actual Obligation Date: 01/20/2009
Budget Source: Remedial Amount: $1636

Action Name: Technical Assistence Financial ID: 0008
Financial Type: Actual Obligation Date: 01/20/2009
Budget Source: Remedial Amount: $11803

Action Name: Technical Assistence Financial ID: 0006
Financial Type: Deobligation Date: 01/20/2009
Budget Source: Remedial Amount: $1072

Action Name: Technical Assistence Financial ID: 0007
Financial Type: Deobligation Date: 01/20/2009
Budget Source: Remedial Amount: $1636

Action Name: Technical Assistence Financial ID: 0008
Financial Type: Deobligation Date: 01/20/2009
Budget Source: Remedial Amount: $11803

Action Name: Technical Assistence Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 01/20/2009
Budget Source: Remedial Amount: $1072

Action Name: Technical Assistence Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 01/20/2009
Budget Source: Remedial Amount: $1636

Action Name: Technical Assistence Financial ID: 0008

Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Date: 01/20/2009
Amount: $11803

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0238
Date: 01/21/2009
Amount: $65642

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0235
Date: 01/21/2009
Amount: $65642

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0002
Date: 01/22/2009
Amount: $19226

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0002
Date: 01/22/2009
Amount: $19226

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0005
Date: 01/27/2009
Amount: $1415253

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0005
Date: 01/27/2009
Amount: $1415253

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0069
Date: 02/02/2009
Amount: $121113

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0019
Date: 02/02/2009
Amount: $100948

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0020
Date: 02/02/2009
Amount: $15418

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0025
Date: 02/02/2009
Amount: $303

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0071
Date: 02/02/2009
Amount: $121113

Action Name:	PRP Remedial Action	Financial ID:	0019
Financial Type:	Extramural Outlay (Payment)	Date:	02/02/2009
Budget Source:	Remedial	Amount:	$100948
Action Name:	PRP Remedial Action	Financial ID:	0020
Financial Type:	Extramural Outlay (Payment)	Date:	02/02/2009
Budget Source:	Remedial	Amount:	$15418
Action Name:	Removal Assessment	Financial ID:	0025
Financial Type:	Extramural Outlay (Payment)	Date:	02/02/2009
Budget Source:	Removal	Amount:	$303
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0030
Financial Type:	Deobligation	Date:	02/05/2009
Budget Source:	Remedial	Amount:	$31558
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0031
Financial Type:	Deobligation	Date:	02/05/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0026
Financial Type:	Extramural Outlay (Payment)	Date:	02/05/2009
Budget Source:	Remedial	Amount:	$31558
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0027
Financial Type:	Extramural Outlay (Payment)	Date:	02/05/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0010
Financial Type:	Actual Obligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$31558
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0011
Financial Type:	Actual Obligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	Remedial Action	Financial ID:	0004
Financial Type:	Actual Obligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$31558
Action Name:	Remedial Action	Financial ID:	0005
Financial Type:	Actual Obligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0032
Financial Type:	Deobligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$31558

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0033
Financial Type:	Deobligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	Remedial Action	Financial ID:	0012
Financial Type:	Deobligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$31558
Action Name:	Remedial Action	Financial ID:	0013
Financial Type:	Deobligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	Remedial Action	Financial ID:	0014
Financial Type:	Deobligation	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$9060
Action Name:	Remedial Action	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$31558
Action Name:	Remedial Action	Financial ID:	0013
Financial Type:	Extramural Outlay (Payment)	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	Remedial Action	Financial ID:	0014
Financial Type:	Extramural Outlay (Payment)	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$9060
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0005
Financial Type:	Extramural Deoutlay (Credit)	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$31558
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0006
Financial Type:	Extramural Deoutlay (Credit)	Date:	02/06/2009
Budget Source:	Remedial	Amount:	$6024
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0034
Financial Type:	Deobligation	Date:	02/09/2009
Budget Source:	Remedial	Amount:	$4519
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0035
Financial Type:	Deobligation	Date:	02/09/2009
Budget Source:	Remedial	Amount:	$1234
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0028
Financial Type:	Extramural Outlay (Payment)	Date:	02/09/2009

Budget Source: Remedial Amount: $1234

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0029
Financial Type: Extramural Outlay (Payment) Date: 02/09/2009
Budget Source: Remedial Amount: $4519

Action Name: PRP Remedial Design Financial ID: 0070
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $425

Action Name: PRP Remedial Design Financial ID: 0071
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $8153

Action Name: PRP Remedial Action Financial ID: 0021
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $96303

Action Name: PRP Remedial Action Financial ID: 0022
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $70550

Action Name: Remedial Action Financial ID: 0015
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $2120

Action Name: Remedial Action Financial ID: 0006
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $1835134

Action Name: Remedial Design Financial ID: 0239
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $28181

Action Name: Remedial Design Financial ID: 0240
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $12855

Action Name: Remedial Design Financial ID: 0241
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $9625

Action Name: Remedial Design Financial ID: 0242
Financial Type: Deobligation Date: 02/24/2009
Budget Source: Remedial Amount: $9900

Action Name: PRP Remedial Design Financial ID: 0072

Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Date: 02/24/2009
Amount: $425

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0073
Date: 02/24/2009
Amount: $8153

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0021
Date: 02/24/2009
Amount: $96303

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0022
Date: 02/24/2009
Amount: $70550

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0015
Date: 02/24/2009
Amount: $2120

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0006
Date: 02/24/2009
Amount: $1835134

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0236
Date: 02/24/2009
Amount: $28181

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0237
Date: 02/24/2009
Amount: $12855

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0238
Date: 02/24/2009
Amount: $9625

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0239
Date: 02/24/2009
Amount: $9900

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0023
Date: 02/25/2009
Amount: $14115

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0243
Date: 02/25/2009
Amount: $20772

Action Name:	Removal Assessment	Financial ID:	0026
Financial Type:	Deobligation	Date:	02/25/2009
Budget Source:	Removal	Amount:	$700
Action Name:	PRP Remedial Action	Financial ID:	0023
Financial Type:	Extramural Outlay (Payment)	Date:	02/25/2009
Budget Source:	Remedial	Amount:	$14115
Action Name:	Remedial Design	Financial ID:	0240
Financial Type:	Extramural Outlay (Payment)	Date:	02/25/2009
Budget Source:	Remedial	Amount:	$20772
Action Name:	Removal Assessment	Financial ID:	0026
Financial Type:	Extramural Outlay (Payment)	Date:	02/25/2009
Budget Source:	Removal	Amount:	$700
Action Name:	Remedial Design	Financial ID:	0244
Financial Type:	Deobligation	Date:	02/27/2009
Budget Source:	Remedial	Amount:	$92605
Action Name:	Remedial Design	Financial ID:	0241
Financial Type:	Extramural Outlay (Payment)	Date:	02/27/2009
Budget Source:	Remedial	Amount:	$92605
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0036
Financial Type:	Deobligation	Date:	03/02/2009
Budget Source:	Remedial	Amount:	$293
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0030
Financial Type:	Extramural Outlay (Payment)	Date:	03/02/2009
Budget Source:	Remedial	Amount:	$293
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0037
Financial Type:	Deobligation	Date:	03/03/2009
Budget Source:	Remedial	Amount:	$14652
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0031
Financial Type:	Extramural Outlay (Payment)	Date:	03/03/2009
Budget Source:	Remedial	Amount:	$14652
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0012
Financial Type:	Actual Obligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$293
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0013
Financial Type:	Actual Obligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$14652

Action Name:	Remedial Action	Financial ID:	0006
Financial Type:	Actual Obligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$14652
Action Name:	Remedial Action	Financial ID:	0007
Financial Type:	Actual Obligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$293
Action Name:	Removal Assessment	Financial ID:	0008
Financial Type:	Actual Obligation	Date:	03/06/2009
Budget Source:	Removal	Amount:	$337
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0038
Financial Type:	Deobligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$14652
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0039
Financial Type:	Deobligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$293
Action Name:	Remedial Action	Financial ID:	0016
Financial Type:	Deobligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$14652
Action Name:	Remedial Action	Financial ID:	0017
Financial Type:	Deobligation	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$293
Action Name:	Removal Assessment	Financial ID:	0027
Financial Type:	Deobligation	Date:	03/06/2009
Budget Source:	Removal	Amount:	$337
Action Name:	Remedial Action	Financial ID:	0016
Financial Type:	Extramural Outlay (Payment)	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$14652
Action Name:	Remedial Action	Financial ID:	0017
Financial Type:	Extramural Outlay (Payment)	Date:	03/06/2009
Budget Source:	Remedial	Amount:	$293
Action Name:	Removal Assessment	Financial ID:	0027
Financial Type:	Extramural Outlay (Payment)	Date:	03/06/2009
Budget Source:	Removal	Amount:	$337
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0007
Financial Type:	Extramural Deoutlay (Credit)	Date:	03/06/2009

Budget Source: Remedial Amount: $293

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0008
Financial Type: Extramural Deoutlay (Credit) Date: 03/06/2009
Budget Source: Remedial Amount: $14652

Action Name: Remedial Design Financial ID: 0245
Financial Type: Deobligation Date: 03/10/2009
Budget Source: Remedial Amount: $8912

Action Name: Remedial Design Financial ID: 0246
Financial Type: Deobligation Date: 03/10/2009
Budget Source: Remedial Amount: $135843

Action Name: Remedial Design Financial ID: 0242
Financial Type: Extramural Outlay (Payment) Date: 03/10/2009
Budget Source: Remedial Amount: $8912

Action Name: Remedial Design Financial ID: 0243
Financial Type: Extramural Outlay (Payment) Date: 03/10/2009
Budget Source: Remedial Amount: $135843

Action Name: Remedial Design Financial ID: 0247
Financial Type: Deobligation Date: 03/16/2009
Budget Source: Remedial Amount: $51970

Action Name: Remedial Design Financial ID: 0244
Financial Type: Extramural Outlay (Payment) Date: 03/16/2009
Budget Source: Remedial Amount: $51970

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0040
Financial Type: Deobligation Date: 03/24/2009
Budget Source: Remedial Amount: $69244

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0041
Financial Type: Deobligation Date: 03/24/2009
Budget Source: Remedial Amount: $46237

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0042
Financial Type: Deobligation Date: 03/24/2009
Budget Source: Remedial Amount: $175430

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0032
Financial Type: Extramural Outlay (Payment) Date: 03/24/2009
Budget Source: Remedial Amount: $69244

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0033

Financial Type: Extramural Outlay (Payment) Date: 03/24/2009
Budget Source: Remedial Amount: $46237

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0034
Financial Type: Extramural Outlay (Payment) Date: 03/24/2009
Budget Source: Remedial Amount: $175430

Action Name: Remedial Action Financial ID: 0002
Financial Type: Commitment Date: 03/25/2009
Budget Source: Remedial Amount: $748545

Action Name: Remedial Design Financial ID: 0248
Financial Type: Deobligation Date: 03/25/2009
Budget Source: Remedial Amount: $50430

Action Name: Remedial Design Financial ID: 0245
Financial Type: Extramural Outlay (Payment) Date: 03/25/2009
Budget Source: Remedial Amount: $50430

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0043
Financial Type: Deobligation Date: 03/26/2009
Budget Source: Remedial Amount: $962

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0044
Financial Type: Deobligation Date: 03/26/2009
Budget Source: Remedial Amount: $337

Action Name: Remedial Action Financial ID: 0007
Financial Type: Deobligation Date: 03/26/2009
Budget Source: Remedial Amount: $1432483

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0035
Financial Type: Extramural Outlay (Payment) Date: 03/26/2009
Budget Source: Remedial Amount: $962

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0036
Financial Type: Extramural Outlay (Payment) Date: 03/26/2009
Budget Source: Remedial Amount: $337

Action Name: Remedial Action Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 03/26/2009
Budget Source: Remedial Amount: $1432483

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0014
Financial Type: Actual Obligation Date: 03/31/2009
Budget Source: Remedial Amount: $962

Action Name:	Remedial Action	Financial ID:	0018
Financial Type:	Deobligation	Date:	03/31/2009
Budget Source:	Remedial	Amount:	$962
Action Name:	Remedial Action	Financial ID:	0018
Financial Type:	Extramural Outlay (Payment)	Date:	03/31/2009
Budget Source:	Remedial	Amount:	$962
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0009
Financial Type:	Extramural Deoutlay (Credit)	Date:	03/31/2009
Budget Source:	Remedial	Amount:	$962
Action Name:	Remedial Action	Financial ID:	0008
Financial Type:	Actual Obligation	Date:	04/01/2009
Budget Source:	Remedial	Amount:	$962
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0045
Financial Type:	Deobligation	Date:	04/01/2009
Budget Source:	Remedial	Amount:	$962
Action Name:	PRP Remedial Action	Financial ID:	0002
Financial Type:	Commitment	Date:	04/10/2009
Budget Source:	Remedial	Amount:	$100000
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Decommitment	Date:	04/15/2009
Budget Source:	Remedial	Amount:	$748545
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	04/15/2009
Budget Source:	Remedial	Amount:	$748545
Action Name:	Remedial Design	Financial ID:	0249
Financial Type:	Deobligation	Date:	04/23/2009
Budget Source:	Remedial	Amount:	$164953
Action Name:	Remedial Design	Financial ID:	0250
Financial Type:	Deobligation	Date:	04/23/2009
Budget Source:	Remedial	Amount:	$17708
Action Name:	Remedial Design	Financial ID:	0246
Financial Type:	Extramural Outlay (Payment)	Date:	04/23/2009
Budget Source:	Remedial	Amount:	$164953
Action Name:	Remedial Design	Financial ID:	0247
Financial Type:	Extramural Outlay (Payment)	Date:	04/23/2009
Budget Source:	Remedial	Amount:	$17708

Action Name:	PRP Remedial Action	Financial ID:	0002
Financial Type:	Decommitment	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$3000
Action Name:	PRP Remedial Action	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$3000
Action Name:	PRP Remedial Action	Financial ID:	0019
Financial Type:	Actual Obligation	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$566
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0046
Financial Type:	Deobligation	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$3954
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0047
Financial Type:	Deobligation	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$229
Action Name:	PRP Remedial Action	Financial ID:	0097
Financial Type:	Deobligation	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$6260
Action Name:	Removal Assessment	Financial ID:	0028
Financial Type:	Deobligation	Date:	05/01/2009
Budget Source:	Removal	Amount:	$652
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0037
Financial Type:	Extramural Outlay (Payment)	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$3954
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0038
Financial Type:	Extramural Outlay (Payment)	Date:	05/01/2009
Budget Source:	Remedial	Amount:	$229
Action Name:	Removal Assessment	Financial ID:	0028
Financial Type:	Extramural Outlay (Payment)	Date:	05/01/2009
Budget Source:	Removal	Amount:	$652
Action Name:	Remedial Design	Financial ID:	0251
Financial Type:	Deobligation	Date:	05/04/2009
Budget Source:	Remedial	Amount:	$133278
Action Name:	Remedial Design	Financial ID:	0252
Financial Type:	Deobligation	Date:	05/04/2009

Budget Source: Remedial Amount: $26530

Action Name: Remedial Design Financial ID: 0253
Financial Type: Deobligation Date: 05/04/2009
Budget Source: Remedial Amount: $833

Action Name: Remedial Design Financial ID: 0254
Financial Type: Deobligation Date: 05/04/2009
Budget Source: Remedial Amount: $114946

Action Name: Remedial Design Financial ID: 0248
Financial Type: Extramural Outlay (Payment) Date: 05/04/2009
Budget Source: Remedial Amount: $133278

Action Name: Remedial Design Financial ID: 0249
Financial Type: Extramural Outlay (Payment) Date: 05/04/2009
Budget Source: Remedial Amount: $26530

Action Name: Remedial Design Financial ID: 0250
Financial Type: Extramural Outlay (Payment) Date: 05/04/2009
Budget Source: Remedial Amount: $833

Action Name: Remedial Design Financial ID: 0251
Financial Type: Extramural Outlay (Payment) Date: 05/04/2009
Budget Source: Remedial Amount: $114946

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0015
Financial Type: Actual Obligation Date: 05/05/2009
Budget Source: Remedial Amount: $3954

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0016
Financial Type: Actual Obligation Date: 05/05/2009
Budget Source: Remedial Amount: $229

Action Name: Remedial Action Financial ID: 0009
Financial Type: Actual Obligation Date: 05/05/2009
Budget Source: Remedial Amount: $3954

Action Name: Remedial Action Financial ID: 0010
Financial Type: Actual Obligation Date: 05/05/2009
Budget Source: Remedial Amount: $229

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0048
Financial Type: Deobligation Date: 05/05/2009
Budget Source: Remedial Amount: $3954

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0049

Financial Type: Deobligation
Budget Source: Remedial
Date: 05/05/2009
Amount: $229

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0019
Date: 05/05/2009
Amount: $229

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0020
Date: 05/05/2009
Amount: $3954

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0001
Date: 05/05/2009
Amount: $34950

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0019
Date: 05/05/2009
Amount: $229

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0020
Date: 05/05/2009
Amount: $3954

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0001
Date: 05/05/2009
Amount: $34950

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0010
Date: 05/05/2009
Amount: $3954

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0011
Date: 05/05/2009
Amount: $229

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0008
Date: 05/11/2009
Amount: $165221

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 05/11/2009
Amount: $73217

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0008
Date: 05/11/2009
Amount: $165221

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0009
Date: 05/11/2009
Amount: $73217

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0050
Date: 05/18/2009
Amount: $14640

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0024
Date: 05/18/2009
Amount: $19834

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0025
Date: 05/18/2009
Amount: $13639

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0026
Date: 05/18/2009
Amount: $124372

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0039
Date: 05/18/2009
Amount: $14640

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0024
Date: 05/18/2009
Amount: $19834

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0025
Date: 05/18/2009
Amount: $13639

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0026
Date: 05/18/2009
Amount: $124372

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 05/26/2009
Amount: $775737

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 05/26/2009
Amount: $775737

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0072
Date: 05/27/2009
Amount: $3084

Action Name:	Remedial Design	Financial ID:	0255
Financial Type:	Deobligation	Date:	05/27/2009
Budget Source:	Remedial	Amount:	$22992
Action Name:	PRP Remedial Design	Financial ID:	0074
Financial Type:	Extramural Outlay (Payment)	Date:	05/27/2009
Budget Source:	Remedial	Amount:	$3084
Action Name:	Remedial Design	Financial ID:	0252
Financial Type:	Extramural Outlay (Payment)	Date:	05/27/2009
Budget Source:	Remedial	Amount:	$22992
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0051
Financial Type:	Deobligation	Date:	06/04/2009
Budget Source:	Remedial	Amount:	$9
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0052
Financial Type:	Deobligation	Date:	06/04/2009
Budget Source:	Remedial	Amount:	$48
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0040
Financial Type:	Extramural Outlay (Payment)	Date:	06/04/2009
Budget Source:	Remedial	Amount:	$9
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0041
Financial Type:	Extramural Outlay (Payment)	Date:	06/04/2009
Budget Source:	Remedial	Amount:	$48
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Deobligation	Date:	06/05/2009
Budget Source:	Remedial	Amount:	$635616
Action Name:	Remedial Action	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	06/05/2009
Budget Source:	Remedial	Amount:	$635616
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0053
Financial Type:	Deobligation	Date:	06/09/2009
Budget Source:	Remedial	Amount:	$183453
Action Name:	PRP Remedial Action	Financial ID:	0027
Financial Type:	Deobligation	Date:	06/09/2009
Budget Source:	Remedial	Amount:	$21206
Action Name:	Remedial Design	Financial ID:	0256
Financial Type:	Deobligation	Date:	06/09/2009

Budget Source: Remedial
Amount: $144088

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0257
Date: 06/09/2009
Amount: $218972

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0042
Date: 06/09/2009
Amount: $183453

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0027
Date: 06/09/2009
Amount: $21206

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0253
Date: 06/09/2009
Amount: $144088

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0254
Date: 06/09/2009
Amount: $218972

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0007
Date: 06/11/2009
Amount: $100000

Action Name: PRP Remedial Action
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0003
Date: 06/17/2009
Amount: $9412172

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0008
Date: 06/18/2009
Amount: $1035000

Action Name: PRP Remedial Design
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0002
Date: 06/18/2009
Amount: $610000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0017
Date: 06/18/2009
Amount: $9

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0018
Date: 06/18/2009
Amount: $48

Action Name: Remedial Action
Financial ID: 0011

Financial Type: Actual Obligation
Budget Source: Remedial
Date: 06/18/2009
Amount: $9

Action Name: Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0012
Date: 06/18/2009
Amount: $48

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0054
Date: 06/18/2009
Amount: $9

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0055
Date: 06/18/2009
Amount: $48

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0021
Date: 06/18/2009
Amount: $48

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0022
Date: 06/18/2009
Amount: $9

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0021
Date: 06/18/2009
Amount: $48

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0022
Date: 06/18/2009
Amount: $9

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0012
Date: 06/18/2009
Amount: $9

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0013
Date: 06/18/2009
Amount: $48

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0258
Date: 06/23/2009
Amount: $17127

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0259
Date: 06/23/2009
Amount: $189711

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0255
Date: 06/23/2009
Amount: $17127

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0256
Date: 06/23/2009
Amount: $189711

Action Name: PRP Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0003
Date: 06/24/2009
Amount: $9412172

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0003
Date: 06/24/2009
Amount: $9412172

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0056
Date: 06/24/2009
Amount: $242

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0057
Date: 06/24/2009
Amount: $77

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0043
Date: 06/24/2009
Amount: $242

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0044
Date: 06/24/2009
Amount: $77

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0003
Date: 06/25/2009
Amount: $58943

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 06/25/2009
Amount: $58943

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0007
Date: 06/26/2009
Amount: $1035000

Action Name: PRP Remedial Design
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0002
Date: 06/26/2009
Amount: $610000

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0019
Financial Type:	Actual Obligation	Date:	06/26/2009
Budget Source:	Remedial	Amount:	$1035000
Action Name:	PRP Remedial Design	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	06/26/2009
Budget Source:	Remedial	Amount:	$610000
Action Name:	Remedial Action	Financial ID:	0011
Financial Type:	Deobligation	Date:	06/29/2009
Budget Source:	Remedial	Amount:	$46688
Action Name:	Remedial Action	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	06/29/2009
Budget Source:	Remedial	Amount:	$46688
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0020
Financial Type:	Actual Obligation	Date:	07/02/2009
Budget Source:	Remedial	Amount:	$242
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0021
Financial Type:	Actual Obligation	Date:	07/02/2009
Budget Source:	Remedial	Amount:	$77
Action Name:	Remedial Action	Financial ID:	0013
Financial Type:	Actual Obligation	Date:	07/02/2009
Budget Source:	Remedial	Amount:	$242
Action Name:	Remedial Action	Financial ID:	0014
Financial Type:	Actual Obligation	Date:	07/02/2009
Budget Source:	Remedial	Amount:	$77
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0058
Financial Type:	Deobligation	Date:	07/02/2009
Budget Source:	Remedial	Amount:	$242
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0059
Financial Type:	Deobligation	Date:	07/02/2009
Budget Source:	Remedial	Amount:	$77
Action Name:	Remedial Action	Financial ID:	0023
Financial Type:	Deobligation	Date:	07/02/2009
Budget Source:	Remedial	Amount:	$242
Action Name:	Remedial Action	Financial ID:	0024
Financial Type:	Deobligation	Date:	07/02/2009

Budget Source: Remedial Amount: $77

Action Name: Remedial Action Financial ID: 0023
Financial Type: Extramural Outlay (Payment) Date: 07/02/2009
Budget Source: Remedial Amount: $242

Action Name: Remedial Action Financial ID: 0024
Financial Type: Extramural Outlay (Payment) Date: 07/02/2009
Budget Source: Remedial Amount: $77

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0014
Financial Type: Extramural Deoutlay (Credit) Date: 07/02/2009
Budget Source: Remedial Amount: $242

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0015
Financial Type: Extramural Deoutlay (Credit) Date: 07/02/2009
Budget Source: Remedial Amount: $77

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0008
Financial Type: Decommitment Date: 07/06/2009
Budget Source: Remedial Amount: $100000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0022
Financial Type: Actual Obligation Date: 07/06/2009
Budget Source: Remedial Amount: $100000

Action Name: Remedial Action Financial ID: 0025
Financial Type: Deobligation Date: 07/10/2009
Budget Source: Remedial Amount: $6678

Action Name: Remedial Action Financial ID: 0025
Financial Type: Extramural Outlay (Payment) Date: 07/10/2009
Budget Source: Remedial Amount: $6678

Action Name: Remedial Action Financial ID: 0026
Financial Type: Deobligation Date: 07/14/2009
Budget Source: Remedial Amount: $4452

Action Name: Remedial Action Financial ID: 0026
Financial Type: Extramural Outlay (Payment) Date: 07/14/2009
Budget Source: Remedial Amount: $4452

Action Name: Removal Assessment Financial ID: 0009
Financial Type: Actual Obligation Date: 07/16/2009
Budget Source: Removal Amount: $9

Action Name: Removal Assessment Financial ID: 0010

Financial Type: Actual Obligation
Budget Source: Removal
Date: 07/16/2009
Amount: $9

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0029
Date: 07/16/2009
Amount: $9

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0029
Date: 07/16/2009
Amount: $9

Action Name: Removal Assessment
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Removal
Financial ID: 0001
Date: 07/16/2009
Amount: $9

Action Name: Removal Assessment
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Removal
Financial ID: 0002
Date: 07/16/2009
Amount: $9

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0060
Date: 07/22/2009
Amount: $3265

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0045
Date: 07/22/2009
Amount: $3265

Action Name: PRP Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0004
Date: 07/23/2009
Amount: $51938

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0004
Date: 07/23/2009
Amount: $51938

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0061
Date: 07/28/2009
Amount: $834

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0023
Date: 07/29/2009
Amount: $834

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0062
Date: 07/30/2009
Amount: $5985

Action Name:	PRP Remedial Action	Financial ID:	0028
Financial Type:	Deobligation	Date:	07/30/2009
Budget Source:	Remedial	Amount:	$62694
Action Name:	PRP Remedial Action	Financial ID:	0029
Financial Type:	Deobligation	Date:	07/30/2009
Budget Source:	Remedial	Amount:	$86279
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0046
Financial Type:	Extramural Outlay (Payment)	Date:	07/30/2009
Budget Source:	Remedial	Amount:	$5985
Action Name:	PRP Remedial Action	Financial ID:	0028
Financial Type:	Extramural Outlay (Payment)	Date:	07/30/2009
Budget Source:	Remedial	Amount:	$62694
Action Name:	PRP Remedial Action	Financial ID:	0029
Financial Type:	Extramural Outlay (Payment)	Date:	07/30/2009
Budget Source:	Remedial	Amount:	$86279
Action Name:	Remedial Action	Financial ID:	0012
Financial Type:	Deobligation	Date:	07/31/2009
Budget Source:	Remedial	Amount:	$203440
Action Name:	Remedial Action	Financial ID:	0004
Financial Type:	Deobligation	Date:	07/31/2009
Budget Source:	Remedial	Amount:	$121641
Action Name:	Remedial Action	Financial ID:	0005
Financial Type:	Deobligation	Date:	07/31/2009
Budget Source:	Remedial	Amount:	$128575
Action Name:	Remedial Action	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	07/31/2009
Budget Source:	Remedial	Amount:	$203440
Action Name:	Remedial Action	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	07/31/2009
Budget Source:	Remedial	Amount:	$121641
Action Name:	Remedial Action	Financial ID:	0005
Financial Type:	Extramural Outlay (Payment)	Date:	07/31/2009
Budget Source:	Remedial	Amount:	$128575
Action Name:	Remedial Action	Financial ID:	0027
Financial Type:	Deobligation	Date:	08/07/2009
Budget Source:	Remedial	Amount:	$8904

Action Name:	Remedial Action	Financial ID:	0027
Financial Type:	Extramural Outlay (Payment)	Date:	08/07/2009
Budget Source:	Remedial	Amount:	$8904
Action Name:	PRP Remedial Action	Financial ID:	0030
Financial Type:	Deobligation	Date:	08/13/2009
Budget Source:	Remedial	Amount:	$2591
Action Name:	PRP Remedial Action	Financial ID:	0030
Financial Type:	Extramural Outlay (Payment)	Date:	08/13/2009
Budget Source:	Remedial	Amount:	$2591
Action Name:	Combined RI/FS	Financial ID:	0052
Financial Type:	Actual Obligation	Date:	08/18/2009
Budget Source:	Remedial	Amount:	$6339
Action Name:	Combined RI/FS	Financial ID:	0008
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/18/2009
Budget Source:	Remedial	Amount:	$6339
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0063
Financial Type:	Deobligation	Date:	09/02/2009
Budget Source:	Remedial	Amount:	$3162
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0047
Financial Type:	Extramural Outlay (Payment)	Date:	09/02/2009
Budget Source:	Remedial	Amount:	$3162
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0064
Financial Type:	Deobligation	Date:	09/09/2009
Budget Source:	Remedial	Amount:	$3884
Action Name:	PRP Remedial Design	Financial ID:	0073
Financial Type:	Deobligation	Date:	09/09/2009
Budget Source:	Remedial	Amount:	$2367
Action Name:	PRP Remedial Design	Financial ID:	0074
Financial Type:	Deobligation	Date:	09/09/2009
Budget Source:	Remedial	Amount:	$1953
Action Name:	Remedial Design	Financial ID:	0260
Financial Type:	Deobligation	Date:	09/09/2009
Budget Source:	Remedial	Amount:	$19189
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0048
Financial Type:	Extramural Outlay (Payment)	Date:	09/09/2009

Budget Source:	Remedial	Amount:	$3884
Action Name:	PRP Remedial Design	Financial ID:	0075
Financial Type:	Extramural Outlay (Payment)	Date:	09/09/2009
Budget Source:	Remedial	Amount:	$2367
Action Name:	PRP Remedial Design	Financial ID:	0076
Financial Type:	Extramural Outlay (Payment)	Date:	09/09/2009
Budget Source:	Remedial	Amount:	$1953
Action Name:	Remedial Design	Financial ID:	0257
Financial Type:	Extramural Outlay (Payment)	Date:	09/09/2009
Budget Source:	Remedial	Amount:	$19189
Action Name:	PRP Remedial Action	Financial ID:	0031
Financial Type:	Deobligation	Date:	09/11/2009
Budget Source:	Remedial	Amount:	$1703
Action Name:	PRP Remedial Action	Financial ID:	0031
Financial Type:	Extramural Outlay (Payment)	Date:	09/11/2009
Budget Source:	Remedial	Amount:	$1703
Action Name:	Remedial Action	Financial ID:	0028
Financial Type:	Deobligation	Date:	09/14/2009
Budget Source:	Remedial	Amount:	$8504
Action Name:	Remedial Action	Financial ID:	0028
Financial Type:	Extramural Outlay (Payment)	Date:	09/14/2009
Budget Source:	Remedial	Amount:	$8504
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0024
Financial Type:	Actual Obligation	Date:	09/15/2009
Budget Source:	Remedial	Amount:	$3162
Action Name:	Removal Assessment	Financial ID:	0011
Financial Type:	Actual Obligation	Date:	09/15/2009
Budget Source:	Removal	Amount:	$3162
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0065
Financial Type:	Deobligation	Date:	09/15/2009
Budget Source:	Remedial	Amount:	$3162
Action Name:	Removal Assessment	Financial ID:	0030
Financial Type:	Deobligation	Date:	09/15/2009
Budget Source:	Removal	Amount:	$3162
Action Name:	Removal Assessment	Financial ID:	0030

Financial Type: Extramural Outlay (Payment) Date: 09/15/2009
Budget Source: Removal Amount: $3162

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0016
Financial Type: Extramural Deoutlay (Credit) Date: 09/15/2009
Budget Source: Remedial Amount: $3162

Action Name: Remedial Action Financial ID: 0003
Financial Type: Commitment Date: 09/16/2009
Budget Source: Remedial Amount: $875000

Action Name: Remedial Action Financial ID: 0013
Financial Type: Deobligation Date: 09/17/2009
Budget Source: Remedial Amount: $267084

Action Name: Remedial Action Financial ID: 0006
Financial Type: Deobligation Date: 09/17/2009
Budget Source: Remedial Amount: $162810

Action Name: Remedial Action Financial ID: 0013
Financial Type: Extramural Outlay (Payment) Date: 09/17/2009
Budget Source: Remedial Amount: $267084

Action Name: Remedial Action Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 09/17/2009
Budget Source: Remedial Amount: $162810

Action Name: PRP Remedial Action Financial ID: 0005
Financial Type: Decommitment Date: 09/22/2009
Budget Source: Remedial Amount: $45062

Action Name: PRP Remedial Action Financial ID: 0005
Financial Type: Actual Obligation Date: 09/22/2009
Budget Source: Remedial Amount: $44981

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0066
Financial Type: Deobligation Date: 09/23/2009
Budget Source: Remedial Amount: $23384

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0067
Financial Type: Deobligation Date: 09/23/2009
Budget Source: Remedial Amount: $2545

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0049
Financial Type: Extramural Outlay (Payment) Date: 09/23/2009
Budget Source: Remedial Amount: $23384

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0050
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/2009
Budget Source:	Remedial	Amount:	$2545
Action Name:	Remedial Action	Financial ID:	0003
Financial Type:	Decommitment	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$875000
Action Name:	Remedial Action	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$875000
Action Name:	Remedial Action	Financial ID:	0053
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$2666
Action Name:	Remedial Action	Financial ID:	0054
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$13047
Action Name:	Remedial Action	Financial ID:	0055
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$2195
Action Name:	Remedial Action	Financial ID:	0056
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$1728
Action Name:	Remedial Action	Financial ID:	0057
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$27464
Action Name:	Remedial Action	Financial ID:	0066
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$55304
Action Name:	Remedial Action	Financial ID:	0067
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$1526
Action Name:	Remedial Action	Financial ID:	0068
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$34669
Action Name:	Remedial Action	Financial ID:	0069
Financial Type:	Deobligation	Date:	09/24/2009
Budget Source:	Remedial	Amount:	$2401

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0071
Date: 09/24/2009
Amount: $26904

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0072
Date: 09/24/2009
Amount: $1350

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0073
Date: 09/24/2009
Amount: $3977

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0074
Date: 09/24/2009
Amount: $146035

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0075
Date: 09/24/2009
Amount: $1608

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0076
Date: 09/24/2009
Amount: $21587

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0077
Date: 09/24/2009
Amount: $1439

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0078
Date: 09/24/2009
Amount: $2857

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0079
Date: 09/24/2009
Amount: $799

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0080
Date: 09/24/2009
Amount: $198

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0081
Date: 09/24/2009
Amount: $2

Action Name: Remedial Action
Financial Type: Deobligation
Financial ID: 0083
Date: 09/24/2009

Budget Source: Remedial Amount: $1008

Action Name: Remedial Action Financial ID: 0084
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $5270

Action Name: Remedial Action Financial ID: 0085
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $533

Action Name: Remedial Action Financial ID: 0086
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $383

Action Name: Remedial Action Financial ID: 0087
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $2198

Action Name: Remedial Action Financial ID: 0089
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $2796

Action Name: Remedial Action Financial ID: 0090
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $544

Action Name: Remedial Action Financial ID: 0091
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $1883

Action Name: Remedial Action Financial ID: 0092
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $2974

Action Name: Remedial Action Financial ID: 0093
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $2701

Action Name: Remedial Action Financial ID: 0094
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $2562

Action Name: Remedial Action Financial ID: 0095
Financial Type: Deobligation Date: 09/24/2009
Budget Source: Remedial Amount: $628000

Action Name: Remedial Action Financial ID: 0096

Financial Type: Deobligation
Budget Source: Remedial
Date: 09/24/2009
Amount: $875000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0075
Date: 09/25/2009
Amount: $2571

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0076
Date: 09/25/2009
Amount: $2939

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0077
Date: 09/25/2009
Amount: $1307

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0003
Date: 09/25/2009
Amount: $23138

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0261
Date: 09/25/2009
Amount: $14175

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0262
Date: 09/25/2009
Amount: $828

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0263
Date: 09/25/2009
Amount: $6529

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0264
Date: 09/25/2009
Amount: $7279

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0077
Date: 09/25/2009
Amount: $2571

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0078
Date: 09/25/2009
Amount: $2939

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0079
Date: 09/25/2009
Amount: $1307

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 09/25/2009
Amount: $23138

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0258
Date: 09/25/2009
Amount: $14175

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0259
Date: 09/25/2009
Amount: $828

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0260
Date: 09/25/2009
Amount: $6529

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0261
Date: 09/25/2009
Amount: $7279

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0025
Date: 10/02/2009
Amount: $2545

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0026
Date: 10/02/2009
Amount: $23384

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0012
Date: 10/02/2009
Amount: $23384

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0013
Date: 10/02/2009
Amount: $2545

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0068
Date: 10/02/2009
Amount: $23384

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0069
Date: 10/02/2009
Amount: $2545

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0031
Date: 10/02/2009
Amount: $23384

Action Name:	Removal Assessment	Financial ID:	0032
Financial Type:	Deobligation	Date:	10/02/2009
Budget Source:	Removal	Amount:	$2545
Action Name:	Removal Assessment	Financial ID:	0031
Financial Type:	Extramural Outlay (Payment)	Date:	10/02/2009
Budget Source:	Removal	Amount:	$23384
Action Name:	Removal Assessment	Financial ID:	0032
Financial Type:	Extramural Outlay (Payment)	Date:	10/02/2009
Budget Source:	Removal	Amount:	$2545
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0017
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/02/2009
Budget Source:	Remedial	Amount:	$2545
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0018
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/02/2009
Budget Source:	Remedial	Amount:	$23384
Action Name:	Combined RI/FS	Financial ID:	0053
Financial Type:	Actual Obligation	Date:	10/05/2009
Budget Source:	Remedial	Amount:	$13769
Action Name:	Combined RI/FS	Financial ID:	0009
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/05/2009
Budget Source:	Remedial	Amount:	$13769
Action Name:	PRP Remedial Action	Financial ID:	0032
Financial Type:	Deobligation	Date:	10/09/2009
Budget Source:	Remedial	Amount:	$5602
Action Name:	PRP Remedial Action	Financial ID:	0032
Financial Type:	Extramural Outlay (Payment)	Date:	10/09/2009
Budget Source:	Remedial	Amount:	$5602
Action Name:	Remedial Action	Financial ID:	0029
Financial Type:	Deobligation	Date:	10/16/2009
Budget Source:	Remedial	Amount:	$4052
Action Name:	Remedial Action	Financial ID:	0029
Financial Type:	Extramural Outlay (Payment)	Date:	10/16/2009
Budget Source:	Remedial	Amount:	$4052
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0070
Financial Type:	Deobligation	Date:	10/21/2009

Budget Source: Remedial Amount: $124460

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0071
Financial Type: Deobligation Date: 10/21/2009
Budget Source: Remedial Amount: $31777

Action Name: Remedial Design Financial ID: 0265
Financial Type: Deobligation Date: 10/21/2009
Budget Source: Remedial Amount: $312877

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0051
Financial Type: Extramural Outlay (Payment) Date: 10/21/2009
Budget Source: Remedial Amount: $124460

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0052
Financial Type: Extramural Outlay (Payment) Date: 10/21/2009
Budget Source: Remedial Amount: $31777

Action Name: Remedial Design Financial ID: 0262
Financial Type: Extramural Outlay (Payment) Date: 10/21/2009
Budget Source: Remedial Amount: $312877

Action Name: Remedial Action Financial ID: 0030
Financial Type: Deobligation Date: 10/29/2009
Budget Source: Remedial Amount: $4040

Action Name: Remedial Action Financial ID: 0030
Financial Type: Extramural Outlay (Payment) Date: 10/29/2009
Budget Source: Remedial Amount: $4040

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0072
Financial Type: Deobligation Date: 10/30/2009
Budget Source: Remedial Amount: $2073

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0073
Financial Type: Deobligation Date: 10/30/2009
Budget Source: Remedial Amount: $2000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0074
Financial Type: Deobligation Date: 10/30/2009
Budget Source: Remedial Amount: $337

Action Name: Removal Assessment Financial ID: 0033
Financial Type: Deobligation Date: 10/30/2009
Budget Source: Removal Amount: $506

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0053

Financial Type: Extramural Outlay (Payment) Date: 10/30/2009
Budget Source: Remedial Amount: $2073

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0054
Financial Type: Extramural Outlay (Payment) Date: 10/30/2009
Budget Source: Remedial Amount: $2000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0055
Financial Type: Extramural Outlay (Payment) Date: 10/30/2009
Budget Source: Remedial Amount: $337

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0027
Financial Type: Actual Obligation Date: 11/03/2009
Budget Source: Remedial Amount: $2000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0028
Financial Type: Actual Obligation Date: 11/03/2009
Budget Source: Remedial Amount: $337

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0029
Financial Type: Actual Obligation Date: 11/03/2009
Budget Source: Remedial Amount: $2073

Action Name: Removal Assessment Financial ID: 0014
Financial Type: Actual Obligation Date: 11/03/2009
Budget Source: Removal Amount: $2000

Action Name: Removal Assessment Financial ID: 0015
Financial Type: Actual Obligation Date: 11/03/2009
Budget Source: Removal Amount: $2073

Action Name: Removal Assessment Financial ID: 0016
Financial Type: Actual Obligation Date: 11/03/2009
Budget Source: Removal Amount: $337

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0075
Financial Type: Deobligation Date: 11/03/2009
Budget Source: Remedial Amount: $2000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0076
Financial Type: Deobligation Date: 11/03/2009
Budget Source: Remedial Amount: $2073

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0077
Financial Type: Deobligation Date: 11/03/2009
Budget Source: Remedial Amount: $337

Action Name:	Removal Assessment	Financial ID:	0034
Financial Type:	Deobligation	Date:	11/03/2009
Budget Source:	Removal	Amount:	$2000
Action Name:	Removal Assessment	Financial ID:	0035
Financial Type:	Deobligation	Date:	11/03/2009
Budget Source:	Removal	Amount:	$337
Action Name:	Removal Assessment	Financial ID:	0036
Financial Type:	Deobligation	Date:	11/03/2009
Budget Source:	Removal	Amount:	$2073
Action Name:	Removal Assessment	Financial ID:	0033
Financial Type:	Extramural Outlay (Payment)	Date:	11/03/2009
Budget Source:	Removal	Amount:	$2000
Action Name:	Removal Assessment	Financial ID:	0034
Financial Type:	Extramural Outlay (Payment)	Date:	11/03/2009
Budget Source:	Removal	Amount:	$337
Action Name:	Removal Assessment	Financial ID:	0035
Financial Type:	Extramural Outlay (Payment)	Date:	11/03/2009
Budget Source:	Removal	Amount:	$2073
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0019
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/03/2009
Budget Source:	Remedial	Amount:	$2000
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0020
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/03/2009
Budget Source:	Remedial	Amount:	$337
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0021
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/03/2009
Budget Source:	Remedial	Amount:	$2073
Action Name:	PRP Remedial Action	Financial ID:	0033
Financial Type:	Deobligation	Date:	11/10/2009
Budget Source:	Remedial	Amount:	$21055
Action Name:	PRP Remedial Action	Financial ID:	0033
Financial Type:	Extramural Outlay (Payment)	Date:	11/10/2009
Budget Source:	Remedial	Amount:	$21055
Action Name:	PRP Remedial Action	Financial ID:	0004
Financial Type:	Commitment	Date:	11/12/2009
Budget Source:	Remedial	Amount:	$300000

Action Name:	Technical Assistance Grant	Financial ID:	0001
Financial Type:	Commitment	Date:	11/16/2009
Budget Source:	Remedial	Amount:	$875
Action Name:	Technical Assistance Grant	Financial ID:	0001
Financial Type:	Open Commitment	Date:	11/16/2009
Budget Source:	Remedial	Amount:	$-1
Action Name:	Technical Assistance Grant	Financial ID:	0001
Financial Type:	Decommitment	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$596
Action Name:	Technical Assistance Grant	Financial ID:	0002
Financial Type:	Decommitment	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$280
Action Name:	Technical Assistance Grant	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$596
Action Name:	Technical Assistance Grant	Financial ID:	0002
Financial Type:	Actual Obligation	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$280
Action Name:	Technical Assistance Grant	Financial ID:	0001
Financial Type:	Deobligation	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$280
Action Name:	Technical Assistance Grant	Financial ID:	0002
Financial Type:	Deobligation	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$596
Action Name:	Technical Assistance Grant	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$280
Action Name:	Technical Assistance Grant	Financial ID:	0002
Financial Type:	Extramural Outlay (Payment)	Date:	11/17/2009
Budget Source:	Remedial	Amount:	$596
Action Name:	Remedial Design	Financial ID:	0266
Financial Type:	Deobligation	Date:	11/23/2009
Budget Source:	Remedial	Amount:	$26949
Action Name:	Remedial Design	Financial ID:	0263
Financial Type:	Extramural Outlay (Payment)	Date:	11/23/2009

Budget Source: Remedial Amount: $26949

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0078
Financial Type: Deobligation Date: 11/24/2009
Budget Source: Remedial Amount: $600

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0079
Financial Type: Deobligation Date: 11/24/2009
Budget Source: Remedial Amount: $20544

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0056
Financial Type: Extramural Outlay (Payment) Date: 11/24/2009
Budget Source: Remedial Amount: $600

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0057
Financial Type: Extramural Outlay (Payment) Date: 11/24/2009
Budget Source: Remedial Amount: $20544

Action Name: Remedial Action Financial ID: 0031
Financial Type: Deobligation Date: 11/25/2009
Budget Source: Remedial Amount: $4052

Action Name: Remedial Action Financial ID: 0031
Financial Type: Extramural Outlay (Payment) Date: 11/25/2009
Budget Source: Remedial Amount: $4052

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0080
Financial Type: Deobligation Date: 12/01/2009
Budget Source: Remedial Amount: $27286

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0081
Financial Type: Deobligation Date: 12/01/2009
Budget Source: Remedial Amount: $3283

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0058
Financial Type: Extramural Outlay (Payment) Date: 12/01/2009
Budget Source: Remedial Amount: $27286

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0059
Financial Type: Extramural Outlay (Payment) Date: 12/01/2009
Budget Source: Remedial Amount: $3283

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0030
Financial Type: Actual Obligation Date: 12/02/2009
Budget Source: Remedial Amount: $20544

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0031

Financial Type: Actual Obligation
Budget Source: Remedial
Date: 12/02/2009
Amount: $600

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0017
Date: 12/02/2009
Amount: $20544

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0018
Date: 12/02/2009
Amount: $600

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0082
Date: 12/02/2009
Amount: $20544

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0083
Date: 12/02/2009
Amount: $600

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0037
Date: 12/02/2009
Amount: $20544

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0038
Date: 12/02/2009
Amount: $600

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0036
Date: 12/02/2009
Amount: $20544

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0037
Date: 12/02/2009
Amount: $600

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0022
Date: 12/02/2009
Amount: $20544

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0023
Date: 12/02/2009
Amount: $600

Action Name: PRP Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0006
Date: 12/04/2009
Amount: $300000

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0006
Date: 12/04/2009
Amount: $299927

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0078
Date: 12/08/2009
Amount: $1959

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0034
Date: 12/08/2009
Amount: $74824

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0080
Date: 12/08/2009
Amount: $1959

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0034
Date: 12/08/2009
Amount: $74824

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0035
Date: 12/10/2009
Amount: $25651

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0035
Date: 12/10/2009
Amount: $25651

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0270
Date: 12/21/2009
Amount: $25244

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0271
Date: 12/21/2009
Amount: $22196

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0272
Date: 12/21/2009
Amount: $10717

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0267
Date: 12/21/2009
Amount: $25244

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0268
Date: 12/21/2009
Amount: $22196

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0269
Date: 12/21/2009
Amount: $10717

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0032
Date: 12/22/2009
Amount: $3039

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0032
Date: 12/22/2009
Amount: $3039

Action Name: Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0004
Date: 12/24/2009
Amount: $85618

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0014
Date: 12/24/2009
Amount: $79257

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0015
Date: 12/24/2009
Amount: $111656

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0014
Date: 12/24/2009
Amount: $79257

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0015
Date: 12/24/2009
Amount: $111656

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0001
Date: 12/24/2009
Amount: $85618

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0033
Date: 12/29/2009
Amount: $162

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0033
Date: 12/29/2009
Amount: $162

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Financial ID: 0084
Date: 01/04/2010

Budget Source: Remedial Amount: $3730

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0085
Financial Type: Deobligation Date: 01/04/2010
Budget Source: Remedial Amount: $4144

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0060
Financial Type: Extramural Outlay (Payment) Date: 01/04/2010
Budget Source: Remedial Amount: $3730

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0061
Financial Type: Extramural Outlay (Payment) Date: 01/04/2010
Budget Source: Remedial Amount: $4144

Action Name: Removal Assessment Financial ID: 0019
Financial Type: Actual Obligation Date: 01/05/2010
Budget Source: Removal Amount: $1

Action Name: Removal Assessment Financial ID: 0003
Financial Type: Extramural Deoutlay (Credit) Date: 01/05/2010
Budget Source: Removal Amount: $1

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0032
Financial Type: Actual Obligation Date: 01/07/2010
Budget Source: Remedial Amount: $4144

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0033
Financial Type: Actual Obligation Date: 01/07/2010
Budget Source: Remedial Amount: $3730

Action Name: Removal Assessment Financial ID: 0020
Financial Type: Actual Obligation Date: 01/07/2010
Budget Source: Removal Amount: $3730

Action Name: Removal Assessment Financial ID: 0021
Financial Type: Actual Obligation Date: 01/07/2010
Budget Source: Removal Amount: $4144

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0086
Financial Type: Deobligation Date: 01/07/2010
Budget Source: Remedial Amount: $12414

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0087
Financial Type: Deobligation Date: 01/07/2010
Budget Source: Remedial Amount: $3730

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0088

Financial Type: Deobligation
Budget Source: Remedial
Date: 01/07/2010
Amount: $4144

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0039
Date: 01/07/2010
Amount: $4144

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0040
Date: 01/07/2010
Amount: $3730

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0062
Date: 01/07/2010
Amount: $12414

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0038
Date: 01/07/2010
Amount: $4144

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0039
Date: 01/07/2010
Amount: $3730

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0024
Date: 01/07/2010
Amount: $4144

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0025
Date: 01/07/2010
Amount: $3730

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0036
Date: 01/08/2010
Amount: $28496

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0036
Date: 01/08/2010
Amount: $28496

Action Name: PRP Remedial Action
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0005
Date: 01/25/2010
Amount: $55000

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0079
Date: 01/27/2010
Amount: $2315

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0080
Date: 01/27/2010
Amount: $4016

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0081
Date: 01/27/2010
Amount: $2563

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0037
Date: 01/27/2010
Amount: $1352121

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0038
Date: 01/27/2010
Amount: $69086

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0039
Date: 01/27/2010
Amount: $24912

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0040
Date: 01/27/2010
Amount: $2638

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0041
Date: 01/27/2010
Amount: $1634

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0007
Date: 01/27/2010
Amount: $1926

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0273
Date: 01/27/2010
Amount: $5150

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0274
Date: 01/27/2010
Amount: $7779

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0275
Date: 01/27/2010
Amount: $2470

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0276
Date: 01/27/2010
Amount: $1584

Action Name:	Remedial Design	Financial ID:	0277
Financial Type:	Deobligation	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$5317
Action Name:	PRP Remedial Design	Financial ID:	0081
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$2315
Action Name:	PRP Remedial Design	Financial ID:	0082
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$4016
Action Name:	PRP Remedial Design	Financial ID:	0083
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$2563
Action Name:	PRP Remedial Action	Financial ID:	0037
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$1352121
Action Name:	PRP Remedial Action	Financial ID:	0038
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$69086
Action Name:	PRP Remedial Action	Financial ID:	0039
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$24912
Action Name:	PRP Remedial Action	Financial ID:	0040
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$2638
Action Name:	PRP Remedial Action	Financial ID:	0041
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$1634
Action Name:	Remedial Action	Financial ID:	0007
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$1926
Action Name:	Remedial Design	Financial ID:	0270
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010
Budget Source:	Remedial	Amount:	$5150
Action Name:	Remedial Design	Financial ID:	0271
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2010

Budget Source: Remedial Amount: $7779

Action Name: Remedial Design Financial ID: 0272
Financial Type: Extramural Outlay (Payment) Date: 01/27/2010
Budget Source: Remedial Amount: $2470

Action Name: Remedial Design Financial ID: 0273
Financial Type: Extramural Outlay (Payment) Date: 01/27/2010
Budget Source: Remedial Amount: $1584

Action Name: Remedial Design Financial ID: 0274
Financial Type: Extramural Outlay (Payment) Date: 01/27/2010
Budget Source: Remedial Amount: $5317

Action Name: Remedial Action Financial ID: 0034
Financial Type: Deobligation Date: 02/03/2010
Budget Source: Remedial Amount: $324

Action Name: Remedial Action Financial ID: 0034
Financial Type: Extramural Outlay (Payment) Date: 02/03/2010
Budget Source: Remedial Amount: $324

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0089
Financial Type: Deobligation Date: 02/05/2010
Budget Source: Remedial Amount: $7562

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0063
Financial Type: Extramural Outlay (Payment) Date: 02/05/2010
Budget Source: Remedial Amount: $7562

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0034
Financial Type: Actual Obligation Date: 02/09/2010
Budget Source: Remedial Amount: $7562

Action Name: Removal Assessment Financial ID: 0022
Financial Type: Actual Obligation Date: 02/09/2010
Budget Source: Removal Amount: $7562

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0090
Financial Type: Deobligation Date: 02/09/2010
Budget Source: Remedial Amount: $49242

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0091
Financial Type: Deobligation Date: 02/09/2010
Budget Source: Remedial Amount: $25710

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0092

Financial Type: Deobligation
Budget Source: Remedial
Date: 02/09/2010
Amount: $7562

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0041
Date: 02/09/2010
Amount: $7562

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0064
Date: 02/09/2010
Amount: $49242

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0065
Date: 02/09/2010
Amount: $25710

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0040
Date: 02/09/2010
Amount: $7562

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0026
Date: 02/09/2010
Amount: $7562

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0042
Date: 02/10/2010
Amount: $12114

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0042
Date: 02/10/2010
Amount: $12114

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0035
Date: 02/17/2010
Amount: $3511

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0278
Date: 02/17/2010
Amount: $5077

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0035
Date: 02/17/2010
Amount: $3511

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0275
Date: 02/17/2010
Amount: $5077

Action Name: PRP Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0007
Date: 02/18/2010
Amount: $55000

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0007
Date: 02/18/2010
Amount: $55000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0279
Date: 02/18/2010
Amount: $12699

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0276
Date: 02/18/2010
Amount: $12699

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0016
Date: 02/19/2010
Amount: $17598

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0016
Date: 02/19/2010
Amount: $17598

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0093
Date: 03/01/2010
Amount: $48597

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0082
Date: 03/01/2010
Amount: $315384

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 03/01/2010
Amount: $230926

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0043
Date: 03/01/2010
Amount: $322810

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0008
Date: 03/01/2010
Amount: $2765

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0009
Date: 03/01/2010
Amount: $1801

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0010
Date: 03/01/2010
Amount: $2497

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0280
Date: 03/01/2010
Amount: $1614

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0066
Date: 03/01/2010
Amount: $48597

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0084
Date: 03/01/2010
Amount: $315384

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0004
Date: 03/01/2010
Amount: $230926

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0043
Date: 03/01/2010
Amount: $322810

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0008
Date: 03/01/2010
Amount: $2765

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0009
Date: 03/01/2010
Amount: $1801

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 03/01/2010
Amount: $2497

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0277
Date: 03/01/2010
Amount: $1614

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0094
Date: 03/02/2010
Amount: $1578

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Financial ID: 0067
Date: 03/02/2010

Budget Source: Remedial Amount: $1578

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0035
Financial Type: Actual Obligation Date: 03/05/2010
Budget Source: Remedial Amount: $1578

Action Name: Removal Assessment Financial ID: 0023
Financial Type: Actual Obligation Date: 03/05/2010
Budget Source: Removal Amount: $1578

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0095
Financial Type: Deobligation Date: 03/05/2010
Budget Source: Remedial Amount: $1578

Action Name: Removal Assessment Financial ID: 0042
Financial Type: Deobligation Date: 03/05/2010
Budget Source: Removal Amount: $1578

Action Name: Removal Assessment Financial ID: 0041
Financial Type: Extramural Outlay (Payment) Date: 03/05/2010
Budget Source: Removal Amount: $1578

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0027
Financial Type: Extramural Deoutlay (Credit) Date: 03/05/2010
Budget Source: Remedial Amount: $1578

Action Name: PRP Remedial Design Financial ID: 0014
Financial Type: Extramural Outlay (Payment) Date: 03/09/2010
Budget Source: Remedial Amount: $900000

Action Name: PRP Remedial Design Financial ID: 0015
Financial Type: Extramural Outlay (Payment) Date: 03/09/2010
Budget Source: Remedial Amount: $900000

Action Name: Remedial Design Financial ID: 0293
Financial Type: Extramural Outlay (Payment) Date: 03/09/2010
Budget Source: Remedial Amount: $25750

Action Name: Remedial Design Financial ID: 0294
Financial Type: Extramural Outlay (Payment) Date: 03/09/2010
Budget Source: Remedial Amount: $2774250

Action Name: Remedial Design Financial ID: 0295
Financial Type: Extramural Outlay (Payment) Date: 03/09/2010
Budget Source: Remedial Amount: $4022422

Action Name: PRP Remedial Design Financial ID: 0001

Financial Type: Extramural Deoutlay (Credit) Date: 03/09/2010
Budget Source: Remedial Amount: $900000

Action Name: PRP Remedial Design Financial ID: 0002
Financial Type: Extramural Deoutlay (Credit) Date: 03/09/2010
Budget Source: Remedial Amount: $900000

Action Name: Remedial Design Financial ID: 0004
Financial Type: Extramural Deoutlay (Credit) Date: 03/09/2010
Budget Source: Remedial Amount: $25750

Action Name: Remedial Design Financial ID: 0005
Financial Type: Extramural Deoutlay (Credit) Date: 03/09/2010
Budget Source: Remedial Amount: $2774250

Action Name: Remedial Design Financial ID: 0006
Financial Type: Extramural Deoutlay (Credit) Date: 03/09/2010
Budget Source: Remedial Amount: $4022422

Action Name: PRP Remedial Action Financial ID: 0044
Financial Type: Deobligation Date: 03/12/2010
Budget Source: Remedial Amount: $12058

Action Name: PRP Remedial Action Financial ID: 0044
Financial Type: Extramural Outlay (Payment) Date: 03/12/2010
Budget Source: Remedial Amount: $12058

Action Name: Remedial Design Financial ID: 0281
Financial Type: Deobligation Date: 03/18/2010
Budget Source: Remedial Amount: $775

Action Name: Remedial Design Financial ID: 0278
Financial Type: Extramural Outlay (Payment) Date: 03/18/2010
Budget Source: Remedial Amount: $775

Action Name: PRP Remedial Action Financial ID: 0006
Financial Type: Commitment Date: 03/26/2010
Budget Source: Remedial Amount: $400000

Action Name: PRP Remedial Action Financial ID: 0007
Financial Type: Commitment Date: 03/26/2010
Budget Source: Remedial Amount: $400000

Action Name: PRP Remedial Action Financial ID: 0008
Financial Type: Decommitment Date: 03/26/2010
Budget Source: Remedial Amount: $400000

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0011
Date: 03/30/2010
Amount: $1882

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0011
Date: 03/30/2010
Amount: $1882

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0282
Date: 04/06/2010
Amount: $16823

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0283
Date: 04/06/2010
Amount: $4640

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0279
Date: 04/06/2010
Amount: $16823

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0280
Date: 04/06/2010
Amount: $4640

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0045
Date: 04/08/2010
Amount: $2707

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0046
Date: 04/08/2010
Amount: $44715

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0045
Date: 04/08/2010
Amount: $2707

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0046
Date: 04/08/2010
Amount: $44715

Action Name: PRP Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0009
Date: 04/13/2010
Amount: $399972

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0008
Date: 04/13/2010
Amount: $399972

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0096
Financial Type:	Deobligation	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$37690
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0097
Financial Type:	Deobligation	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$100867
Action Name:	PRP Remedial Action	Financial ID:	0047
Financial Type:	Deobligation	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$159834
Action Name:	PRP Remedial Action	Financial ID:	0048
Financial Type:	Deobligation	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$650227
Action Name:	Remedial Action	Financial ID:	0017
Financial Type:	Deobligation	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$24592
Action Name:	Removal Assessment	Financial ID:	0043
Financial Type:	Deobligation	Date:	04/26/2010
Budget Source:	Removal	Amount:	$1
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0068
Financial Type:	Extramural Outlay (Payment)	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$37690
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0069
Financial Type:	Extramural Outlay (Payment)	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$100867
Action Name:	PRP Remedial Action	Financial ID:	0047
Financial Type:	Extramural Outlay (Payment)	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$159834
Action Name:	PRP Remedial Action	Financial ID:	0048
Financial Type:	Extramural Outlay (Payment)	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$650227
Action Name:	Remedial Action	Financial ID:	0017
Financial Type:	Extramural Outlay (Payment)	Date:	04/26/2010
Budget Source:	Remedial	Amount:	$24592
Action Name:	Remedial Action	Financial ID:	0012
Financial Type:	Deobligation	Date:	04/27/2010

Budget Source: Remedial
Amount: $92147

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0012
Date: 04/27/2010
Amount: $92147

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0036
Date: 04/30/2010
Amount: $705

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0036
Date: 04/30/2010
Amount: $705

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0005
Date: 05/04/2010
Amount: $25489

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0005
Date: 05/04/2010
Amount: $25489

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0049
Date: 05/11/2010
Amount: $97019

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0049
Date: 05/11/2010
Amount: $97019

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0284
Date: 05/12/2010
Amount: $2230

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0281
Date: 05/12/2010
Amount: $2230

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0013
Date: 05/13/2010
Amount: $1991

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0014
Date: 05/13/2010
Amount: $34354

Action Name: Remedial Action
Financial ID: 0013

Financial Type: Extramural Outlay (Payment) Date: 05/13/2010
Budget Source: Remedial Amount: $1991

Action Name: Remedial Action Financial ID: 0014
Financial Type: Extramural Outlay (Payment) Date: 05/13/2010
Budget Source: Remedial Amount: $34354

Action Name: Remedial Action Financial ID: 0015
Financial Type: Deobligation Date: 05/17/2010
Budget Source: Remedial Amount: $30467

Action Name: Remedial Action Financial ID: 0015
Financial Type: Extramural Outlay (Payment) Date: 05/17/2010
Budget Source: Remedial Amount: $30467

Action Name: Technical Assistance Grant Financial ID: 0002
Financial Type: Commitment Date: 05/21/2010
Budget Source: Remedial Amount: $2654

Action Name: Technical Assistance Grant Financial ID: 0003
Financial Type: Commitment Date: 05/21/2010
Budget Source: Remedial Amount: $514

Action Name: Remedial Action Financial ID: 0016
Financial Type: Deobligation Date: 05/25/2010
Budget Source: Remedial Amount: $15095

Action Name: Remedial Design Financial ID: 0285
Financial Type: Deobligation Date: 05/25/2010
Budget Source: Remedial Amount: $885

Action Name: Remedial Action Financial ID: 0016
Financial Type: Extramural Outlay (Payment) Date: 05/25/2010
Budget Source: Remedial Amount: $15095

Action Name: Remedial Design Financial ID: 0282
Financial Type: Extramural Outlay (Payment) Date: 05/25/2010
Budget Source: Remedial Amount: $885

Action Name: Technical Assistance Grant Financial ID: 0003
Financial Type: Decommitment Date: 05/26/2010
Budget Source: Remedial Amount: $514

Action Name: Technical Assistance Grant Financial ID: 0004
Financial Type: Decommitment Date: 05/26/2010
Budget Source: Remedial Amount: $2654

Action Name: Technical Assistance Grant
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0003
Date: 05/26/2010
Amount: $514

Action Name: Technical Assistance Grant
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0004
Date: 05/26/2010
Amount: $2654

Action Name: Technical Assistance Grant
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0003
Date: 05/26/2010
Amount: $514

Action Name: Technical Assistance Grant
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0004
Date: 05/26/2010
Amount: $2654

Action Name: Technical Assistance Grant
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0003
Date: 05/26/2010
Amount: $514

Action Name: Technical Assistance Grant
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0004
Date: 05/26/2010
Amount: $2654

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0054
Date: 05/28/2010
Amount: $0

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0055
Date: 05/28/2010
Amount: $0

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0056
Date: 05/28/2010
Amount: $0

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0057
Date: 05/28/2010
Amount: $0

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0058
Date: 05/28/2010
Amount: $0

Action Name: Combined RI/FS
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0059
Date: 05/28/2010
Amount: $0

Action Name:	Combined RI/FS	Financial ID:	0060
Financial Type:	Actual Obligation	Date:	05/28/2010
Budget Source:	Remedial	Amount:	$0
Action Name:	Combined RI/FS	Financial ID:	0061
Financial Type:	Actual Obligation	Date:	05/28/2010
Budget Source:	Remedial	Amount:	$0
Action Name:	Combined RI/FS	Financial ID:	0062
Financial Type:	Actual Obligation	Date:	05/28/2010
Budget Source:	Remedial	Amount:	$0
Action Name:	Combined RI/FS	Financial ID:	0063
Financial Type:	Actual Obligation	Date:	05/28/2010
Budget Source:	Remedial	Amount:	$0
Action Name:	Combined RI/FS	Financial ID:	0064
Financial Type:	Actual Obligation	Date:	05/28/2010
Budget Source:	Remedial	Amount:	$0
Action Name:	Combined RI/FS	Financial ID:	0159
Financial Type:	Deobligation	Date:	05/28/2010
Budget Source:	Remedial	Amount:	$38573
Action Name:	Remedial Action	Financial ID:	0018
Financial Type:	Deobligation	Date:	06/03/2010
Budget Source:	Remedial	Amount:	$8027
Action Name:	Remedial Action	Financial ID:	0018
Financial Type:	Extramural Outlay (Payment)	Date:	06/03/2010
Budget Source:	Remedial	Amount:	$8027
Action Name:	Remedial Action	Financial ID:	0017
Financial Type:	Deobligation	Date:	06/04/2010
Budget Source:	Remedial	Amount:	$39066
Action Name:	Remedial Action	Financial ID:	0017
Financial Type:	Extramural Outlay (Payment)	Date:	06/04/2010
Budget Source:	Remedial	Amount:	$39066
Action Name:	Remedial Action	Financial ID:	0019
Financial Type:	Deobligation	Date:	06/22/2010
Budget Source:	Remedial	Amount:	$270259
Action Name:	Remedial Action	Financial ID:	0018
Financial Type:	Deobligation	Date:	06/22/2010

Budget Source: Remedial
Amount: $215069

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0286
Date: 06/22/2010
Amount: $577

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0019
Date: 06/22/2010
Amount: $270259

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0018
Date: 06/22/2010
Amount: $215069

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0283
Date: 06/22/2010
Amount: $577

Action Name: PRP Remedial Action
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0008
Date: 06/23/2010
Amount: $3000000

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0050
Date: 06/24/2010
Amount: $23275

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0050
Date: 06/24/2010
Amount: $23275

Action Name: Remedial Design
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0022
Date: 06/28/2010
Amount: $613

Action Name: Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0003
Date: 06/28/2010
Amount: $613

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0098
Date: 06/29/2010
Amount: $2798

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0019
Date: 06/29/2010
Amount: $2908

Action Name: Remedial Action
Financial ID: 0020

Financial Type: Deobligation
Budget Source: Remedial
Date: 06/29/2010
Amount: $2200

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0070
Date: 06/29/2010
Amount: $2798

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0019
Date: 06/29/2010
Amount: $2908

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0020
Date: 06/29/2010
Amount: $2200

Action Name: PRP Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0010
Date: 06/30/2010
Amount: $3000000

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0009
Date: 06/30/2010
Amount: $3000000

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0021
Date: 07/02/2010
Amount: $46459

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0021
Date: 07/02/2010
Amount: $46459

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0020
Date: 07/07/2010
Amount: $582510

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0020
Date: 07/07/2010
Amount: $582510

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0051
Date: 07/12/2010
Amount: $69812

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0051
Date: 07/12/2010
Amount: $69812

Action Name:	PRP Remedial Action	Financial ID:	0052
Financial Type:	Deobligation	Date:	07/14/2010
Budget Source:	Remedial	Amount:	$69995
Action Name:	PRP Remedial Action	Financial ID:	0052
Financial Type:	Extramural Outlay (Payment)	Date:	07/14/2010
Budget Source:	Remedial	Amount:	$69995
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0099
Financial Type:	Deobligation	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$69768
Action Name:	Remedial Action	Financial ID:	0022
Financial Type:	Deobligation	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$4022
Action Name:	Remedial Design	Financial ID:	0287
Financial Type:	Deobligation	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$2645
Action Name:	Remedial Design	Financial ID:	0288
Financial Type:	Deobligation	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$3753
Action Name:	Remedial Design	Financial ID:	0289
Financial Type:	Deobligation	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$2225
Action Name:	Remedial Design	Financial ID:	0290
Financial Type:	Deobligation	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$1473
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0071
Financial Type:	Extramural Outlay (Payment)	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$69768
Action Name:	Remedial Action	Financial ID:	0022
Financial Type:	Extramural Outlay (Payment)	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$4022
Action Name:	Remedial Design	Financial ID:	0284
Financial Type:	Extramural Outlay (Payment)	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$2645
Action Name:	Remedial Design	Financial ID:	0285
Financial Type:	Extramural Outlay (Payment)	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$3753

Action Name:	Remedial Design	Financial ID:	0286
Financial Type:	Extramural Outlay (Payment)	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$2225
Action Name:	Remedial Design	Financial ID:	0287
Financial Type:	Extramural Outlay (Payment)	Date:	07/20/2010
Budget Source:	Remedial	Amount:	$1473
Action Name:	PRP Remedial Action	Financial ID:	0011
Financial Type:	Decommitment	Date:	07/23/2010
Budget Source:	Remedial	Amount:	$28
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0009
Financial Type:	Commitment	Date:	07/28/2010
Budget Source:	Remedial	Amount:	$340000
Action Name:	PRP Remedial Action	Financial ID:	0053
Financial Type:	Deobligation	Date:	08/05/2010
Budget Source:	Remedial	Amount:	$799196
Action Name:	PRP Remedial Action	Financial ID:	0054
Financial Type:	Deobligation	Date:	08/05/2010
Budget Source:	Remedial	Amount:	$1094766
Action Name:	PRP Remedial Action	Financial ID:	0053
Financial Type:	Extramural Outlay (Payment)	Date:	08/05/2010
Budget Source:	Remedial	Amount:	$799196
Action Name:	PRP Remedial Action	Financial ID:	0054
Financial Type:	Extramural Outlay (Payment)	Date:	08/05/2010
Budget Source:	Remedial	Amount:	$1094766
Action Name:	PRP Remedial Action	Financial ID:	0055
Financial Type:	Deobligation	Date:	08/10/2010
Budget Source:	Remedial	Amount:	$220145
Action Name:	PRP Remedial Action	Financial ID:	0055
Financial Type:	Extramural Outlay (Payment)	Date:	08/10/2010
Budget Source:	Remedial	Amount:	$220145
Action Name:	PRP Remedial Action	Financial ID:	0056
Financial Type:	Deobligation	Date:	08/20/2010
Budget Source:	Remedial	Amount:	$9274
Action Name:	PRP Remedial Action	Financial ID:	0056
Financial Type:	Extramural Outlay (Payment)	Date:	08/20/2010

Budget Source: Remedial Amount: $9274

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0100
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $107443

Action Name: PRP Remedial Design Financial ID: 0006
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $966

Action Name: PRP Remedial Design Financial ID: 0007
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $1540

Action Name: PRP Remedial Design Financial ID: 0008
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $6549

Action Name: PRP Remedial Design Financial ID: 0009
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $3738

Action Name: PRP Remedial Design Financial ID: 0010
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $2514

Action Name: PRP Remedial Design Financial ID: 0011
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $14797

Action Name: PRP Remedial Design Financial ID: 0012
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $12491

Action Name: PRP Remedial Action Financial ID: 0057
Financial Type: Deobligation Date: 08/24/2010
Budget Source: Remedial Amount: $946953

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0072
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $107443

Action Name: PRP Remedial Design Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $966

Action Name: PRP Remedial Design Financial ID: 0007

Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $1540

Action Name: PRP Remedial Design Financial ID: 0008
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $6549

Action Name: PRP Remedial Design Financial ID: 0009
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $3738

Action Name: PRP Remedial Design Financial ID: 0010
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $2514

Action Name: PRP Remedial Design Financial ID: 0011
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $14797

Action Name: PRP Remedial Design Financial ID: 0012
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $12491

Action Name: PRP Remedial Action Financial ID: 0057
Financial Type: Extramural Outlay (Payment) Date: 08/24/2010
Budget Source: Remedial Amount: $946953

Action Name: Remedial Design Financial ID: 0291
Financial Type: Deobligation Date: 08/25/2010
Budget Source: Remedial Amount: $2596

Action Name: Remedial Design Financial ID: 0288
Financial Type: Extramural Outlay (Payment) Date: 08/25/2010
Budget Source: Remedial Amount: $2596

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0009
Financial Type: Decommitment Date: 08/31/2010
Budget Source: Remedial Amount: $340000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0036
Financial Type: Actual Obligation Date: 08/31/2010
Budget Source: Remedial Amount: $340000

Action Name: PRP Remedial Design Financial ID: 0013
Financial Type: Deobligation Date: 08/31/2010
Budget Source: Remedial Amount: $12801

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0013
Date: 08/31/2010
Amount: $12801

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0292
Date: 09/02/2010
Amount: $3302

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0289
Date: 09/02/2010
Amount: $3302

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0058
Date: 09/10/2010
Amount: $49221

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0058
Date: 09/10/2010
Amount: $49221

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0101
Date: 09/14/2010
Amount: $49069

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0023
Date: 09/14/2010
Amount: $2171

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0293
Date: 09/14/2010
Amount: $3099

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0073
Date: 09/14/2010
Amount: $49069

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0023
Date: 09/14/2010
Amount: $2171

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0290
Date: 09/14/2010
Amount: $3099

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0024
Date: 09/16/2010
Amount: $84484

Action Name:	Remedial Design	Financial ID:	0294
Financial Type:	Deobligation	Date:	09/16/2010
Budget Source:	Remedial	Amount:	$1476
Action Name:	Remedial Design	Financial ID:	0295
Financial Type:	Deobligation	Date:	09/16/2010
Budget Source:	Remedial	Amount:	$7019
Action Name:	Remedial Action	Financial ID:	0024
Financial Type:	Extramural Outlay (Payment)	Date:	09/16/2010
Budget Source:	Remedial	Amount:	$84484
Action Name:	Remedial Design	Financial ID:	0291
Financial Type:	Extramural Outlay (Payment)	Date:	09/16/2010
Budget Source:	Remedial	Amount:	$1476
Action Name:	Remedial Design	Financial ID:	0292
Financial Type:	Extramural Outlay (Payment)	Date:	09/16/2010
Budget Source:	Remedial	Amount:	$7019
Action Name:	Remedial Action	Financial ID:	0025
Financial Type:	Deobligation	Date:	09/21/2010
Budget Source:	Remedial	Amount:	$4102
Action Name:	Remedial Action	Financial ID:	0025
Financial Type:	Extramural Outlay (Payment)	Date:	09/21/2010
Budget Source:	Remedial	Amount:	$4102
Action Name:	Remedial Action	Financial ID:	0026
Financial Type:	Deobligation	Date:	09/22/2010
Budget Source:	Remedial	Amount:	$20860
Action Name:	Remedial Action	Financial ID:	0026
Financial Type:	Extramural Outlay (Payment)	Date:	09/22/2010
Budget Source:	Remedial	Amount:	$20860
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0102
Financial Type:	Deobligation	Date:	10/05/2010
Budget Source:	Remedial	Amount:	$41338
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0074
Financial Type:	Extramural Outlay (Payment)	Date:	10/05/2010
Budget Source:	Remedial	Amount:	$41338
Action Name:	PRP Remedial Design	Financial ID:	0014
Financial Type:	Deobligation	Date:	10/06/2010

Budget Source: Remedial Amount: $30832

Action Name: PRP Remedial Design Financial ID: 0016
Financial Type: Extramural Outlay (Payment) Date: 10/06/2010
Budget Source: Remedial Amount: $30832

Action Name: PRP Remedial Action Financial ID: 0059
Financial Type: Deobligation Date: 10/13/2010
Budget Source: Remedial Amount: $61219

Action Name: PRP Remedial Action Financial ID: 0059
Financial Type: Extramural Outlay (Payment) Date: 10/13/2010
Budget Source: Remedial Amount: $61219

Action Name: Remedial Action Financial ID: 0027
Financial Type: Deobligation Date: 10/15/2010
Budget Source: Remedial Amount: $40593

Action Name: Remedial Action Financial ID: 0027
Financial Type: Extramural Outlay (Payment) Date: 10/15/2010
Budget Source: Remedial Amount: $40593

Action Name: Remedial Action Financial ID: 0028
Financial Type: Deobligation Date: 10/19/2010
Budget Source: Remedial Amount: $3886

Action Name: Remedial Action Financial ID: 0028
Financial Type: Extramural Outlay (Payment) Date: 10/19/2010
Budget Source: Remedial Amount: $3886

Action Name: Remedial Design Financial ID: 0296
Financial Type: Deobligation Date: 10/26/2010
Budget Source: Remedial Amount: $1271

Action Name: Remedial Design Financial ID: 0296
Financial Type: Extramural Outlay (Payment) Date: 10/26/2010
Budget Source: Remedial Amount: $1271

Action Name: PRP Remedial Action Financial ID: 0060
Financial Type: Deobligation Date: 11/12/2010
Budget Source: Remedial Amount: $27310

Action Name: PRP Remedial Action Financial ID: 0060
Financial Type: Extramural Outlay (Payment) Date: 11/12/2010
Budget Source: Remedial Amount: $27310

Action Name: PRP Remedial Action Financial ID: 0061

Financial Type: Deobligation
Budget Source: Remedial
Date: 11/15/2010
Amount: $530634

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0062
Date: 11/15/2010
Amount: $442549

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0063
Date: 11/15/2010
Amount: $144006

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0064
Date: 11/15/2010
Amount: $68546

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0065
Date: 11/15/2010
Amount: $1226049

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0066
Date: 11/15/2010
Amount: $514775

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0297
Date: 11/15/2010
Amount: $784

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0061
Date: 11/15/2010
Amount: $530634

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0062
Date: 11/15/2010
Amount: $442549

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0063
Date: 11/15/2010
Amount: $144006

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0064
Date: 11/15/2010
Amount: $68546

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0065
Date: 11/15/2010
Amount: $1226049

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0066
Date: 11/15/2010
Amount: $514775

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0297
Date: 11/15/2010
Amount: $784

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0067
Date: 11/19/2010
Amount: $6591

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0067
Date: 11/19/2010
Amount: $6591

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0103
Date: 11/23/2010
Amount: $49949

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0075
Date: 11/23/2010
Amount: $49949

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0029
Date: 11/30/2010
Amount: $43068

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0029
Date: 11/30/2010
Amount: $43068

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0030
Date: 12/07/2010
Amount: $29748

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0030
Date: 12/07/2010
Amount: $29748

Action Name: Technical Assistance Grant
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0004
Date: 12/10/2010
Amount: $50000

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0031
Date: 12/10/2010
Amount: $2592

Action Name:	Remedial Action	Financial ID:	0031
Financial Type:	Extramural Outlay (Payment)	Date:	12/10/2010
Budget Source:	Remedial	Amount:	$2592
Action Name:	PRP Remedial Action	Financial ID:	0068
Financial Type:	Deobligation	Date:	12/13/2010
Budget Source:	Remedial	Amount:	$6327
Action Name:	PRP Remedial Action	Financial ID:	0069
Financial Type:	Deobligation	Date:	12/13/2010
Budget Source:	Remedial	Amount:	$9197
Action Name:	PRP Remedial Action	Financial ID:	0068
Financial Type:	Extramural Outlay (Payment)	Date:	12/13/2010
Budget Source:	Remedial	Amount:	$6327
Action Name:	PRP Remedial Action	Financial ID:	0069
Financial Type:	Extramural Outlay (Payment)	Date:	12/13/2010
Budget Source:	Remedial	Amount:	$9197
Action Name:	PRP Remedial Action	Financial ID:	0009
Financial Type:	Commitment	Date:	12/14/2010
Budget Source:	Remedial	Amount:	$150000
Action Name:	Technical Assistance Grant	Financial ID:	0005
Financial Type:	Decommitment	Date:	12/14/2010
Budget Source:	Remedial	Amount:	$50000
Action Name:	Technical Assistance Grant	Financial ID:	0005
Financial Type:	Actual Obligation	Date:	12/14/2010
Budget Source:	Remedial	Amount:	$50000
Action Name:	Technical Assistance Grant	Financial ID:	0006
Financial Type:	Deobligation	Date:	12/14/2010
Budget Source:	Remedial	Amount:	$6008
Action Name:	Technical Assistance Grant	Financial ID:	0007
Financial Type:	Deobligation	Date:	12/14/2010
Budget Source:	Remedial	Amount:	$5909
Action Name:	Technical Assistance Grant	Financial ID:	0008
Financial Type:	Deobligation	Date:	12/14/2010
Budget Source:	Remedial	Amount:	$9898
Action Name:	Technical Assistance Grant	Financial ID:	0009
Financial Type:	Deobligation	Date:	12/14/2010

Budget Source: Remedial Amount: $2890

Action Name: Technical Assistance Grant Financial ID: 0010
Financial Type: Deobligation Date: 12/14/2010
Budget Source: Remedial Amount: $7382

Action Name: Technical Assistance Grant Financial ID: 0011
Financial Type: Deobligation Date: 12/14/2010
Budget Source: Remedial Amount: $1683

Action Name: Technical Assistance Grant Financial ID: 0012
Financial Type: Deobligation Date: 12/14/2010
Budget Source: Remedial Amount: $2100

Action Name: PRP Remedial Action Financial ID: 0012
Financial Type: Decommitment Date: 12/15/2010
Budget Source: Remedial Amount: $150000

Action Name: PRP Remedial Action Financial ID: 0010
Financial Type: Actual Obligation Date: 12/15/2010
Budget Source: Remedial Amount: $150000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0104
Financial Type: Deobligation Date: 12/21/2010
Budget Source: Remedial Amount: $35245

Action Name: Remedial Action Financial ID: 0021
Financial Type: Deobligation Date: 12/21/2010
Budget Source: Remedial Amount: $3280

Action Name: Remedial Action Financial ID: 0032
Financial Type: Deobligation Date: 12/21/2010
Budget Source: Remedial Amount: $2662

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0076
Financial Type: Extramural Outlay (Payment) Date: 12/21/2010
Budget Source: Remedial Amount: $35245

Action Name: Remedial Action Financial ID: 0021
Financial Type: Extramural Outlay (Payment) Date: 12/21/2010
Budget Source: Remedial Amount: $3280

Action Name: Remedial Action Financial ID: 0032
Financial Type: Extramural Outlay (Payment) Date: 12/21/2010
Budget Source: Remedial Amount: $2662

Action Name: PRP Remedial Action Financial ID: 0070

Financial Type: Deobligation
Budget Source: Remedial
Date: 12/27/2010
Amount: $14002

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0070
Date: 12/27/2010
Amount: $14002

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0105
Date: 12/28/2010
Amount: $345

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0077
Date: 12/28/2010
Amount: $345

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0071
Date: 01/13/2011
Amount: $15002

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0071
Date: 01/13/2011
Amount: $15002

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0106
Date: 01/18/2011
Amount: $28678

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0107
Date: 01/18/2011
Amount: $497

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0033
Date: 01/18/2011
Amount: $23664

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0033
Date: 01/18/2011
Amount: $23664

Action Name: PRP Remedial Action
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0010
Date: 01/19/2011
Amount: $2565000

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0298
Date: 01/21/2011
Amount: $1320

Action Name:	Remedial Design	Financial ID:	0298
Financial Type:	Extramural Outlay (Payment)	Date:	01/21/2011
Budget Source:	Remedial	Amount:	$1320
Action Name:	PRP Remedial Action	Financial ID:	0013
Financial Type:	Decommitment	Date:	01/24/2011
Budget Source:	Remedial	Amount:	$2565000
Action Name:	PRP Remedial Action	Financial ID:	0011
Financial Type:	Actual Obligation	Date:	01/24/2011
Budget Source:	Remedial	Amount:	$2565000
Action Name:	PRP Remedial Action	Financial ID:	0072
Financial Type:	Deobligation	Date:	01/24/2011
Budget Source:	Remedial	Amount:	$807213
Action Name:	PRP Remedial Action	Financial ID:	0073
Financial Type:	Deobligation	Date:	01/24/2011
Budget Source:	Remedial	Amount:	$323154
Action Name:	PRP Remedial Action	Financial ID:	0072
Financial Type:	Extramural Outlay (Payment)	Date:	01/24/2011
Budget Source:	Remedial	Amount:	$807213
Action Name:	PRP Remedial Action	Financial ID:	0073
Financial Type:	Extramural Outlay (Payment)	Date:	01/24/2011
Budget Source:	Remedial	Amount:	$323154
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0037
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Remedial	Amount:	$497
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0038
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Remedial	Amount:	$28678
Action Name:	Removal Assessment	Financial ID:	0024
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$27803
Action Name:	Removal Assessment	Financial ID:	0025
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$902
Action Name:	Removal Assessment	Financial ID:	0026
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$8048

Action Name:	Removal Assessment	Financial ID:	0027
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$374
Action Name:	Removal Assessment	Financial ID:	0028
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$13415
Action Name:	Removal Assessment	Financial ID:	0029
Financial Type:	Actual Obligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$1846
Action Name:	Removal Assessment	Financial ID:	0044
Financial Type:	Deobligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$27803
Action Name:	Removal Assessment	Financial ID:	0045
Financial Type:	Deobligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$902
Action Name:	Removal Assessment	Financial ID:	0046
Financial Type:	Deobligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$8048
Action Name:	Removal Assessment	Financial ID:	0047
Financial Type:	Deobligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$374
Action Name:	Removal Assessment	Financial ID:	0048
Financial Type:	Deobligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$13415
Action Name:	Removal Assessment	Financial ID:	0049
Financial Type:	Deobligation	Date:	01/27/2011
Budget Source:	Removal	Amount:	$1846
Action Name:	Removal Assessment	Financial ID:	0042
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2011
Budget Source:	Removal	Amount:	$27803
Action Name:	Removal Assessment	Financial ID:	0043
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2011
Budget Source:	Removal	Amount:	$902
Action Name:	Removal Assessment	Financial ID:	0044
Financial Type:	Extramural Outlay (Payment)	Date:	01/27/2011

Budget Source: Removal
Amount: $8048

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0045
Date: 01/27/2011
Amount: $374

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0046
Date: 01/27/2011
Amount: $13415

Action Name: Removal Assessment
Financial Type: Extramural Outlay (Payment)
Budget Source: Removal
Financial ID: 0047
Date: 01/27/2011
Amount: $1846

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0074
Date: 01/28/2011
Amount: $1859

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0075
Date: 01/28/2011
Amount: $98485

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0074
Date: 01/28/2011
Amount: $1859

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0075
Date: 01/28/2011
Amount: $98485

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0076
Date: 02/11/2011
Amount: $4359

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0076
Date: 02/11/2011
Amount: $4359

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0034
Date: 02/14/2011
Amount: $63933

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0299
Date: 02/14/2011
Amount: $2879

Action Name: Remedial Action
Financial ID: 0034

Financial Type: Extramural Outlay (Payment) Date: 02/14/2011
Budget Source: Remedial Amount: $63933

Action Name: Remedial Design Financial ID: 0299
Financial Type: Extramural Outlay (Payment) Date: 02/14/2011
Budget Source: Remedial Amount: $2879

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0108
Financial Type: Deobligation Date: 02/15/2011
Budget Source: Remedial Amount: $48011

Action Name: Remedial Action Financial ID: 0035
Financial Type: Deobligation Date: 02/15/2011
Budget Source: Remedial Amount: $1265

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0078
Financial Type: Extramural Outlay (Payment) Date: 02/15/2011
Budget Source: Remedial Amount: $48011

Action Name: Remedial Action Financial ID: 0035
Financial Type: Extramural Outlay (Payment) Date: 02/15/2011
Budget Source: Remedial Amount: $1265

Action Name: Remedial Action Financial ID: 0004
Financial Type: Commitment Date: 02/24/2011
Budget Source: Remedial Amount: $51610

Action Name: PRP Remedial Action Financial ID: 0077
Financial Type: Deobligation Date: 02/25/2011
Budget Source: Remedial Amount: $51515

Action Name: PRP Remedial Action Financial ID: 0077
Financial Type: Extramural Outlay (Payment) Date: 02/25/2011
Budget Source: Remedial Amount: $51515

Action Name: PRP Remedial Design Financial ID: 0015
Financial Type: Deobligation Date: 03/02/2011
Budget Source: Remedial Amount: $9470

Action Name: PRP Remedial Design Financial ID: 0017
Financial Type: Extramural Outlay (Payment) Date: 03/02/2011
Budget Source: Remedial Amount: $9470

Action Name: PRP Remedial Action Financial ID: 0078
Financial Type: Deobligation Date: 03/14/2011
Budget Source: Remedial Amount: $29342

Action Name:	PRP Remedial Action	Financial ID:	0079
Financial Type:	Deobligation	Date:	03/14/2011
Budget Source:	Remedial	Amount:	$1084475
Action Name:	Remedial Action	Financial ID:	0036
Financial Type:	Deobligation	Date:	03/14/2011
Budget Source:	Remedial	Amount:	$3591
Action Name:	PRP Remedial Action	Financial ID:	0078
Financial Type:	Extramural Outlay (Payment)	Date:	03/14/2011
Budget Source:	Remedial	Amount:	$29342
Action Name:	PRP Remedial Action	Financial ID:	0079
Financial Type:	Extramural Outlay (Payment)	Date:	03/14/2011
Budget Source:	Remedial	Amount:	$1084475
Action Name:	Remedial Action	Financial ID:	0036
Financial Type:	Extramural Outlay (Payment)	Date:	03/14/2011
Budget Source:	Remedial	Amount:	$3591
Action Name:	PRP Remedial Action	Financial ID:	0080
Financial Type:	Deobligation	Date:	03/15/2011
Budget Source:	Remedial	Amount:	$4368
Action Name:	Remedial Design	Financial ID:	0300
Financial Type:	Deobligation	Date:	03/15/2011
Budget Source:	Remedial	Amount:	$2134
Action Name:	PRP Remedial Action	Financial ID:	0080
Financial Type:	Extramural Outlay (Payment)	Date:	03/15/2011
Budget Source:	Remedial	Amount:	$4368
Action Name:	Remedial Design	Financial ID:	0300
Financial Type:	Extramural Outlay (Payment)	Date:	03/15/2011
Budget Source:	Remedial	Amount:	$2134
Action Name:	PRP Remedial Action	Financial ID:	0081
Financial Type:	Deobligation	Date:	03/22/2011
Budget Source:	Remedial	Amount:	$184144
Action Name:	PRP Remedial Action	Financial ID:	0081
Financial Type:	Extramural Outlay (Payment)	Date:	03/22/2011
Budget Source:	Remedial	Amount:	$184144
Action Name:	Remedial Action	Financial ID:	0037
Financial Type:	Deobligation	Date:	03/23/2011
Budget Source:	Remedial	Amount:	$16490

Action Name:	Remedial Action	Financial ID:	0037
Financial Type:	Extramural Outlay (Payment)	Date:	03/23/2011
Budget Source:	Remedial	Amount:	$16490
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0109
Financial Type:	Deobligation	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$459
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0110
Financial Type:	Deobligation	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$62711
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0111
Financial Type:	Deobligation	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$40692
Action Name:	Remedial Action	Financial ID:	0038
Financial Type:	Deobligation	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$2345
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0079
Financial Type:	Extramural Outlay (Payment)	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$459
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0080
Financial Type:	Extramural Outlay (Payment)	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$62711
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0081
Financial Type:	Extramural Outlay (Payment)	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$40692
Action Name:	Remedial Action	Financial ID:	0038
Financial Type:	Extramural Outlay (Payment)	Date:	04/07/2011
Budget Source:	Remedial	Amount:	$2345
Action Name:	PRP Remedial Action	Financial ID:	0082
Financial Type:	Deobligation	Date:	04/08/2011
Budget Source:	Remedial	Amount:	$1179
Action Name:	PRP Remedial Action	Financial ID:	0082
Financial Type:	Extramural Outlay (Payment)	Date:	04/08/2011
Budget Source:	Remedial	Amount:	$1179
Action Name:	PRP Remedial Design	Financial ID:	0016
Financial Type:	Deobligation	Date:	04/18/2011

Budget Source: Remedial
Amount: $379

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0017
Date: 04/18/2011
Amount: $264

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0018
Date: 04/18/2011
Amount: $1714

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0019
Date: 04/18/2011
Amount: $9560

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0020
Date: 04/18/2011
Amount: $1012

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0021
Date: 04/18/2011
Amount: $11250

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0301
Date: 04/18/2011
Amount: $40

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0302
Date: 04/18/2011
Amount: $1073

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0303
Date: 04/18/2011
Amount: $659

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0304
Date: 04/18/2011
Amount: $604

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0305
Date: 04/18/2011
Amount: $545

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0306
Date: 04/18/2011
Amount: $388

Action Name: Remedial Design
Financial ID: 0307

Financial Type: Deobligation
Budget Source: Remedial
Date: 04/18/2011
Amount: $1300

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0308
Date: 04/18/2011
Amount: $1081

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0309
Date: 04/18/2011
Amount: $21

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0310
Date: 04/18/2011
Amount: $912

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0311
Date: 04/18/2011
Amount: $2622

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0018
Date: 04/18/2011
Amount: $379

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0019
Date: 04/18/2011
Amount: $264

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0020
Date: 04/18/2011
Amount: $1714

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0021
Date: 04/18/2011
Amount: $9560

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0022
Date: 04/18/2011
Amount: $1012

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0023
Date: 04/18/2011
Amount: $11250

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0301
Date: 04/18/2011
Amount: $40

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0302
Date: 04/18/2011
Amount: $1073

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0303
Date: 04/18/2011
Amount: $659

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0304
Date: 04/18/2011
Amount: $604

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0305
Date: 04/18/2011
Amount: $545

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0306
Date: 04/18/2011
Amount: $388

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0307
Date: 04/18/2011
Amount: $1300

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0308
Date: 04/18/2011
Amount: $1081

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0309
Date: 04/18/2011
Amount: $21

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0310
Date: 04/18/2011
Amount: $912

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0311
Date: 04/18/2011
Amount: $2622

Action Name: Remedial Action
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0005
Date: 04/22/2011
Amount: $51610

Action Name: Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0004
Date: 04/22/2011
Amount: $51610

Action Name:	PRP Remedial Action	Financial ID:	0001
Financial Type:	Commitment	Date:	04/28/2011
Budget Source:	Remedial	Amount:	$8441359
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0112
Financial Type:	Deobligation	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$60198
Action Name:	PRP Remedial Action	Financial ID:	0083
Financial Type:	Deobligation	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$602136
Action Name:	Remedial Action	Financial ID:	0039
Financial Type:	Deobligation	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$6448
Action Name:	Remedial Design	Financial ID:	0312
Financial Type:	Deobligation	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$305
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0082
Financial Type:	Extramural Outlay (Payment)	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$60198
Action Name:	PRP Remedial Action	Financial ID:	0083
Financial Type:	Extramural Outlay (Payment)	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$602136
Action Name:	Remedial Action	Financial ID:	0039
Financial Type:	Extramural Outlay (Payment)	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$6448
Action Name:	Remedial Design	Financial ID:	0312
Financial Type:	Extramural Outlay (Payment)	Date:	04/29/2011
Budget Source:	Remedial	Amount:	$305
Action Name:	PRP Remedial Action	Financial ID:	0001
Financial Type:	Decommitment	Date:	05/02/2011
Budget Source:	Remedial	Amount:	$8441359
Action Name:	PRP Remedial Action	Financial ID:	0001
Financial Type:	Actual Obligation	Date:	05/02/2011
Budget Source:	Remedial	Amount:	$8441359
Action Name:	Remedial Action	Financial ID:	0040
Financial Type:	Deobligation	Date:	05/02/2011

Budget Source: Remedial Amount: $53398

Action Name: Remedial Action Financial ID: 0040
Financial Type: Extramural Outlay (Payment) Date: 05/02/2011
Budget Source: Remedial Amount: $53398

Action Name: Remedial Action Financial ID: 0005
Financial Type: Decommitment Date: 05/06/2011
Budget Source: Remedial Amount: $51610

Action Name: Remedial Action Financial ID: 0005
Financial Type: Actual Obligation Date: 05/06/2011
Budget Source: Remedial Amount: $51610

Action Name: PRP Remedial Action Financial ID: 0084
Financial Type: Deobligation Date: 05/12/2011
Budget Source: Remedial Amount: $283

Action Name: PRP Remedial Action Financial ID: 0084
Financial Type: Extramural Outlay (Payment) Date: 05/12/2011
Budget Source: Remedial Amount: $283

Action Name: Remedial Action Financial ID: 0041
Financial Type: Deobligation Date: 05/17/2011
Budget Source: Remedial Amount: $51610

Action Name: Remedial Action Financial ID: 0041
Financial Type: Extramural Outlay (Payment) Date: 05/17/2011
Budget Source: Remedial Amount: $51610

Action Name: PRP Remedial Design Financial ID: 0022
Financial Type: Deobligation Date: 05/20/2011
Budget Source: Remedial Amount: $15487

Action Name: Remedial Action Financial ID: 0022
Financial Type: Deobligation Date: 05/20/2011
Budget Source: Remedial Amount: $16830

Action Name: PRP Remedial Design Financial ID: 0024
Financial Type: Extramural Outlay (Payment) Date: 05/20/2011
Budget Source: Remedial Amount: $15487

Action Name: Remedial Action Financial ID: 0022
Financial Type: Extramural Outlay (Payment) Date: 05/20/2011
Budget Source: Remedial Amount: $16830

Action Name: Remedial Action Financial ID: 0042

Financial Type: Deobligation
Budget Source: Remedial
Date: 05/23/2011
Amount: $70075

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0042
Date: 05/23/2011
Amount: $70075

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0085
Date: 05/24/2011
Amount: $528792

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0085
Date: 05/24/2011
Amount: $528792

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0010
Date: 06/09/2011
Amount: $250000

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0086
Date: 06/09/2011
Amount: $1995

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0086
Date: 06/09/2011
Amount: $1995

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0043
Date: 06/15/2011
Amount: $52079

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0043
Date: 06/15/2011
Amount: $52079

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0010
Date: 06/21/2011
Amount: $250000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0039
Date: 06/21/2011
Amount: $250000

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0044
Date: 06/21/2011
Amount: $4265

Action Name:	Remedial Action	Financial ID:	0044
Financial Type:	Extramural Outlay (Payment)	Date:	06/21/2011
Budget Source:	Remedial	Amount:	$4265
Action Name:	PRP Remedial Action	Financial ID:	0087
Financial Type:	Deobligation	Date:	06/27/2011
Budget Source:	Remedial	Amount:	$324630
Action Name:	PRP Remedial Action	Financial ID:	0087
Financial Type:	Extramural Outlay (Payment)	Date:	06/27/2011
Budget Source:	Remedial	Amount:	$324630
Action Name:	Remedial Action	Financial ID:	0045
Financial Type:	Deobligation	Date:	07/05/2011
Budget Source:	Remedial	Amount:	$5370
Action Name:	Remedial Action	Financial ID:	0045
Financial Type:	Extramural Outlay (Payment)	Date:	07/05/2011
Budget Source:	Remedial	Amount:	$5370
Action Name:	Remedial Action	Financial ID:	0046
Financial Type:	Deobligation	Date:	07/06/2011
Budget Source:	Remedial	Amount:	$22222
Action Name:	Remedial Action	Financial ID:	0046
Financial Type:	Extramural Outlay (Payment)	Date:	07/06/2011
Budget Source:	Remedial	Amount:	$22222
Action Name:	Remedial Action	Financial ID:	0023
Financial Type:	Deobligation	Date:	07/11/2011
Budget Source:	Remedial	Amount:	$2587
Action Name:	Remedial Action	Financial ID:	0047
Financial Type:	Deobligation	Date:	07/11/2011
Budget Source:	Remedial	Amount:	$235563
Action Name:	Remedial Design	Financial ID:	0313
Financial Type:	Deobligation	Date:	07/11/2011
Budget Source:	Remedial	Amount:	$2280
Action Name:	Remedial Design	Financial ID:	0313
Financial Type:	Extramural Outlay (Payment)	Date:	07/11/2011
Budget Source:	Remedial	Amount:	$2280
Action Name:	PRP Remedial Action	Financial ID:	0088
Financial Type:	Deobligation	Date:	07/18/2011
Budget Source:	Remedial	Amount:	$275823

Action Name:	PRP Remedial Action	Financial ID:	0089
Financial Type:	Deobligation	Date:	07/18/2011
Budget Source:	Remedial	Amount:	$230684
Action Name:	PRP Remedial Action	Financial ID:	0088
Financial Type:	Extramural Outlay (Payment)	Date:	07/18/2011
Budget Source:	Remedial	Amount:	$275823
Action Name:	PRP Remedial Action	Financial ID:	0089
Financial Type:	Extramural Outlay (Payment)	Date:	07/18/2011
Budget Source:	Remedial	Amount:	$230684
Action Name:	Remedial Design	Financial ID:	0314
Financial Type:	Deobligation	Date:	07/22/2011
Budget Source:	Remedial	Amount:	$25205
Action Name:	Remedial Design	Financial ID:	0314
Financial Type:	Extramural Outlay (Payment)	Date:	07/22/2011
Budget Source:	Remedial	Amount:	$25205
Action Name:	Remedial Action	Financial ID:	0006
Financial Type:	Commitment	Date:	07/25/2011
Budget Source:	Remedial	Amount:	$628000
Action Name:	Remedial Action	Financial ID:	0006
Financial Type:	Decommitment	Date:	07/28/2011
Budget Source:	Remedial	Amount:	$628000
Action Name:	Remedial Action	Financial ID:	0006
Financial Type:	Actual Obligation	Date:	07/28/2011
Budget Source:	Remedial	Amount:	$628000
Action Name:	Remedial Action	Financial ID:	0048
Financial Type:	Deobligation	Date:	08/01/2011
Budget Source:	Remedial	Amount:	$28789
Action Name:	Remedial Action	Financial ID:	0047
Financial Type:	Extramural Outlay (Payment)	Date:	08/01/2011
Budget Source:	Remedial	Amount:	$28789
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Actual Obligation	Date:	08/09/2011
Budget Source:	Remedial	Amount:	$179
Action Name:	PRP Remedial Design	Financial ID:	0003
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/09/2011

Budget Source: Remedial Amount: $179

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0113
Financial Type: Deobligation Date: 08/12/2011
Budget Source: Remedial Amount: $23886

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0114
Financial Type: Deobligation Date: 08/12/2011
Budget Source: Remedial Amount: $26141

Action Name: Remedial Action Financial ID: 0049
Financial Type: Deobligation Date: 08/12/2011
Budget Source: Remedial Amount: $3424

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0083
Financial Type: Extramural Outlay (Payment) Date: 08/12/2011
Budget Source: Remedial Amount: $23886

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0084
Financial Type: Extramural Outlay (Payment) Date: 08/12/2011
Budget Source: Remedial Amount: $26141

Action Name: Remedial Action Financial ID: 0048
Financial Type: Extramural Outlay (Payment) Date: 08/12/2011
Budget Source: Remedial Amount: $3424

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0115
Financial Type: Deobligation Date: 08/26/2011
Budget Source: Remedial Amount: $28231

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0116
Financial Type: Deobligation Date: 08/26/2011
Budget Source: Remedial Amount: $32783

Action Name: PRP Remedial Action Financial ID: 0090
Financial Type: Deobligation Date: 08/26/2011
Budget Source: Remedial Amount: $571524

Action Name: Remedial Action Financial ID: 0050
Financial Type: Deobligation Date: 08/26/2011
Budget Source: Remedial Amount: $2468

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0085
Financial Type: Extramural Outlay (Payment) Date: 08/26/2011
Budget Source: Remedial Amount: $28231

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0086

Financial Type: Extramural Outlay (Payment) Date: 08/26/2011
Budget Source: Remedial Amount: $32783

Action Name: PRP Remedial Action Financial ID: 0090
Financial Type: Extramural Outlay (Payment) Date: 08/26/2011
Budget Source: Remedial Amount: $571524

Action Name: Remedial Action Financial ID: 0049
Financial Type: Extramural Outlay (Payment) Date: 08/26/2011
Budget Source: Remedial Amount: $2468

Action Name: Remedial Action Financial ID: 0051
Financial Type: Deobligation Date: 09/13/2011
Budget Source: Remedial Amount: $24007

Action Name: Remedial Action Financial ID: 0050
Financial Type: Extramural Outlay (Payment) Date: 09/13/2011
Budget Source: Remedial Amount: $24007

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0040
Financial Type: Actual Obligation Date: 09/21/2011
Budget Source: Remedial Amount: $1010000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0117
Financial Type: Deobligation Date: 09/21/2011
Budget Source: Remedial Amount: $1010000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0028
Financial Type: Extramural Deoutlay (Credit) Date: 09/21/2011
Budget Source: Remedial Amount: $1010000

Action Name: PRP Remedial Design Financial ID: 0023
Financial Type: Deobligation Date: 09/22/2011
Budget Source: Remedial Amount: $221

Action Name: Remedial Design Financial ID: 0315
Financial Type: Deobligation Date: 09/22/2011
Budget Source: Remedial Amount: $2992

Action Name: PRP Remedial Design Financial ID: 0025
Financial Type: Extramural Outlay (Payment) Date: 09/22/2011
Budget Source: Remedial Amount: $221

Action Name: Remedial Design Financial ID: 0315
Financial Type: Extramural Outlay (Payment) Date: 09/22/2011
Budget Source: Remedial Amount: $2992

Action Name:	PRP Remedial Design	Financial ID:	0024
Financial Type:	Deobligation	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$379
Action Name:	PRP Remedial Design	Financial ID:	0025
Financial Type:	Deobligation	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$759
Action Name:	PRP Remedial Design	Financial ID:	0026
Financial Type:	Deobligation	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$1479
Action Name:	Remedial Design	Financial ID:	0316
Financial Type:	Deobligation	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$300
Action Name:	Remedial Design	Financial ID:	0317
Financial Type:	Deobligation	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$403
Action Name:	Remedial Design	Financial ID:	0318
Financial Type:	Deobligation	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$410
Action Name:	PRP Remedial Design	Financial ID:	0026
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$379
Action Name:	PRP Remedial Design	Financial ID:	0027
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$759
Action Name:	PRP Remedial Design	Financial ID:	0028
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$1479
Action Name:	Remedial Design	Financial ID:	0316
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$300
Action Name:	Remedial Design	Financial ID:	0317
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$403
Action Name:	Remedial Design	Financial ID:	0318
Financial Type:	Extramural Outlay (Payment)	Date:	09/23/2011
Budget Source:	Remedial	Amount:	$410

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0052
Date: 09/26/2011
Amount: $35499

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0051
Date: 09/26/2011
Amount: $35499

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0118
Date: 09/27/2011
Amount: $60656

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0087
Date: 09/27/2011
Amount: $60656

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0027
Date: 09/28/2011
Amount: $10434

Action Name: Technical Assistance Grant
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0005
Date: 09/28/2011
Amount: $6242

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0029
Date: 09/28/2011
Amount: $10434

Action Name: Technical Assistance Grant
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0005
Date: 09/28/2011
Amount: $6242

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0132
Date: 10/26/2011
Amount: $17479

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0133
Date: 10/26/2011
Amount: $28386

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0093
Date: 10/26/2011
Amount: $169641

Action Name: PRP Remedial Action
Financial Type: Deobligation
Financial ID: 0094
Date: 10/26/2011

Budget Source: Remedial Amount: $366655

Action Name: Remedial Action Financial ID: 0062
Financial Type: Deobligation Date: 10/26/2011
Budget Source: Remedial Amount: $1018

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0088
Financial Type: Extramural Outlay (Payment) Date: 10/26/2011
Budget Source: Remedial Amount: $17479

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0089
Financial Type: Extramural Outlay (Payment) Date: 10/26/2011
Budget Source: Remedial Amount: $28386

Action Name: PRP Remedial Action Financial ID: 0091
Financial Type: Extramural Outlay (Payment) Date: 10/26/2011
Budget Source: Remedial Amount: $169641

Action Name: PRP Remedial Action Financial ID: 0092
Financial Type: Extramural Outlay (Payment) Date: 10/26/2011
Budget Source: Remedial Amount: $366655

Action Name: Remedial Action Financial ID: 0054
Financial Type: Extramural Outlay (Payment) Date: 10/26/2011
Budget Source: Remedial Amount: $1018

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0090
Financial Type: Extramural Outlay (Payment) Date: 10/29/2011
Budget Source: Remedial Amount: $28386

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0091
Financial Type: Extramural Outlay (Payment) Date: 10/29/2011
Budget Source: Remedial Amount: $17479

Action Name: PRP Remedial Action Financial ID: 0093
Financial Type: Extramural Outlay (Payment) Date: 10/29/2011
Budget Source: Remedial Amount: $169641

Action Name: PRP Remedial Action Financial ID: 0094
Financial Type: Extramural Outlay (Payment) Date: 10/29/2011
Budget Source: Remedial Amount: $366655

Action Name: Remedial Action Financial ID: 0052
Financial Type: Extramural Outlay (Payment) Date: 10/29/2011
Budget Source: Remedial Amount: $1018

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0029

Financial Type: Extramural Deoutlay (Credit) Date: 10/29/2011
Budget Source: Remedial Amount: $28386

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0030
Financial Type: Extramural Deoutlay (Credit) Date: 10/29/2011
Budget Source: Remedial Amount: $17479

Action Name: PRP Remedial Action Financial ID: 0001
Financial Type: Extramural Deoutlay (Credit) Date: 10/29/2011
Budget Source: Remedial Amount: $169641

Action Name: PRP Remedial Action Financial ID: 0002
Financial Type: Extramural Deoutlay (Credit) Date: 10/29/2011
Budget Source: Remedial Amount: $366655

Action Name: Remedial Action Financial ID: 0003
Financial Type: Extramural Deoutlay (Credit) Date: 10/29/2011
Budget Source: Remedial Amount: $1018

Action Name: Remedial Action Financial ID: 0063
Financial Type: Deobligation Date: 11/07/2011
Budget Source: Remedial Amount: $3424

Action Name: Remedial Action Financial ID: 0055
Financial Type: Extramural Outlay (Payment) Date: 11/07/2011
Budget Source: Remedial Amount: $3424

Action Name: Remedial Action Financial ID: 0053
Financial Type: Extramural Outlay (Payment) Date: 11/11/2011
Budget Source: Remedial Amount: $3424

Action Name: Remedial Action Financial ID: 0002
Financial Type: Extramural Deoutlay (Credit) Date: 11/11/2011
Budget Source: Remedial Amount: $3424

Action Name: Remedial Action Financial ID: 0007
Financial Type: Commitment Date: 11/16/2011
Budget Source: Remedial Amount: $634933

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0041
Financial Type: Actual Obligation Date: 11/16/2011
Budget Source: Remedial Amount: $497

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0043
Financial Type: Actual Obligation Date: 11/16/2011
Budget Source: Remedial Amount: $28678

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0128
Financial Type:	Deobligation	Date:	11/16/2011
Budget Source:	Remedial	Amount:	$497
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0130
Financial Type:	Deobligation	Date:	11/16/2011
Budget Source:	Remedial	Amount:	$28678
Action Name:	Remedial Action	Financial ID:	0007
Financial Type:	Decommitment	Date:	11/18/2011
Budget Source:	Remedial	Amount:	$634933
Action Name:	Remedial Action	Financial ID:	0009
Financial Type:	Actual Obligation	Date:	11/18/2011
Budget Source:	Remedial	Amount:	$634933
Action Name:	Remedial Action	Financial ID:	0059
Financial Type:	Deobligation	Date:	11/22/2011
Budget Source:	Remedial	Amount:	$45402
Action Name:	Remedial Action	Financial ID:	0064
Financial Type:	Deobligation	Date:	11/22/2011
Budget Source:	Remedial	Amount:	$650
Action Name:	Remedial Design	Financial ID:	0319
Financial Type:	Deobligation	Date:	11/22/2011
Budget Source:	Remedial	Amount:	$2011
Action Name:	Remedial Action	Financial ID:	0056
Financial Type:	Extramural Outlay (Payment)	Date:	11/22/2011
Budget Source:	Remedial	Amount:	$650
Action Name:	Remedial Action	Financial ID:	0057
Financial Type:	Extramural Outlay (Payment)	Date:	11/22/2011
Budget Source:	Remedial	Amount:	$45402
Action Name:	Remedial Design	Financial ID:	0319
Financial Type:	Extramural Outlay (Payment)	Date:	11/22/2011
Budget Source:	Remedial	Amount:	$2011
Action Name:	Remedial Action	Financial ID:	0058
Financial Type:	Extramural Outlay (Payment)	Date:	11/26/2011
Budget Source:	Remedial	Amount:	$45402
Action Name:	Remedial Action	Financial ID:	0059
Financial Type:	Extramural Outlay (Payment)	Date:	11/26/2011
Budget Source:	Remedial	Amount:	$650

Action Name:	Remedial Design	Financial ID:	0320
Financial Type:	Extramural Outlay (Payment)	Date:	11/26/2011
Budget Source:	Remedial	Amount:	$2011
Action Name:	Remedial Action	Financial ID:	0004
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/26/2011
Budget Source:	Remedial	Amount:	$650
Action Name:	Remedial Action	Financial ID:	0005
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/26/2011
Budget Source:	Remedial	Amount:	$45402
Action Name:	Remedial Design	Financial ID:	0007
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/26/2011
Budget Source:	Remedial	Amount:	$2011
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0127
Financial Type:	Deobligation	Date:	11/29/2011
Budget Source:	Remedial	Amount:	$497
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0129
Financial Type:	Deobligation	Date:	11/29/2011
Budget Source:	Remedial	Amount:	$28678
Action Name:	PRP Remedial Action	Financial ID:	0095
Financial Type:	Deobligation	Date:	11/29/2011
Budget Source:	Remedial	Amount:	$877604
Action Name:	PRP Remedial Action	Financial ID:	0096
Financial Type:	Deobligation	Date:	11/29/2011
Budget Source:	Remedial	Amount:	$348892
Action Name:	PRP Remedial Action	Financial ID:	0004
Financial Type:	Deobligation	Date:	11/29/2011
Budget Source:	Remedial	Amount:	$57923
Action Name:	PRP Remedial Action	Financial ID:	0095
Financial Type:	Extramural Outlay (Payment)	Date:	11/29/2011
Budget Source:	Remedial	Amount:	$348892
Action Name:	PRP Remedial Action	Financial ID:	0096
Financial Type:	Extramural Outlay (Payment)	Date:	11/29/2011
Budget Source:	Remedial	Amount:	$877604
Action Name:	PRP Remedial Action	Financial ID:	0001
Financial Type:	Extramural Outlay (Payment)	Date:	11/29/2011

Budget Source: Remedial
Amount: $57923

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0058
Date: 11/30/2011
Amount: $634933

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0060
Date: 11/30/2011
Amount: $634933

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0016
Date: 12/01/2011
Amount: $55000

Action Name: PRP Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0018
Date: 12/01/2011
Amount: $150000

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0030
Date: 12/01/2011
Amount: $71322

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0032
Date: 12/01/2011
Amount: $337

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0091
Date: 12/01/2011
Amount: $55000

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0092
Date: 12/01/2011
Amount: $150000

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0050
Date: 12/01/2011
Amount: $337

Action Name: Removal Assessment
Financial Type: Deobligation
Budget Source: Removal
Financial ID: 0052
Date: 12/01/2011
Amount: $71322

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0097
Date: 12/02/2011
Amount: $877604

Action Name: PRP Remedial Action
Financial ID: 0098

Financial Type: Extramural Outlay (Payment) Date: 12/02/2011
Budget Source: Remedial Amount: $348892

Action Name: PRP Remedial Action Financial ID: 0002
Financial Type: Extramural Outlay (Payment) Date: 12/02/2011
Budget Source: Remedial Amount: $57923

Action Name: PRP Remedial Action Financial ID: 0003
Financial Type: Extramural Deoutlay (Credit) Date: 12/02/2011
Budget Source: Remedial Amount: $348892

Action Name: PRP Remedial Action Financial ID: 0004
Financial Type: Extramural Deoutlay (Credit) Date: 12/02/2011
Budget Source: Remedial Amount: $877604

Action Name: PRP Remedial Action Financial ID: 0001
Financial Type: Extramural Deoutlay (Credit) Date: 12/02/2011
Budget Source: Remedial Amount: $57923

Action Name: Remedial Action Financial ID: 0061
Financial Type: Extramural Outlay (Payment) Date: 12/06/2011
Budget Source: Remedial Amount: $634933

Action Name: Remedial Action Financial ID: 0006
Financial Type: Extramural Deoutlay (Credit) Date: 12/06/2011
Budget Source: Remedial Amount: $634933

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0134
Financial Type: Deobligation Date: 12/08/2011
Budget Source: Remedial Amount: $4726

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0135
Financial Type: Deobligation Date: 12/08/2011
Budget Source: Remedial Amount: $10311

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0092
Financial Type: Extramural Outlay (Payment) Date: 12/08/2011
Budget Source: Remedial Amount: $10311

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0093
Financial Type: Extramural Outlay (Payment) Date: 12/08/2011
Budget Source: Remedial Amount: $4726

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0094
Financial Type: Extramural Outlay (Payment) Date: 12/13/2011
Budget Source: Remedial Amount: $4726

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0095
Date: 12/13/2011
Amount: $10311

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0031
Date: 12/13/2011
Amount: $10311

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0032
Date: 12/13/2011
Amount: $4726

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0060
Date: 12/20/2011
Amount: $31442

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0062
Date: 12/20/2011
Amount: $31442

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0136
Date: 12/21/2011
Amount: $84549

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0096
Date: 12/21/2011
Amount: $84549

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0011
Date: 12/22/2011
Amount: $580000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0011
Date: 12/22/2011
Amount: $580000

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0063
Date: 12/23/2011
Amount: $31442

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0007
Date: 12/23/2011
Amount: $31442

Action Name: PRP Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0005
Date: 12/28/2011
Amount: $43788

Action Name:	Remedial Action	Financial ID:	0065
Financial Type:	Deobligation	Date:	12/28/2011
Budget Source:	Remedial	Amount:	$1667
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0097
Financial Type:	Extramural Outlay (Payment)	Date:	12/28/2011
Budget Source:	Remedial	Amount:	$84549
Action Name:	PRP Remedial Action	Financial ID:	0003
Financial Type:	Extramural Outlay (Payment)	Date:	12/28/2011
Budget Source:	Remedial	Amount:	$43788
Action Name:	Remedial Action	Financial ID:	0064
Financial Type:	Extramural Outlay (Payment)	Date:	12/28/2011
Budget Source:	Remedial	Amount:	$1667
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0033
Financial Type:	Extramural Deoutlay (Credit)	Date:	12/28/2011
Budget Source:	Remedial	Amount:	$84549
Action Name:	PRP Remedial Action	Financial ID:	0004
Financial Type:	Extramural Outlay (Payment)	Date:	12/31/2011
Budget Source:	Remedial	Amount:	$43788
Action Name:	Remedial Action	Financial ID:	0066
Financial Type:	Extramural Outlay (Payment)	Date:	12/31/2011
Budget Source:	Remedial	Amount:	$1667
Action Name:	PRP Remedial Action	Financial ID:	0002
Financial Type:	Extramural Deoutlay (Credit)	Date:	12/31/2011
Budget Source:	Remedial	Amount:	$43788
Action Name:	Remedial Action	Financial ID:	0008
Financial Type:	Extramural Deoutlay (Credit)	Date:	12/31/2011
Budget Source:	Remedial	Amount:	$1667
Action Name:	Removal Assessment	Financial ID:	0034
Financial Type:	Actual Obligation	Date:	01/04/2012
Budget Source:	Removal	Amount:	$49493
Action Name:	Remedial Action	Financial ID:	0061
Financial Type:	Deobligation	Date:	01/04/2012
Budget Source:	Remedial	Amount:	$39433
Action Name:	Removal Assessment	Financial ID:	0051
Financial Type:	Deobligation	Date:	01/04/2012

Budget Source: Removal
Amount: $49493

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0065
Date: 01/04/2012
Amount: $39433

Action Name: PRP Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0028
Date: 01/10/2012
Amount: $138

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0320
Date: 01/10/2012
Amount: $620

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0321
Date: 01/10/2012
Amount: $337

Action Name: Remedial Design
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0322
Date: 01/10/2012
Amount: $90

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0030
Date: 01/10/2012
Amount: $138

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0067
Date: 01/10/2012
Amount: $39433

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0321
Date: 01/10/2012
Amount: $620

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0322
Date: 01/10/2012
Amount: $337

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0323
Date: 01/10/2012
Amount: $90

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0009
Date: 01/10/2012
Amount: $39433

Action Name: PRP Remedial Design
Financial ID: 0031

Financial Type: Extramural Outlay (Payment) Date: 01/11/2012
Budget Source: Remedial Amount: $138

Action Name: Remedial Design Financial ID: 0324
Financial Type: Extramural Outlay (Payment) Date: 01/11/2012
Budget Source: Remedial Amount: $620

Action Name: Remedial Design Financial ID: 0325
Financial Type: Extramural Outlay (Payment) Date: 01/11/2012
Budget Source: Remedial Amount: $337

Action Name: Remedial Design Financial ID: 0326
Financial Type: Extramural Outlay (Payment) Date: 01/11/2012
Budget Source: Remedial Amount: $90

Action Name: PRP Remedial Design Financial ID: 0004
Financial Type: Extramural Deoutlay (Credit) Date: 01/11/2012
Budget Source: Remedial Amount: $138

Action Name: Remedial Design Financial ID: 0008
Financial Type: Extramural Deoutlay (Credit) Date: 01/11/2012
Budget Source: Remedial Amount: $90

Action Name: Remedial Design Financial ID: 0009
Financial Type: Extramural Deoutlay (Credit) Date: 01/11/2012
Budget Source: Remedial Amount: $337

Action Name: Remedial Design Financial ID: 0010
Financial Type: Extramural Deoutlay (Credit) Date: 01/11/2012
Budget Source: Remedial Amount: $620

Action Name: Technical Assistance Grant Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 01/13/2012
Budget Source: Remedial Amount: $6008

Action Name: PRP Remedial Action Financial ID: 0005
Financial Type: Extramural Outlay (Payment) Date: 01/19/2012
Budget Source: Remedial Amount: $430536

Action Name: Remedial Action Financial ID: 0068
Financial Type: Extramural Outlay (Payment) Date: 01/19/2012
Budget Source: Remedial Amount: $2666

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0052
Financial Type: Actual Obligation Date: 01/20/2012
Budget Source: Remedial Amount: $570180

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0053
Date: 01/20/2012
Amount: $340000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0054
Date: 01/20/2012
Amount: $580000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0055
Date: 01/20/2012
Amount: $120000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0056
Date: 01/20/2012
Amount: $1035000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0057
Date: 01/20/2012
Amount: $100000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0058
Date: 01/20/2012
Amount: $250000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0125
Date: 01/20/2012
Amount: $2575

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0126
Date: 01/20/2012
Amount: $31089

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0137
Date: 01/20/2012
Amount: $17770

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0138
Date: 01/20/2012
Amount: $51247

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0139
Date: 01/20/2012
Amount: $777

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0140
Date: 01/20/2012
Amount: $22122

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0141
Date: 01/20/2012
Amount: $18157

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0142
Date: 01/20/2012
Amount: $10479

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0143
Date: 01/20/2012
Amount: $29613

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0144
Date: 01/20/2012
Amount: $17364

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0145
Date: 01/20/2012
Amount: $156

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0146
Date: 01/20/2012
Amount: $10678

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0147
Date: 01/20/2012
Amount: $12121

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0148
Date: 01/20/2012
Amount: $40268

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0149
Date: 01/20/2012
Amount: $45923

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0150
Date: 01/20/2012
Amount: $25201

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0151
Date: 01/20/2012
Amount: $2965

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Financial ID: 0152
Date: 01/20/2012

Budget Source: Remedial Amount: $16771

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0153
Financial Type: Deobligation Date: 01/20/2012
Budget Source: Remedial Amount: $3450

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0154
Financial Type: Deobligation Date: 01/20/2012
Budget Source: Remedial Amount: $10228

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0155
Financial Type: Deobligation Date: 01/20/2012
Budget Source: Remedial Amount: $5232

Action Name: PRP Remedial Action Financial ID: 0006
Financial Type: Extramural Outlay (Payment) Date: 01/24/2012
Budget Source: Remedial Amount: $430536

Action Name: Remedial Action Financial ID: 0037
Financial Type: Extramural Outlay (Payment) Date: 01/24/2012
Budget Source: Remedial Amount: $23722

Action Name: Remedial Action Financial ID: 0069
Financial Type: Extramural Outlay (Payment) Date: 01/24/2012
Budget Source: Remedial Amount: $2666

Action Name: PRP Remedial Action Financial ID: 0003
Financial Type: Extramural Deoutlay (Credit) Date: 01/24/2012
Budget Source: Remedial Amount: $430536

Action Name: Remedial Action Financial ID: 0010
Financial Type: Extramural Deoutlay (Credit) Date: 01/24/2012
Budget Source: Remedial Amount: $2666

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0098
Financial Type: Extramural Outlay (Payment) Date: 01/30/2012
Budget Source: Remedial Amount: $2575

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0099
Financial Type: Extramural Outlay (Payment) Date: 02/02/2012
Budget Source: Remedial Amount: $2575

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0034
Financial Type: Extramural Deoutlay (Credit) Date: 02/02/2012
Budget Source: Remedial Amount: $2575

Action Name: Remedial Action Financial ID: 0070

Financial Type: Extramural Outlay (Payment) Date: 02/08/2012
Budget Source: Remedial Amount: $13047

Action Name: PRP Remedial Action Financial ID: 0007
Financial Type: Extramural Outlay (Payment) Date: 02/13/2012
Budget Source: Remedial Amount: $421877

Action Name: Remedial Action Financial ID: 0071
Financial Type: Extramural Outlay (Payment) Date: 02/13/2012
Budget Source: Remedial Amount: $2195

Action Name: Remedial Action Financial ID: 0072
Financial Type: Extramural Outlay (Payment) Date: 02/15/2012
Budget Source: Remedial Amount: $13047

Action Name: Remedial Action Financial ID: 0011
Financial Type: Extramural Deoutlay (Credit) Date: 02/15/2012
Budget Source: Remedial Amount: $13047

Action Name: PRP Remedial Action Financial ID: 0008
Financial Type: Extramural Outlay (Payment) Date: 02/16/2012
Budget Source: Remedial Amount: $421877

Action Name: Remedial Action Financial ID: 0073
Financial Type: Extramural Outlay (Payment) Date: 02/16/2012
Budget Source: Remedial Amount: $2195

Action Name: PRP Remedial Action Financial ID: 0004
Financial Type: Extramural Deoutlay (Credit) Date: 02/16/2012
Budget Source: Remedial Amount: $421877

Action Name: Remedial Action Financial ID: 0012
Financial Type: Extramural Deoutlay (Credit) Date: 02/16/2012
Budget Source: Remedial Amount: $2195

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0059
Financial Type: Actual Obligation Date: 03/01/2012
Budget Source: Remedial Amount: $337

Action Name: Remedial Action Financial ID: 0015
Financial Type: Actual Obligation Date: 03/01/2012
Budget Source: Remedial Amount: $91151

Action Name: Removal Assessment Financial ID: 0035
Financial Type: Actual Obligation Date: 03/01/2012
Budget Source: Removal Amount: $7679

Action Name: Removal Assessment
Financial Type: Actual Obligation
Budget Source: Removal
Financial ID: 0036
Date: 03/01/2012
Amount: $337

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0100
Date: 03/09/2012
Amount: $31089

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0009
Date: 03/09/2012
Amount: $40248

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0074
Date: 03/09/2012
Amount: $1728

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0075
Date: 03/12/2012
Amount: $27464

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0101
Date: 03/14/2012
Amount: $31089

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0010
Date: 03/14/2012
Amount: $40248

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0076
Date: 03/14/2012
Amount: $1728

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0035
Date: 03/14/2012
Amount: $31089

Action Name: PRP Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0005
Date: 03/14/2012
Amount: $40248

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0013
Date: 03/14/2012
Amount: $1728

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0077
Date: 03/15/2012
Amount: $27464

Action Name:	Remedial Action	Financial ID:	0014
Financial Type:	Extramural Deoutlay (Credit)	Date:	03/15/2012
Budget Source:	Remedial	Amount:	$27464
Action Name:	Remedial Action	Financial ID:	0078
Financial Type:	Extramural Outlay (Payment)	Date:	04/06/2012
Budget Source:	Remedial	Amount:	$55304
Action Name:	Technical Assistance Grant	Financial ID:	0007
Financial Type:	Extramural Outlay (Payment)	Date:	04/06/2012
Budget Source:	Remedial	Amount:	$5909
Action Name:	PRP Remedial Action	Financial ID:	0002
Financial Type:	Commitment	Date:	04/16/2012
Budget Source:	Remedial	Amount:	$7500
Action Name:	PRP Remedial Action	Financial ID:	0002
Financial Type:	Decommitment	Date:	04/16/2012
Budget Source:	Remedial	Amount:	$7500
Action Name:	PRP Remedial Action	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	04/16/2012
Budget Source:	Remedial	Amount:	$414425
Action Name:	Remedial Action	Financial ID:	0079
Financial Type:	Extramural Outlay (Payment)	Date:	04/16/2012
Budget Source:	Remedial	Amount:	$1526
Action Name:	Remedial Action	Financial ID:	0080
Financial Type:	Extramural Outlay (Payment)	Date:	04/16/2012
Budget Source:	Remedial	Amount:	$55304
Action Name:	Remedial Action	Financial ID:	0015
Financial Type:	Extramural Deoutlay (Credit)	Date:	04/16/2012
Budget Source:	Remedial	Amount:	$55304
Action Name:	PRP Remedial Action	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	04/19/2012
Budget Source:	Remedial	Amount:	$414425
Action Name:	Remedial Action	Financial ID:	0081
Financial Type:	Extramural Outlay (Payment)	Date:	04/19/2012
Budget Source:	Remedial	Amount:	$1526
Action Name:	PRP Remedial Action	Financial ID:	0006
Financial Type:	Extramural Deoutlay (Credit)	Date:	04/19/2012

Budget Source: Remedial Amount: $414425

Action Name: Remedial Action Financial ID: 0016
Financial Type: Extramural Deoutlay (Credit) Date: 04/19/2012
Budget Source: Remedial Amount: $1526

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0102
Financial Type: Extramural Outlay (Payment) Date: 04/23/2012
Budget Source: Remedial Amount: $17770

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0103
Financial Type: Extramural Outlay (Payment) Date: 04/23/2012
Budget Source: Remedial Amount: $51247

Action Name: PRP Remedial Design Financial ID: 0032
Financial Type: Extramural Outlay (Payment) Date: 04/24/2012
Budget Source: Remedial Amount: $19582

Action Name: PRP Remedial Action Financial ID: 0002
Financial Type: Actual Obligation Date: 04/26/2012
Budget Source: Remedial Amount: $7500

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0104
Financial Type: Extramural Outlay (Payment) Date: 04/26/2012
Budget Source: Remedial Amount: $17770

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0105
Financial Type: Extramural Outlay (Payment) Date: 04/26/2012
Budget Source: Remedial Amount: $51247

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0036
Financial Type: Extramural Deoutlay (Credit) Date: 04/26/2012
Budget Source: Remedial Amount: $51247

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0037
Financial Type: Extramural Deoutlay (Credit) Date: 04/26/2012
Budget Source: Remedial Amount: $17770

Action Name: PRP Remedial Design Financial ID: 0033
Financial Type: Extramural Outlay (Payment) Date: 05/07/2012
Budget Source: Remedial Amount: $2289

Action Name: PRP Remedial Design Financial ID: 0034
Financial Type: Extramural Outlay (Payment) Date: 05/07/2012
Budget Source: Remedial Amount: $229

Action Name: PRP Remedial Design Financial ID: 0035

Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Date: 05/07/2012
Amount: $772

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0036
Date: 05/07/2012
Amount: $1082

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0037
Date: 05/07/2012
Amount: $244

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0327
Date: 05/07/2012
Amount: $806

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0328
Date: 05/07/2012
Amount: $189

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0329
Date: 05/07/2012
Amount: $361

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0330
Date: 05/07/2012
Amount: $7511

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0331
Date: 05/07/2012
Amount: $678

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0082
Date: 05/08/2012
Amount: $34669

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0038
Date: 05/10/2012
Amount: $229

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0039
Date: 05/10/2012
Amount: $2289

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0040
Date: 05/10/2012
Amount: $772

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0041
Date: 05/10/2012
Amount: $1082

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0042
Date: 05/10/2012
Amount: $244

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0013
Date: 05/10/2012
Amount: $174897

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0083
Date: 05/10/2012
Amount: $2401

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0332
Date: 05/10/2012
Amount: $189

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0333
Date: 05/10/2012
Amount: $7511

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0334
Date: 05/10/2012
Amount: $678

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0335
Date: 05/10/2012
Amount: $806

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0336
Date: 05/10/2012
Amount: $361

Action Name: PRP Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0005
Date: 05/10/2012
Amount: $229

Action Name: PRP Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0006
Date: 05/10/2012
Amount: $2289

Action Name: PRP Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0007
Date: 05/10/2012
Amount: $772

Action Name:	PRP Remedial Design	Financial ID:	0008
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/10/2012
Budget Source:	Remedial	Amount:	$1082
Action Name:	PRP Remedial Design	Financial ID:	0009
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/10/2012
Budget Source:	Remedial	Amount:	$244
Action Name:	Remedial Design	Financial ID:	0011
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/10/2012
Budget Source:	Remedial	Amount:	$189
Action Name:	Remedial Design	Financial ID:	0012
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/10/2012
Budget Source:	Remedial	Amount:	$7511
Action Name:	Remedial Design	Financial ID:	0013
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/10/2012
Budget Source:	Remedial	Amount:	$678
Action Name:	Remedial Design	Financial ID:	0014
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/10/2012
Budget Source:	Remedial	Amount:	$806
Action Name:	Remedial Design	Financial ID:	0015
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/10/2012
Budget Source:	Remedial	Amount:	$361
Action Name:	PRP Remedial Action	Financial ID:	0014
Financial Type:	Extramural Outlay (Payment)	Date:	05/15/2012
Budget Source:	Remedial	Amount:	$174897
Action Name:	Remedial Action	Financial ID:	0084
Financial Type:	Extramural Outlay (Payment)	Date:	05/15/2012
Budget Source:	Remedial	Amount:	$2401
Action Name:	PRP Remedial Action	Financial ID:	0007
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/15/2012
Budget Source:	Remedial	Amount:	$174897
Action Name:	Remedial Action	Financial ID:	0017
Financial Type:	Extramural Deoutlay (Credit)	Date:	05/15/2012
Budget Source:	Remedial	Amount:	$2401
Action Name:	Remedial Action	Financial ID:	0085
Financial Type:	Extramural Outlay (Payment)	Date:	05/16/2012

Budget Source: Remedial Amount: $34669

Action Name: Remedial Action Financial ID: 0018
Financial Type: Extramural Deoutlay (Credit) Date: 05/16/2012
Budget Source: Remedial Amount: $34669

Action Name: Remedial Action Financial ID: 0008
Financial Type: Commitment Date: 05/18/2012
Budget Source: Remedial Amount: $763745

Action Name: Remedial Action Financial ID: 0008
Financial Type: Decommitment Date: 05/18/2012
Budget Source: Remedial Amount: $763745

Action Name: Remedial Action Financial ID: 0010
Financial Type: Actual Obligation Date: 05/24/2012
Budget Source: Remedial Amount: $763745

Action Name: Remedial Action Financial ID: 0070
Financial Type: Deobligation Date: 05/24/2012
Budget Source: Remedial Amount: $763745

Action Name: Remedial Action Financial ID: 0086
Financial Type: Extramural Outlay (Payment) Date: 05/31/2012
Budget Source: Remedial Amount: $763745

Action Name: PRP Remedial Action Financial ID: 0009
Financial Type: Deobligation Date: 06/04/2012
Budget Source: Remedial Amount: $1420

Action Name: Remedial Action Financial ID: 0087
Financial Type: Extramural Outlay (Payment) Date: 06/04/2012
Budget Source: Remedial Amount: $26904

Action Name: Remedial Action Financial ID: 0088
Financial Type: Extramural Outlay (Payment) Date: 06/05/2012
Budget Source: Remedial Amount: $763745

Action Name: Remedial Action Financial ID: 0019
Financial Type: Extramural Deoutlay (Credit) Date: 06/05/2012
Budget Source: Remedial Amount: $763745

Action Name: PRP Remedial Action Financial ID: 0015
Financial Type: Extramural Outlay (Payment) Date: 06/06/2012
Budget Source: Remedial Amount: $129423

Action Name: Remedial Action Financial ID: 0089

Financial Type: Extramural Outlay (Payment) Date: 06/06/2012
Budget Source: Remedial Amount: $1350

Action Name: Technical Assistance Grant Financial ID: 0008
Financial Type: Extramural Outlay (Payment) Date: 06/08/2012
Budget Source: Remedial Amount: $9898

Action Name: PRP Remedial Action Financial ID: 0017
Financial Type: Extramural Outlay (Payment) Date: 06/11/2012
Budget Source: Remedial Amount: $129423

Action Name: Remedial Action Financial ID: 0090
Financial Type: Extramural Outlay (Payment) Date: 06/11/2012
Budget Source: Remedial Amount: $1350

Action Name: Remedial Action Financial ID: 0091
Financial Type: Extramural Outlay (Payment) Date: 06/11/2012
Budget Source: Remedial Amount: $26904

Action Name: PRP Remedial Action Financial ID: 0008
Financial Type: Extramural Deoutlay (Credit) Date: 06/11/2012
Budget Source: Remedial Amount: $129423

Action Name: Remedial Action Financial ID: 0020
Financial Type: Extramural Deoutlay (Credit) Date: 06/11/2012
Budget Source: Remedial Amount: $1350

Action Name: Remedial Action Financial ID: 0021
Financial Type: Extramural Deoutlay (Credit) Date: 06/11/2012
Budget Source: Remedial Amount: $26904

Action Name: PRP Remedial Action Financial ID: 0016
Financial Type: Extramural Outlay (Payment) Date: 06/12/2012
Budget Source: Remedial Amount: $1420

Action Name: PRP Remedial Action Financial ID: 0018
Financial Type: Extramural Outlay (Payment) Date: 06/21/2012
Budget Source: Remedial Amount: $1420

Action Name: PRP Remedial Action Financial ID: 0009
Financial Type: Extramural Deoutlay (Credit) Date: 06/21/2012
Budget Source: Remedial Amount: $1420

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0106
Financial Type: Extramural Outlay (Payment) Date: 07/02/2012
Budget Source: Remedial Amount: $777

Action Name:	Remedial Action	Financial ID:	0092
Financial Type:	Extramural Outlay (Payment)	Date:	07/03/2012
Budget Source:	Remedial	Amount:	$3977
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0107
Financial Type:	Extramural Outlay (Payment)	Date:	07/06/2012
Budget Source:	Remedial	Amount:	$777
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0038
Financial Type:	Extramural Deoutlay (Credit)	Date:	07/06/2012
Budget Source:	Remedial	Amount:	$777
Action Name:	PRP Remedial Action	Financial ID:	0019
Financial Type:	Extramural Outlay (Payment)	Date:	07/10/2012
Budget Source:	Remedial	Amount:	$192616
Action Name:	Remedial Action	Financial ID:	0093
Financial Type:	Extramural Outlay (Payment)	Date:	07/11/2012
Budget Source:	Remedial	Amount:	$3977
Action Name:	Remedial Action	Financial ID:	0022
Financial Type:	Extramural Deoutlay (Credit)	Date:	07/11/2012
Budget Source:	Remedial	Amount:	$3977
Action Name:	PRP Remedial Action	Financial ID:	0020
Financial Type:	Extramural Outlay (Payment)	Date:	07/13/2012
Budget Source:	Remedial	Amount:	$192616
Action Name:	PRP Remedial Action	Financial ID:	0010
Financial Type:	Extramural Deoutlay (Credit)	Date:	07/13/2012
Budget Source:	Remedial	Amount:	$192616
Action Name:	Remedial Action	Financial ID:	0094
Financial Type:	Extramural Outlay (Payment)	Date:	07/16/2012
Budget Source:	Remedial	Amount:	$146035
Action Name:	Remedial Action	Financial ID:	0095
Financial Type:	Extramural Outlay (Payment)	Date:	07/19/2012
Budget Source:	Remedial	Amount:	$146035
Action Name:	Remedial Action	Financial ID:	0023
Financial Type:	Extramural Deoutlay (Credit)	Date:	07/19/2012
Budget Source:	Remedial	Amount:	$146035
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0108
Financial Type:	Extramural Outlay (Payment)	Date:	08/06/2012
Budget Source:	Remedial	Amount:	$22122

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0109
Financial Type:	Extramural Outlay (Payment)	Date:	08/06/2012
Budget Source:	Remedial	Amount:	$18157
Action Name:	PRP Remedial Action	Financial ID:	0021
Financial Type:	Extramural Outlay (Payment)	Date:	08/06/2012
Budget Source:	Remedial	Amount:	$206513
Action Name:	Remedial Action	Financial ID:	0096
Financial Type:	Extramural Outlay (Payment)	Date:	08/06/2012
Budget Source:	Remedial	Amount:	$1608
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0110
Financial Type:	Extramural Outlay (Payment)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$22122
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0111
Financial Type:	Extramural Outlay (Payment)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$18157
Action Name:	PRP Remedial Action	Financial ID:	0022
Financial Type:	Extramural Outlay (Payment)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$206513
Action Name:	Remedial Action	Financial ID:	0097
Financial Type:	Extramural Outlay (Payment)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$21587
Action Name:	Remedial Action	Financial ID:	0098
Financial Type:	Extramural Outlay (Payment)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$1608
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0039
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$22122
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0040
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$18157
Action Name:	PRP Remedial Action	Financial ID:	0011
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/09/2012
Budget Source:	Remedial	Amount:	$206513
Action Name:	Remedial Action	Financial ID:	0024
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/09/2012

Budget Source: Remedial Amount: $1608

Action Name: Remedial Action Financial ID: 0099
Financial Type: Extramural Outlay (Payment) Date: 08/14/2012
Budget Source: Remedial Amount: $21587

Action Name: Remedial Action Financial ID: 0025
Financial Type: Extramural Deoutlay (Credit) Date: 08/14/2012
Budget Source: Remedial Amount: $21587

Action Name: Remedial Action Financial ID: 0100
Financial Type: Extramural Outlay (Payment) Date: 09/05/2012
Budget Source: Remedial Amount: $1439

Action Name: PRP Remedial Action Financial ID: 0026
Financial Type: Extramural Outlay (Payment) Date: 09/07/2012
Budget Source: Remedial Amount: $6080

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0112
Financial Type: Extramural Outlay (Payment) Date: 09/10/2012
Budget Source: Remedial Amount: $10479

Action Name: PRP Remedial Action Financial ID: 0023
Financial Type: Extramural Outlay (Payment) Date: 09/10/2012
Budget Source: Remedial Amount: $249615

Action Name: Remedial Action Financial ID: 0101
Financial Type: Extramural Outlay (Payment) Date: 09/11/2012
Budget Source: Remedial Amount: $1439

Action Name: Remedial Action Financial ID: 0026
Financial Type: Extramural Deoutlay (Credit) Date: 09/11/2012
Budget Source: Remedial Amount: $1439

Action Name: PRP Remedial Design Financial ID: 0043
Financial Type: Extramural Outlay (Payment) Date: 09/12/2012
Budget Source: Remedial Amount: $1859

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0113
Financial Type: Extramural Outlay (Payment) Date: 09/13/2012
Budget Source: Remedial Amount: $10479

Action Name: PRP Remedial Action Financial ID: 0024
Financial Type: Extramural Outlay (Payment) Date: 09/13/2012
Budget Source: Remedial Amount: $249615

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0041

Financial Type: Extramural Deoutlay (Credit) Date: 09/13/2012
Budget Source: Remedial Amount: $10479

Action Name: PRP Remedial Action Financial ID: 0012
Financial Type: Extramural Deoutlay (Credit) Date: 09/13/2012
Budget Source: Remedial Amount: $249615

Action Name: PRP Remedial Action Financial ID: 0013
Financial Type: Deobligation Date: 09/17/2012
Budget Source: Remedial Amount: $6080

Action Name: Remedial Action Financial ID: 0102
Financial Type: Extramural Outlay (Payment) Date: 09/24/2012
Budget Source: Remedial Amount: $2857

Action Name: Remedial Design Financial ID: 0337
Financial Type: Extramural Outlay (Payment) Date: 09/24/2012
Budget Source: Remedial Amount: $96

Action Name: PRP Remedial Action Financial ID: 0025
Financial Type: Extramural Outlay (Payment) Date: 09/25/2012
Budget Source: Remedial Amount: $0

Action Name: PRP Remedial Action Financial ID: 0027
Financial Type: Extramural Outlay (Payment) Date: 09/25/2012
Budget Source: Remedial Amount: $6080

Action Name: PRP Remedial Action Financial ID: 0028
Financial Type: Extramural Outlay (Payment) Date: 09/25/2012
Budget Source: Remedial Amount: $0

Action Name: PRP Remedial Action Financial ID: 0013
Financial Type: Extramural Deoutlay (Credit) Date: 09/25/2012
Budget Source: Remedial Amount: $6080

Action Name: PRP Remedial Action Financial ID: 0014
Financial Type: Extramural Deoutlay (Credit) Date: 09/25/2012
Budget Source: Remedial Amount: $0

Action Name: Remedial Action Financial ID: 0103
Financial Type: Extramural Outlay (Payment) Date: 09/27/2012
Budget Source: Remedial Amount: $2857

Action Name: Remedial Design Financial ID: 0338
Financial Type: Extramural Outlay (Payment) Date: 09/27/2012
Budget Source: Remedial Amount: $96

Action Name:	Remedial Action	Financial ID:	0027
Financial Type:	Extramural Deoutlay (Credit)	Date:	09/27/2012
Budget Source:	Remedial	Amount:	$2857
Action Name:	Remedial Design	Financial ID:	0016
Financial Type:	Extramural Deoutlay (Credit)	Date:	09/27/2012
Budget Source:	Remedial	Amount:	$96
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0114
Financial Type:	Extramural Outlay (Payment)	Date:	10/01/2012
Budget Source:	Remedial	Amount:	$29613
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0115
Financial Type:	Extramural Outlay (Payment)	Date:	10/04/2012
Budget Source:	Remedial	Amount:	$29613
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0042
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/04/2012
Budget Source:	Remedial	Amount:	$29613
Action Name:	Remedial Design	Financial ID:	0339
Financial Type:	Extramural Outlay (Payment)	Date:	10/09/2012
Budget Source:	Remedial	Amount:	$4110
Action Name:	Remedial Design	Financial ID:	0340
Financial Type:	Extramural Outlay (Payment)	Date:	10/12/2012
Budget Source:	Remedial	Amount:	$4110
Action Name:	Remedial Design	Financial ID:	0017
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/12/2012
Budget Source:	Remedial	Amount:	$4110
Action Name:	PRP Remedial Action	Financial ID:	0029
Financial Type:	Extramural Outlay (Payment)	Date:	10/22/2012
Budget Source:	Remedial	Amount:	$339326
Action Name:	Remedial Action	Financial ID:	0104
Financial Type:	Extramural Outlay (Payment)	Date:	10/22/2012
Budget Source:	Remedial	Amount:	$799
Action Name:	PRP Remedial Action	Financial ID:	0030
Financial Type:	Extramural Outlay (Payment)	Date:	10/25/2012
Budget Source:	Remedial	Amount:	$339326
Action Name:	Remedial Action	Financial ID:	0105
Financial Type:	Extramural Outlay (Payment)	Date:	10/25/2012
Budget Source:	Remedial	Amount:	$799

Action Name:	PRP Remedial Action	Financial ID:	0015
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/25/2012
Budget Source:	Remedial	Amount:	$339326
Action Name:	Remedial Action	Financial ID:	0028
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/25/2012
Budget Source:	Remedial	Amount:	$799
Action Name:	PRP Remedial Action	Financial ID:	0031
Financial Type:	Extramural Outlay (Payment)	Date:	11/05/2012
Budget Source:	Remedial	Amount:	$1893
Action Name:	PRP Remedial Action	Financial ID:	0032
Financial Type:	Extramural Outlay (Payment)	Date:	11/05/2012
Budget Source:	Remedial	Amount:	$367230
Action Name:	Remedial Action	Financial ID:	0009
Financial Type:	Commitment	Date:	11/06/2012
Budget Source:	Remedial	Amount:	$374143
Action Name:	Remedial Action	Financial ID:	0009
Financial Type:	Decommitment	Date:	11/06/2012
Budget Source:	Remedial	Amount:	$374143
Action Name:	PRP Remedial Action	Financial ID:	0033
Financial Type:	Extramural Outlay (Payment)	Date:	11/08/2012
Budget Source:	Remedial	Amount:	$1893
Action Name:	PRP Remedial Action	Financial ID:	0034
Financial Type:	Extramural Outlay (Payment)	Date:	11/08/2012
Budget Source:	Remedial	Amount:	$367230
Action Name:	PRP Remedial Action	Financial ID:	0016
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/08/2012
Budget Source:	Remedial	Amount:	$1893
Action Name:	PRP Remedial Action	Financial ID:	0017
Financial Type:	Extramural Deoutlay (Credit)	Date:	11/08/2012
Budget Source:	Remedial	Amount:	$367230
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0116
Financial Type:	Extramural Outlay (Payment)	Date:	11/13/2012
Budget Source:	Remedial	Amount:	$156
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0117
Financial Type:	Extramural Outlay (Payment)	Date:	11/13/2012

Budget Source: Remedial Amount: $17364

Action Name: Remedial Action Financial ID: 0106
Financial Type: Extramural Outlay (Payment) Date: 11/13/2012
Budget Source: Remedial Amount: $2

Action Name: Remedial Action Financial ID: 0107
Financial Type: Extramural Outlay (Payment) Date: 11/13/2012
Budget Source: Remedial Amount: $198

Action Name: PRP Remedial Action Financial ID: 0005
Financial Type: Extramural Deoutlay (Credit) Date: 11/14/2012
Budget Source: Remedial Amount: $566

Action Name: Remedial Action Financial ID: 0011
Financial Type: Actual Obligation Date: 11/15/2012
Budget Source: Remedial Amount: $374143

Action Name: Remedial Action Financial ID: 0082
Financial Type: Deobligation Date: 11/15/2012
Budget Source: Remedial Amount: $374143

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0118
Financial Type: Extramural Outlay (Payment) Date: 11/16/2012
Budget Source: Remedial Amount: $156

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0119
Financial Type: Extramural Outlay (Payment) Date: 11/16/2012
Budget Source: Remedial Amount: $17364

Action Name: PRP Remedial Action Financial ID: 0099
Financial Type: Extramural Outlay (Payment) Date: 11/16/2012
Budget Source: Remedial Amount: $566

Action Name: Remedial Action Financial ID: 0108
Financial Type: Extramural Outlay (Payment) Date: 11/16/2012
Budget Source: Remedial Amount: $2

Action Name: Remedial Action Financial ID: 0109
Financial Type: Extramural Outlay (Payment) Date: 11/16/2012
Budget Source: Remedial Amount: $198

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0043
Financial Type: Extramural Deoutlay (Credit) Date: 11/16/2012
Budget Source: Remedial Amount: $156

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0044

Financial Type: Extramural Deoutlay (Credit) Date: 11/16/2012
Budget Source: Remedial Amount: $17364

Action Name: PRP Remedial Action Financial ID: 0006
Financial Type: Extramural Deoutlay (Credit) Date: 11/16/2012
Budget Source: Remedial Amount: $566

Action Name: Remedial Action Financial ID: 0029
Financial Type: Extramural Deoutlay (Credit) Date: 11/16/2012
Budget Source: Remedial Amount: $2

Action Name: Remedial Action Financial ID: 0030
Financial Type: Extramural Deoutlay (Credit) Date: 11/16/2012
Budget Source: Remedial Amount: $198

Action Name: PRP Remedial Design Financial ID: 0044
Financial Type: Extramural Outlay (Payment) Date: 11/20/2012
Budget Source: Remedial Amount: $122

Action Name: PRP Remedial Design Financial ID: 0045
Financial Type: Extramural Outlay (Payment) Date: 11/26/2012
Budget Source: Remedial Amount: $122

Action Name: PRP Remedial Design Financial ID: 0010
Financial Type: Extramural Deoutlay (Credit) Date: 11/26/2012
Budget Source: Remedial Amount: $122

Action Name: Remedial Action Financial ID: 0110
Financial Type: Extramural Outlay (Payment) Date: 11/27/2012
Budget Source: Remedial Amount: $374143

Action Name: PRP Remedial Action Financial ID: 0100
Financial Type: Extramural Outlay (Payment) Date: 11/28/2012
Budget Source: Remedial Amount: $6260

Action Name: Remedial Action Financial ID: 0111
Financial Type: Extramural Outlay (Payment) Date: 11/29/2012
Budget Source: Remedial Amount: $374143

Action Name: Remedial Action Financial ID: 0031
Financial Type: Extramural Deoutlay (Credit) Date: 11/29/2012
Budget Source: Remedial Amount: $374143

Action Name: PRP Remedial Action Financial ID: 0101
Financial Type: Extramural Outlay (Payment) Date: 12/03/2012
Budget Source: Remedial Amount: $6260

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0341
Date: 12/03/2012
Amount: $699

Action Name: PRP Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0007
Date: 12/03/2012
Amount: $6260

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0342
Date: 12/06/2012
Amount: $699

Action Name: Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0018
Date: 12/06/2012
Amount: $699

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0120
Date: 12/17/2012
Amount: $10678

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0121
Date: 12/17/2012
Amount: $12121

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0035
Date: 12/17/2012
Amount: $118620

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0112
Date: 12/17/2012
Amount: $1008

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0122
Date: 12/20/2012
Amount: $12121

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0123
Date: 12/20/2012
Amount: $10678

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0036
Date: 12/20/2012
Amount: $118620

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0113
Date: 12/20/2012
Amount: $1008

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0045
Date: 12/20/2012
Amount: $12121

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0046
Date: 12/20/2012
Amount: $10678

Action Name: PRP Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0018
Date: 12/20/2012
Amount: $118620

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0032
Date: 12/20/2012
Amount: $1008

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0124
Date: 01/07/2013
Amount: $40268

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0125
Date: 01/10/2013
Amount: $40268

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0047
Date: 01/10/2013
Amount: $40268

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0126
Date: 01/14/2013
Amount: $45923

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0114
Date: 01/14/2013
Amount: $5270

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0127
Date: 01/17/2013
Amount: $45923

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0115
Date: 01/17/2013
Amount: $5270

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Financial ID: 0048
Date: 01/17/2013

Budget Source: Remedial Amount: $45923

Action Name: Remedial Action Financial ID: 0033
Financial Type: Extramural Deoutlay (Credit) Date: 01/17/2013
Budget Source: Remedial Amount: $5270

Action Name: PRP Remedial Design Financial ID: 0010
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $650000

Action Name: PRP Remedial Design Financial ID: 0011
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $662000

Action Name: PRP Remedial Design Financial ID: 0012
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $900000

Action Name: PRP Remedial Design Financial ID: 0013
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $1000000

Action Name: PRP Remedial Design Financial ID: 0014
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $1110000

Action Name: PRP Remedial Design Financial ID: 0015
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $1500000

Action Name: PRP Remedial Design Financial ID: 0016
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $1500000

Action Name: PRP Remedial Design Financial ID: 0004
Financial Type: Actual Obligation Date: 01/29/2013
Budget Source: Remedial Amount: $510000

Action Name: Technical Assistance Grant Financial ID: 0009
Financial Type: Extramural Outlay (Payment) Date: 01/29/2013
Budget Source: Remedial Amount: $2890

Action Name: PRP Remedial Action Financial ID: 0037
Financial Type: Extramural Outlay (Payment) Date: 02/01/2013
Budget Source: Remedial Amount: $236766

Action Name: PRP Remedial Action Financial ID: 0038

Financial Type: Extramural Outlay (Payment) Date: 02/04/2013
Budget Source: Remedial Amount: $329657

Action Name: Remedial Action Financial ID: 0116
Financial Type: Extramural Outlay (Payment) Date: 02/04/2013
Budget Source: Remedial Amount: $533

Action Name: PRP Remedial Action Financial ID: 0039
Financial Type: Extramural Outlay (Payment) Date: 02/06/2013
Budget Source: Remedial Amount: $236766

Action Name: PRP Remedial Action Financial ID: 0019
Financial Type: Extramural Deoutlay (Credit) Date: 02/06/2013
Budget Source: Remedial Amount: $236766

Action Name: PRP Remedial Action Financial ID: 0040
Financial Type: Extramural Outlay (Payment) Date: 02/07/2013
Budget Source: Remedial Amount: $329657

Action Name: Remedial Action Financial ID: 0117
Financial Type: Extramural Outlay (Payment) Date: 02/07/2013
Budget Source: Remedial Amount: $533

Action Name: PRP Remedial Action Financial ID: 0020
Financial Type: Extramural Deoutlay (Credit) Date: 02/07/2013
Budget Source: Remedial Amount: $329657

Action Name: Remedial Action Financial ID: 0034
Financial Type: Extramural Deoutlay (Credit) Date: 02/07/2013
Budget Source: Remedial Amount: $533

Action Name: Remedial Action Financial ID: 0038
Financial Type: Extramural Outlay (Payment) Date: 02/19/2013
Budget Source: Remedial Amount: $9017

Action Name: Remedial Action Financial ID: 0118
Financial Type: Extramural Outlay (Payment) Date: 02/19/2013
Budget Source: Remedial Amount: $383

Action Name: PRP Remedial Design Financial ID: 0046
Financial Type: Extramural Outlay (Payment) Date: 02/22/2013
Budget Source: Remedial Amount: $8635

Action Name: Remedial Action Financial ID: 0119
Financial Type: Extramural Outlay (Payment) Date: 02/22/2013
Budget Source: Remedial Amount: $383

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0035
Date: 02/22/2013
Amount: $383

Action Name: Remedial Action
Financial Type: Commitment
Budget Source: Remedial
Financial ID: 0010
Date: 03/01/2013
Amount: $713355

Action Name: Remedial Action
Financial Type: Decommitment
Budget Source: Remedial
Financial ID: 0010
Date: 03/01/2013
Amount: $713355

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0128
Date: 03/01/2013
Amount: $25201

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0129
Date: 03/06/2013
Amount: $25201

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0049
Date: 03/06/2013
Amount: $25201

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0041
Date: 03/07/2013
Amount: $356349

Action Name: Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0012
Date: 03/11/2013
Amount: $713355

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0088
Date: 03/11/2013
Amount: $713355

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0343
Date: 03/11/2013
Amount: $577

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0344
Date: 03/11/2013
Amount: $9609

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0042
Date: 03/12/2013
Amount: $356349

Action Name:	PRP Remedial Action	Financial ID:	0021
Financial Type:	Extramural Deoutlay (Credit)	Date:	03/12/2013
Budget Source:	Remedial	Amount:	$356349
Action Name:	Remedial Design	Financial ID:	0345
Financial Type:	Extramural Outlay (Payment)	Date:	03/14/2013
Budget Source:	Remedial	Amount:	$9609
Action Name:	Remedial Design	Financial ID:	0346
Financial Type:	Extramural Outlay (Payment)	Date:	03/14/2013
Budget Source:	Remedial	Amount:	$577
Action Name:	Remedial Design	Financial ID:	0019
Financial Type:	Extramural Deoutlay (Credit)	Date:	03/14/2013
Budget Source:	Remedial	Amount:	$9609
Action Name:	Remedial Design	Financial ID:	0020
Financial Type:	Extramural Deoutlay (Credit)	Date:	03/14/2013
Budget Source:	Remedial	Amount:	$577
Action Name:	Technical Assistance Grant	Financial ID:	0010
Financial Type:	Extramural Outlay (Payment)	Date:	03/19/2013
Budget Source:	Remedial	Amount:	$7382
Action Name:	Remedial Action	Financial ID:	0039
Financial Type:	Extramural Outlay (Payment)	Date:	03/26/2013
Budget Source:	Remedial	Amount:	$39
Action Name:	Remedial Design	Financial ID:	0021
Financial Type:	Extramural Deoutlay (Credit)	Date:	04/01/2013
Budget Source:	Remedial	Amount:	$5384
Action Name:	PRP Remedial Action	Financial ID:	0043
Financial Type:	Extramural Outlay (Payment)	Date:	04/08/2013
Budget Source:	Remedial	Amount:	$188336
Action Name:	Remedial Action	Financial ID:	0120
Financial Type:	Extramural Outlay (Payment)	Date:	04/08/2013
Budget Source:	Remedial	Amount:	$2198
Action Name:	Remedial Action	Financial ID:	0122
Financial Type:	Extramural Outlay (Payment)	Date:	04/10/2013
Budget Source:	Remedial	Amount:	$713355
Action Name:	PRP Remedial Action	Financial ID:	0044
Financial Type:	Extramural Outlay (Payment)	Date:	04/11/2013

Budget Source: Remedial Amount: $188336

Action Name: Remedial Action Financial ID: 0123
Financial Type: Extramural Outlay (Payment) Date: 04/11/2013
Budget Source: Remedial Amount: $2198

Action Name: PRP Remedial Action Financial ID: 0022
Financial Type: Extramural Deoutlay (Credit) Date: 04/11/2013
Budget Source: Remedial Amount: $188336

Action Name: Remedial Action Financial ID: 0036
Financial Type: Extramural Deoutlay (Credit) Date: 04/11/2013
Budget Source: Remedial Amount: $2198

Action Name: Remedial Action Financial ID: 0121
Financial Type: Extramural Outlay (Payment) Date: 04/12/2013
Budget Source: Remedial Amount: $109

Action Name: Remedial Action Financial ID: 0124
Financial Type: Extramural Outlay (Payment) Date: 04/12/2013
Budget Source: Remedial Amount: $109

Action Name: Remedial Action Financial ID: 0125
Financial Type: Extramural Outlay (Payment) Date: 04/12/2013
Budget Source: Remedial Amount: $713355

Action Name: Remedial Action Financial ID: 0037
Financial Type: Extramural Deoutlay (Credit) Date: 04/12/2013
Budget Source: Remedial Amount: $109

Action Name: Remedial Action Financial ID: 0038
Financial Type: Extramural Deoutlay (Credit) Date: 04/12/2013
Budget Source: Remedial Amount: $713355

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0130
Financial Type: Extramural Outlay (Payment) Date: 04/22/2013
Budget Source: Remedial Amount: $2965

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0131
Financial Type: Extramural Outlay (Payment) Date: 04/25/2013
Budget Source: Remedial Amount: $2965

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0050
Financial Type: Extramural Deoutlay (Credit) Date: 04/25/2013
Budget Source: Remedial Amount: $2965

Action Name: Remedial Action Financial ID: 0126

Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Date: 05/20/2013
Amount: $2796

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0127
Date: 05/23/2013
Amount: $2796

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0039
Date: 05/23/2013
Amount: $2796

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0045
Date: 05/28/2013
Amount: $246548

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0128
Date: 05/28/2013
Amount: $1883

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0129
Date: 05/28/2013
Amount: $544

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0046
Date: 05/31/2013
Amount: $246548

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0130
Date: 05/31/2013
Amount: $1883

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0131
Date: 05/31/2013
Amount: $544

Action Name: PRP Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0023
Date: 05/31/2013
Amount: $246548

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0040
Date: 05/31/2013
Amount: $1883

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0041
Date: 05/31/2013
Amount: $544

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0132
Financial Type:	Extramural Outlay (Payment)	Date:	06/03/2013
Budget Source:	Remedial	Amount:	$16771
Action Name:	Technical Assistance Grant	Financial ID:	0011
Financial Type:	Extramural Outlay (Payment)	Date:	06/04/2013
Budget Source:	Remedial	Amount:	$1683
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0133
Financial Type:	Extramural Outlay (Payment)	Date:	06/06/2013
Budget Source:	Remedial	Amount:	$16771
Action Name:	PRP Remedial Design	Financial ID:	0047
Financial Type:	Extramural Outlay (Payment)	Date:	06/06/2013
Budget Source:	Remedial	Amount:	$11613
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0051
Financial Type:	Extramural Deoutlay (Credit)	Date:	06/06/2013
Budget Source:	Remedial	Amount:	$16771
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0134
Financial Type:	Extramural Outlay (Payment)	Date:	06/24/2013
Budget Source:	Remedial	Amount:	$3450
Action Name:	PRP Remedial Action	Financial ID:	0047
Financial Type:	Extramural Outlay (Payment)	Date:	06/24/2013
Budget Source:	Remedial	Amount:	$133717
Action Name:	Remedial Action	Financial ID:	0132
Financial Type:	Extramural Outlay (Payment)	Date:	06/24/2013
Budget Source:	Remedial	Amount:	$2974
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0135
Financial Type:	Extramural Outlay (Payment)	Date:	06/27/2013
Budget Source:	Remedial	Amount:	$3450
Action Name:	PRP Remedial Action	Financial ID:	0048
Financial Type:	Extramural Outlay (Payment)	Date:	06/27/2013
Budget Source:	Remedial	Amount:	$133717
Action Name:	Remedial Action	Financial ID:	0133
Financial Type:	Extramural Outlay (Payment)	Date:	06/27/2013
Budget Source:	Remedial	Amount:	$2974
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0052
Financial Type:	Extramural Deoutlay (Credit)	Date:	06/27/2013
Budget Source:	Remedial	Amount:	$3450

Action Name:	PRP Remedial Action	Financial ID:	0024
Financial Type:	Extramural Deoutlay (Credit)	Date:	06/27/2013
Budget Source:	Remedial	Amount:	$133717
Action Name:	Remedial Action	Financial ID:	0042
Financial Type:	Extramural Deoutlay (Credit)	Date:	06/27/2013
Budget Source:	Remedial	Amount:	$2974
Action Name:	Technical Assistance Grant	Financial ID:	0012
Financial Type:	Extramural Outlay (Payment)	Date:	07/19/2013
Budget Source:	Remedial	Amount:	$2100
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0136
Financial Type:	Extramural Outlay (Payment)	Date:	07/29/2013
Budget Source:	Remedial	Amount:	$10228
Action Name:	PRP Remedial Action	Financial ID:	0049
Financial Type:	Extramural Outlay (Payment)	Date:	07/29/2013
Budget Source:	Remedial	Amount:	$367353
Action Name:	Remedial Action	Financial ID:	0134
Financial Type:	Extramural Outlay (Payment)	Date:	07/29/2013
Budget Source:	Remedial	Amount:	$2701
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0137
Financial Type:	Extramural Outlay (Payment)	Date:	08/01/2013
Budget Source:	Remedial	Amount:	$10228
Action Name:	PRP Remedial Action	Financial ID:	0050
Financial Type:	Extramural Outlay (Payment)	Date:	08/01/2013
Budget Source:	Remedial	Amount:	$367353
Action Name:	Remedial Action	Financial ID:	0135
Financial Type:	Extramural Outlay (Payment)	Date:	08/01/2013
Budget Source:	Remedial	Amount:	$2701
Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0053
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/01/2013
Budget Source:	Remedial	Amount:	$10228
Action Name:	PRP Remedial Action	Financial ID:	0025
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/01/2013
Budget Source:	Remedial	Amount:	$367353
Action Name:	Remedial Action	Financial ID:	0043
Financial Type:	Extramural Deoutlay (Credit)	Date:	08/01/2013

Budget Source: Remedial Amount: $2701

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0012
Financial Type: Commitment Date: 08/20/2013
Budget Source: Remedial Amount: $1000000

Action Name: Remedial Action Financial ID: 0011
Financial Type: Commitment Date: 08/20/2013
Budget Source: Remedial Amount: $85000

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0012
Financial Type: Decommitment Date: 08/20/2013
Budget Source: Remedial Amount: $1000000

Action Name: Remedial Action Financial ID: 0011
Financial Type: Decommitment Date: 08/20/2013
Budget Source: Remedial Amount: $85000

Action Name: Remedial Design Financial ID: 0347
Financial Type: Extramural Outlay (Payment) Date: 08/29/2013
Budget Source: Remedial Amount: $481

Action Name: Remedial Design Financial ID: 0348
Financial Type: Extramural Outlay (Payment) Date: 08/29/2013
Budget Source: Remedial Amount: $1499

Action Name: Remedial Design Financial ID: 0349
Financial Type: Extramural Outlay (Payment) Date: 08/29/2013
Budget Source: Remedial Amount: $713

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0138
Financial Type: Extramural Outlay (Payment) Date: 09/03/2013
Budget Source: Remedial Amount: $5232

Action Name: PRP Remedial Action Financial ID: 0051
Financial Type: Extramural Outlay (Payment) Date: 09/03/2013
Budget Source: Remedial Amount: $185717

Action Name: Remedial Action Financial ID: 0136
Financial Type: Extramural Outlay (Payment) Date: 09/03/2013
Budget Source: Remedial Amount: $2562

Action Name: PRP Remedial Investigation/Feasibility Study Financial ID: 0060
Financial Type: Actual Obligation Date: 09/04/2013
Budget Source: Remedial Amount: $1000000

Action Name: Remedial Action Financial ID: 0013

Financial Type: Actual Obligation
Budget Source: Remedial
Date: 09/04/2013
Amount: $875000

Action Name: Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0014
Date: 09/04/2013
Amount: $628000

Action Name: Remedial Action
Financial Type: Actual Obligation
Budget Source: Remedial
Financial ID: 0015
Date: 09/04/2013
Amount: $85000

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0156
Date: 09/04/2013
Amount: $6366

Action Name: Remedial Action
Financial Type: Deobligation
Budget Source: Remedial
Financial ID: 0097
Date: 09/04/2013
Amount: $4310

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0350
Date: 09/05/2013
Amount: $481

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0351
Date: 09/05/2013
Amount: $1499

Action Name: Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0352
Date: 09/05/2013
Amount: $713

Action Name: Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0022
Date: 09/05/2013
Amount: $481

Action Name: Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0023
Date: 09/05/2013
Amount: $1499

Action Name: Remedial Design
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0024
Date: 09/05/2013
Amount: $713

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0139
Date: 09/06/2013
Amount: $5232

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0052
Date: 09/06/2013
Amount: $185717

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0137
Date: 09/06/2013
Amount: $2562

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0054
Date: 09/06/2013
Amount: $5232

Action Name: PRP Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0026
Date: 09/06/2013
Amount: $185717

Action Name: Remedial Action
Financial Type: Extramural Deoutlay (Credit)
Budget Source: Remedial
Financial ID: 0044
Date: 09/06/2013
Amount: $2562

Action Name: PRP Remedial Design
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0048
Date: 09/12/2013
Amount: $16980

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0140
Date: 09/16/2013
Amount: $6366

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0053
Date: 09/16/2013
Amount: $414318

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0138
Date: 09/16/2013
Amount: $4310

Action Name: PRP Remedial Investigation/Feasibility Study
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0141
Date: 09/19/2013
Amount: $6366

Action Name: PRP Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0054
Date: 09/19/2013
Amount: $414318

Action Name: Remedial Action
Financial Type: Extramural Outlay (Payment)
Budget Source: Remedial
Financial ID: 0139
Date: 09/19/2013
Amount: $4310

Action Name:	PRP Remedial Investigation/Feasibility Study	Financial ID:	0055
Financial Type:	Extramural Deoutlay (Credit)	Date:	09/19/2013
Budget Source:	Remedial	Amount:	$6366
Action Name:	PRP Remedial Action	Financial ID:	0027
Financial Type:	Extramural Deoutlay (Credit)	Date:	09/19/2013
Budget Source:	Remedial	Amount:	$414318
Action Name:	Remedial Action	Financial ID:	0045
Financial Type:	Extramural Deoutlay (Credit)	Date:	09/19/2013
Budget Source:	Remedial	Amount:	$4310
Action Name:	Remedial Action	Financial ID:	0001
Financial Type:	Extramural Deoutlay (Credit)	Date:	10/24/2013
Budget Source:	Remedial	Amount:	$79

APPENDIX D
LOCAL RECORDS

Form -244 1929 Certificate of Occupancy.

AA-2007-29-1.B.

BUREAU OF BUILDINGS

BOROUGH OF MANHATTAN, CITY OF NEW YORK

HVC **CERTIFICATE OF OCCUPANCY No. 17349** 19 31

Supersedes Certificate of Occupancy No. 2445

To the owner or owners of the building: New York Mar. 2, 19 31.

THIS CERTIFIES that the building located on Block 2188, Lot 1,

known as 3875-3879 Ninth Avenue
89'11" front

under a permit, Application No. 1784 Alt of 1930, conforms to the approved plans and specifications accompanying said permit and any approved amendments thereto, and to the requirements of the building code and all other laws and ordinances and to the rules and regulations of the board of standards and appeals, applicable to a building of its class and kind, except that in the case of a building heretofore existing and for which no previous certificate of occupancy has been issued and which has not been altered or converted since March 14, 1916, to a use that changed its classification as defined in the building code, this certificate confirms and continues the existing uses to which the building has been put; and

CERTIFIES FURTHER that the building is of nonfireproof construction within the meaning of the building code and may be used and occupied as a business building as hereinafter qualified, in a n unrestricted district under the building zone resolution, subject to all the privileges, requirements, limitations and conditions prescribed by law or as hereinafter specified.

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED			USE
		MALE	FEMALE	TOTAL	
Cellar					Furnace Room
1st Story	120	15	1	16	Automobile showroom and Service station and Repair Shop

6653

This certificate is issued to H.L.Brandt, representative
38 Marble Hill Avenue, City. , for the owner or owners.

Form 24-C (Rev. 4/62)—42M-701190(63) 114

ac

DEPARTMENT OF BUILDINGS

BOROUGH OF MANHATTAN, THE CITY OF NEW YORK

Date October 4, 1968 No. 66530

CERTIFICATE OF OCCUPANCY

NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

This certificate supersedes C. O. No. 17349

THIS CERTIFIES that the ~~new~~—altered—~~existing~~—building—premises located at 3875-3881 Ninth Avenue Block 2188 Lot 1

That the zoning lot and premises above referred to are situated, bounded and described as follows:

BEGINNING at a point on the ____ side of ____ distant ____ feet from the corner formed by the intersection of ____ and ____

running thence "SEE STATEMENT "A" of Alt. 1200-1967 feet; thence ____ feet;

thence ____ feet; thence ____ feet;

running thence ____ feet; thence ____ feet;

to the point or place of beginning. conforms substantially to the approved plans and specifications, and to the requirements of the Building Code. the Zoning Resolution and all other laws and ordinances, and of the rules of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646e of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

~~N.B. or~~ Alt. No. 1200-1967 Construction classification— ---

Occupancy classification— Commercial . Height ---6--- stories, --- feet.

Date of completion— September 25, 1968 . Located in M 1-1 Zoning District.

at time of issuance of permit. 6852-1967

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: and The City Planning Commission: (Calendar numbers to be inserted here)

PERMISSIBLE USE AND OCCUPANCY

Off-Street Parking Spaces ____

Off-Street Loading Berths ____

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED	USE
	On Ground		Public parking lot for ninty-five (95) cars and Attendants shelter.
		NOTE:	Permission to maintain a Temporary shelter is revocable at the discretion of the Commissioner.

Borough Superintendent

OFFICE COPY—DEPARTMENT OF BUILDINGS

THIS CERTIFICATE OF OCCUPANCY MUST BE POSTED WITHIN THE BUILDING IN ACCORDANCE WITH THE RULES OF THE DEPARTMENT PROMULGATED MARCH 31ST, 1967.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Application Details

JUMP TO: Doc 1 ▼ Go

Premises: 3875 9 AVENUE MANHATTAN
BIN: 1089192 Block: 2188 Lot: 1

Job No: 103907408
Document: 01 OF 2
Job Type: A1 - ALTERATION TYPE 1

Document Overview | Items Required | Virtual Job Folder | All Permits | Schedule A | Schedule B
Fees Paid | Forms Received | All Comments | C/O Summary | Plumbing Inspections
Crane Information | Plan Examination | C/O Preview
After Hours Variance Permits

This job is not subject to the Department's Development Challenge Process. For any issues, please contact the relevant borough office.

Last Action: PERMIT ISSUED - ENTIRE JOB/WORK 07/12/2005 (R)

Application approved on: 05/27/2005

Pre-Filed: 09/01/2004 **Building Type:** Other **Estimated Total Cost:** $5,000.00
Date Filed: 09/20/2004 **Electronically Filed:** No
Fee Structure: STANDARD
Review is requested under Building Code: 1968

Job Description Comments

1 Location Information (Filed At)

House No(s): 3875 **Street Name:** NINTH AVENUE
Borough: Manhattan **Block:** 2188 **Lot:** 1 **BIN:** 1089192 **CB No:** 112
Work on Floor(s): 001 **Apt/Condo No(s):** **Zip Code:** 10034

2 Applicant of Record Information

Name: CSANAD BODNAR
Business Name: CSANAD BODNAR & ASSOCIATES **Business Phone:** 212-986-4998
Business Address: 237 EAST 39TH ST NY NY 10016 **Business Fax:**
E-Mail: **Mobile Telephone:**
License Number: 021771

Applicant Type: ☐ P.E. ☒ R.A ☐ Sign Hanger ☐ Other

Directive 14 Applicant
Not Applicable

Previous Applicant of Record

Name: FRANKLIN ESTRELLA
Business Name: FRANKLIN ESTRELLA ARCHITECT **Business Phone:** 718-782-4292

Business Address: 239 SOUTH 4TH ST BK NY 11211 **Business Fax:**
E-Mail: **Mobile Telephone:**
Applicant Type: RA **License Number:** 020842

3 Filing Representative

Name: EVADNE SMITH
Business Name: EVADNE SMITH **Business Phone:** 347-995-6556
Business Address: 3101 EASTCHESTER ROAD BRONX NY 10016 **Business Fax:**
E-Mail: **Mobile Telephone:**
Registration Number: X01449

4 Filing Status

Click Here to View

5 Job Types

☒ **Alteration Type 1** ☐ **New Building**
☐ Change in Exits/Egress
☐ Change in Number of Stories ☐ **Alteration Type 2** ☐ **Full Demolition**
☐ Change in Number of Dwelling Units ☐ **Alteration Type 3** ☐ **Subdivision: Improved**
☐ Change in Room Count / Dwelling Units ☐ **Sign** ☐ **Subdivision: Condo**
☒ Change in Occupancy / Use
☐ Change inconsistent with current Cert. of Occup.
☐ **Alteration Type 1, OT "No Work"** **Directive 14 acceptance requested?** ☐ Yes ☒ No

6 Work Types

☐ **BL - Boiler** ☐ **FA - Fire Alarm** ☐ **FB - Fuel Burning** ☐ **FS - Fuel Storage**
☐ **FP - Fire Suppression** ☐ **MH - Mechanical** ☐ **PL - Plumbing** ☐ **SD - Standpipe**
☐ **SP - Sprinkler** ☐ **EQ - Construction Equipment** ☒ **CC - Curb Cut**
☒ **OT -** GEN.CONSTRUCTN.

7 Plans/Construction Documents Submitted

Plans Page Count: Not Provided

8 Additional Information

Enlargement proposed?

☒ No ☐ Yes ☐ Horizontal ☐ Vertical

Total Construction Floor Area: 1 sq.ft.

9 Additional Considerations, Limitations or Restrictions

Yes	No		
☐	☐	**Structural peer review required per BC §1627**	**Peer Reviewer License No.(P.E.):**
☐	☒	**Filed to Comply with Local Law**	**Local Law No./Year:**
☐	☒	**Other, Specify:**	
☐	☐	**Restrictive Declaration / Easement**	
☐	☐	**Zoning Exhibit Record (I,II,III,etc)**	
☐	☒	**Landmark**	
☐	☐	**Filed to Address Violation(s)**	
☐	☐	**Legalization**	
☐	☐	**Environmental Restrictions (Little E or RD)**	
☐	☐	**Unmapped Street**	
☐	☒	**Adult Establishment**	
☐	☐	**Compensated Development (Inclusionary Housing)**	

Yes	No	
☐	☐	**Included in LMCCC**
☐	☒	**Infill Zoning**

- ☐ ☐ **Low Income Housing (Inclusionary Housing)**
- ☐ ☒ **Single Room Occupancy (SRO) Multiple Dwelling**
- ☐ ☐ **Filing includes Lot Merger / Reapportionment (If Yes,17)**
- ☐ ☐ **Includes permanent removal of standpipe, sprinkler or fire suppression related systems**
- ☐ ☐ **Work includes partial demolition as defined in AC §28-101.5**
- ☐ ☒ **Structural Stability affected by proposed work**
- ☐ ☐ **Work includes lighting fixture and/or controls, installation or replacement. [§ECC 404 and 505]**
- ☐ ☒ **Site Safety Job / Project**
- ☐ ☒ **Loft Board**
- ☐ ☒ **Quality Housing**

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance ***New York City Energy Conservation Code*** **(Applicant Statement)**

Not Provided

11 Job Description

APPLICATION FILED TO EXTEND PARKING LOT INTO ADJECENT LOT # 10 TO INCREA
SE THE NUMBER OF PARKING SPACES FROM 95 TO 268 AND PROVIDE NEW CURB CUT 10'-0'. ALL AS PER PLANS FILED HEREWITH.

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): M1-1 - LIGHT MANUFACTURING DISTRICT (HIGH PERFORMANCE)

Overlay(s):

Special District(s):

Map No.: 3A **Street legal width (ft.):** 60 **Street status:** ☒ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

Proposed: Use	Zoning Area (sq.ft.)	District	FAR
Proposed Totals:		–	
Existing Total:		–	–

Proposed Lot Details: **Lot Type:** ☐ Corner ☐ Interior ☐ Through

Lot Coverage (%): **Lot Area (sq.ft.):** **Lot Width (ft.):**

Proposed Yard Details: ☐ No Yards **Or**

Front Yard (ft.): **Rear Yard (ft.):** **Rear Yard Equivalent (ft.):**

Side Yard 1 (ft.): **Side Yard 2 (ft.):**

Proposed Other Details: **Perimeter Wall Height (ft.):**

Enclosed Parking? ☐ Yes ☐ No **No. of parking spaces:**

13 Building Characteristics

		2008 Code Designations?
Occupancy Classification: Existing:	COM - COMMERCIAL BUILDINGS - OLD CODE	☐ Yes ☒ No
Proposed:	COM - COMMERCIAL BUILDINGS - OLD CODE	☐ Yes ☒ No
Construction Classification: Existing:	3: NON-FIREPROOF STRUCTURES	☐ Yes ☒ No
Proposed:	3: NON-FIREPROOF STRUCTURES	☐ Yes ☒ No
Multiple Dwelling Classification: Existing:		
Proposed:		
Building Height (ft.): Existing:		
Proposed:	25	
Building Stories: Existing:		

Proposed: 1
Dwelling Units: Existing:
Proposed:

Building was originally erected pursuant to which Building Code: ☐ 2008 ☐ 1968 ☐ Prior to 1968
Building will fully comply with which Code with this Certificate of Occupancy: ☐ 2008 ☐ 1968 ☐ Prior to 1968
Mixed use building? ☐ Yes ☐ No

14 Fill

☐ Not Applicable ☐ Off-Site ☐ On-Site ☐ Under 300 cubic yards

15 Construction Equipment

Not Applicable

16 Curb Cut Description

Size of cut (with splays): 10 ft. **Distant from nearest corner:** ft. **on street:**

TO EXTEND PARKING LOT INTO ADJACENT LO T #10 TO INCREASE THE NO. OF PARKIN G SPACES FROM 95 TO 268 & PROVIDE NEW CURB CUT 10'-0". ALL AS PER PLANS

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

	Existing		Proposed			Existing		Proposed	
	Yes	No	Yes	No		Yes	No	Yes	No
Fire Alarm	☐	☐	☐	☐	Sprinkler	☐	☐	☐	☐
Fire Suppression	☐	☐	☐	☐	Standpipe	☐	☐	☐	☐

19 Open Spaces

Not Provided

20 Site Characteristics

Not Provided

21 Demolition Details

Not Applicable

22 Asbestos Abatement Compliance

☐ **The scope of work requires related asbestos abatement as defined in the regulations of the NYC Department of Environmental Protection (DEP).**
☐ **The scope of work does not require related asbestos abatement as defined in the regulations of the NYC DEP.**
☐ **The scope of work is exempt from the asbestos requirement as defined in the regulations promulgated by the NYC DEP (15 RCNY 1-23(b)).**

23 Signs

Not Applicable

24 Comments

Comments for Document 01
FILED HEREWITH.

25 Applicant's Statements and Signatures **(See paper form or check Forms Received)**

Yes	No	
☐	☐	**For New Building and Alteration 1 applications filed under the 2008 NYC Building Code only: does this building qualify for high-rise designation?**
☐	☐	**Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is**

no change in use, exits, or occupancy.

26 Owner's Information

Name: CARLOS GOMEZ
Relationship to Owner: OWNER
Business Name: N/A
Business Phone: 516-394-1501
Business Address: 44 CHERRY VALLEY HEMSTEAD NY 11111
Business Fax:
E-Mail:
Owner Type: INDIVIDUAL
Non Profit: ☐ Yes ☒ No

Yes	No	
☐	☐	**Owner's Certification Regarding Occupied Housing (Remain Occupied)**
☐	☒	**Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)**
☐	☒	**Owner DHCR Notification**
☐	☐	**Owner's Certification for Adult Establishment**
☐	☐	**Owner's Certification for Directive 14 (if applicable)**

Metes and Bounds

Beginning at a point on the SOUTHEAST **side of** 9TH AVENUE
Distant ft. NORTHEAST **of the corner formed by the intersection of** 9TH AVENUE **and** WEST 207TH STREET

Running Thence: NE 189 . 10 ft. **Thence:** SE 190 ft.
Running Thence: SW 189 . 10 ft. **Thence:** NW 190 ft.
Running Thence: 0 ft. **Thence:** 0 ft.
Running Thence: 0 ft. **Thence:** 0 ft.

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

APPENDIX E
CITY DIRECTORY

3875 Ninth Ave
3875 Ninth Ave
New York, NY 10034

Inquiry Number: 4036073.1
August 14, 2014

The EDR-City Directory Abstract

Environmental Data Resources Inc

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

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

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

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

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

RESEARCH SUMMARY

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

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Hill-Donnelly Information Services	X	X	X	-
2000	Cole Information Services	-	X	X	-
1998	NYNEX Telephone	-	X	X	-
1996	NYNEX	-	-	-	-
1993	NYNEX Telephone	-	X	X	-
1988	NYNEX Telephone	-	X	X	-
1983	New York Telephone	-	X	X	-
1978	New York Telephone	-	X	X	-
1973	New York Telephone	-	X	X	-
1968	New York Telephone	-	X	X	-
1963	New York Telephone	-	X	X	-
1958	New York Telephone	-	X	X	-
1956	New York Telephone	-	X	X	-
1950	New York Telephone	-	X	X	-
1947	New York Telephone	-	X	X	-
1942	New York Telephone	-	X	X	-
1938	New York Telephone	-	X	X	-
1934	R. L. Polk & Co.	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	-	-	-
1927	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1923	R. L. Polk & Co.	-	X	X	-
1920	R. L. Polk & Co.	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

3875 Ninth Ave
New York, NY 10034

FINDINGS DETAIL

Target Property research detail.

9TH AVE

3875 9TH AVE

Year	*Uses*	*Source*
2013	207 GARAGE	Cole Information Services
2008	207 GARAGE	Cole Information Services
2006	207 Garage 1s	Hill-Donnelly Information Services
	Tract 36061:301 N/A	Hill-Donnelly Information Services

FINDINGS

ADJOINING PROPERTY DETAIL

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

9TH AVE

3884 9TH AVE

Year	Uses	Source
1973	AMER LEGION	New York Telephone
1968	K & K AUTO SALES INC	New York Telephone
	AMER LEGION	New York Telephone
1963	AMER LEGION	New York Telephone
	K & K AUTO SALES INC	New York Telephone
1958	AMER LEGION	New York Telephone
1956	AMER LEGION	New York Telephone
1950	AMER LEGION AUTOMOTIVE POST NO 1179	New York Telephone

W 207 ST

390 W 207 ST

Year	Uses	Source
1963	AUTO CRAFT COLLISION SVCE	New York Telephone
	AUTOCRAFT COLLISIOSS SVCE	New York Telephone
	AUTOCRAFT COLLISIOSS SVCE	New York Telephone
	AUTO CRAFT COLLISION SVCE	New York Telephone
	AUTOCON INDSTRIES SVCE	New York Telephone
	AUTO CRAFT CALLISION SVCE	New York Telephone

400 W 207 ST

Year	Uses	Source
1947	MIRAMAR SWIMMING POOL	New York Telephone

401 W 207 ST

Year	Uses	Source
1998	MERRIT INWARD INC	NYNEX Telephone
	MERIT CARWASH	NYNEX Telephone
1993	MERRNT INWARD INC	NYNEX Telephone
	MERIT CARWASH	NYNEX Telephone
1988	MERRIT INWARD INC	NYNEX Telephone

FINDINGS

Year	Uses	Source
1983	MERRIT INWARD INC	New York Telephone
	INWOOD CAR WASH INC	New York Telephone
1978	INWOOD CAR WASH INC	New York Telephone
1973	INWOOD CAR WASH INC	New York Telephone
1968	SAVEWAY TNWD INC	New York Telephone
1963	PACKES BROS GAS NSTA	New York Telephone
	PACKES BROS	New York Telephone
1958	PACKES BROS GAS STA	New York Telephone
1956	PACKES BROS GAS STA	New York Telephone
1950	PACKES BROS GAS STA	New York Telephone
1947	PACKES BROS GAS STA	New York Telephone
1942	MIRAMAR SVCE STA	New York Telephone
1938	MIRAMAR SVCE STA	New York Telephone

408 W 207 ST

Year	Uses	Source
1958	MIRAMAR SWIMMING POOL	New York Telephone
1956	MIRAMAR SWIMMING POOL	New York Telephone
1950	MIRAMAR SWIMMING POOL	New York Telephone
1942	MIRAMAR SWIMMING POOL	New York Telephone
1938	MIRAMAR SWMMING POOL	New York Telephone
1927	MIRAMAR AMUSEMENT CO	New York Telephone

W 207TH

401 W 207TH

Year	Uses	Source
1934	Hershey Lyman C pres treas Manhattan Photo Engr Co Inc r Rutherford NJ	R. L. Polk & Co.
	Miramar Gas Station RTN Jas P Reiley and Henry B Hershey	R. L. Polk & Co.
	Reiley Jas P Miramar Gas Sta	R. L. Polk & Co.
	Simba Inc NY David Bary pres irving H Bary sec treas	R. L. Polk & Co.
	Hershey Henry B Miramar Gas Station	R. L. Polk & Co.

404 W 207TH

Year	Uses	Source
1923	Inwood Taxi Service Co RTN Louis Lerman Edw McCarrick	R. L. Polk & Co.
1920	Brady Thos F sal	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1920	Stringer Jno E	R. L. Polk & Co.

408 W 207TH

Year	Uses	Source
1927	Miramar Amusement Co	New York Telephone

W 207TH ST

401 W 207TH ST

Year	Uses	Source
2013	CARD PRO	Cole Information Services
2008	AMERADA HESS CORP	Cole Information Services
2006	Card Pro	Hill-Donnelly Information Services
	Merrit Inward Inc	Hill-Donnelly Information Services
2000	MERIT GAS STATIONS	Cole Information Services
	MERRIT INWARD INC	Cole Information Services

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
3875 Ninth Ave	2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
3884 9TH AVE	2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
390 W 207 ST	2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
400 W 207 ST	2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1942, 1938, 1934, 1931, 1927, 1923, 1920
401 W 207 ST	2013, 2008, 2006, 2000, 1996, 1934, 1931, 1927, 1923, 1920
401 W 207TH	2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1931, 1927, 1923, 1920
401 W 207TH ST	2013, 2008, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
401 W 207TH ST	2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
404 W 207TH	2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927
408 W 207 ST	2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1947, 1934, 1931, 1923, 1920
408 W 207TH	2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1923, 1920

3875 Ninth Avenue

NEW YORK, NEW YORK

Subsurface (Phase II) Investigation

AKRF Project Number: 11995

Prepared for:

Maddd Equities
15 Verbena Avenue, Suite 200
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Prepared by:

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OCTOBER 2014

TABLE OF CONTENTS

1.0 Introduction 1
2.0 Previous Environmental Investigations 1
3.0 Physical Setting and Proposed Development 2
4.0 Field Activities 3
4.1 Soil Sampling and Analysis 3
4.2 Groundwater Sampling 3
4.3 Soil Gas Sampling 4
4.4 Field Observations 4
5.0 Findings 5
5.1 Soil Analysis Results 5
5.2 Groundwater Analysis Results 7
5.3 Soil Gas Analysis Results 8
6.0 Conclusions and Recommendations 10
6.1 Recommendations 12
7.0 Limitations 14
8.0 Soil Disposal Issues 15
9.0 References 16

TABLES

Table 1 - Soil Analytical Results of Volatile Organic Compounds (VOCs)
Table 2 - Soil Analytical Results of Semivolatile Organic Compounds (SVOCs)
Table 3 - Soil Analytical Results of Metals
Table 4 - Soil Analytical Results of Pesticides and Polychlorinated Biphenyls (PCBs)
Table 5 - Groundwater Analytical Results of VOCs
Table 6 - Groundwater Analytical Results of SVOCs
Table 7 - Groundwater Analytical Results of Metals
Table 8 - Groundwater Analytical Results of Pesticides and PCBs
Table 9 - Soil Gas Analytical Results of VOCs

FIGURES

Figure 1 – Property Location
Figure 2 – Sampling Location Plan

APPENDICES

Appendix A – Sampling Logs
Appendix B – Laboratory Analytical Data Sheets

1.0 INTRODUCTION

AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) Investigation at the 3875 Ninth Avenue Site (the "Site") in Manhattan (Tax Block 2188, Lots 1 and 10). The Site location (to the northeast of West 207th Street) and sampling locations are shown on Figures 1 and 2.

The purpose of the investigation was to determine whether current or former, on- or off-site activities had adversely affected the Site. The scope of this investigation was based on AKRF's September 2014 *Phase I Environmental Site Assessment* (ESA) of the Site, which identified several on- and off-site Recognized Environmental Conditions (RECs), as described in Section 2.0. The identified RECs included historical on-site automobile repair, wrecking, sales, and service; historical on-site dumping; and past and present uses in the surrounding area, including filling stations and garages with gasoline underground storage tanks (USTs), a rail yard, a dry cleaner, a carpet cleaner and unspecified manufacturing.

Field activities were performed on September 18 and 19, 2014, and included: the advancement of 7 borings and 4 soil gas points, with the collection of 14 soil samples, 3 groundwater samples, and 4 soil gas samples for laboratory analysis. This report describes the methods and results of the investigation.

2.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

3875 Ninth Avenue, New York, New York - Phase I ESA, AKRF, September 2014

The Phase I ESA reviewed a variety of sources including: current and historical land use maps; state and federal environmental regulatory databases; and computerized NYC Fire Department and Buildings Department records, and included reconnaissance of the Site and its surroundings. It identified the following:

- Historical uses of the Site included: a one-story (plus basement) auto sales and service shop in the southwestern corner; auto wrecking in the northeastern corner; houseboat mooring; trailer parking; dumping; and vacant land. The eastern portion of the Site was historically within the Harlem River but was filled between 1951 and 1968 with material of unknown origin. The former bed of the Harlem River beneath this portion of the Site has a significant potential to contain hazardous materials.
- No evidence of past or present on-site petroleum storage tanks was identified. However, historical uses of the Site (particularly the auto service building present in its southwestern corner between 1931 and 1954) would likely have included tanks, which may have been removed or may remain beneath the Site.
- The surrounding area historically included a laundry and cleaner (which may have used petroleum-based solvents based on their age), a carpet cleaner (which may have used chlorinated solvents based on its age), a boat works, filling stations, garages with gasoline USTs, auto repair shops, and factories. A large rail yard was constructed north and northwest of the Site across Ninth Avenue between 1922 and 1928. The rail yard and a filling station located west of the Site across Ninth Avenue were observed during the reconnaissance, and were identified in the regulatory database with active- and closed-status spill listings, hazardous waste generator listings, and petroleum bulk storage (PBS) tank registrations. A monitoring well observed west-adjacent to the Site in the eastern Ninth Avenue sidewalk may have been associated with an investigation conducted for the filling station. The south-adjacent University Heights Bridge may be covered with lead-based paint, which may have affected shallow soils at the Site (particularly before the entire Site was paved).

- Two apparently abandoned portable petroleum-powered generators were observed in the southwestern corner of the Site and on the adjacent Ninth Avenue sidewalk. Surface staining was noted in the vicinity of the generator on the sidewalk, but there was no evidence of a significant release.

New York State Department of Environmental Conservation (NYSDEC) Records – Spill No. 0106375 and 0201957

The Phase I ESA identified several spills at facilities in close proximity to the Site, including active-status Spill No. 0106375 at the rail yard to the north/northwest across Ninth Avenue, and active-status Spill No. 0201957 at the filling station to the west across Ninth Avenue. Additional records for these spills were requested from NYSDEC to determine these spills' potential to affect the Site. Records supplied by NYSDEC indicated the following:

- The rail yard is a large facility, and the precise location of Spill No. 0106375 could not be determined from records available for the Phase I ESA. Records subsequently provided by NYSDEC indicated that this spill occurred at the rail yard's boiler house, approximately 1,400 feet north-northeast of the Site, with contamination limited to the area of the boiler house and adjacent USTs. This spill is thus not likely to have affected subsurface conditions beneath the Site.
- Records for Spill No. 0201957 at the filling station, located at 401 West 207th Street, approximately 190 feet west-northwest of the Property, indicated that groundwater depths in monitoring wells ranged from approximately 8 to 13 feet below grade. The groundwater flow direction was delineated, and ranged from northeasterly to southeasterly. Monitoring wells and an air sparging/soil vapor extraction (AS/SVE) system were installed at the filling station in the early 2000s. Monitoring well MW-10 was installed west-adjacent to the Site in the eastern Ninth Avenue sidewalk in 2007. Elevated volatile organic compound (VOC) levels in groundwater, and free-floating gasoline on groundwater, were present beneath the filling station. However, contaminant concentrations along the eastern side of the filling station were generally low, and neither free product nor exceedances of State drinking water standards for gasoline-related VOCs were detected in MW-10 since its installation. The most recent data provided by NYSDEC was for quarterly well sampling in November 2012. Based on this data, Spill No. 0201957 does not appear likely to have significantly affected Site subsurface conditions.

Of note, site plans in 2005-2006 quarterly monitoring reports identified the Site as a Manhattan Recycling Center scrap metal storage yard; a Manhattan Recycling Center facility was also shown on the block south-adjacent to the Site. The historical recycling/scrap metal storage may have affected Site subsurface conditions.

3.0 PHYSICAL SETTING AND PROPOSED DEVELOPMENT

The Site is approximately 8 to 12 feet above North American Vertical Datum of 1988 (NAVD 88, which is an approximation of mean sea level), with the ground sloping slightly down to the east. This Phase II investigation encountered an approximately 2- to 10-foot layer of urban fill (predominantly sand and silt with brick, ash, wood, plastic, metal, gravel and/or organic matter), which was underlain in most borings by sand, silt, clay, peat, and/or organic matter (possible fill and/or native soil). The apparent native soil included layers of clay and peat as follows: silty clay and peat at a depth of approximately 12 to 15 feet in boring SB-3; peat at a depth of approximately 13.5 to 15 feet in boring SB-4; and clay at a depth of approximately 11.5 to 15 feet in boring SB-7. Bedrock was not encountered in the borings, which were

advanced to depths of 10 to 15 feet, but is anticipated to be approximately 10 to 30 feet below grade based on U.S. Geological Survey mapping.

The Phase II borings first encountered groundwater approximately 7.5 to 11 feet below grade. Based on previous reports summarized in Section 2.0, groundwater most likely flows in a northeasterly or southeasterly direction toward the Harlem River, approximately 25 feet away. The groundwater depth and flow direction are likely tidally influenced, and may also be affected by past filling, underground utilities, other subsurface openings or obstructions, bedrock geology, and other factors. Groundwater in Manhattan is not used as a source of potable water.

The proposed project entails the construction of a multistory residential building with no cellar on the western portion of the Site, and conversion of the eastern portion of the Site to recreational open space. Based on the depth to groundwater, dewatering is not likely to be required for the proposed project.

4.0 FIELD ACTIVITIES

Field activities were conducted on September 18 and 19, 2014 by AKRF personnel and Zebra Environmental Corp. (Zebra) of Lynbrook, NY. Field activities included the advancement of 7 borings and 4 soil gas points, with the collection of 14 soil samples, 3 groundwater samples, and 4 soil gas samples for laboratory analysis. The sampling locations are shown on Figure 2.

4.1 Soil Sampling and Analysis

On September 18 and 19, 2014, Zebra advanced 7 borings using a track-driven Geoprobe® direct push probe (DPP). The sampling locations are shown on Figure 2. The borings were advanced to approximately 15 feet below grade (i.e., below the water table, which was encountered approximately 7.5 to 11 feet below grade). Soil cores were collected from the borings using five-foot long, two-inch diameter, stainless steel macrocore piston rod samplers fitted with an internal acetate liner. Soil was field-screened using a photoionization detector (PID), which measures relative concentrations of VOCs. At each boring location, AKRF field personnel recorded and documented subsurface conditions.

Two samples were collected from each boring: one from the 0-2 foot interval (below pavement), and one from the two-foot interval at or just above the water table.

Samples slated for analysis were placed in laboratory-supplied containers in accordance with EPA protocols and were analyzed by Alpha Analytical (Alpha), a New York State Department of Health (NYSDOH) ELAP-certified laboratory. The samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides by EPA Method 8081, polychlorinated biphenyls (PCBs) by EPA Method 8082, Total Analyte List (TAL) Metals.

4.2 Groundwater Sampling

Groundwater was first encountered in the borings at depths ranging from 7.5 to 11 feet below grade. Three groundwater samples were collected: from boring SB-1 (where evidence of petroleum contamination was observed in shallow soil); and from borings SB-3 and SB-4 (nearest to the location of historical on-site auto repair and the existing off-site filling station across Ninth Avenue). Samples were collected from temporary one-inch diameter well points installed in the borings; no permanent monitoring wells were installed. The sampling locations are shown on Figure 2.

Prior to sampling each well, a minimum of three well volumes was purged using a peristaltic pump to remove sediments from the water column and establish a connection with the aquifer. Samples were then collected using the peristaltic pump with dedicated tubing into laboratory-supplied glassware and was submitted via courier to Alpha. The samples were analyzed for VOCs by EPA Method 8260, SVOC by EPA Method 8270, pesticides by EPA Method 8081, PCBs by EPA Method 8082, and Total and Dissolved TAL Metals. One trip blank was shipped with the samples for quality assurance/quality control (QA/QC) purposes and analyzed for VOCs to check for contamination during transport or sampling procedures.

4.3 Soil Gas Sampling

AKRF's sampling procedures were based on the NYS Department of Health (DOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Four soil gas samples were collected at the locations shown on Figure 2. At each location, soil gas probes were installed by advancing an expendable drive point using a Geoprobe to approximately 1 to 2 feet above the water table (ranging from approximately 5.5 feet below grade (SV-2), to approximately 9 feet below grade (SV-4). A six-inch stainless steel screen implant with connected Teflon tubing was installed through the Geoprobe rods and threaded into the drive point. The sampling tubing extended from the end of the screen to above grade. The push probe rods were then removed, and the borings were backfilled with clean silica sand to approximately one foot above the screen. Hydrated bentonite was used to fill the remaining void around the sampling tubing to ground surface.

Prior to sampling, the soil gas points were purged of three sampler volumes using a peristaltic pump. During purging, an inverted bucket was placed over the sampling point and helium gas was introduced through a small hole in the bucket to saturate the atmosphere around the sample port with helium gas. The purged vapors were monitored using a Dielectric Technologies Model MGD-2002 portable helium detector to check for short-circuiting of ambient air into the vapor sampling point and verify the adequacy of the bentonite seal. Helium concentrations of less than the NYSDOH threshold value of 10 percent are considered sufficient to verify a tight seal. Purged vapors were also field-screened for VOCs using a PID calibrated with 10 parts per million (ppm) isobutylene.

After purging, the probes were connected via Teflon tubing to laboratory-supplied, batch-certified clean six-liter SUMMA canisters equipped with one-hour flow regulators. Vacuum readings were collected at the start and end of the sampling period. Immediately after opening the Summa® canister, the initial vacuum (inches of mercury) was noted. After approximately one hour, the final vacuum reading (inches of mercury) was noted and the Summa® canister was closed. Upon completion, the pavement was restored with asphalt.

The samples were analyzed by Alpha for VOCs by EPA Method TO-15.

4.4 Field Observations

Soil Sampling

The investigation encountered an approximately 2- to 10-foot layer of urban fill (predominantly sand with brick, ash, wood, plastic, metal, gravel and/or organic matter), which was underlain in most borings by sand, silt, clay, peat, and/or organic matter (possible fill and/or native soil). The apparent native soil included layers of clay and peat as follows: silty clay and peat at a depth of approximately 12 to 15 feet in boring SB-3; peat at a depth of approximately 13.5 to 15 feet in boring SB-4; and clay at a depth of approximately 11.5 to 15 feet in boring SB-7. Bedrock was not encountered in the borings, which were advanced to depths of 10 to 15 feet.

Soil exhibiting evidence of potential petroleum contamination (staining and a petroleum-like odor) was observed in the 1- to 5-foot interval of boring SB-1, above the water table (which was encountered at approximately 7.5 feet below grade). The PID readings in this interval were only slightly elevated, with a maximum reading of 2 parts per million (ppm). No significantly elevated PID readings (greater than 2.5 ppm) or other evidence of contamination (e.g., odors or staining) were noted deeper in boring SB-1, or in the other borings. Results of the field screening data are provided in the boring logs in Appendix A.

Groundwater Sampling

Groundwater was first encountered in the borings at depths ranging from 7.5 to 11 feet below grade. A slight sheen was noted on purge water for sample GW-2, collected from boring SB-4 in the southwestern corner of the Site (nearest the off-site filling station). No odors, staining or elevated PID readings were associated with the other groundwater samples. The temporary well installation details are included in Appendix A.

Soil Gas Sampling

No helium was detected in the soil gas points during purging, verifying an adequate surface seal. A slightly elevated PID reading of 0.136 ppm was detected in one soil gas sampling point (SV-4). The field logs of the soil gas purging and sampling are included in Appendix A.

5.0 FINDINGS

5.1 Soil Analysis Results

Analytical results from the 14 soil samples were compared to the 6 NYCRR Part 375-6.4 Soil Cleanup Objectives (SCOs). Based on the intended use of the Site, the Restricted Residential Criteria (RRSCOs) were used for comparison. The Unrestricted Use SCOs (USCOs) were also included for estimating potential soil handling requirements. A complete laboratory analytical report is included in Appendix C.

Volatile Organic Compounds

Typically gasoline-related VOCs were detected in sample SB-1 (0-2'): 1,2,4-trimethylbenzene was detected at 300 parts per million (ppm), exceeding its USCO of 3.6 ppm and RRSCO of 52 ppm; 1,3,5-trimethylbenzene (66 ppm) exceeded its USCO of 8.4 ppm and its RRSCO of 52 ppm; benzene (2.3 ppm) exceeded its USCO of 0.06 ppm, but not its RRSCO of 4.8 ppm; ethylbenzene (28 ppm) exceeded its USCO of 1 ppm, but not its RRSCO of 41 ppm; naphthalene (49 ppm) exceeded its USCO of 12 ppm, but not its RRSCO of 100 ppm; n-butylbenzene (21 ppm) exceeded its USCO of 12 ppm, but not its RRSCO of 100 ppm; n-propylbenzene (33 ppm) exceeded its USCO of 3.9 ppm, but not its RRSCO of 100 ppm; o-xylene and p/m-xylene (41 ppm and 110 ppm, respectively), exceeded their USCO for total xylene of 0.26 ppm and their RRSCO for total xylene of 100 ppm; and toluene (12 ppm), exceeded its USCO of 0.7 ppm, but not its RRSCO of 100 ppm. The VOCs which exceeded USCOs and/or RRSCOs in SB-1 (0-2') were not detected in the deeper sample from the same boring, SB-1 (5-7'), which was collected just above the water table. Trace concentrations of gasoline additive methyl tert-butyl ether (MTBE) were detected in samples SB-1 (5-7') and SB-2 (8-10'), collected in close proximity to the groundwater table. Since MTBE was not detected in the shallow soil, but was present in the soil samples near the water table and groundwater samples at the upgradient filling station at 401 West 207th Street, the MTBE detections may well relate to the filling station or another an off-site source.

VOCs typically associated with chlorinated solvents (1,2-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and/or vinyl chloride) were detected in samples SB-1 (0-2'), SB-3 (0-2'), SB-3 (10-12'), and SB-7 (0-2'). Cis-1,2-dichloroethene was detected at 2.5 ppm in SB-1 (0-2'), exceeding its USCO of 0.25 ppm, but not its RRSCO of 100 ppm. Vinyl chloride was detected in SB-1 (0-2') at 2.2 ppm, exceeding its USCO of 0.02 ppm and its RRSCO of 0.9 ppm. The other detected concentrations were below USCOs and RRSCOs. Based on their distribution (primarily in shallow samples), these VOCs could be attributable to historical on-site use and/or the fill materials noted in the borings. Methylene chloride, which is a common solvent but also frequently a laboratory artifact, was detected in sample SB-1 (0-2') at a concentration of approximately 1.7 ppm, exceeding its USCO of 0.05 ppm, but not its RRSCO of 100 ppm.

Acetone, which is sometimes present in fill materials but is more commonly a laboratory artifact, was detected in samples SB-6 (10-12') and SB-7 (0-2') at concentrations of 0.053 ppm and 0.17 ppm, respectively, slightly exceeding its USCO of 0.05 ppm, but well below its CSCO of 100 ppm.

No other VOCs were detected in the soil samples at concentrations exceeding USCOs or CSCOs.

Soil analytical results for VOCs are presented in Table 1.

Semi-Volatile Organic Compounds

SVOCs were detected in 10 of the 14 soil samples; no SVOCs were detected in 4 deeper soil samples collected from apparent native material. The detected SVOCs were primarily polycyclic aromatic hydrocarbons (PAHs), a class of compounds commonly associated with fill materials as well as ash, asphalt, and some petroleum products. The PAH concentrations ranged from non-detectable to approximately 3.1 ppm of benzo(b)fluoranthene. The detected PAHs included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene in exceedance of USCOs in samples SB-1 (0-2'), SB-2 (0-2'), SB-3 (0-2'), and SB-7 (9-11'). Of these, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene also exceeded RRSCOs in one or more samples.

Other detected SVOCs included 3-methylphenol/4-methylphenol (cresol), acetophenone, and benzoic acid, which may be associated with fill materials. These SVOCs were detected in one sample each at concentrations below USCOs and RRSCOs. Bis(2-ethylhexyl)phthalate and di-n-butylphthalate, which are common components of plastics, were detected in two to five samples each at concentrations below USCOs and RRSCOs. These SVOC may be associated with fill materials (which were observed to include plastic in one boring) and/or artifacts from plastic sampling/laboratory equipment.

Overall, the detected SVOC concentrations appeared to be attributable primarily to fill materials, and were not indicative of significant contamination.

Soil analytical results for SVOCs are presented in Table 2.

Metals

Concentrations of metals above USCOs were detected in 10 of the 14 samples, with arsenic (maximum concentration of 23 ppm), barium (maximum concentration of 1,100 ppm), cadmium (maximum concentration of 32 ppm), chromium (maximum concentration of 100 ppm), copper (maximum concentration of 860 ppm), lead (maximum concentration of 2,200 ppm), mercury (maximum concentration of 0.74 ppm), nickel (maximum concentration of 180 ppm), selenium (maximum concentration of 4.1 ppm), and zinc (maximum concentration of 3,600 ppm) exceeding their respective USCOs. Arsenic, barium, cadmium, copper, and lead also exceeded their RRSCOs

of 16 ppm, 400 ppm, 4.3 ppm, and 400 ppm respectively in one to two samples each. Metal concentrations were generally highest in SB-1 (0-2'), where five metals exceeded RRSCOs. The detected metal concentrations were likely attributable to some combination of historical Site uses and fill materials beneath the Site.

Of note, if soil disposal is required for the proposed construction, based on the detected concentrations of lead, it is possible that some portion of the soil could require disposal as hazardous waste depending on the results of future waste classification testing (which was not conducted as part of this investigation).

Soil analytical results for metals are presented in Table 3.

Pesticides and PCBs

Pesticides 4,4'-DDD and 4,4'-DDT were detected in sample SB-2 (0-2') at reported concentrations of 0.00499 ppm and 0.00483 ppm, respectively, slightly above their USCOs of 0.0033 ppm each, but well below their RRSCOs of 13 ppm and 7.9 ppm, respectively. The pesticide dieldrin was detected in SB-5 (0-2') at a concentration of approximately 0.00579 ppm, slightly above its USCO of 0.005 ppm, but well below its RRSCO of 0.2 ppm.

PCBs were detected in 8 of the 14 samples. Total PCBs were detected in SB-1 (0-2') at a concentration of 1.56 ppm, above the USCO and the RRSCO. Total PCB concentrations in samples SB-5 (0-2') and SB-7 (0-2') were 0.424 ppm and 0.789 ppm, respectively, slightly exceeding the USCO of 0.1 ppm, but below the RRSCO of 1 ppm.

The detected pesticide and PCBs concentrations are likely due to historical uses of the Site and/or to urban fill materials.

Soil analytical results for pesticides and PCBs are presented in Table 4.

5.2 Groundwater Analysis Results

Groundwater sample analytical results were compared to the NYSDEC Class GA Ambient Water Quality Standards (drinking water standards) for comparison purposes, although groundwater is not used as a source of potable water in Manhattan. A complete laboratory analytical report is included in Appendix B.

Volatile Organic Compounds

Typically petroleum-related VOCs were detected in sample GW-1, collected from boring SB-1 in the eastern portion of the Site (where potentially petroleum-contaminated soil was noted). These VOCs included: naphthalene at a concentration of 31 parts per billion (ppb), in exceedance of its Class GA standard of 10 ppb; total xylenes at a concentration of 8.7 ppb, in exceedance of their Class GA standard of 5 ppb; and other VOCs at concentrations below Class GA standards. The gasoline additive methyl tert-butyl ether (MTBE) was detected in 3 samples at concentrations ranging from 3.2 to 5.3 ppb, with the highest concentration in sample GW-2 at the southwestern corner of the Site (downgradient of the off-site filling station across Ninth Avenue where MTBE contamination is known to be present). The detected MTBE concentrations were below its Class GA standard of 10 ppb. MTBE was detected in only two soil samples, in close proximity to the water table, but was present in groundwater samples at the upgradient filling station at 401 West 207th Street. The detected VOCs were therefore likely attributable to some combination of off-site sources and potentially past on-site release(s).

VOCs typically associated with chlorinated solvents (1,2-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and/or vinyl choride) were detected at concentrations ranging

from approximately 0.45 ppb to 1 ppb, below Class GA standards, in samples GW-2 and GW-3 in the western portion of the Site. These VOCs were also detected at low levels in soil samples at the Site, and were likely attributable to some combination of historical Site uses, historical fill material and off-site sources.

Groundwater analytical results for VOCs are presented in Table 5.

Semi-Volatile Organic Compounds

SVOCs were detected in all 3 groundwater samples. Six PAHs exceeded their respective Class GA standards in one sample each, including naphthalene, which was detected in sample GW-1 at a concentration of 11 ppb, slightly above its Class GA standard of 10 ppb. The detected PAH concentrations were likely attributable to fill particles entrained in the samples and/or low-level petroleum contamination at SB-1/GW-1.

Bis(2-ethylhexyl)phthalate was detected in all three samples, with concentrations in GW-1 and GW-3 (5.7 ppm and 9.8 ppb, respectively) exceeding its Class GA standard of 5 ppb. This SVOC was also detected at low levels in the soil samples, and may be attributable to fill particles entrained in the samples and/or an artifact from plastics in the sampling or analytical process.

Groundwater analytical results for SVOCs are presented in Table 6.

Metals

Elevated metal concentrations were detected in the unfiltered groundwater samples, with barium, chromium, iron, lead, magnesium, manganese, nickel, and/or sodium exceeding Class GA standards. Concentrations in the filtered groundwater samples were generally somewhat lower, but reported as slightly higher for certain metals (likely due to variations in the sample matrix). Antimony, barium, iron, magnesium, manganese, and sodium exceeded Class GA standards in the filtered groundwater samples. The detected metal concentrations were likely attributable to fill particles entrained in the samples and/or natural sources (e.g., brackish water from the nearby Harlem River).

Groundwater analytical results for metals are presented in Table 7.

Pesticides and PCBs

No pesticides or PCBs were detected in the groundwater samples. Groundwater analytical results for pesticides and PCBs are presented in Table 8.

5.3 Soil Gas Analysis Results

Analytical results from the 4 soil gas samples are presented in Table 9. In the absence of soil vapor criteria, results were conservatively compared to indoor air criteria published in the 2006 *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, specifically to NYSDOH Air Guideline Values (AGVs) and to background levels of VOCs in indoor air presented in Appendix C of the Vapor Intrusion Guidance document, including: Upper Fence Limit indoor air values from "Table C-1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes," 90th Percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method," and 95th Percentile Indoor Air Values from "Table C-5. Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air."

A variety of VOCs potentially associated with petroleum, solvents, and refrigerants were detected in the soil gas samples. Nineteen VOCs (2,2,4-trimethylpentane, 2-butanone, 4-methyl-2-pentanone, acetone, benzene, chloroform, cis-1,2-dichloroethene, cyclohexane, dichlorodifluoromethane,

ethylbenzene, heptane, n-hexane, m/p-xylene, o-xylene, tetrachloroethene, toluene, trichloroethene, trichlorofluoromethane, and vinyl chloride) exceeded the background indoor air ranges used for comparison. VOC concentrations were highest in sample SV-1, collected near boring SB-1 in the eastern portion of the Site (i.e., outside of the proposed building's footprint). Total VOC concentrations were approximately 222,900 micrograms per cubic meter (µg/m^3) in SV-1, 5,100 µg/m^3 in SV-2, 4,100 µg/m^3 in SV-3, and 1,245 µg/m^3 in SV-4. Due to high VOC concentrations, detection limits in sample SV-1 were elevated (i.e., additional VOCs might be present with concentrations above background indoor air values, but below the reported detection limits). Tetrachloroethene (also known as perchloroethylene, PCE or "perc"), which is most commonly associated with dry cleaning, was detected in all four samples, and exceeded its AGV of 30 µg/m^3 in samples SV-1 outside of the proposed building's footprint (concentration of 26,200 µg/m^3) and SV-3 within the proposed building's footprint (concentration of 2,400 µg/m^3). Trichloroethene (TCE), which is a common industrial solvent and a breakdown product of PCE, was detected in three samples: SV-1 (concentration of 4,800 µg/m^3), SV-3 (concentration of 291 µg/m^3), and SV-4 inside the proposed building's footprint (concentration of 8.76 µg/m^3), exceeding its AGV of 5 µg/m^3 in all three. Many of the VOCs detected in soil vapor were detected at low concentrations in soil and/or groundwater samples, and the detected VOC levels were likely associated with some combination of historical Site uses, fill materials, and migration from off-site sources.

The Vapor Intrusion Guidance Document provides "decision matrices" for four VOCs: carbon tetrachloride, tetrachloroethene, 1,1,1-trichloroethane and trichloroethene. Carbon tetrachloride was not detected in the samples, and 1,1,1-trichloroethane was detected in one sample at a concentration of 2.31 µg/m^3. Significantly elevated concentrations of tetrachloroethene and trichlorothene were detected, as previously noted, but, without corresponding indoor air concentrations, the decision matrices cannot be used to provide definitive recommendations. However, given the concentrations of VOCs found in soil vapor in areas where buildings are proposed, it is recommended that vapor controls (e.g., a vapor barrier) be designed and installed beneath and around new building foundations. The matrices are not applicable to areas planned to be open spaces, as vapor intrusion into enclosed spaces would not occur there).

6.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF, Inc. (AKRF) conducted a subsurface (Phase II) investigation at the 3875 Ninth Avenue Site in Manhattan (Tax Block 2188, Lots 1 and 10), located to the north of West 207th Street. The investigation was conducted to determine whether current or former on- or off-site activities have adversely affected the Site, and included the advancement of 7 borings and 4 soil gas points, with the collection of 14 soil samples, 3 groundwater samples, and 4 soil gas samples for laboratory analysis.

The investigation encountered an approximately 2- to 10-foot layer of urban fill (predominantly sand with brick, ash, wood, plastic, metal, gravel and/or organic matter), which was underlain in most borings by sand, silt, clay, peat, and/or organic matter (possible fill and/or native soil). Groundwater was first encountered in the borings at approximately 7.5 to 11 feet below grade. Bedrock was not encountered in the borings, which were advanced to 10 to 15 feet below grade. Field screening noted petroleum-like odors and staining in the 1- to 5-foot interval of boring SB-1, but no significantly elevated photoionization detector (PID) readings. Field screening noted no evidence of contamination (e.g., significantly elevated PID readings, odors or staining) in other borings.

Soil and groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, Target Analyte List (TAL) Metals (both total and dissolved for groundwater), and pesticides and polychlorinated biphenyls (PCBs) by EPA Method 8082.

Soil sample analytical results were compared to NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives for Unrestricted Use (USCOs) and Part 375 Soil Cleanup Objectives for Restricted - Residential Use (RRSCOs). The USCOs assume long-term exposure to soil by both human and ecological receptors, which does not currently occur, and would not occur in the future since any Site soil would be either removed during the proposed construction, or encapsulated by building foundations, paved surfaces, and/or clean soil. The RRSCOs were developed for multi-family residential uses with some potential for soil contact.

Groundwater analytical results were compared to NYSDEC Class GA Ambient Water Quality Standards (drinking water standards), which are intended for current or potential potable water supplies, although groundwater in Manhattan is not and would not be used as a potable source.

Soil gas samples were analyzed for VOCs by EPA Method TO-15. The results of the soil gas samples were conservatively compared to the indoor air criteria published in the 2006 *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, specifically NYSDOH Air Guideline Values (AGVs) and background levels of VOCs from studies of indoor air presented in Appendix C of the Guidance document.

A summary of the analytical results is as follows:

- Typically petroleum-related VOCs were detected in sample SB-1 (0-2'), collected at the interval where signs of potential petroleum contamination was observed. The VOCs 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, xylenes, and toluene in this sample exceeded USCOs. The VOCs 1,2,4-trimethylbenzene [300 parts per million (ppm)], 1,3,5-trimethylbenzene (66 ppm), and total xylenes (150 ppm) also exceeded their RRSCOs of 52 ppm, 52 ppm, and 100 ppm, respectively. No elevated VOC concentrations were detected in the deeper sample from the same boring, SB-1 (5-7'), which was collected above the water table. Slightly elevated concentrations of petroleum-related VOCs were detected in sample GW-1, collected from the same boring. These VOCs included: naphthalene at a concentration of 31 parts per billion (ppb), in exceedance of its Class GA standard of 10 ppb; total xylenes at a concentration of 8.7 ppb, in exceedance of their Class GA standard of 5 ppb; and other VOCs at

concentrations below Class GA standards. Trace concentrations of gasoline additive methyl tert-butyl ether (MTBE) were detected in this deeper soil samples SB-1 (5-7') and SB-2 (8-10'), both collected in close proximity to the groundwater table; no MTBE was detected in the shallow soil samples. MTBE was detected in 3 groundwater samples at concentrations ranging from 3.2 to 5.3 parts per billion (ppb), below the Class GA standard of 10 ppb, with the highest concentration in a sample at the southwestern corner of the Site (downgradient of the off-site filling station across Ninth Avenue, where MTBE was also detected in groundwater). Based on the distribution of MTBE, this VOC was likely attributable to an off-site source.

- VOCs associated with chlorinated solvents (1,2-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and/or vinyl chloride) were detected in four soil samples (three of which were from the shallow 0- to 2-foot interval). Cis-1,2-dichloroethene was detected at 2.5 ppm in SB-1 (0-2'), exceeding its USCO of 0.25 ppm, but not its RRSCO of 100 ppm. Vinyl chloride was detected in SB-1 (0-2') at 2.2 ppm, exceeding its USCO of 0.02 ppm and its RRSCO of 0.9 ppm. The other detected concentrations were below USCOs and RRSCOs. These VOCs were also detected at concentrations below Class GA standards in two groundwater samples in the western portion of the Site. Based on their distribution, the chlorinated VOCs were likely attributable to some combination of historical Site uses (including auto service and wrecking, dumping, and recycling), fill materials beneath the Site, and/or off-site sources.
- The VOCs acetone and methylene chloride, which are common laboratory artifacts, were detected in one to two soil samples slightly above USCOs, but well below RRSCOs.
- Somewhat elevated SVOC concentrations were identified in the soil samples, with 7 SVOCs slightly exceeding USCOs and 5 SVOCs [benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene] slightly exceeding RRSCOs in 4 of the 14 samples. The SVOCs detected in exceedance of USCOs and/or RRSCOs were polycyclic aromatic hydrocarbons (PAHs), a class of compounds commonly associated with fill materials as well as ash, asphalt, and some petroleum products. Other SVOCs likely associated with fill and plastics (potentially an artifact from sampling/laboratory equipment) were detected at concentrations below USCOs and RRSCOs. Overall, the detected SVOC concentrations in soil appeared to be attributable primarily to fill materials, and were not indicative of significant contamination.
- Certain PAHs were detected slightly above Class GA standards in groundwater samples, likely attributable to fill particles entrained in the samples and/or low-level petroleum contamination at SB-1/GW-1. The SVOC bis(2-ethylhexyl)phthalate was detected in all three groundwater samples, with concentrations in GW-1 and GW-3 slightly exceeding its Class GA standard. This SVOC, which is common component of plastics, may be attributable to fill particles entrained in the samples and/or an artifact from the sampling or analytical process.
- Concentrations of 10 metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, and zinc) exceeded their respective USCOs in the soil samples. Arsenic, barium, cadmium, and lead also exceeded their RRSCOs in one to two samples each. Metal concentrations were generally highest in SB-1 (0-2'), where five metals exceeded RRSCOs. The detected metal concentrations were likely attributable to some combination of historical Site uses and fill materials beneath the Site. Certain metals exceeded Class GA standards in the unfiltered and/or filtered groundwater samples, likely due to fill particles entrained in the samples and/or natural sources (e.g., brackish water from the nearby Harlem River).
- Three pesticides (4,4'-DDD, 4,4'-DDT, and dieldrin) were detected in two soil samples slightly above their USCOs, but well below RRSCOs. PCBs were detected in 8 of the 14 soil samples, with total

PCB concentrations exceeding the USCO in three samples, and the RRSCO in one sample. The detected pesticide and PCBs concentrations were likely due to historical uses of the Site and/or to urban fill materials. No pesticides or PCBs were detected in the groundwater samples.

- A variety of VOCs potentially associated with gasoline, solvents and refrigerants were detected in the soil gas samples, with 18 VOCs exceeding their respective background indoor air values and total VOC concentrations ranging from approximately 222,900 micrograms per cubic meter ($\mu g/m^3$) in the eastern portion of the Site (outside of the proposed building footprint) to 1,245 $\mu g/m^3$ in its northwestern corner (within the proposed building footprint). Tetrachloroethene (also known as perchloroethylene, PCE or "perc"), which is commonly associated with dry cleaning, was detected in all four samples, and exceeded its AGV of 30 $\mu g/m^3$ in samples SV-1 (concentration of 26,200 $\mu g/m^3$) and SV-3 (concentration of 2,400 $\mu g/m^3$). Trichloroethene (TCE), which is a common industrial solvent and a breakdown product of PCE, was detected in three samples: SV-1 outside of the proposed building footprint (concentration of 4,800 $\mu g/m^3$), SV-3 within the proposed building footprint (concentration of 291 $\mu g/m^3$), and SV-4 within the proposed building footprint (concentration of 8.76 $\mu g/m^3$), exceeding its AGV of 5 $\mu g/m^3$ in all three. Based on the detected levels, decision matrices included in the Vapor Intrusion Guidance document recommended mitigation for buildings where such concentrations have been detected beneath the foundations (the matrices are not applicable to open spaces where potential vapor intrusion into enclosed space is not a concern). Many of the VOCs detected in soil vapor were detected at low concentrations in soil and/or groundwater samples, and the detected VOC levels were likely associated with some combination of historical Site uses, fill materials, and migration from off-site sources.

Of note, if soil disposal is required for the proposed construction, based on the detected concentrations of lead (up to 2,200 ppm), it is possible that some portion of the soil could require disposal as hazardous waste depending on the results of future waste classification testing (which was not conducted as part of this investigation).

6.1 Recommendations

The proposed project entails construction of a multistory residential building with no cellar in the western portion of the Site, and conversion of the eastern portion of the Site to recreational space. Based on the findings of the Phase II investigation, recommendations include:

- The Phase II identified: an area with potential petroleum-contamination (and low-level VOC contamination in groundwater) in the eastern portion of the Site; urban fill materials containing somewhat elevated concentrations of SVOCs and metals (and lower levels of pesticides and PCBs) throughout the Site; low levels of chlorinated solvents in Site soil and groundwater; and elevated concentrations of chlorinated solvent- and petroleum-related VOCs in soil gas. To address the potential for encountering known or unexpected contamination during Site redevelopment, and to reduce the potential for vapor intrusion following the redevelopment, future construction should be performed in accordance with a Remedial Action Plan (RAP) and associated Construction Health and Safety Plan (CHASP). The RAP should address requirements for items such as: soil stockpiling, soil disposal and transportation; and dust control. Contingency measures for petroleum storage tanks and other contamination should be included in the event that they are encountered. Vapor control measures (at a minimum, a vapor barrier/waterproofing membrane beneath the foundation slab and outside of below-grade sidewalls) should be included in the RAP. The RAP should include the requirement that any new landscaped areas be capped with a layer of imported clean fill to the extent this is practical (e.g., soil disturbance and fill placement may be limited in wetland-adjacent areas). The CHASP should include measures for worker and community protection, including personal protective equipment, dust control, air monitoring, and emergency response procedures.

- Soil and fill materials excavated as part of site development activities should be properly handled and managed in accordance with applicable regulations, including hazardous waste disposal regulations. Transportation of material leaving the site for off-site disposal must be in accordance with federal, state and local regulatory requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.
- No USTs are known to be present at the Site. During Site redevelopment, any unexpectedly encountered USTs should be properly closed and removed, along with any contaminated soil. The closure should be performed in accordance with the applicable regulations, including NYSDEC tank registration and spill reporting regulations.
- If dewatering is necessary for the proposed project, it should be conducted in accordance with a NYCDEP sewer discharge permit (for discharges to the combined sewer system) and/or NYSDEC regulations (for discharges to outfalls directly to the Harlem River). Groundwater testing, and possibly pre-treatment (dependent upon the testing results), may be necessary to comply with the applicable requirements for obtaining the discharge permit.

7.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by Maddd Equities. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

8.0 SOIL DISPOSAL ISSUES

In addition to the discussions in the Conclusions, Recommendations, and Limitations Sections (Sections 6.0 and 7.0), the issue of appropriate management of off-site disposal of soil warrants careful consideration. Any material being disposed of off-site is a regulated waste, and disposal must be in accordance with:

- Requirements of the specific receiving facility;
- Requirements of any agencies overseeing the cleanup/excavation; and
- Federal and state requirements (sometimes in both the state where the soil is generated and where disposal will occur).

For hazardous wastes and petroleum-contaminated soil (and other 'clearly contaminated' materials), the requirements are usually fairly well defined. It is in the situation where contamination is not readily apparent (e.g., so called "historic or urban fill" or "construction and demolition debris" or material that may have been formerly identified as "clean fill") that present the greatest potential for problems and cost overruns. Even on sites where no contamination requiring remediation is identified, it is common that most of the excavated material is considered "contaminated" for purposes of waste disposal. Concentrations of the various contaminants in historic fill can be highly variable, and upon further testing, the material could contain higher contaminant concentrations than outlined in this investigation. Portions of this material could be classified as hazardous waste.

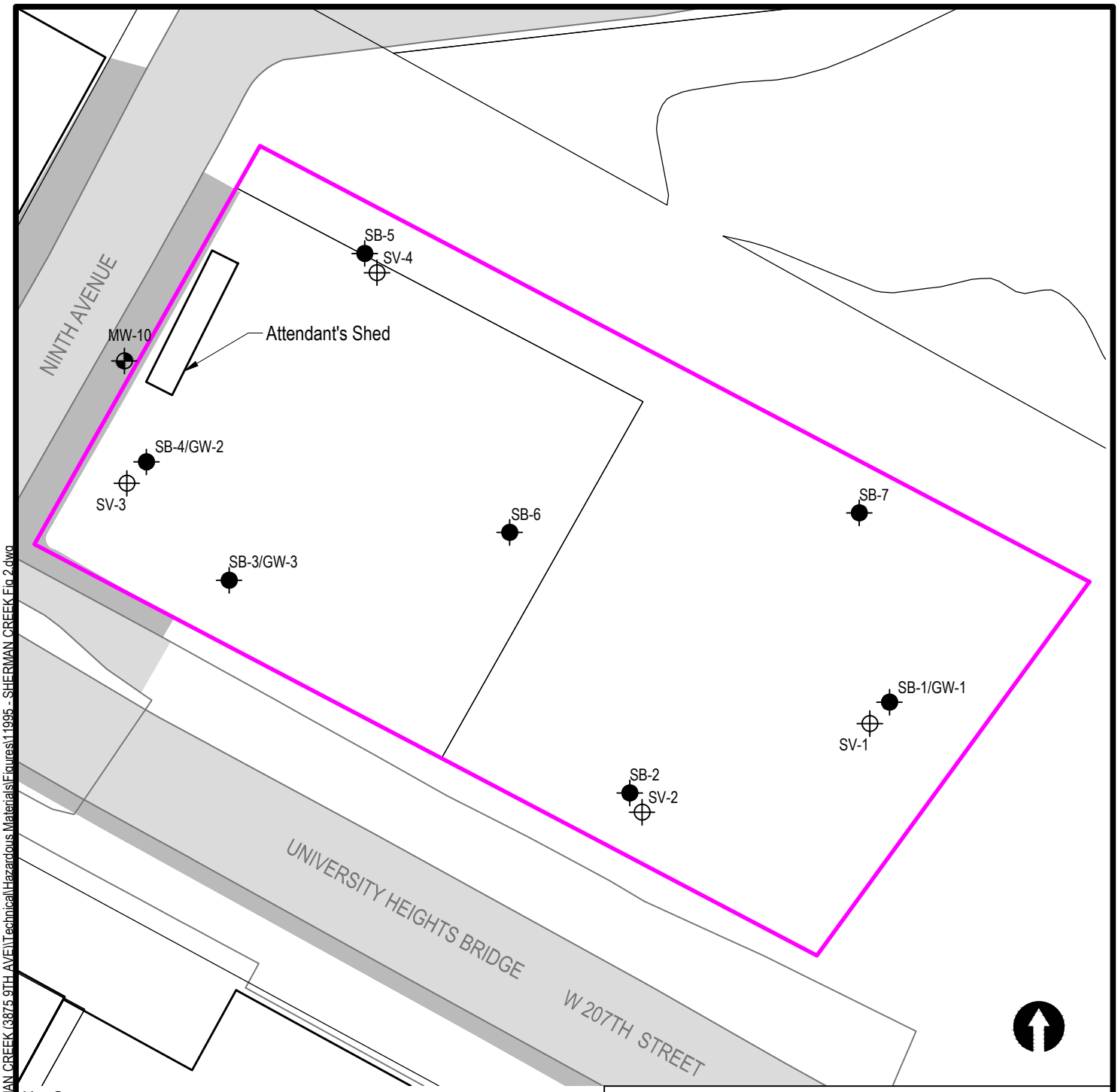
It is important that the intended disposal facility (or facilities) be identified in advance of off-site disposal. Agency approval is sometimes required for disposal, and the facility will frequently require additional testing prior to (and sometimes at the time of) accepting material. Material must conform to a lengthy list of requirements based on both chemical composition and sometimes numerous other parameters (related to size, percentage of liquids, presence of odors, etc.) for acceptance at the facility. Assuming (or allowing a contractor to assume) that all, or even most, of the soil from a site can be disposed of at minimal cost may result in unanticipated and expensive change orders.

For these reasons, we recommend that professional advice be sought prior to preparing bid documents and contracts incorporating soil disposal.

9.0 REFERENCES

1. U.S. Geological Survey, *Central Park, N.Y. – N.J. Quadrangle*, 7.5 minute Series (Topographic), Scale 1:24,000, 1966, Photorevised 2011.
2. U.S. Geological Survey, Open Files Report 89-462, Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey, Sheet 3 - Bedrock Contours and Outcrops, 1990.
3. *Phase I Environmental Site Assessment – 3875 Ninth Avenue, New York, NY,* AKRF, September 2014.
4. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York,* New York State Department of Health Center for Environmental Health, Bureau of Environmental Exposure Investigation, October 2006.
5. 6 NYCRR § 375, effective December 14, 2006, New York State Department of Environmental Conservation Rules and Regulations, Remedial Program Requirements.
6. 6 NYCRR Chapter X § 700 – 706, New York State Department of Environmental Conservation Water Quality Regulations, Surface Water and Ground Water Classifications and Standards.

FIGURES



Map Source:
NYCDCP (NYC Dept. of City Planning 2013) GIS database

0' 30' 60' 120'
SCALE IN FEET

LEGEND:

- PROJECT SITE BOUNDARY
- LOT LINE
- BUILDING LINE
- SB-1/TW-1 — SOIL BORING/GROUNDWATER WELL SAMPLE
- MW-10 — MONITORING WELL
- SG-1 — SOIL GAS SAMPLE

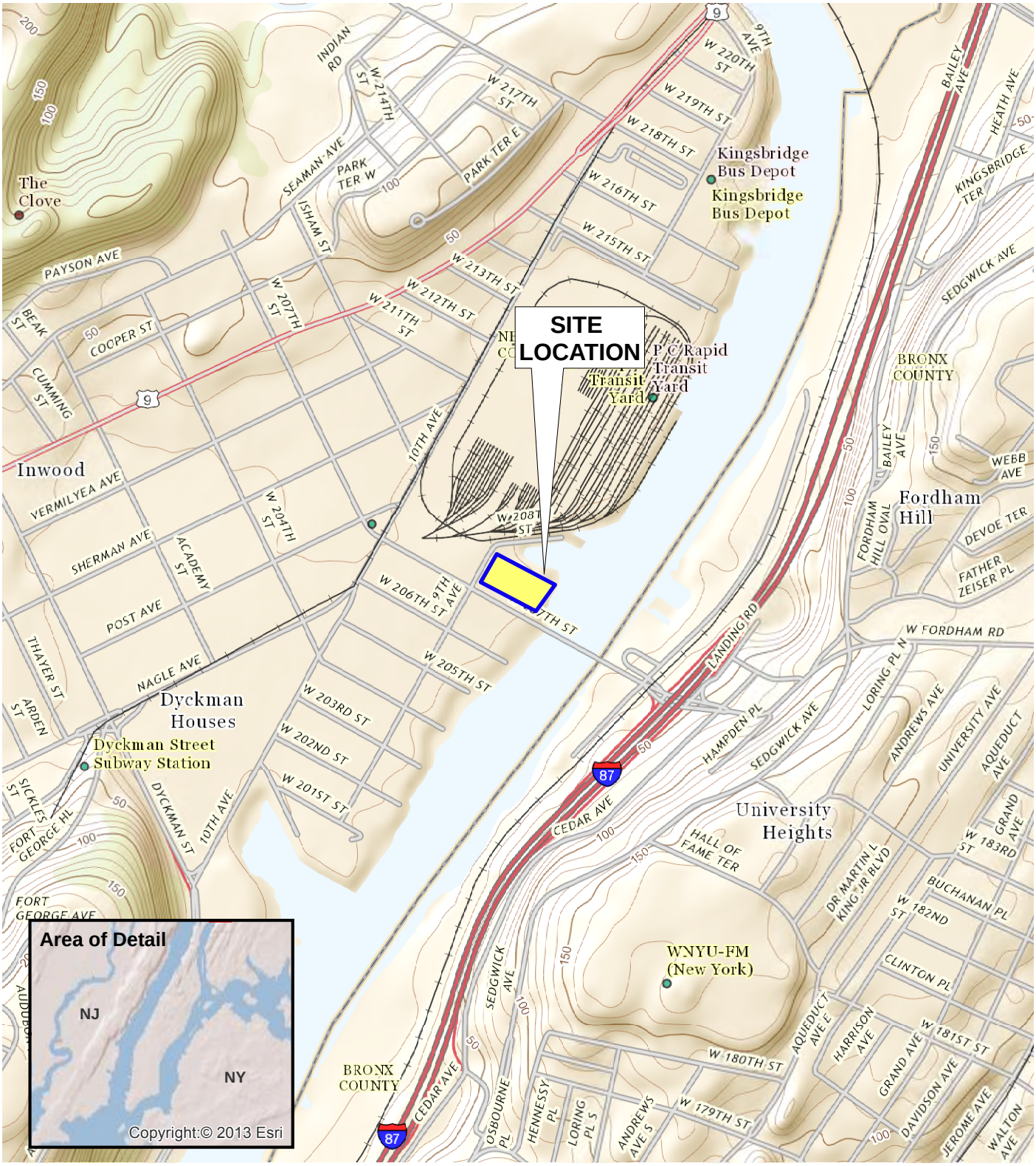
3875 Ninth Avenue
New York, New York

SAMPLING LOCATION PLAN

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE 10.2.2014
PROJECT No. 11995
SCALE as shown
FIGURE 2

©2014 AKRF, Inc. Environmental Consultants W:\Projects\11995 - SHERMAN CREEK (3875 9TH AVE)\Technical\Hazardous Materials\Figures\11995 - SHERMAN CREEK Fig 2.dwg



SOURCE
USGS 7.5 Minute Topographic Map
Central Park Quad 2011

0 1,000 2,000 Feet

3875 Ninth Avenue
New York, New York

PROPERTY LOCATION

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
9/3/2014

PROJECT No.
11995

FIGURE
1

©2014 AKRF, Inc. Environmental Consultants O:\Projects\11995 - SHERMAN CREEK (3875 9TH AVE)\Hazmat\11995 Fig 1 prop loc map.mxd

TABLES

Table 1
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	SB-1 (0-2') L1421852-06 9/18/2014 10/50 †	SB-1 (5-7') L1421852-04 9/18/2014 1	SB-2 (0-2') L1421852-01 9/18/2014 1	SB-2 (8-10') L1421852-02 9/18/2014 1	SB-3 (0-2') L1422008-01 9/19/2014 1	SB-3 (10-12') L1422008-08 9/19/2014 1	SB-4 (0-2') L1421852-05 9/18/2014 1
1,1,1,2-Tetrachloroethane	NS	NS	0.24 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00034 U	0.00035 U
1,1,1-Trichloroethane	0.68	100	0.084 U	0.00014 U	0.00014 U	0.00014 U	0.00014 U	0.00012 U	0.00012 U
1,1,2,2-Tetrachloroethane	NS	NS	0.076 U	0.00013 U	0.00012 U	0.00013 U	0.00013 U	0.00011 U	0.00011 U
1,1,2-Trichloroethane	NS	NS	0.23 U	0.00039 U	0.00038 U	0.00038 U	0.00039 U	0.00032 U	0.00034 U
1,1-Dichloroethane	0.27	26	0.065 U	0.00011 U	0.00011 U	0.00011 U	0.00011 U	0.00009 U	0.00009 U
1,1-Dichloroethene	0.33	100	0.2 U	0.00033 U	0.00033 U	0.00033 U	0.00033 U	0.00028 U	0.00029 U
1,1-Dichloropropene	NS	NS	0.11 U	0.00018 U	0.00018 U	0.00018 U	0.00018 U	0.00015 U	0.00016 U
1,2,3-Trichlorobenzene	NS	NS	0.11 U	0.00019 U	0.00018 U	0.00018 U	0.00019 U	0.00016 U	0.00016 U
1,2,3-Trichloropropane	NS	NS	0.12 U	0.00021 U	0.0002 U	0.0002 U	0.00021 U	0.00017 U	0.00018 U
1,2,4,5-Tetramethylbenzene	NS	NS	48	0.00017 U	0.00016 U	0.00016 U	0.00016 U	0.00014 U	0.00014 U
1,2,4-Trichlorobenzene	NS	NS	0.14 U	0.00023 U	0.00023 U	0.00023 U	0.00023 U	0.00019 U	0.0002 U
1,2,4-Trimethylbenzene	3.6	52	**300**	0.00018 U	0.00018 U	0.00018 U	0.00018 U	0.00015 U	0.00016 U
1,2-Dibromo-3-chloropropane	NS	NS	0.3 U	0.0005 U	0.00049 U	0.0005 U	0.0005 U	0.00042 U	0.00044 U
1,2-Dibromoethane	NS	NS	0.13 U	0.00022 U	0.00022 U	0.00022 U	0.00022 U	0.00019 U	0.00019 U
1,2-Dichlorobenzene	1.1	100	0.12 U	0.0002 U	0.00019 U	0.00019 U	0.0002 U	0.00016 U	0.00017 U
1,2-Dichloroethane	0.02	3.1	0.086 U	0.00014 U	0.00014 U	0.00014 U	0.00014 U	0.00012 U	0.00012 U
1,2-Dichloroethene (total)	NS	NS	2.5	0.00018 U	0.00018 U	0.00018 U	0.00018 U	0.00015 U	0.00016 U
1,2-Dichloropropane	NS	NS	0.17 U	0.00029 U	0.00028 U	0.00028 U	0.00029 U	0.00024 U	0.00025 U
1,3,5-Trimethylbenzene	8.4	52	**66**	0.00018 U	0.00018 U	0.00018 U	0.00018 U	0.00015 U	0.00016 U
1,3-Dichlorobenzene	2.4	49	0.1 U	0.00017 U	0.00017 U	0.00017 U	0.00017 U	0.00014 U	0.00015 U
1,3-Dichloropropane	NS	NS	0.11 U	0.00018 U	0.00018 U	0.00018 U	0.00018 U	0.00015 U	0.00016 U
1,3-Dichloropropene, Total	NS	NS	0.089 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00012 U	0.00013 U
1,4-Dichlorobenzene	1.8	13	0.1 U	0.00018 U	0.00017 U	0.00017 U	0.00018 U	0.00015 U	0.00015 U
1,4-Diethylbenzene	NS	NS	100	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00017 U	0.00018 U
1,4-Dioxane	0.1	13	11 U	0.018 U	0.018 U	0.018 U	0.018 U	0.015 U	0.016 U
2,2-Dichloropropane	NS	NS	0.17 U	0.00029 U	0.00028 U	0.00028 U	0.00029 U	0.00024 U	0.00025 U
2-Butanone	0.12	100	0.2 U	0.0078 J	0.0038 J	0.0036 J	0.00035 U	0.00029 U	0.0003 U
2-Hexanone	NS	NS	0.5 U	0.00085 U	0.00083 U	0.00083 U	0.00085 U	0.00071 U	0.00074 U
4-Ethyltoluene	NS	NS	100	0.00016 U	0.00015 U	0.00016 U	0.00016 U	0.00013 U	0.00014 U
4-Methyl-2-pentanone	NS	NS	0.18 U	0.00031 U	0.0003 U	0.0003 U	0.00031 U	0.00026 U	0.00027 U
Acetone	0.05	100	0.78 U	0.03	0.04	0.024	0.012 J	0.0091 J	0.0011 U
Acrylonitrile	NS	NS	0.39 U	0.00066 U	0.00064 U	0.00064 U	0.00065 U	0.00055 U	0.00057 U
Benzene	0.06	4.8	**2.3**	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00012 U	0.00013 U
Bromobenzene	NS	NS	0.16 U	0.00026 U	0.00026 U	0.00026 U	0.00026 U	0.00022 U	0.00023 U
Bromochloromethane	NS	NS	0.21 U	0.00035 U	0.00034 U	0.00034 U	0.00035 U	0.00029 U	0.0003 U
Bromodichloromethane	NS	NS	0.13 U	0.00022 U	0.00022 U	0.00022 U	0.00022 U	0.00018 U	0.00019 U
Bromoform	NS	NS	0.18 U	0.0003 U	0.00029 U	0.0003 U	0.0003 U	0.00025 U	0.00026 U
Bromomethane	NS	NS	0.26 U	0.00043 U	0.00042 U	0.00042 U	0.00043 U	0.00036 U	0.00037 U
Carbon disulfide	NS	NS	0.83 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0012 U	0.0012 U
Carbon tetrachloride	0.76	2.4	0.16 U	0.00027 U	0.00026 U	0.00026 U	0.00027 U	0.00022 U	0.00023 U
Chlorobenzene	1.1	100	0.26 U	0.00044 U	0.00043 U	0.00044 U	0.00044 U	0.00037 U	0.00038 U
Chloroethane	NS	NS	0.24 U	0.0004 U	0.00039 U	0.0004 U	0.0004 U	0.00034 U	0.00035 U
Chloroform	0.37	49	0.28 U	0.00047 U	0.00046 U	0.00046 U	0.00047 U	0.00039 U	0.00041 U
Chloromethane	NS	NS	0.22 U	0.00038 U	0.00037 U	0.00037 U	0.00037 U	0.00031 U	0.00032 U
cis-1,2-Dichloroethene	0.25	100	**2.5**	0.00018 U	0.00018 U	0.00018 U	0.00018 U	0.00015 U	0.00016 U
cis-1,3-Dichloropropene	NS	NS	0.089 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00012 U	0.00013 U
Dibromochloromethane	NS	NS	0.12 U	0.0002 U	0.00019 U	0.00019 U	0.0002 U	0.00016 U	0.00017 U
Dibromomethane	NS	NS	0.12 U	0.00021 U	0.0002 U	0.0002 U	0.00021 U	0.00017 U	0.00018 U
Dichlorodifluoromethane	NS	NS	0.14 U	0.00024 U	0.00024 U	0.00024 U	0.00024 U	0.0002 U	0.00021 U
Ethyl ether	NS	NS	1 J	0.00033 U	0.00032 U	0.00032 U	0.00033 U	0.00028 U	0.00029 U
Ethylbenzene	1	41	**28**	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00014 U	0.00014 U
Hexachlorobutadiene	NS	NS	0.17 U	0.00029 U	0.00028 U	0.00028 U	0.00029 U	0.00024 U	0.00025 U
Isopropylbenzene	NS	NS	9.5	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00011 U	0.00011 U
Methyl tert butyl ether	0.93	100	0.064 U	0.00074 J	0.0001 U	0.003	0.00011 U	0.00009 U	0.00009 U
Methylene chloride	0.05	100	**1.7** J	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0012 U	0.0012 U
Naphthalene	12	100	**49**	0.00018 U	0.00044 J	0.00017 U	0.00018 U	0.00015 U	0.00015 U
n-Butylbenzene	12	100	**21**	0.00015 U	0.00014 U	0.00014 U	0.00015 U	0.00012 U	0.00013 U
n-Propylbenzene	3.9	100	**33**	0.00014 U	0.00014 U	0.00014 U	0.00014 U	0.00012 U	0.00012 U
o-Chlorotoluene	NS	NS	0.12 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00017 U	0.00018 U
o-Xylene	0.26 ‡	100 ‡	**41**	0.00022 U	0.00021 U	0.00022 U	0.00022 U	0.00018 U	0.00019 U
p/m-Xylene	0.26 ‡	100 ‡	**110**	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00021 U	0.00022 U
p-Chlorotoluene	NS	NS	0.1 U	0.00017 U	0.00016 U	0.00017 U	0.00017 U	0.00014 U	0.00015 U
p-Isopropyltoluene	NS	NS	4.5	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00013 U	0.00014 U
sec-Butylbenzene	11	100	0.092 U	0.00016 U	0.00015 U	0.00015 U	0.00016 U	0.00013 U	0.00013 U
Styrene	NS	NS	0.3 U	0.00051 U	0.0005 U	0.0005 U	0.00051 U	0.00043 U	0.00044 U
tert-Butylbenzene	5.9	100	0.1 U	0.00017 U	0.00017 U	0.00017 U	0.00017 U	0.00014 U	0.00015 U
Tetrachloroethene	1.3	19	0.1 U	0.00018 U	0.00017 U	0.00018 U	0.0054	0.026	0.00015 U
Toluene	0.7	100	**12**	0.00025 U	0.00024 U	0.00024 U	0.00025 U	0.00021 U	0.00022 U
trans-1,2-Dichloroethene	0.19	100	0.16 U	0.00027 U	0.00026 U	0.00026 U	0.00027 U	0.00023 U	0.00023 U
trans-1,3-Dichloropropene	NS	NS	0.091 U	0.00015 U	0.00015 U	0.00015 U	0.00015 U	0.00013 U	0.00013 U
trans-1,4-Dichloro-2-butene	NS	NS	0.3 U	0.0005 U	0.00049 U	0.00049 U	0.0005 U	0.00042 U	0.00043 U
Trichloroethene	0.47	21	0.094 U	0.00016 U	0.00016 U	0.00016 U	0.0083	0.04	0.00014 U
Trichlorofluoromethane	NS	NS	0.29 U	0.00049 U	0.00048 U	0.00048 U	0.00049 U	0.00041 U	0.00043 U
Vinyl acetate	NS	NS	0.1 U	0.00017 U	0.00016 U	0.00016 U	0.00017 U	0.00014 U	0.00014 U
Vinyl chloride	0.02	0.9	**2.2**	0.00015 U	0.00096 J	0.00015 U	0.00015 U	0.00012 U	0.00013 U
Xylene (Total)	0.26	100	**150**	0.00022 U	0.00021 U	0.00022 U	0.00022 U	0.00018 U	0.00019 U

Notes: † = The Dilution factor for 1,2,4-Trimethylbenzene is 50.

‡ = The dilution factor for Total Xylenes is 0.26.

Table 1
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	SB-4 (8-10') L1421852-03 9/18/2014 1	SB-5 (0-2') L1422008-06 9/19/2014 1	SB-5 (11-13') L1422008-07 9/19/2014 1	SB-6 (0-2') L1422008-02 9/19/2014 1	SB-6 (10-12') L1422008-03 9/19/2014 1	SB-7 (0-2') L1422008-04 9/19/2014 1	SB-7 (9-11') L1422008-05 9/19/2014 1
1,1,1,2-Tetrachloroethane	NS	NS	0.00038 U	0.00068 U	0.00037 U	0.00035 U	0.00035 U	0.00041 U	0.00035 U
1,1,1-Trichloroethane	0.68	100	0.00013 U	0.00024 U	0.00013 U	0.00012 U	0.00012 U	0.00014 U	0.00012 U
1,1,2,2-Tetrachloroethane	NS	NS	0.00012 U	0.00022 U	0.00012 U	0.00011 U	0.00011 U	0.00013 U	0.00011 U
1,1,2-Trichloroethane	NS	NS	0.00037 U	0.00065 U	0.00035 U	0.00033 U	0.00033 U	0.0004 U	0.00034 U
1,1-Dichloroethane	0.27	26	0.0001 U	0.00018 U	0.0001 U	0.00009 U	0.00009 U	0.00011 U	0.0001 U
1,1-Dichloroethene	0.33	100	0.00032 U	0.00056 U	0.0003 U	0.00029 U	0.00029 U	0.00034 U	0.00029 U
1,1-Dichloropropene	NS	NS	0.00017 U	0.0003 U	0.00016 U	0.00016 U	0.00016 U	0.00018 U	0.00016 U
1,2,3-Trichlorobenzene	NS	NS	0.00018 U	0.00032 U	0.00017 U	0.00016 U	0.00016 U	0.00019 U	0.00016 U
1,2,3-Trichloropropane	NS	NS	0.0002 U	0.00035 U	0.00019 U	0.00018 U	0.00018 U	0.00021 U	0.00018 U
1,2,4,5-Tetramethylbenzene	NS	NS	0.00016 U	0.00028 U	0.00015 U	0.00014 U	0.00014 U	0.00017 U	0.00014 U
1,2,4-Trichlorobenzene	NS	NS	0.00022 U	0.00039 U	0.00021 U	0.0002 U	0.0002 U	0.00024 U	0.0002 U
1,2,4-Trimethylbenzene	3.6	52	0.00017 U	0.0003 U	0.00016 U	0.00016 U	0.00016 U	0.00018 U	0.00016 U
1,2-Dibromo-3-chloropropane	NS	NS	0.00048 U	0.00085 U	0.00046 U	0.00044 U	0.00044 U	0.00051 U	0.00044 U
1,2-Dibromoethane	NS	NS	0.00021 U	0.00037 U	0.0002 U	0.00019 U	0.00019 U	0.00023 U	0.00019 U
1,2-Dichlorobenzene	1.1	100	0.00018 U	0.00033 U	0.00018 U	0.00017 U	0.00017 U	0.0002 U	0.00017 U
1,2-Dichloroethane	0.02	3.1	0.00014 U	0.00024 U	0.00013 U	0.00012 U	0.00012 U	0.00015 U	0.00012 U
1,2-Dichloroethene (total)	NS	NS	0.00017 U	0.0003 U	0.00017 U	0.00016 U	0.00016 U	0.0032	0.00016 U
1,2-Dichloropropane	NS	NS	0.00027 U	0.00049 U	0.00026 U	0.00025 U	0.00025 U	0.0003 U	0.00025 U
1,3,5-Trimethylbenzene	8.4	52	0.00017 U	0.00031 U	0.00017 U	0.00016 U	0.00016 U	0.00019 U	0.00016 U
1,3-Dichlorobenzene	2.4	49	0.00016 U	0.00029 U	0.00016 U	0.00015 U	0.00015 U	0.00018 U	0.00015 U
1,3-Dichloropropane	NS	NS	0.00017 U	0.00031 U	0.00017 U	0.00016 U	0.00016 U	0.00019 U	0.00016 U
1,3-Dichloropropene, Total	NS	NS	0.00014 U	0.00025 U	0.00014 U	0.00013 U	0.00013 U	0.00015 U	0.00013 U
1,4-Dichlorobenzene	1.8	13	0.00017 U	0.0003 U	0.00016 U	0.00015 U	0.00015 U	0.00018 U	0.00015 U
1,4-Diethylbenzene	NS	NS	0.00019 U	0.00034 U	0.00019 U	0.00018 U	0.00018 U	0.00021 U	0.00018 U
1,4-Dioxane	0.1	13	0.017 U	0.031 U	0.017 U	0.016 U	0.016 U	0.019 U	0.016 U
2,2-Dichloropropane	NS	NS	0.00027 U	0.00048 U	0.00026 U	0.00025 U	0.00025 U	0.00029 U	0.00025 U
2-Butanone	0.12	100	0.00033 U	0.00058 U	0.00032 U	0.0003 U	0.0038 J	0.028	0.0003 U
2-Hexanone	NS	NS	0.0008 U	0.0014 U	0.00078 U	0.00073 U	0.00073 U	0.00086 U	0.00074 U
4-Ethyltoluene	NS	NS	0.00015 U	0.00026 U	0.00014 U	0.00014 U	0.00014 U	0.00016 U	0.00014 U
4-Methyl-2-pentanone	NS	NS	0.00029 U	0.00052 U	0.00028 U	0.00027 U	0.00027 U	0.00032 U	0.00027 U
Acetone	0.05	100	0.02	0.0022 U	0.0012 U	0.013	**0.053**	**0.17**	0.012
Acrylonitrile	NS	NS	0.00062 U	0.0011 U	0.0006 U	0.00056 U	0.00056 U	0.00067 U	0.00057 U
Benzene	0.06	4.8	0.00014 U	0.00025 U	0.00014 U	0.00013 U	0.00013 U	0.00015 U	0.00013 U
Bromobenzene	NS	NS	0.00025 U	0.00044 U	0.00024 U	0.00023 U	0.00023 U	0.00027 U	0.00023 U
Bromochloromethane	NS	NS	0.00033 U	0.00059 U	0.00032 U	0.0003 U	0.0003 U	0.00036 U	0.0003 U
Bromodichloromethane	NS	NS	0.00021 U	0.00037 U	0.0002 U	0.00019 U	0.00019 U	0.00022 U	0.00019 U
Bromoform	NS	NS	0.00028 U	0.0005 U	0.00028 U	0.00026 U	0.00026 U	0.00031 U	0.00026 U
Bromomethane	NS	NS	0.00041 U	0.00072 U	0.00039 U	0.00037 U	0.00037 U	0.00044 U	0.00037 U
Carbon disulfide	NS	NS	0.0013 U	0.0024 U	0.0013 U	0.0012 U	0.0012 U	0.0014 U	0.0012 U
Carbon tetrachloride	0.76	2.4	0.00025 U	0.00045 U	0.00024 U	0.00023 U	0.00023 U	0.00027 U	0.00023 U
Chlorobenzene	1.1	100	0.00042 U	0.00074 U	0.0004 U	0.00038 U	0.00038 U	0.00045 U	0.00038 U
Chloroethane	NS	NS	0.00038 U	0.00068 U	0.00037 U	0.00035 U	0.00035 U	0.00041 U	0.00035 U
Chloroform	0.37	49	0.00044 U	0.00079 U	0.00043 U	0.00041 U	0.00041 U	0.00048 U	0.00041 U
Chloromethane	NS	NS	0.00035 U	0.00063 U	0.00034 U	0.00032 U	0.00032 U	0.00038 U	0.00032 U
cis-1,2-Dichloroethene	0.25	100	0.00017 U	0.0003 U	0.00017 U	0.00016 U	0.00016 U	0.0032	0.00016 U
cis-1,3-Dichloropropene	NS	NS	0.00014 U	0.00025 U	0.00014 U	0.00013 U	0.00013 U	0.00015 U	0.00013 U
Dibromochloromethane	NS	NS	0.00018 U	0.00033 U	0.00018 U	0.00017 U	0.00017 U	0.0002 U	0.00017 U
Dibromomethane	NS	NS	0.0002 U	0.00035 U	0.00019 U	0.00018 U	0.00018 U	0.00021 U	0.00018 U
Dichlorodifluoromethane	NS	NS	0.00023 U	0.00041 U	0.00022 U	0.00021 U	0.00021 U	0.00025 U	0.00021 U
Ethyl ether	NS	NS	0.00031 U	0.00056 U	0.0003 U	0.00028 U	0.00028 U	0.00034 U	0.00029 U
Ethylbenzene	1	41	0.00015 U	0.00027 U	0.00015 U	0.00014 U	0.00014 U	0.00016 U	0.00014 U
Hexachlorobutadiene	NS	NS	0.00027 U	0.00049 U	0.00026 U	0.00025 U	0.00025 U	0.0003 U	0.00025 U
Isopropylbenzene	NS	NS	0.00012 U	0.00022 U	0.00012 U	0.00011 U	0.00011 U	0.00013 U	0.00011 U
Methyl tert butyl ether	0.93	100	0.0001 U	0.00018 U	0.0001 U	0.00009 U	0.00009 U	0.00011 U	0.00009 U
Methylene chloride	0.05	100	0.0013 U	0.0024 U	0.0013 U	0.0012 U	0.0012 U	0.0014 U	0.0012 U
Naphthalene	12	100	0.00017 U	0.0003 U	0.00016 U	0.00015 U	0.00015 U	0.00018 U	0.002 J
n-Butylbenzene	12	100	0.00014 U	0.00024 U	0.00013 U	0.00013 U	0.00013 U	0.00015 U	0.00013 U
n-Propylbenzene	3.9	100	0.00013 U	0.00023 U	0.00013 U	0.00012 U	0.00012 U	0.00014 U	0.00012 U
o-Chlorotoluene	NS	NS	0.00019 U	0.00034 U	0.00019 U	0.00018 U	0.00018 U	0.00021 U	0.00018 U
o-Xylene	0.26 ‡	100 ‡	0.00021 U	0.00037 U	0.0002 U	0.00019 U	0.00019 U	0.00022 U	0.00019 U
p/m-Xylene	0.26 ‡	100 ‡	0.00024 U	0.00042 U	0.00023 U	0.00022 U	0.00022 U	0.00026 U	0.00022 U
p-Chlorotoluene	NS	NS	0.00016 U	0.00028 U	0.00015 U	0.00014 U	0.00015 U	0.00017 U	0.00015 U
p-Isopropyltoluene	NS	NS	0.00015 U	0.00027 U	0.00014 U	0.00014 U	0.00014 U	0.00016 U	0.00014 U
sec-Butylbenzene	11	100	0.00015 U	0.00026 U	0.00014 U	0.00013 U	0.00013 U	0.00016 U	0.00013 U
Styrene	NS	NS	0.00048 U	0.00086 U	0.00047 U	0.00044 U	0.00044 U	0.00052 U	0.00044 U
tert-Butylbenzene	5.9	100	0.00016 U	0.00029 U	0.00016 U	0.00015 U	0.00015 U	0.00018 U	0.00015 U
Tetrachloroethene	1.3	19	0.00017 U	0.0003 U	0.00016 U	0.00015 U	0.00015 U	0.00018 U	0.00016 U
Toluene	0.7	100	0.00023 U	0.00042 U	0.00023 U	0.00021 U	0.00021 U	0.00025 U	0.00022 U
trans-1,2-Dichloroethene	0.19	100	0.00026 U	0.00045 U	0.00025 U	0.00023 U	0.00023 U	0.00028 U	0.00023 U
trans-1,3-Dichloropropene	NS	NS	0.00014 U	0.00026 U	0.00014 U	0.00013 U	0.00013 U	0.00016 U	0.00013 U
trans-1,4-Dichloro-2-butene	NS	NS	0.00047 U	0.00084 U	0.00046 U	0.00043 U	0.00043 U	0.00051 U	0.00043 U
Trichloroethene	0.47	21	0.00015 U	0.00027 U	0.00014 U	0.0013	0.00014 U	0.0012 J	0.00014 U
Trichlorofluoromethane	NS	NS	0.00047 U	0.00083 U	0.00045 U	0.00043 U	0.00043 U	0.0005 U	0.00043 U
Vinyl acetate	NS	NS	0.00016 U	0.00028 U	0.00015 U	0.00014 U	0.00014 U	0.00017 U	0.00015 U
Vinyl chloride	0.02	0.9	0.00014 U	0.00025 U	0.00014 U	0.00013 U	0.00013 U	0.00015 U	0.00013 U
Xylene (Total)	0.26	100	0.00021 U	0.00037 U	0.0002 U	0.00019 U	0.00019 U	0.00022 U	0.00019 U

Notes: † = The Dilution factor for 1,2,4-Trimethylbenzene is 50.

‡ = The dilution factor for Total Xylenes is 0.26.

Table 2
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Semivolatile Organic Compounds

Client ID	NYSDEC	NYSDEC	SB-1 (0-2')	SB-1 (5-7')	SB-2 (0-2')	SB-2 (8-10')	SB-3 (0-2')	SB-3 (10-12')	SB-4 (0-2')
Lab Sample ID	Part 375	Part 375	L1421852-06	L1421852-04	L1421852-01	L1421852-02	L1422008-01	L1422008-08	L1421852-05
Date Sampled	Unrestricted	Restricted	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/19/2014	9/19/2014	9/18/2014
Dilution	SCO	Residential SCO	1	1	1	1	1	1	1
mg/kg	mg/kg	mg/kg							
1,2,4,5-Tetrachlorobenzene	NS	NS	0.055 U	0.058 U	0.057 U	0.067 U	0.059 U	0.059 U	0.056 U
1,2,4-Trichlorobenzene	NS	NS	0.058 U	0.061 U	0.06 U	0.07 U	0.062 U	0.062 U	0.059 U
1,2-Dichlorobenzene	1.1	100	0.058 U	0.061 U	0.06 U	0.07 U	0.062 U	0.062 U	0.059 U
1,3-Dichlorobenzene	2.4	49	0.056 U	0.059 U	0.058 U	0.068 U	0.06 U	0.06 U	0.057 U
1,4-Dichlorobenzene	1.8	13	0.054 U	0.057 U	0.056 U	0.065 U	0.058 U	0.058 U	0.055 U
2,4,5-Trichlorophenol	NS	NS	0.058 U	0.061 U	0.059 U	0.07 U	0.062 U	0.062 U	0.059 U
2,4,6-Trichlorophenol	NS	NS	0.034 U	0.035 U	0.034 U	0.04 U	0.036 U	0.036 U	0.034 U
2,4-Dichlorophenol	NS	NS	0.058 U	0.061 U	0.059 U	0.07 U	0.062 U	0.062 U	0.059 U
2,4-Dimethylphenol	NS	NS	0.053 U	0.056 U	0.054 U	0.064 U	0.057 U	0.057 U	0.054 U
2,4-Dinitrophenol	NS	NS	0.24 U	0.26 U	0.25 U	0.29 U	0.26 U	0.26 U	0.25 U
2,4-Dinitrotoluene	NS	NS	0.038 U	0.04 U	0.039 U	0.046 U	0.041 U	0.041 U	0.039 U
2,6-Dinitrotoluene	NS	NS	0.046 U	0.048 U	0.047 U	0.055 U	0.049 U	0.049 U	0.046 U
2-Chloronaphthalene	NS	NS	0.058 U	0.061 U	0.06 U	0.07 U	0.062 U	0.062 U	0.059 U
2-Chlorophenol	NS	NS	0.054 U	0.056 U	0.055 U	0.065 U	0.057 U	0.058 U	0.055 U
2-Methylnaphthalene	NS	NS	5.1	0.06 U	0.069 J	0.069 U	0.061 U	0.061 U	0.058 U
2-Methylphenol	0.33	100	0.057 U	0.06 U	0.059 U	0.069 U	0.061 U	0.061 U	0.058 U
2-Nitroaniline	NS	NS	0.05 U	0.053 U	0.052 U	0.061 U	0.054 U	0.054 U	0.051 U
2-Nitrophenol	NS	NS	0.056 U	0.058 U	0.057 U	0.067 U	0.059 U	0.059 U	0.056 U
3,3'-Dichlorobenzidine	NS	NS	0.047 U	0.05 U	0.049 U	0.057 U	0.05 U	0.051 U	0.048 U
3-Methylphenol/4-Methylphenol	0.33	100	0.058 U	0.061 U	0.06 U	0.07 U	0.062 U	0.062 U	0.059 U
3-Nitroaniline	NS	NS	0.049 U	0.052 U	0.05 U	0.059 U	0.052 U	0.052 U	0.05 U
4,6-Dinitro-o-cresol	NS	NS	0.065 U	0.068 U	0.067 U	0.079 U	0.07 U	0.07 U	0.066 U
4-Bromophenyl phenyl ether	NS	NS	0.041 U	0.043 U	0.042 U	0.049 U	0.044 U	0.044 U	0.042 U
4-Chloroaniline	NS	NS	0.047 U	0.049 U	0.048 U	0.057 U	0.05 U	0.05 U	0.048 U
4-Chlorophenyl phenyl ether	NS	NS	0.054 U	0.057 U	0.056 U	0.065 U	0.058 U	0.058 U	0.055 U
4-Nitroaniline	NS	NS	0.048 U	0.05 U	0.049 U	0.058 U	0.051 U	0.051 U	0.049 U
4-Nitrophenol	NS	NS	0.058 U	0.061 U	0.059 U	0.07 U	0.062 U	0.062 U	0.059 U
Acenaphthene	20	100	0.18	0.038 U	0.052 J	0.044 U	0.039 U	0.039 U	0.037 U
Acenaphthylene	100	100	0.26	0.035 U	0.59	0.04 U	0.22	0.036 U	0.034 U
Acetophenone	NS	NS	0.055 U	0.058 U	0.057 U	0.067 U	0.059 U	0.059 U	0.056 U
Anthracene	100	100	0.49	0.031 U	0.46	0.036 U	0.18	0.032 U	0.03 U
Benzo(a)anthracene	1	1	0.66	0.037 U	0.95	0.042 U	0.87	0.048 J	0.049 J
Benzo(a)pyrene	1	1	0.044 U	0.046 U	**1.1**	0.053 U	0.96	0.047 U	0.046 J
Benzo(b)fluoranthene	1	1	0.9	0.038 U	**1.5**	0.043 U	**1.2**	0.052 J	0.063 J
Benzo(ghi)perylene	100	100	0.8	0.039 U	0.88	0.045 U	0.68	0.04 U	0.038 U
Benzo(k)fluoranthene	0.8	3.9	0.75	0.036 U	0.6	0.041 U	0.44	0.036 U	0.034 U
Benzoic Acid	NS	NS	0.18 U	0.19 U	0.18 U	0.3 J	0.19 U	0.19 U	0.18 U
Benzyl Alcohol	NS	NS	0.055 U	0.058 U	0.056 U	0.066 U	0.058 U	0.059 U	0.056 U
Biphenyl	NS	NS	0.21 J	0.062 U	0.06 U	0.071 U	0.063 U	0.063 U	0.06 U
Bis(2-chloroethoxy)methane	NS	NS	0.054 U	0.057 U	0.055 U	0.065 U	0.058 U	0.058 U	0.055 U
Bis(2-chloroethyl)ether	NS	NS	0.05 U	0.052 U	0.051 U	0.06 U	0.053 U	0.053 U	0.051 U
Bis(2-chloroisopropyl)ether	NS	NS	0.063 U	0.066 U	0.064 U	0.076 U	0.067 U	0.067 U	0.064 U
Bis(2-Ethylhexyl)phthalate	NS	NS	11	0.049 U	0.17 J	0.056 U	0.098 J	0.17 J	0.047 U
Butyl benzyl phthalate	NS	NS	0.035 U	0.036 U	0.036 U	0.042 U	0.037 U	0.037 U	0.035 U
Carbazole	NS	NS	0.18	0.04 U	0.088 J	0.046 U	0.057 J	0.041 U	0.039 U
Chrysene	1	3.9	0.95	0.037 U	**1.1**	0.042 U	0.9	0.043 J	0.053 J
Dibenzo(a,h)anthracene	0.33	0.33	0.18	0.036 U	0.21	0.042 U	0.1 J	0.037 U	0.035 U
Dibenzofuran	7	59	0.22	0.062 U	0.061 U	0.072 U	0.063 U	0.064 U	0.06 U
Diethyl phthalate	NS	NS	0.038 U	0.04 U	0.039 U	0.045 U	0.04 U	0.04 U	0.038 U
Dimethyl phthalate	NS	NS	0.045 U	0.048 U	0.046 U	0.055 U	0.048 U	0.048 U	0.046 U
Di-n-butylphthalate	NS	NS	0.034 U	0.036 U	0.035 U	0.042 U	0.037 U	0.037 U	0.035 U
Di-n-octylphthalate	NS	NS	0.044 U	0.046 U	0.045 U	0.053 U	0.047 U	0.047 U	0.044 U
Fluoranthene	100	100	1.5	0.034 U	1.2	0.039 U	1.8	0.083 J	0.083 J
Fluorene	30	100	0.39	0.054 U	0.092 J	0.062 U	0.054 U	0.055 U	0.052 U
Hexachlorobenzene	0.33	1.2	0.033 U	0.035 U	0.034 U	0.04 U	0.035 U	0.036 U	0.034 U
Hexachlorobutadiene	NS	NS	0.05 U	0.053 U	0.052 U	0.061 U	0.054 U	0.054 U	0.051 U
Hexachlorocyclopentadiene	NS	NS	0.11 U	0.12 U	0.12 U	0.14 U	0.12 U	0.12 U	0.12 U
Hexachloroethane	NS	NS	0.032 U	0.034 U	0.033 U	0.039 U	0.034 U	0.035 U	0.033 U
Indeno(1,2,3-cd)Pyrene	0.5	0.5	**0.75**	0.042 U	**0.95**	0.048 U	**0.68**	0.042 U	0.04 U
Isophorone	NS	NS	0.047 U	0.05 U	0.049 U	0.057 U	0.05 U	0.051 U	0.048 U
Naphthalene	12	100	4.3	0.062 U	0.13 J	0.071 U	0.063 U	0.063 U	0.06 U
Nitrobenzene	NS	NS	0.042 U	0.044 U	0.044 U	0.051 U	0.045 U	0.045 U	0.043 U
NitrosoDiPhenylAmine(NDPA)/DPA	NS	NS	0.037 U	0.039 U	0.038 U	0.045 U	0.04 U	0.04 U	0.038 U
n-Nitrosodi-n-propylamine	NS	NS	0.053 U	0.056 U	0.054 U	0.064 U	0.057 U	0.057 U	0.054 U
P-Chloro-M-Cresol	NS	NS	0.052 U	0.054 U	0.053 U	0.062 U	0.055 U	0.055 U	0.052 U
Pentachlorophenol	0.8	6.7	0.038 U	0.04 U	0.039 U	0.046 U	0.041 U	0.041 U	0.039 U
Phenanthrene	100	100	1.8	0.037 U	0.54	0.042 U	0.54	0.059 J	0.035 U
Phenol	0.33	100	0.053 U	0.055 U	0.054 U	0.064 U	0.056 U	0.056 U	0.054 U
Pyrene	100	100	1.8	0.036 U	1.3	0.042 U	1.6	0.074 J	0.07 J

Note: † = Dilution factor varies.

Table 2
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Semivolatile Organic Compounds

Client ID	NYSDEC	NYSDEC	SB-4 (8-10')	SB-5 (0-2')	SB-5 (11-13')	SB-6 (0-2')	SB-6 (10-12')	SB-7 (0-2')	SB-7 (9-11')
Lab Sample ID	Part 375	Part 375	L1421852-03	L1422008-06	L1422008-07	L1422008-02	L1422008-03	L1422008-04	L1422008-05
Date Sampled	Unrestricted	Restricted	9/18/2014	9/19/2014	9/19/2014	9/19/2014	9/19/2014	9/19/2014	9/19/2014
Dilution	SCO	Residential SCO	1	1	1	1	1	1	1/2 †
mg/kg	mg/kg	mg/kg							
1,2,4,5-Tetrachlorobenzene	NS	NS	0.054 U	0.056 U	0.063 U	0.059 U	0.06 U	0.06 U	0.06 U
1,2,4-Trichlorobenzene	NS	NS	0.058 U	0.19	0.066 U	0.062 U	0.063 U	0.063 U	0.064 U
1,2-Dichlorobenzene	1.1	100	0.058 U	0.21	0.066 U	0.062 U	0.063 U	0.063 U	0.064 U
1,3-Dichlorobenzene	2.4	49	0.055 U	0.22	0.064 U	0.06 U	0.061 U	0.061 U	0.061 U
1,4-Dichlorobenzene	1.8	13	0.053 U	0.14 J	0.062 U	0.058 U	0.058 U	0.058 U	0.059 U
2,4,5-Trichlorophenol	NS	NS	0.057 U	0.059 U	0.066 U	0.061 U	0.062 U	0.062 U	0.063 U
2,4,6-Trichlorophenol	NS	NS	0.033 U	0.034 U	0.038 U	0.036 U	0.036 U	0.036 U	0.037 U
2,4-Dichlorophenol	NS	NS	0.057 U	0.059 U	0.066 U	0.061 U	0.062 U	0.062 U	0.063 U
2,4-Dimethylphenol	NS	NS	0.052 U	0.054 U	0.06 U	0.056 U	0.057 U	0.057 U	0.058 U
2,4-Dinitrophenol	NS	NS	0.24 U	0.25 U	0.28 U	0.26 U	0.26 U	0.26 U	0.27 U
2,4-Dinitrotoluene	NS	NS	0.038 U	0.039 U	0.044 U	0.041 U	0.042 U	0.042 U	0.042 U
2,6-Dinitrotoluene	NS	NS	0.045 U	0.047 U	0.052 U	0.048 U	0.049 U	0.049 U	0.05 U
2-Chloronaphthalene	NS	NS	0.057 U	0.074 J	0.066 U	0.062 U	0.063 U	0.063 U	0.064 U
2-Chlorophenol	NS	NS	0.053 U	0.055 U	0.061 U	0.057 U	0.058 U	0.058 U	0.059 U
2-Methylnaphthalene	NS	NS	0.056 U	0.11 J	0.065 U	0.06 U	0.061 U	0.085 J	0.27
2-Methylphenol	0.33	100	0.057 U	0.059 U	0.065 U	0.061 U	0.062 U	0.062 U	0.063 U
2-Nitroaniline	NS	NS	0.05 U	0.051 U	0.057 U	0.053 U	0.054 U	0.054 U	0.055 U
2-Nitrophenol	NS	NS	0.055 U	0.057 U	0.063 U	0.059 U	0.06 U	0.06 U	0.061 U
3,3'-Dichlorobenzidine	NS	NS	0.047 U	0.048 U	0.054 U	0.05 U	0.051 U	0.051 U	0.052 U
3-Methylphenol/4-Methylphenol	0.33	100	0.058 U	0.06 U	0.066 U	0.062 U	0.063 U	0.1 J	0.064 U
3-Nitroaniline	NS	NS	0.048 U	0.05 U	0.056 U	0.052 U	0.053 U	0.053 U	0.054 U
4,6-Dinitro-o-cresol	NS	NS	0.064 U	0.067 U	0.074 U	0.069 U	0.07 U	0.07 U	0.071 U
4-Bromophenyl phenyl ether	NS	NS	0.04 U	0.042 U	0.046 U	0.044 U	0.044 U	0.044 U	0.045 U
4-Chloroaniline	NS	NS	0.046 U	0.048 U	0.053 U	0.05 U	0.051 U	0.051 U	0.051 U
4-Chlorophenyl phenyl ether	NS	NS	0.053 U	0.055 U	0.062 U	0.058 U	0.058 U	0.059 U	0.059 U
4-Nitroaniline	NS	NS	0.047 U	0.049 U	0.055 U	0.051 U	0.052 U	0.052 U	0.053 U
4-Nitrophenol	NS	NS	0.057 U	0.059 U	0.066 U	0.061 U	0.062 U	0.062 U	0.063 U
Acenaphthene	20	100	0.036 U	0.038 U	0.042 U	0.039 U	0.04 U	0.04 U	0.8
Acenaphthylene	100	100	0.033 U	0.15	0.038 U	0.035 U	0.036 U	0.16	0.16
Acetophenone	NS	NS	0.054 U	0.067 J	0.063 U	0.059 U	0.06 U	0.06 U	0.06 U
Anthracene	100	100	0.029 U	0.1 J	0.034 U	0.031 U	0.032 U	0.14	1.6
Benzo(a)anthracene	1	1	0.034 U	0.21	0.04 U	0.078 J	0.038 U	0.38	**2.8**
Benzo(a)pyrene	1	1	0.043 U	0.19	0.05 U	0.079 J	0.047 U	0.4	**2.6**
Benzo(b)fluoranthene	1	1	0.036 U	0.3	0.041 U	0.12	0.039 U	0.52	**3.1**
Benzo(ghi)perylene	100	100	0.036 U	0.18	0.042 U	0.067 J	0.04 U	0.36	1.7
Benzo(k)fluoranthene	0.8	3.9	0.034 U	0.1 J	0.039 U	0.036 J	0.037 U	0.22	**1.3**
Benzoic Acid	NS	NS	0.18 U	0.18 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U
Benzyl Alcohol	NS	NS	0.054 U	0.056 U	0.062 U	0.058 U	0.059 U	0.059 U	0.06 U
Biphenyl	NS	NS	0.058 U	0.06 U	0.067 U	0.062 U	0.063 U	0.064 U	0.11 J
Bis(2-chloroethoxy)methane	NS	NS	0.053 U	0.055 U	0.061 U	0.057 U	0.058 U	0.058 U	0.059 U
Bis(2-chloroethyl)ether	NS	NS	0.049 U	0.051 U	0.057 U	0.053 U	0.054 U	0.054 U	0.055 U
Bis(2-chloroisopropyl)ether	NS	NS	0.062 U	0.064 U	0.071 U	0.067 U	0.068 U	0.068 U	0.069 U
Bis(2-Ethylhexyl)phthalate	NS	NS	0.046 U	0.048 U	0.053 U	0.05 U	0.05 U	0.05 U	0.15 J
Butyl benzyl phthalate	NS	NS	0.034 U	0.036 U	0.04 U	0.037 U	0.038 U	0.038 U	0.038 U
Carbazole	NS	NS	0.038 U	0.039 U	0.044 U	0.041 U	0.041 U	0.045 J	0.81
Chrysene	1	3.9	0.034 U	0.25	0.04 U	0.086 J	0.038 U	0.42	**2.8**
Dibenzo(a,h)anthracene	0.33	0.33	0.034 U	0.035 U	0.039 U	0.037 U	0.037 U	0.069 J	**0.36**
Dibenzofuran	7	59	0.059 U	0.061 U	0.068 U	0.063 U	0.064 U	0.064 U	0.7
Diethyl phthalate	NS	NS	0.037 U	0.038 U	0.043 U	0.04 U	0.041 U	0.041 U	0.041 U
Dimethyl phthalate	NS	NS	0.045 U	0.046 U	0.051 U	0.048 U	0.049 U	0.049 U	0.05 U
Di-n-butylphthalate	NS	NS	0.034 U	0.036 J	0.039 U	0.036 U	0.037 U	0.3	0.038 U
Di-n-octylphthalate	NS	NS	0.043 U	0.045 U	0.05 U	0.046 U	0.047 U	0.047 U	0.048 U
Fluoranthene	100	100	0.032 U	0.45	0.037 U	0.12	0.035 U	0.64	7.6
Fluorene	30	100	0.05 U	0.052 U	0.058 U	0.054 U	0.055 U	0.055 U	0.98
Hexachlorobenzene	0.33	1.2	0.033 U	0.034 U	0.038 U	0.035 U	0.036 U	0.036 U	0.036 U
Hexachlorobutadiene	NS	NS	0.05 U	0.051 U	0.057 U	0.053 U	0.054 U	0.054 U	0.055 U
Hexachlorocyclopentadiene	NS	NS	0.11 U	0.12 U	0.13 U	0.12 U	0.12 U	0.12 U	0.12 U
Hexachloroethane	NS	NS	0.032 U	0.033 U	0.037 U	0.034 U	0.035 U	0.035 U	0.035 U
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.039 U	0.18	0.045 U	0.062 J	0.043 U	0.34	**1.9**
Isophorone	NS	NS	0.047 U	0.048 U	0.054 U	0.05 U	0.051 U	0.051 U	0.052 U
Naphthalene	12	100	0.058 U	0.23	0.067 U	0.063 U	0.064 U	0.084 J	0.77
Nitrobenzene	NS	NS	0.042 U	0.043 U	0.048 U	0.045 U	0.046 U	0.046 U	0.046 U
NitrosoDiPhenylAmine(NDPA)/DPA	NS	NS	0.037 U	0.038 U	0.042 U	0.04 U	0.04 U	0.04 U	0.041 U
n-Nitrosodi-n-propylamine	NS	NS	0.052 U	0.054 U	0.06 U	0.056 U	0.057 U	0.057 U	0.058 U
P-Chloro-M-Cresol	NS	NS	0.051 U	0.053 U	0.059 U	0.055 U	0.056 U	0.056 U	0.056 U
Pentachlorophenol	0.8	6.7	0.038 U	0.039 U	0.043 U	0.04 U	0.041 U	0.041 U	0.042 U
Phenanthrene	100	100	0.034 U	0.22	0.04 U	0.061 J	0.038 U	0.22	7.2
Phenol	0.33	100	0.052 U	0.054 U	0.06 U	0.056 U	0.057 U	0.057 U	0.058 U
Pyrene	100	100	0.034 U	0.37	0.039 U	0.12	0.037 U	0.57	7

Note: † = Dilution factor varies.

Table 3
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Metals

Client ID Lab Sample ID Date Sampled Dilution mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	SB-1 (0-2') L1421852-06 9/18/2014 2/10/1/20 † 	SB-1 (5-7') L1421852-04 9/18/2014 2/1/10 † 	SB-2 (0-2') L1421852-01 9/18/2014 2/1/10 † 	SB-2 (8-10') L1421852-02 9/18/2014 2/1/10 † 	SB-3 (0-2') L1422008-01 9/19/2014 2/1 † 	SB-3 (10-12') L1422008-08 9/19/2014 2/1 † 	SB-4 (0-2') L1421852-05 9/18/2014 2/1/10 †
Aluminum	**NS**	**NS**	10,000	21,000	11,000	9,000	10,000	12,000	18,000
Antimony	**NS**	**NS**	16	0.72 U	2.3 J	0.8 U	0.73 J	0.72 U	0.67 U
Arsenic	**13**	**16**	**23**	2	4.8	3.6	7.3	7.1	2.9
Barium	**350**	**400**	**1,100**	210	**610**	31	110	71	240
Beryllium	**7.2**	**72**	0.46	0.24 J	0.66	0.35 J	0.4 J	0.48	0.08 U
Cadmium	**2.5**	**4.3**	**32**	0.06 U	0.06 U	0.07 U	0.19 J	0.06 U	0.06 U
Calcium	**NS**	**NS**	14,000	15,000	16,000	2,000	16,000	3,500	5,700
Chromium	**30**	**180**	**100**	**81**	30	18	16	18	**53**
Cobalt	**NS**	**NS**	9.8	16	6.8	4.2	5	7.6	14
Copper	**50**	**270**	**860**	**75**	**110**	42	23	17	47
Iron	**NS**	**NS**	71,000	31,000	44,000	23,000	16,000	17,000	33,000
Lead	**63**	**400**	**2,200**	7.1	**150**	43	**66**	16	17
Magnesium	**NS**	**NS**	3,300	18,000	9,200	2,700	3,100	4,000	10,000
Manganese	**1600**	**2,000**	540	210	650	170	220	470	560
Mercury	**0.18**	**0.81**	**0.19**	0.02 U	0.076 J	0.04 J	**0.2**	0.09	0.05 J
Nickel	**30**	**310**	**180**	**52**	17	12	12	13	30
Potassium	**NS**	**NS**	1,100	2,900	2,900	1,300	880	800	6,600
Selenium	**3.9**	**180**	**4.1**	1.4 J	1.6 J	0.64 J	0.62 J	0.27 U	1.4 J
Silver	**2**	**180**	1.2	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U
Sodium	**NS**	**NS**	790	2,700	220	210	340	140 J	570
Thallium	**NS**	**NS**	0.32 U	0.36 U	0.36 U	0.4 U	0.36 U	0.36 U	0.34 U
Vanadium	**NS**	**NS**	61	110	26	22	21	22	54
Zinc	**109**	**10,000**	**3,600**	88	**970**	77	97	50	67

Note: † = Dilution factor varies.

Table 3
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Metals

Client ID Lab Sample ID Date Sampled Dilution mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	SB-4 (8-10') L1421852-03 9/18/2014 2/1/10 †	SB-5 (0-2') L1422008-06 9/19/2014 2/1†	SB-5 (11-13') L1422008-07 9/19/2014 2/1 †	SB-6 (0-2') L1422008-02 9/19/2014 2/1 †	SB-6 (10-12') L1422008-03 9/19/2014 2/1 †	SB-7 (0-2') L1422008-04 9/19/2014 2/1 †	SB-7 (9-11') L1422008-05 9/19/2014 2/1 †
Aluminum	**NS**	**NS**	18,000	2,600	5,600	9,400	6,700	8,000	16,000
Antimony	**NS**	**NS**	0.69 U	2.4 J	0.76 U	3.1 J	0.74 U	4.2 J	0.73 U
Arsenic	**13**	**16**	1.5	5.7	3.5	7.8	5	**14**	6.7
Barium	**350**	**400**	230	110	29	250	14	200	130
Beryllium	**7.2**	**72**	0.09 U	0.17 J	0.28 J	0.3 J	0.36 J	0.25 J	0.24 J
Cadmium	**2.5**	**4.3**	0.06 U	**14**	0.07 U	0.94	0.06 U	**4**	0.06 J
Calcium	**NS**	**NS**	5,900	13,000	1,000	2,000	860	10,000	4,400
Chromium	**30**	**180**	**54**	8	9	18	11	21	**44**
Cobalt	**NS**	**NS**	15	4.6	2.8	6	4.7	6.9	11
Copper	**50**	**270**	**53**	**66**	5.8	47	9.9	**120**	**61**
Iron	**NS**	**NS**	28,000	9,200	9,800	16,000	14,000	23,000	23,000
Lead	**63**	**400**	4.3	**270**	2.1 J	**380**	2.3 J	**1,100**	36
Magnesium	**NS**	**NS**	11,000	2,100	1,700	2,700	2,200	8,000	6,100
Manganese	**1600**	**2,000**	790	120	74	150	420	280	270
Mercury	**0.18**	**0.81**	0.01 U	**0.4**	0.02 U	0.12	0.02 U	**0.74**	0.11
Nickel	**30**	**310**	**32**	19	8.9	15	10	27	23
Potassium	**NS**	**NS**	6,700	340	410	850	610	900	6,100
Selenium	**3.9**	**180**	0.77 J	0.26 U	0.29 U	0.68 J	0.28 U	0.28 U	0.53 J
Silver	**2**	**180**	0.17 U	0.17 U	0.19 U	0.17 U	0.18 U	0.19 J	0.18 U
Sodium	**NS**	**NS**	280	180	180 J	130 J	77 J	240	1,700
Thallium	**NS**	**NS**	0.34 U	0.34 U	0.38 U	0.35 U	0.37 U	0.37 U	0.36 U
Vanadium	**NS**	**NS**	57	20	12	25	17	40	39
Zinc	**109**	**10,000**	78	**320**	21	**260**	23	**1,200**	**110**

Note: † = Dilution factor varies.

Table 4
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Polychlorinated Biphenyls & Pesticides

Client ID Lab Sample ID Date Sampled Dilution Polychlorinated Biphenyls - mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	SB-1 (0-2') L1421852-06 9/18/2014 1	SB-1 (5-7') L1421852-04 9/18/2014 1	SB-2 (0-2') L1421852-01 9/18/2014 1	SB-2 (8-10') L1421852-02 9/18/2014 1	SB-3 (0-2') L1422008-01 9/19/2014 1	SB-3 (10-12') L1422008-08 9/19/2014 1	SB-4 (0-2') L1421852-05 9/18/2014 1
Aroclor 1016	**NS**	**NS**	0.00274 U	0.00288 U	0.00292 U	0.00325 U	0.00299 U	0.00297 U	0.00277 U
Aroclor 1221	**NS**	**NS**	0.0032 U	0.00336 U	0.00341 U	0.00379 U	0.00349 U	0.00347 U	0.00323 U
Aroclor 1232	**NS**	**NS**	0.00407 U	0.00428 U	0.00434 U	0.00482 U	0.00444 U	0.00441 U	0.00411 U
Aroclor 1242	**NS**	**NS**	**0.521**	0.00447 U	0.00453 U	0.00503 U	0.00463 U	0.0046 U	0.00429 U
Aroclor 1248	**NS**	**NS**	0.00293 U	0.00308 U	0.00312 U	0.00347 U	0.00319 U	0.00317 U	0.00296 U
Aroclor 1254	**NS**	**NS**	**0.479**	0.00908 J	0.0653	0.00338 U	0.00311 U	0.00309 U	0.00288 U
Aroclor 1260	**NS**	**NS**	**0.563**	0.00278 U	0.031 J	0.00313 U	0.0159 J	0.00286 U	0.00267 U
Aroclor 1262	**NS**	**NS**	0.00172 U	0.00181 U	0.00184 U	0.00204 U	0.00188 U	0.00186 U	0.00174 U
Aroclor 1268	**NS**	**NS**	0.00503 U	0.00529 U	0.00537 U	0.00596 U	0.00549 U	0.00545 U	0.00508 U
PCBs, Total	**0.1**	**1**	**1.56**	0.00908 J	0.0963 J	ND	0.0159 J	ND	ND

Pesticides - mg/kg

Dilution			1	1	1	1	1	1	1
4,4'-DDD	**0.0033**	**13**	0.000594 U	0.000622 U	**0.00499**	0.000725 U	0.00064 U	0.000656 U	0.000615 U
4,4'-DDE	**0.0033**	**8.9**	0.000385 U	0.000403 U	0.000399 U	0.00047 U	0.000415 U	0.000425 U	0.000398 U
4,4'-DDT	**0.0033**	**7.9**	0.00134 U	0.0014 U	**0.00483**	0.00164 U	0.00144 U	0.00148 U	0.00138 U
Aldrin	**0.005**	**0.097**	0.000587 U	0.000614 U	0.000607 U	0.000716 U	0.000632 U	0.000648 U	0.000607 U
Alpha-BHC	**0.02**	**0.48**	0.000197 U	0.000206 U	0.000204 U	0.00024 U	0.000212 U	0.000218 U	0.000204 U
Beta-BHC	**0.036**	**0.36**	0.000632 U	0.000661 U	0.000654 U	0.000771 U	0.000681 U	0.000698 U	0.000653 U
Chlordane	**0.094**	**4.2**	0.00552 U	0.00578 U	0.00571 U	0.00673 U	0.00595 U	0.00609 U	0.00571 U
cis-Chlordane	**0.094**	**4.2**	0.00058 U	0.000607 U	0.000601 U	0.000708 U	0.000625 U	0.000641 U	0.0006 U
Delta-BHC	**0.04**	**100**	0.000326 U	0.000342 U	0.000338 U	0.000398 U	0.000352 U	0.00036 U	0.000338 U
Dieldrin	**0.005**	**0.2**	0.000521 U	0.000545 U	0.000539 U	0.000635 U	0.000561 U	0.000575 U	0.000538 U
Endosulfan I	**2.4**	**24**	0.000394 U	0.000412 U	0.000407 U	0.00048 U	0.000424 U	0.000435 U	0.000407 U
Endosulfan II	**2.4**	**24**	0.000557 U	0.000583 U	0.000576 U	0.000679 U	0.0006 U	0.000615 U	0.000576 U
Endosulfan sulfate	**2.4**	**24**	0.00033 U	0.000346 U	0.000342 U	0.000403 U	0.000356 U	0.000365 U	0.000342 U
Endrin	**0.014**	**11**	0.000285 U	0.000298 U	0.000295 U	0.000347 U	0.000307 U	0.000314 U	0.000294 U
Endrin ketone	**NS**	**NS**	0.000429 U	0.000449 U	0.000444 U	0.000524 U	0.000462 U	0.000474 U	0.000444 U
Heptachlor	**0.042**	**2.1**	0.000374 U	0.000391 U	0.000387 U	0.000456 U	0.000402 U	0.000412 U	0.000386 U
Heptachlor epoxide	**NS**	**NS**	0.000937 U	0.000981 U	0.00097 U	0.00114 U	0.00101 U	0.00103 U	0.000969 U
Lindane	**0.1**	**1.3**	0.00031 U	0.000325 U	0.000321 U	0.000379 U	0.000334 U	0.000343 U	0.000321 U
Methoxychlor	**NS**	**NS**	0.000972 U	0.00102 U	0.00101 U	0.00119 U	0.00105 U	0.00107 U	0.001 U
Toxaphene	**NS**	**NS**	0.00875 U	0.00916 U	0.00905 U	0.0107 U	0.00943 U	0.00966 U	0.00905 U
trans-Chlordane	**NS**	**NS**	0.00055 U	0.000576 U	0.000569 U	0.000671 U	0.000592 U	0.000607 U	0.000569 U

Table 4
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Analytical Results
Polychlorinated Biphenyls & Pesticides

Client ID Lab Sample ID Date Sampled Dilution Polychlorinated Biphenyls - mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	SB-4 (8-10') L1421852-03 9/18/2014 1	SB-5 (0-2') L1422008-06 9/19/2014 1	SB-5 (11-13') L1422008-07 9/19/2014 1	SB-6 (0-2') L1422008-02 9/19/2014 1	SB-6 (10-12') L1422008-03 9/19/2014 1	SB-7 (0-2') L1422008-04 9/19/2014 2	SB-7 (9-11') L1422008-05 9/19/2014 1
Aroclor 1016	**NS**	**NS**	0.00281 U	0.00279 U	0.00321 U	0.00288 U	0.00302 U	0.00584 U	0.00296 U
Aroclor 1221	**NS**	**NS**	0.00328 U	0.00326 U	0.00374 U	0.00336 U	0.00353 U	0.00681 U	0.00346 U
Aroclor 1232	**NS**	**NS**	0.00416 U	0.00414 U	0.00476 U	0.00427 U	0.00448 U	0.00866 U	0.00439 U
Aroclor 1242	**NS**	**NS**	0.00435 U	0.00432 U	0.00497 U	0.00446 U	0.00468 U	0.00904 U	0.00459 U
Aroclor 1248	**NS**	**NS**	0.003 U	0.00298 U	0.00343 U	0.00308 U	0.00323 U	0.00624 U	0.00316 U
Aroclor 1254	**NS**	**NS**	0.00292 U	0.0029 U	0.00334 U	0.003 U	0.00314 U	**0.61**	0.00943 J
Aroclor 1260	**NS**	**NS**	0.00271 U	**0.424**	0.00309 U	0.0183 J	0.00292 U	**0.179**	0.00286 U
Aroclor 1262	**NS**	**NS**	0.00176 U	0.00175 U	0.00201 U	0.00181 U	0.0019 U	0.00366 U	0.00186 U
Aroclor 1268	**NS**	**NS**	0.00515 U	0.00512 U	0.00589 U	0.00529 U	0.00555 U	0.0107 U	0.00543 U
PCBs, Total	**0.1**	**1**	ND	**0.424**	ND	0.0183 J	ND	**0.789**	0.00943 J

Pesticides - mg/kg

Dilution			1	1	1	1	1	1	1
4,4'-DDD	**0.0033**	**13**	0.000589 U	0.000619 U	0.000688 U	0.000643 U	0.000662 U	0.000664 U	0.000667 U
4,4'-DDE	**0.0033**	**8.9**	0.000382 U	0.000401 U	0.000446 U	0.000417 U	0.000429 U	0.00043 U	0.000432 U
4,4'-DDT	**0.0033**	**7.9**	0.00133 U	0.0014 U	0.00155 U	0.00145 U	0.00149 U	0.0015 U	0.0015 U
Aldrin	**0.005**	**0.097**	0.000582 U	0.000611 U	0.000679 U	0.000634 U	0.000653 U	0.000655 U	0.000658 U
Alpha-BHC	**0.02**	**0.48**	0.000196 U	0.000205 U	0.000228 U	0.000213 U	0.00022 U	0.00022 U	0.000221 U
Beta-BHC	**0.036**	**0.36**	0.000627 U	0.000658 U	0.000731 U	0.000683 U	0.000704 U	0.000706 U	0.000709 U
Chlordane	**0.094**	**4.2**	0.00547 U	0.00575 U	0.00639 U	0.00597 U	0.00615 U	0.00616 U	0.0062 U
cis-Chlordane	**0.094**	**4.2**	0.000576 U	0.000605 U	0.000672 U	0.000628 U	0.000646 U	0.000648 U	0.000652 U
Delta-BHC	**0.04**	**100**	0.000324 U	0.00034 U	0.000378 U	0.000353 U	0.000363 U	0.000364 U	0.000366 U
Dieldrin	**0.005**	**0.2**	0.000516 U	**0.00579**	0.000603 U	0.000563 U	0.00058 U	0.000582 U	0.000584 U
Endosulfan I	**2.4**	**24**	0.00039 U	0.00041 U	0.000456 U	0.000426 U	0.000438 U	0.00044 U	0.000442 U
Endosulfan II	**2.4**	**24**	0.000552 U	0.00058 U	0.000644 U	0.000602 U	0.00062 U	0.000622 U	0.000625 U
Endosulfan sulfate	**2.4**	**24**	0.000328 U	0.000344 U	0.000382 U	0.000357 U	0.000368 U	0.000369 U	0.000371 U
Endrin	**0.014**	**11**	0.000282 U	0.000296 U	0.00033 U	0.000308 U	0.000317 U	0.000318 U	0.00032 U
Endrin ketone	**NS**	**NS**	0.000426 U	0.000447 U	0.000497 U	0.000464 U	0.000478 U	0.000479 U	0.000482 U
Heptachlor	**0.042**	**2.1**	0.00037 U	0.000389 U	0.000432 U	0.000404 U	0.000416 U	0.000417 U	0.000419 U
Heptachlor epoxide	**NS**	**NS**	0.00093 U	0.000976 U	0.00108 U	0.00101 U	0.00104 U	0.00105 U	0.00105 U
Lindane	**0.1**	**1.3**	0.000308 U	0.000323 U	0.000359 U	0.000336 U	0.000346 U	0.000347 U	0.000348 U
Methoxychlor	**NS**	**NS**	0.000964 U	0.00101 U	0.00112 U	0.00105 U	0.00108 U	0.00108 U	0.00109 U
Toxaphene	**NS**	**NS**	0.00868 U	0.00911 U	0.0101 U	0.00946 U	0.00974 U	0.00977 U	0.00982 U
trans-Chlordane	**NS**	**NS**	0.000545 U	0.000573 U	0.000636 U	0.000595 U	0.000612 U	0.000614 U	0.000617 U

Table 5
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Groundwater Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled µg/L	NYSDEC Class GA Ambient Standard µg/L	GW-1 L1421852-07 9/18/2014	GW-2 L1421852-08 9/18/2014	GW-3 L1422008-09 9/19/2014	TRIP BLANK L1421852-09 9/18/2014	TRIP BLANK L1422008-10 9/19/2014
1,1,1,2-Tetrachloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,1,1-Trichloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,1,2,2-Tetrachloroethane	5	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,2-Trichloroethane	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,1-Dichloroethene	5	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloropropene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,2,3-Trichlorobenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,2,3-Trichloropropane	0.04	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,2,4,5-Tetramethylbenzene	5	1.1 J	0.65 U	0.65 U	0.65 U	0.65 U
1,2,4-Trichlorobenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,2,4-Trimethylbenzene	5	4.5	0.7 U	0.7 U	0.7 U	0.7 U
1,2-Dibromo-3-chloropropane	0.04	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,2-Dibromoethane	0.0006	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,2-Dichlorobenzene	3	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,2-Dichloroethane	0.6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloroethene, Total	NS	0.7 U	0.96 J	0.96 J	0.7 U	0.7 U
1,2-Dichloropropane	1	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,3,5-Trimethylbenzene	5	1.4 J	0.7 U	0.7 U	0.7 U	0.7 U
1,3-Dichlorobenzene	3	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,3-Dichloropropane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,3-Dichloropropene, Total	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,4-Dichlorobenzene	3	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,4-Dioxane	NS	41 U	41 U	41 U	41 U	41 U
2,2-Dichloropropane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
2-Butanone	50	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Hexanone	50	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	NS	1 U	1 U	1 U	1 U	1 U
Acetone	50	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Acrylonitrile	5	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzene	1	0.99	0.16 U	0.63	0.16 U	0.16 U
Bromobenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Bromochloromethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Bromodichloromethane	50	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Bromoform	50	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Bromomethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Carbon disulfide	60	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chlorobenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Chloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Chloroform	7	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Chloromethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
cis-1,2-Dichloroethene	5	0.7 U	0.96 J	0.96 J	0.7 U	0.7 U
cis-1,3-Dichloropropene	0.4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Dibromochloromethane	50	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Dibromomethane	5	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U
Ethyl ether	NS	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Ethylbenzene	5	1.5 J	0.7 U	0.7 U	0.7 U	0.7 U
Hexachlorobutadiene	0.5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Isopropylbenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Methyl tert butyl ether	10	3.5	5.3	3.2	0.7 U	0.7 U
Methylene chloride	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Naphthalene	10	**31**	0.81 J	0.7 U	0.7 U	0.7 U
n-Butylbenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
n-Propylbenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
o-Chlorotoluene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
o-Xylene	5	2.9	0.7 U	0.7 U	0.7 U	0.7 U
p/m-Xylene	5	**5.8**	0.7 U	0.7 U	0.7 U	0.7 U
p-Chlorotoluene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
p-Diethylbenzene	NS	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
p-Ethyltoluene	NS	2.2	0.7 U	0.7 U	0.7 U	0.7 U
p-Isopropyltoluene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
sec-Butylbenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Styrene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
tert-Butylbenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Tetrachloroethene	5	0.18 U	0.45 J	0.18 U	0.18 U	0.18 U
Toluene	5	3.1	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,3-Dichloropropene	0.4	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
trans-1,4-Dichloro-2-butene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Trichloroethene	5	0.18 U	0.52	0.5	0.18 U	0.18 U
Trichlorofluoromethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Vinyl acetate	NS	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	0.33 U	0.33 U	1	0.33 U	0.33 U
Xylenes, Total	5	**8.7**	0.7 U	0.7 U	0.7 U	0.7 U

Table 6
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Groundwater Analytical Results
Semivolatile Organic Compounds

Client ID Lab Sample ID Date Sampled µg/L	NYSDEC Class GA Ambient Standard µg/L	GW-1 L1421852-07 9/18/2014	GW-2 L1421852-08 9/18/2014	GW-3 L1422008-09 9/19/2014
1,2,4,5-Tetrachlorobenzene	**5**	0.51 U	0.51 U	0.71 U
1,2,4-Trichlorobenzene	**5**	0.3 U	0.3 U	0.42 U
1,2-Dichlorobenzene	**3**	0.43 U	0.43 U	0.6 U
1,3-Dichlorobenzene	**3**	0.5 U	0.5 U	0.7 U
1,4-Dichlorobenzene	**3**	0.46 U	0.46 U	0.65 U
2,4,5-Trichlorophenol	**NS**	1.1 U	1.1 U	1.5 U
2,4,6-Trichlorophenol	**NS**	1.1 U	1.1 U	1.6 U
2,4-Dichlorophenol	**5**	0.8 U	0.8 U	1.1 U
2,4-Dimethylphenol	**50**	0.82 U	0.82 U	1.2 U
2,4-Dinitrophenol	**10**	2 U	2 U	2.8 U
2,4-Dinitrotoluene	**5**	1.5 U	1.5 U	2.1 U
2,6-Dinitrotoluene	**5**	1.3 U	1.3 U	1.8 U
2-Chloronaphthalene	**10**	0.09 U	0.09 U	0.13 U
2-Chlorophenol	**NS**	0.83 U	0.83 U	1.2 U
2-Methylnaphthalene	**NS**	2	0.09 J	0.12 U
2-Methylphenol	**NS**	1 U	1 U	1.4 U
2-Nitroaniline	**5**	1.4 U	1.4 U	1.9 U
2-Nitrophenol	**NS**	1.5 U	1.5 U	2.1 U
3,3'-Dichlorobenzidine	**5**	0.68 U	0.68 U	0.96 U
3-Methylphenol/4-Methylphenol	**NS**	1 U	1 U	1.4 U
3-Nitroaniline	**5**	0.95 U	0.95 U	1.3 U
4,6-Dinitro-o-cresol	**NS**	1.9 U	1.9 U	2.7 U
4-Bromophenyl phenyl ether	**NS**	0.61 U	0.61 U	0.86 U
4-Chloroaniline	**5**	1.2 U	1.2 U	1.7 U
4-Chlorophenyl phenyl ether	**NS**	0.51 U	0.51 U	0.71 U
4-Nitroaniline	**5**	1.2 U	1.2 U	1.7 U
4-Nitrophenol	**NS**	1.6 U	1.6 U	2.2 U
Acenaphthene	**20**	1.5	1.7	0.13 U
Acenaphthylene	**NS**	0.12 J	0.07 U	0.1 U
Acetophenone	**NS**	0.61 U	0.61 U	0.86 U
Anthracene	**50**	1.2	0.31	0.13 U
Benzo(a)anthracene	**0.002**	0.08 U	**0.21** J	0.11 U
Benzo(a)pyrene	**ND**	0.1 U	**0.22** J	0.14 U
Benzo(b)fluoranthene	**0.002**	0.1 U	**0.23** J	0.14 U
Benzo(ghi)perylene	**NS**	0.1 U	0.11 J	0.14 U
Benzo(k)fluoranthene	**0.002**	0.1 U	0.1 U	0.14 U
Benzoic Acid	**NS**	1.4 U	1.4 U	2 U
Benzyl Alcohol	**NS**	0.97 U	0.97 U	1.4 U
Biphenyl	**5**	0.34 U	0.34 U	0.47 U
Bis(2-chloroethoxy)methane	**5**	0.85 U	0.85 U	1.2 U
Bis(2-chloroethyl)ether	**1**	0.58 U	0.58 U	0.82 U
Bis(2-chloroisopropyl)ether	**NS**	0.85 U	0.85 U	1.2 U
Bis(2-Ethylhexyl)phthalate	**5**	**5.7**	5	**9.8**
Butyl benzyl phthalate	**50**	1.6 U	1.6 U	2.3 U
Carbazole	**NS**	4.8	0.53 U	0.75 U
Chrysene	**0.002**	0.07 U	**0.2** J	0.1 U
Dibenzo(a,h)anthracene	**NS**	0.1 U	0.1 U	0.15 U
Dibenzofuran	**NS**	2.1 J	0.31 U	0.44 U
Diethyl phthalate	**50**	0.56 U	0.56 U	0.79 U
Dimethyl phthalate	**50**	0.48 U	0.48 U	0.67 U
Di-n-butylphthalate	**50**	1.1 U	1.1 U	1.5 U
Di-n-octylphthalate	**50**	1.7 U	1.7 U	2.4 U
Fluoranthene	**50**	1.7	1.1	0.09 U
Fluorene	**50**	3.7	0.54	0.11 U
Hexachlorobenzene	**0.04**	0.02 U	0.02 U	0.03 U
Hexachlorobutadiene	**0.5**	0.1 U	0.1 U	0.14 U
Hexachlorocyclopentadiene	**5**	0.84 U	0.84 U	1.2 U
Hexachloroethane	**5**	0.09 U	0.09 U	0.13 U
Indeno(1,2,3-cd)Pyrene	**0.002**	0.11 U	**0.12** J	0.16 U
Isophorone	**50**	1.1 U	1.1 U	1.6 U
Naphthalene	**10**	**11**	0.16 J	0.13 U
Nitrobenzene	**0.4**	0.57 U	0.57 U	0.8 U
NitrosoDiPhenylAmine(NDPA)/DPA	**50**	0.48 U	0.48 U	0.68 U
n-Nitrosodi-n-propylamine	**NS**	0.92 U	0.92 U	1.3 U
P-Chloro-M-Cresol	**NS**	0.78 U	0.78 U	1.1 U
Pentachlorophenol	**NS**	0.27 U	0.27 U	0.37 U
Phenanthrene	**50**	6	0.86	0.13 U
Phenol	**NS**	0.38 U	0.38 U	0.54 U
Pyrene	**50**	1	0.86	0.14 J

Note: † = Dilution factor varies.

Table 7
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Groundwater Analytical Results
Metals - Total & Dissolved

Client ID Lab Sample ID Date Sampled Dilution Total Metals - µg/L	NYSDEC Class GA Ambient Standard µg/L	GW-1 L1421852-07 9/18/2014 200/20/1 †	GW-2 L1421852-08 9/18/2014 200/20/1 †	GW-3 L1422008-09 9/19/2014 20/1 †
Aluminum	**NS**	30,800	27,900	2,690
Antimony	**3**	1.87 J	0.59 J	2.11 J
Arsenic	**25**	7.04	8.38	3.3
Barium	**1,000**	**2,814**	710.8	146.5
Beryllium	**3**	1.06	1.29	0.15 U
Cadmium	**5**	0.73	0.75	0.05 U
Calcium	**NS**	302,000	457,000	206,000
Chromium	**50**	**149.2**	**50.94**	4.82
Cobalt	**NS**	39.15	24.78	2.47
Copper	**200**	172.9	141.4	8.83
Iron	**300**	**97,900**	**59,600**	**14,000**
Lead	**25**	**58.23**	**365.7**	9.42
Magnesium	**35,000**	**156,000**	**148,000**	**49,800**
Manganese	**300**	**8,992**	**2,550**	**1,994**
Mercury	**0.7**	0.06 U	0.06 U	0.06 U
Nickel	**100**	**130.3**	47.23	9.45
Potassium	**NS**	53,200	13,700	13,400
Selenium	**10**	2.06 J	2.64 J	1.25 J
Silver	**50**	0.1 U	0.22 J	0.07 U
Sodium	**20,000**	**1,730,000**	**35,200**	**229,000**
Thallium	**0.5**	0.3 J	0.41 J	0.05 U
Vanadium	**NS**	231.8	81.75	5.9
Zinc	**2,000**	159.2	310.5	24.72

Dissolved Metals - µg/L

Aluminum	**NS**	15.3	11.8	6.44 J
Antimony	**3**	**5.23**	1.12 J	**3.74**
Arsenic	**25**	1.03	2.17	0.35 J
Barium	**1,000**	**2,306**	363	78.61
Beryllium	**3**	0.1 U	0.1 U	0.1 U
Cadmium	**5**	0.05 U	0.05 U	0.05 U
Calcium	**NS**	362,000	444,000	188,000
Chromium	**50**	0.77 J	1.41	1.28
Cobalt	**NS**	6.45	2.01	0.26
Copper	**200**	0.35 J	0.61 J	0.18 J
Iron	**300**	**11,600**	265	**1,920**
Lead	**25**	0.2 U	0.24 J	0.2 U
Magnesium	**35,000**	**162,000**	**104,000**	**49,100**
Manganese	**300**	**8,582**	**1,013**	**2,270**
Mercury	**0.7**	0.06 U	0.06 U	0.06 U
Nickel	**100**	7.99	2.83	4.26
Potassium	**NS**	52,000	12,800	11,700
Selenium	**10**	0.47 J	0.38 J	0.3 U
Silver	**50**	0.1 U	0.19 J	0.1 U
Sodium	**20,000**	**1,590,000**	**34,400**	**286,000**
Thallium	**0.5**	0.04 J	0.03 U	0.03 U
Vanadium	**NS**	0.4 J	0.52 J	0.19 J
Zinc	**2,000**	4.09 J	12.62	7.05 J

Note: † = The dilution factor varies.

Table 8
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Groundwater Analytical Results
Polychlorinated Biphenyls & Pesticides

Client ID Lab Sample ID Date Sampled Polychlorinated Biphenyls - µg/L	NYSDEC Class GA Ambient Standard µg/L	GW-1 L1421852-07 9/18/2014	GW-2 L1421852-08 9/18/2014	GW-3 L1422008-09 9/19/2014
Aroclor 1016	**NS**	0.055 U	0.055 U	0.055 U
Aroclor 1221	**NS**	0.053 U	0.053 U	0.053 U
Aroclor 1232	**NS**	0.031 U	0.031 U	0.031 U
Aroclor 1242	**NS**	0.06 U	0.06 U	0.06 U
Aroclor 1248	**NS**	0.051 U	0.051 U	0.051 U
Aroclor 1254	**NS**	0.034 U	0.034 U	0.034 U
Aroclor 1260	**NS**	0.032 U	0.032 U	0.032 U
Aroclor 1262	**NS**	0.029 U	0.029 U	0.029 U
Aroclor 1268	**NS**	0.038 U	0.038 U	0.038 U
PCBs, Total	**0.09**	ND	ND	ND

Pesticides - µg/L

4,4'-DDD	**0.3**	0.005 U	0.005 U	0.005 U
4,4'-DDE	**0.2**	0.004 U	0.004 U	0.004 U
4,4'-DDT	**0.2**	0.004 U	0.004 U	0.004 U
Aldrin	**ND**	0.002 U	0.002 U	0.002 U
Alpha-BHC	**0.01**	0.004 U	0.004 U	0.004 U
Beta-BHC	**0.04**	0.006 U	0.006 U	0.006 U
Chlordane	**0.05**	0.046 U	0.046 U	0.046 U
cis-Chlordane	**0.05**	0.007 U	0.007 U	0.007 U
Delta-BHC	**0.04**	0.005 U	0.005 U	0.005 U
Dieldrin	**0.004**	0.004 U	0.004 U	0.004 U
Endosulfan I	**NS**	0.003 U	0.003 U	0.003 U
Endosulfan II	**NS**	0.005 U	0.005 U	0.005 U
Endosulfan sulfate	**NS**	0.005 U	0.005 U	0.005 U
Endrin	**ND**	0.004 U	0.004 U	0.004 U
Endrin ketone	**5**	0.005 U	0.005 U	0.005 U
Heptachlor	**0.04**	0.003 U	0.003 U	0.003 U
Heptachlor epoxide	**0.03**	0.004 U	0.004 U	0.004 U
Lindane	**0.05**	0.004 U	0.004 U	0.004 U
Methoxychlor	**35**	0.007 U	0.007 U	0.007 U
Toxaphene	**0.06**	0.063 U	0.063 U	0.063 U
trans-Chlordane	**0.05**	0.006 U	0.006 U	0.006 U

Table 9
3875 Ninth Avenue
New York, NY
Subsurface (Phase II) Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution µg/m³	NYSDOH 2003 Soil Vapor Intrusion Air Guideline Value µg/m³	NYSDOH 2003 Soil Vapor Indoor Upper Fence µg/m³	EPA 2001 BASE 90th percentile µg/m³	NYSDOH 2005 HEI RIOPA 95th Percentile Indoor µg/m³	SV-1 L1422056-01 9/18/2014 150.7	SV-2 L1422056-02 9/18/2014 10	SV-3 L1422056-03 9/18/2014 5	SV-4 L1422056-04 9/19/2014 1
1,1,1-Trichloroethane	NS	2.5	20.6	NS	164 U	10.9 U	5.46 U	2.31
1,1,2,2-Tetrachloroethane	NS	0.4	NS	NS	207 U	13.7 U	6.87 U	1.37 U
1,1,2-Trichloroethane	NS	0.4	<1.5	NS	164 U	10.9 U	5.46 U	1.09 U
1,1-Dichloroethane	NS	0.4	<0.7	NS	122 U	8.09 U	4.05 U	0.809 U
1,1-Dichloroethene	NS	0.4	<1.4	NS	119 U	7.93 U	3.96 U	0.793 U
1,2,4-Trichlorobenzene	NS	0.5	<6.8	NS	223 U	14.8 U	7.42 U	1.48 U
1,2,4-Trimethylbenzene	NS	9.8	9.5	NS	148 U	9.83 U	4.92 U	1.15
1,2-Dibromoethane	NS	0.4	<1.5	NS	231 U	15.4 U	7.69 U	1.54 U
1,2-Dichlorobenzene	NS	0.5	<1.2	NS	181 U	12 U	6.01 U	1.2 U
1,2-Dichloroethane	NS	0.4	<0.9	NS	122 U	8.09 U	4.05 U	0.809 U
1,2-Dichloropropane	NS	0.4	<1.6	NS	139 U	9.24 U	4.62 U	0.924 U
1,3,5-Trimethylbenzene	NS	3.9	3.7	NS	148 U	9.83 U	4.92 U	0.983 U
1,3-Butadiene	NS	0.5	<3.0	NS	66.6 U	4.42 U	2.21 U	1.69
1,3-Dichlorobenzene	NS	0.5	<2.4	NS	181 U	12 U	6.01 U	1.55
1,4-Dichlorobenzene	NS	1.2	5.5	344	181 U	12 U	6.01 U	1.2 U
1,4-Dioxane	NS	NS	NS	NS	108 U	7.21 U	3.6 U	0.721 U
2,2,4-Trimethylpentane	NS	5	NS	NS	52,800	3,020	5.23	0.934 U
2-Butanone	NS	16	12	NS	88.8 U	25.4	28.2	13.2
2-Hexanone	NS	NS	NS	NS	123 U	8.2 U	4.1 U	0.82 U
3-Chloropropene	NS	NS	NS	NS	94.2 U	6.26 U	3.13 U	0.626 U
4-Ethyltoluene	NS	NS	3.6	NS	148 U	9.83 U	4.92 U	0.983 U
4-Methyl-2-pentanone	NS	1.9	6	NS	123 U	22.8	36.4	4.08
Acetone	NS	115	98.9	45.8	359 U	1090	1090	736
Benzene	NS	13	9.4	10	2700	12.4	5.27	7.22
Benzyl chloride	NS	NS	<6.8	NS	156 U	10.4 U	5.18 U	1.04 U
Bromodichloromethane	NS	NS	NS	NS	202 U	13.4 U	6.7 U	1.34 U
Bromoform	NS	NS	NS	NS	311 U	20.7 U	10.3 U	2.07 U
Bromomethane	NS	0.5	<1.7	NS	117 U	7.77 U	3.88 U	0.777 U
Carbon disulfide	NS	NS	4.2	NS	93.7 U	6.23 U	3.43	3.55
Carbon tetrachloride	NS	1.3	<1.3	1.1	189 U	12.6 U	6.29 U	1.26 U
Chlorobenzene	NS	0.4	<0.9	NS	139 U	9.21 U	4.61 U	0.921 U
Chloroethane	NS	0.4	<1.1	NS	79.4 U	5.28 U	2.64 U	0.528 U
Chloroform	NS	1.2	1.1	6.34	147 U	9.77 U	21.1	14.1
Chloromethane	NS	4.2	3.7	NS	62.2 U	4.13 U	2.07 U	0.535
cis-1,2-Dichloroethene	NS	0.4	<1.9	NS	2,360	7.93 U	16.2	0.793 U
cis-1,3-Dichloropropene	NS	0.4	<2.3	NS	137 U	9.08 U	4.54 U	0.908 U
Cyclohexane	NS	6.3	NS	NS	49,200	87.1	3.44 U	0.723
Dibromochloromethane	NS	NS	NS	NS	256 U	17 U	8.52 U	1.7 U
Dichlorodifluoromethane	NS	10	16.5	NS	253	9.89 U	4.94 U	7.76
Ethanol	NS	1,300	210	NS	855	143	109	142
Ethyl Acetate	NS	NS	5.4	NS	272 U	18 U	9.01 U	1.8 U
Ethylbenzene	NS	6.4	5.7	7.62	439	8.69 U	4.34 U	0.869 U
Freon-113	NS	2.5	3.5	NS	231 U	15.3 U	7.66 U	1.53 U
Freon-114	NS	0.4	NS	NS	210 U	14 U	6.99 U	1.4 U
Heptane	NS	18	NS	NS	30,200	43.9	4.1 U	13.9
Hexachlorobutadiene	NS	0.5	<6.8	NS	321 U	21.3 U	10.7 U	2.13 U
Isopropanol	NS	NS	250	NS	185 U	12.3 U	8.16	7.6
Methyl tert butyl ether	NS	14	11.5	36	109 U	498	3.61 U	0.721 U
Methylene chloride	60	16	10	7.5	262 U	17.4 U	8.69 U	1.74 U
n-Hexane	NS	14	10.2	NS	51,100	105	3.52 U	39.5
o-Xylene	NS	7.1	7.9	7.24	230	8.69 U	4.34	0.869 U
p/m-Xylene	NS	11	22.2	NS	969	17.4 U	10.8	1.86
Styrene	NS	1.4	1.9	5.13	128 U	8.52 U	4.26 U	0.852 U
Tertiary butyl Alcohol	NS	NS	NS	NS	229 U	29.8	16.2	9.76
Tetrachloroethene	30	2.5	15.9	6.01	**26,200**	29	**2,400**	21.8
Tetrahydrofuran	NS	0.8	NS	NS	88.8 U	5.9 U	2.95 U	0.59 U
Toluene	NS	57	43	39.8	323	13.5	11.6	3.2
trans-1,2-Dichloroethene	NS	NS	NS	NS	119 U	7.93 U	3.96 U	0.793 U
trans-1,3-Dichloropropene	NS	NC	<1.3	NS	137 U	9.08 U	4.54 U	0.908 U
Trichloroethene	5	0.5	4.2	1.36	**4,800**	10.7 U	**291**	**8.76**
Trichlorofluoromethane	NS	12	18.1	NS	169 U	11.2 U	7.42	203
Vinyl bromide	NS	NS	NS	NS	132 U	8.74 U	4.37 U	0.874 U
Vinyl chloride	NS	0.4	<1.9	NS	450	14.4	2.56 U	0.511 U

Tables 1-9
3875 Ninth Avenue
New York, NY

Subsurface (Phase II) Investigation Analytical Results

Notes

GENERAL

NS : No cleanup objective listed.

ND : No Detect

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

SOIL

Exceedences of Part 375 Unrestricted SCOs are highlighted in bold font.

Exceedences of Part 375 Restricted Residential SCOs are highlighted in gray.

Part 375 Soil Cleanup Objectives : Soil Clean-up Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

mg/kg : milligrams per kilogram = parts per million (ppm)

GROUNDWATER

Exceedences of NYSDEC Class GA Ambient Standards are highlighted in bold font.

NYSDEC Class GA Ambient Standard : New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

µg/L : micrograms per Liter = parts per billion (ppb)

SOIL VAPOR

Exceedences of NYSDOH Soil Vapor Intrusion Air Guidance Values are highlighted in bold font.

NYSDOH Soil Vapor Intrusion Air Guidance Value : NYSDOH Air Guideline Values (AGVs) presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (“NYSDOH Vapor Intrusion Guidance Document”).

NYSDOH 2003 Soil Vapor Indoor Upper Fence : Upper fence indoor air values from "Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes", published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C” (October 2006).

EPA 2001 BASE 90th percentile : 90th Percentile indoor air values from “Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method”, published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C” (October 2006).

HEI RIOPA 2005 95th percentile : 95th Percentile Indoor Air Values from Table C-5, Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air, published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C” (October 2006).

µg/m^3 : micrograms per cubic meter of air

APPENDIX A

SAMPLING LOGS

SOIL BORING LOG

3875 9th Avenue
AKRF Project Number: 11995

Boring No. **SB-1**
Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY 10016
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method: Track driven Geoprobe
Sampling Method: 5' Macrocore
Driller : Zebra
Sampler: J. Mathew

Drilling
Start: **Time: 09:15** | **Finish** **Time: 09:35**
Date 9.18.2014
Weather: 60-70 °F, Clear and Sunny

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Samples Collected for Lab Analysis
1	48"	Brown-black SAND and fine GRAVEL, some Ash, trace Brick, Concrete, Plastic (FILL).	ND	ND	2.0	NA	SB-1 (0-2')
2							
3			Bottom 36" - slight petroleum-like or organic odor				
4							
5							
6	42"	Top 36" - Brown SAND, trace Silt, fine Gravel, Metal (FILL).	slight organic	Wet at 7.5'	2.3	NA	SB-1 (5-7') GW-1
7							
8		Bottom 6" - WOOD pieces (FILL).	slight organic		ND	ND	
9							
10							
11		**End of boring at 10 feet.**		Wet			
12							
13							
14							
15							
16							

Notes: End of boring at 10 feet. Groundwater encountered at approximately 7.5 feet below grade. Installed 1" temporary PVC well screened at 5.0-10.0'. Collected soil and groundwater samples for laboratory analysis.

PID = photoionization detector ppm = parts per million ND = Not Detected

SOIL BORING LOG

3875 9th Avenue
AKRF Project Number: 11995

Boring No. **SB-2**
Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY 10016
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method: Remote Geoprobe
Sampling Method: 5' Macrocore
Driller : Zebra
Sampler: J. Mathew

Drilling
Start: **Time: 15:20** | **Finish** **Time: 15:28**
Date 9.18.2014
Weather: 60-70 °F, Clear and Sunny

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Samples Collected for Lab Analysis
1	36"	Top 12" - Brown SILTY SAND, fine GRAVEL and CONCRETE, trace Wood (FILL).	ND	ND	0.01	NA	SB-2 (0-2')
2		Bottom 24" - Brown SAND and SILT, some Glass, trace Brick, trace Ash (FILL).	ND				
3							
4							
5							
6	48"	Top 12" - Brown SILT, trace Ash, fine Gravel (FILL).	ND		ND	NA	
7		Middle 24" - Brown SAND and SILT, trace Organic Matter.	ND				
8				Moist at 7.5'			
9		Bottom 12" - Brown SAND, trace Silt.	ND		ND	ND	SB-2 (8-10') GW-2
10							
11	48"	Brown SAND.	ND	Wet	ND	ND	
12							
13							
14							
15							
16		**End of boring at 15 feet.**					

Notes: End of boring at 15 feet. Groundwater encountered at approximately 7.5 to 8 feet below grade. Collected soil samples for laboratory analysis.

PID = photoionization detector ppm = parts per million ND = Not Detected

SOIL BORING LOG

3875 9th Avenue
AKRF Project Number: 11995

Boring No. **SB-3**
Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY 10016
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method: Remote Geoprobe
Sampling Method: 5' Macrocore
Driller : Zebra
Sampler: J. Mathew

Drilling
Start: **Time: 12:30** | **Finish** **Time: 12:43**
Date 9.19.2014
Weather: 60-70 °F, Clear and Sunny

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Samples Collected for Lab Analysis
1	48"	Top 24" - Brown SILT and fine GRAVEL, trace Brick, Sand (FILL).	ND	ND	ND	NA	SB-3 (0-2')
2		Bottom 24" - SILT, some fine Gravel, trace Sand.	ND	ND	ND		
3							
4							
5							
6	24"	SILT, some fine Gravel, trace Sand.	ND	ND	ND	NA	
7							
8							
9							
10							
11	42"	Top 12" - SILT, trace Sand.	ND	Moist	ND	ND	SB-3 (10-12')
12		Bottom 30" - SILTY CLAY, some Peat.	ND	Wet	ND		GW-3
13							
14							
15							
16		**End of boring at 15 feet.**					

Notes: End of boring at 15 feet. Groundwater encountered at approximately 10 feet below grade. Installed 1" temporary PVC well screened at 10.0-15.0'. Collected soil and groundwater samples for laboratory analysis.

PID = photoionization detector ppm = parts per million ND = Not Detected

SOIL BORING LOG

3875 9th Avenue
AKRF Project Number: 11995

Boring No. **SB-4**
Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY 10016
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method: Remote Geoprobe
Sampling Method: 5' Macrocore
Driller : Zebra
Sampler: J. Mathew

Drilling
Start: **Time: 12:51** **Finish** **Time: 13:02**
Date 9.18.2014
Weather: 60-70 °F, Clear and Sunny

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Samples Collected for Lab Analysis
1	36"	Silty SAND and fine GRAVEL, trace Concrete (FILL).	ND	ND	ND	NA	SB-4 (0-2')
2							
3							
4							
5							
6	30"	SILT, trace Sand, fine Gravel, Brick (FILL).	ND	ND	0.1	NA	
7							
8							SB-4 (8-10')
9							
10							
11	36"	Top 18" - SILT and fine GRAVEL.	ND	Moist	ND	ND	GW-2
12		Bottom 18" - PEAT.	organic-like		ND		
13							
14							
15							
16		**End of boring at 15 feet.**					

Notes: End of boring at 15 feet. Groundwater encountered at approximately 10 feet below grade. Installed 1" temporary PVC well screened at 7.0-12.0'. Collected soil and groundwater samples for laboratory analysis.

PID = photoionization detector ppm = parts per million ND = Not Detected

SOIL BORING LOG

3875 9th Avenue
AKRF Project Number: 11995

Boring No. **SB-5**
Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY 10016
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method: Remote Geoprobe
Sampling Method: 5' Macrocore
Driller : Zebra
Sampler: J. Mathew

Drilling
Start: **Time: 9:50** **Finish** **Time: 10:00**
Date 9.19.2014
Weather: 50-70 °F, Partly Cloudy

Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt	Odor	Moisture	PID (ppm)	NAPL	Samples Collected for Lab Analysis
1	24"	Top 12" - ASPHALT, Brown SAND and fine GRAVEL, trace Ash (FILL).	ND	ND	ND	NA	SB-5 (0-2')
2		Bottom 12" - BRICK, SAND, PLASTER and CONCRETE (FILL).	ND		ND		
3							
4							
5							
6	12"	Top 6" - BRICK (FILL).	ND	ND	ND	NA	
7		Bottom 6" - Fine GRAVEL and Brown SILT, trace Sand.	ND		ND		
8							
9							
10							
11	48"	Top 12" - BRICK and fine Gravel (apparent slough).	ND		ND	NA	SB-5 (11-13')
12		Bottom 36" - Brown SAND, trace Silt.	ND	Wet at 11'	ND	ND	
13							
14							
15							
16		**End of boring at 15 feet.**					

Notes: End of boring at 15 feet. Groundwater encountered at approximately 11 feet below grade. Collected soil samples for laboratory analysis.

PID = photoionization detector ppm = parts per million ND = Not Detected

SOIL BORING LOG

3875 9th Avenue
AKRF Project Number: 11995

Boring No. **SB-6**
Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY 10016
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method: Remote Geoprobe
Sampling Method: 5' Macrocore
Driller : Zebra
Sampler: J. Mathew

Drilling
Start: **Time: 8:47** **Finish** **Time: 9:00**
Date 9.19.2014
Weather: 50-70 °F, Partly Cloudy

Depth (feet)	Recovery (Inches)	Surface Condition: Top soil	Odor	Moisture	PID (ppm)	NAPL	Samples Collected for Lab Analysis
1	48"	Top 24" - Brown SILT, ASPHALT and fine GRAVEL, trace brown Sand (FILL).	ND	ND	ND	NA	SB-6 (0-2')
2							
3		Bottom 24" - Brown SAND and SILT.	ND		ND	NA	
4							
5							
6	48"	Top 9" - SILT, trace sand, organic matter.	ND		ND	NA	
			ND		ND	NA	
7		Middle 33" - Silty SAND, trace fine Gravel.					
8				Moist at 9.5'			
9							
10		Bottom 6" - Brown SILT and SAND.	ND		ND	NA	
11	54"	Brown SILT and SAND.	ND	Moist	ND	ND	SB-6 (10-12')
12							
13							
14							
15							
16		**End of boring at 15 feet.**					

Notes: End of boring at 15 feet. Groundwater encountered at approximately 9.5 feet below grade. Collected soil samples for laboratory analysis.

PID = photoionization detector ppm = parts per million ND = Not Detected

SOIL BORING LOG

3875 9th Avenue

AKRF Project Number: 11995

Boring No. **SB-7**

Sheet 1 of 1

AKRF
440 Park Avenue South, New York, NY 10016
Phone (212) 696-0670 Fax (212) 726-0942

Drilling Method: Remote Geoprobe
Sampling Method: 5' Macrocore
Driller : Zebra
Sampler: J. Mathew

Drilling
Start: **Time: 11:10** **Finish** **Time: 11:35**
Date 9.19.2014
Weather: 50-70 °F, Partly Cloudy

Depth (feet)	Recovery (Inches)	Surface Condition: Top soil	Odor	Moisture	PID (ppm)	NAPL	Samples Collected for Lab Analysis
1	48"	Top 24" - Brown SAND, ASPHALT and fine GRAVEL, trace organic matter (FILL).	ND	ND	ND	NA	SB-7 (0-2')
2							
3		Bottom 24" - Brown SILT, SAND, fine GRAVEL, trace Glass (FILL).					
4							
5							
6	24"	Top 12" - Brown SAND and fine GRAVEL, trace Silt (FILL).	ND	Moist at 9.5'	ND	ND	
7							
8		Bottom 12" - Fine GRAVEL, SAND and SILT, some Asphalt (FILL).					
9							
10							SB-7 (9-11')
11	48"	Top 6" - Brown SILT, trace Clay, Sand (FILL).	ND	Wet	ND	ND	
12							
13		Bottom 42" - Black CLAY, trace Sand.					
14							
15							
16		**End of boring at 15 feet.**					

Notes: End of boring at 15 feet. Groundwater encountered at approximately 9.5 feet below grade. Collected soil samples for laboratory analysis.

PID = photoionization detector ppm = parts per million ND = Not Detected

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11995	**Client:**	Maddd Equities
Project Location:	3875 Ninth Avenue	**Sampled By:**	Jessica Mathew
Date:	9/18/14		

Sample ID:	SV-1
Canister ID:	646
Flow Controller ID:	0070

Purging

Time Started:	1230	
Time Stopped:	1234	
Vol. Purged:	0.8	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	1241	**Vacuum:**	-29.88 inHg
Time Stopped:	1341	**Vacuum:**	-1.41 inHg

Field Sample

PID Calibration:	10 ppm isobutylene
Time Started:	0925
Time Stopped:	0926
PID Reading:	ND
He Reading	ND

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11995	**Client:**	Maddd Equities
Project Location:	3875 Ninth Avenue	**Sampled By:**	Jessica Mathew
Date:	9/18/14		

Sample ID:	SV-2
Canister ID:	1526
Flow Controller ID:	0016

Purging

Time Started:	1656	
Time Stopped:	1659	
Vol. Purged:	1.0	liters
Flow Rate:	0.1	L/min

Laboratory Sample (Summa Canister)

Time Started:	1700	**Vacuum:**	-28.93 inHg
Time Stopped:	1750	**Vacuum:**	-5.35 inHg

Field Sample

PID Calibration:	10 ppm isobutylene
Time Started:	0925
Time Stopped:	0926
PID Reading:	ND
He Reading	ND

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11995	**Client:**	Maddd Equities
Project Location:	3875 Ninth Avenue	**Sampled By:**	Jessica Mathew
Date:	9/18/14		

Sample ID:	SV-3
Canister ID:	597
Flow Controller ID:	0341

Purging

Time Started:	1503	
Time Stopped:	1505	
Vol. Purged:	0.4	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	1509	**Vacuum:**	-31.22 inHg
Time Stopped:	1557	**Vacuum:**	-7.81 inHg

Field Sample

PID Calibration:	10 ppm isobutylene
Time Started:	0925
Time Stopped:	0926
PID Reading:	ND
He Reading	ND

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11995	**Client:**	Maddd Equities
Project Location:	3875 Ninth Avenue	**Sampled By:**	Jessica Mathew
Date:	9/19/14		

Sample ID:	SV-4
Canister ID:	1060
Flow Controller ID:	0337

Purging

Time Started:	1436	
Time Stopped:	1440	
Vol. Purged:	0.8	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	1441	**Vacuum:**	-30.37 inHg
Time Stopped:	1544	**Vacuum:**	-4.57 inHg

Field Sample

PID Calibration:	10 ppm isobutylene
Time Started:	0820
Time Stopped:	0821
PID Reading:	0.136 ppm
He Reading	ND

APPENDIX B

LABORATORY ANALYSIS DATA SHEETS

ANALYTICAL REPORT

Lab Number:	L1422056
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Asya Bychkov
Phone:	(646) 388-9533
Project Name:	Not Specified
Project Number:	11995
Report Date:	09/25/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1422056-01	SV-1	SOIL_VAPOR	3875 9TH AVE	09/18/14 13:42	09/19/14
L1422056-02	SV-2	SOIL_VAPOR	3875 9TH AVE	09/18/14 17:50	09/19/14
L1422056-03	SV-3	SOIL_VAPOR	3875 9TH AVE	09/18/14 15:57	09/19/14
L1422056-04	SV-4	SOIL_VAPOR	3875 9TH AVE	09/19/14 15:44	09/19/14
L1422056-05	CAN 1565	SOIL_VAPOR	3875 9TH AVE		09/19/14

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: Not Specified **Lab Number:** L1422056
Project Number: 11995 **Report Date:** 09/25/14

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 17, 2014. The canister certification results are provided as an addendum.

Samples L1422056-01 through -03 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Sample L1422056-01 The presence of Acetone and 4-Methyl-2-Pentanone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of these compounds.

Samples L1422056-02 and -04 results for Acetone should be considered estimated due to co-elution with a non-target peak.

Sample L1422056-04 The presence of 2,2,4-Trimethylpentane could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

The sample designated SV-2 (L1422056-02) had a RPD for the pre- and post-flow controller calibration check (29% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 79 mL/minute; the final flow rate was 106 mL/minute. The final pressure recorded by the laboratory of the associated canister was -6.0 inches of mercury.

The sample designated SV-3 (L1422056-03) had a RPD for the pre- and post-flow controller calibration check (21% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 80 mL/minute; the final flow rate was 99 mL/minute. The final pressure recorded by the laboratory of the associated canister was -8.6 inches of mercury.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative Date: 09/25/14

AIR

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-01 D
Client ID: SV-1
Sample Location: 3875 9TH AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/24/14 19:42
Analyst: MB

Date Collected: 09/18/14 13:42
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	51.1	30.1	--	253	149	--		150.7
Chloromethane	ND	30.1	--	ND	62.2	--		150.7
Freon-114	ND	30.1	--	ND	210	--		150.7
Vinyl chloride	176	30.1	--	450	76.9	--		150.7
1,3-Butadiene	ND	30.1	--	ND	66.6	--		150.7
Bromomethane	ND	30.1	--	ND	117	--		150.7
Chloroethane	ND	30.1	--	ND	79.4	--		150.7
Ethanol	454	377	--	855	710	--		150.7
Vinyl bromide	ND	30.1	--	ND	132	--		150.7
Acetone	ND	151.	--	ND	359	--		150.7
Trichlorofluoromethane	ND	30.1	--	ND	169	--		150.7
Isopropanol	ND	75.4	--	ND	185	--		150.7
1,1-Dichloroethene	ND	30.1	--	ND	119	--		150.7
Tertiary butyl Alcohol	ND	75.4	--	ND	229	--		150.7
Methylene chloride	ND	75.4	--	ND	262	--		150.7
3-Chloropropene	ND	30.1	--	ND	94.2	--		150.7
Carbon disulfide	ND	30.1	--	ND	93.7	--		150.7
Freon-113	ND	30.1	--	ND	231	--		150.7
trans-1,2-Dichloroethene	ND	30.1	--	ND	119	--		150.7
1,1-Dichloroethane	ND	30.1	--	ND	122	--		150.7
Methyl tert butyl ether	ND	30.1	--	ND	109	--		150.7
2-Butanone	ND	30.1	--	ND	88.8	--		150.7
cis-1,2-Dichloroethene	594	30.1	--	2360	119	--		150.7
Ethyl Acetate	ND	75.4	--	ND	272	--		150.7

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-01 D
Client ID: SV-1
Sample Location: 3875 9TH AVE

Date Collected: 09/18/14 13:42
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	30.1	--	ND	147	--		150.7
Tetrahydrofuran	ND	30.1	--	ND	88.8	--		150.7
1,2-Dichloroethane	ND	30.1	--	ND	122	--		150.7
n-Hexane	14500	30.1	--	51100	106	--		150.7
1,1,1-Trichloroethane	ND	30.1	--	ND	164	--		150.7
Benzene	846	30.1	--	2700	96.2	--		150.7
Carbon tetrachloride	ND	30.1	--	ND	189	--		150.7
Cyclohexane	14300	30.1	--	49200	104	--		150.7
1,2-Dichloropropane	ND	30.1	--	ND	139	--		150.7
Bromodichloromethane	ND	30.1	--	ND	202	--		150.7
1,4-Dioxane	ND	30.1	--	ND	108	--		150.7
Trichloroethene	894	30.1	--	4800	162	--		150.7
2,2,4-Trimethylpentane	11300	30.1	--	52800	141	--		150.7
Heptane	7360	30.1	--	30200	123	--		150.7
cis-1,3-Dichloropropene	ND	30.1	--	ND	137	--		150.7
4-Methyl-2-pentanone	ND	30.1	--	ND	123	--		150.7
trans-1,3-Dichloropropene	ND	30.1	--	ND	137	--		150.7
1,1,2-Trichloroethane	ND	30.1	--	ND	164	--		150.7
Toluene	85.6	30.1	--	323	113	--		150.7
2-Hexanone	ND	30.1	--	ND	123	--		150.7
Dibromochloromethane	ND	30.1	--	ND	256	--		150.7
1,2-Dibromoethane	ND	30.1	--	ND	231	--		150.7
Tetrachloroethene	3860	30.1	--	26200	204	--		150.7
Chlorobenzene	ND	30.1	--	ND	139	--		150.7
Ethylbenzene	101	30.1	--	439	131	--		150.7
p/m-Xylene	223	60.3	--	969	262	--		150.7
Bromoform	ND	30.1	--	ND	311	--		150.7
Styrene	ND	30.1	--	ND	128	--		150.7

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-01 D
Client ID: SV-1
Sample Location: 3875 9TH AVE

Date Collected: 09/18/14 13:42
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	30.1	--	ND	207	--		150.7
o-Xylene	52.9	30.1	--	230	131	--		150.7
4-Ethyltoluene	ND	30.1	--	ND	148	--		150.7
1,3,5-Trimethylbenzene	ND	30.1	--	ND	148	--		150.7
1,2,4-Trimethylbenzene	ND	30.1	--	ND	148	--		150.7
Benzyl chloride	ND	30.1	--	ND	156	--		150.7
1,3-Dichlorobenzene	ND	30.1	--	ND	181	--		150.7
1,4-Dichlorobenzene	ND	30.1	--	ND	181	--		150.7
1,2-Dichlorobenzene	ND	30.1	--	ND	181	--		150.7
1,2,4-Trichlorobenzene	ND	30.1	--	ND	223	--		150.7
Hexachlorobutadiene	ND	30.1	--	ND	321	--		150.7

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	95		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	111		60-140

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-02 D
Client ID: SV-2
Sample Location: 3875 9TH AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/24/14 19:11
Analyst: MB

Date Collected: 09/18/14 17:50
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	5.62	2.00	--	14.4	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	76.1	25.0	--	143	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	457	10.0	--	1090	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	9.83	5.00	--	29.8	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	138	2.00	--	498	7.21	--		10
2-Butanone	8.61	2.00	--	25.4	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-02 D
Client ID: SV-2
Sample Location: 3875 9TH AVE

Date Collected: 09/18/14 17:50
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	29.7	2.00	--	105	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	3.89	2.00	--	12.4	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	25.3	2.00	--	87.1	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	646	2.00	--	3020	9.34	--		10
Heptane	10.7	2.00	--	43.9	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	5.57	2.00	--	22.8	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	3.58	2.00	--	13.5	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	4.27	2.00	--	29.0	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-02 D
Client ID: SV-2
Sample Location: 3875 9TH AVE

Date Collected: 09/18/14 17:50
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	88		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	86		60-140

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-03 D
Client ID: SV-3
Sample Location: 3875 9TH AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/24/14 18:39
Analyst: MB

Date Collected: 09/18/14 15:57
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
Freon-114	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethanol	57.8	12.5	--	109	23.6	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	458	5.00	--	1090	11.9	--		5
Trichlorofluoromethane	1.32	1.00	--	7.42	5.62	--		5
Isopropanol	3.32	2.50	--	8.16	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
Tertiary butyl Alcohol	5.35	2.50	--	16.2	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	1.10	1.00	--	3.43	3.11	--		5
Freon-113	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	9.56	1.00	--	28.2	2.95	--		5
cis-1,2-Dichloroethene	4.08	1.00	--	16.2	3.96	--		5
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-03 D
Client ID: SV-3
Sample Location: 3875 9TH AVE

Date Collected: 09/18/14 15:57
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	4.32	1.00	--	21.1	4.88	--		5
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	1.65	1.00	--	5.27	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	54.1	1.00	--	291	5.37	--		5
2,2,4-Trimethylpentane	1.12	1.00	--	5.23	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	8.87	1.00	--	36.4	4.10	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	3.08	1.00	--	11.6	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	354	1.00	--	2400	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5
p/m-Xylene	2.48	2.00	--	10.8	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-03 D
Client ID: SV-3
Sample Location: 3875 9TH AVE

Date Collected: 09/18/14 15:57
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	1.00	1.00	--	4.34	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	86		60-140

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-04
Client ID: SV-4
Sample Location: 3875 9TH AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/24/14 18:07
Analyst: MB

Date Collected: 09/19/14 15:44
Date Received: 09/19/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.57	0.200	--	7.76	0.989	--		1
Chloromethane	0.259	0.200	--	0.535	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.764	0.200	--	1.69	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	75.5	2.50	--	142	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	310	1.00	--	736	2.38	--		1
Trichlorofluoromethane	36.2	0.200	--	203	1.12	--		1
Isopropanol	3.09	0.500	--	7.60	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	3.22	0.500	--	9.76	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.14	0.200	--	3.55	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.48	0.200	--	13.2	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-04 Date Collected: 09/19/14 15:44
Client ID: SV-4 Date Received: 09/19/14
Sample Location: 3875 9TH AVE Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	2.89	0.200	--	14.1	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	11.2	0.200	--	39.5	0.705	--		1
1,1,1-Trichloroethane	0.423	0.200	--	2.31	1.09	--		1
Benzene	2.26	0.200	--	7.22	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.210	0.200	--	0.723	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.63	0.200	--	8.76	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	3.39	0.200	--	13.9	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.996	0.200	--	4.08	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.848	0.200	--	3.20	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	3.21	0.200	--	21.8	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.428	0.400	--	1.86	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: ***Lab Number:*** L1422056

Project Number: 11995 ***Report Date:*** 09/25/14

SAMPLE RESULTS

Lab ID: L1422056-04 Date Collected: 09/19/14 15:44
Client ID: SV-4 Date Received: 09/19/14
Sample Location: 3875 9TH AVE Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.233	0.200	--	1.15	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.257	0.200	--	1.55	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	87		60-140

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/24/14 13:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG724955-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/24/14 13:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG724955-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/24/14 13:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG724955-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: 11995

Lab Number: L1422056

Report Date: 09/25/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG724955-3								
Chlorodifluoromethane	84		-		70-130	-		
Propylene	89		-		70-130	-		
Propane	70		-		70-130	-		
Dichlorodifluoromethane	99		-		70-130	-		
Chloromethane	90		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	101		-		70-130	-		
Methanol	79		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Butane	82		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	95		-		70-130	-		
Ethyl Alcohol	92		-		70-130	-		
Dichlorofluoromethane	94		-		70-130	-		
Vinyl bromide	104		-		70-130	-		
Acrolein	86		-		70-130	-		
Acetone	101		-		70-130	-		
Acetonitrile	85		-		70-130	-		
Trichlorofluoromethane	104		-		70-130	-		
iso-Propyl Alcohol	95		-		70-130	-		
Acrylonitrile	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: 11995

Lab Number: L1422056

Report Date: 09/25/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG724955-3								
Pentane	86		-		70-130	-		
Ethyl ether	76		-		70-130	-		
1,1-Dichloroethene	98		-		70-130	-		
tert-Butyl Alcohol	96		-		70-130	-		
Methylene chloride	92		-		70-130	-		
3-Chloropropene	92		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	107		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
Methyl tert butyl ether	101		-		70-130	-		
Vinyl acetate	88		-		70-130	-		
2-Butanone	90		-		70-130	-		
cis-1,2-Dichloroethene	108		-		70-130	-		
Ethyl Acetate	94		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrahydrofuran	86		-		70-130	-		
2,2-Dichloropropane	94		-		70-130	-		
1,2-Dichloroethane	102		-		70-130	-		
n-Hexane	83		-		70-130	-		
Isopropyl Ether	84		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: 11995

Lab Number: L1422056

Report Date: 09/25/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG724955-3								
Ethyl-Tert-Butyl-Ether	81		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
1,1-Dichloropropene	86		-		70-130	-		
Benzene	85		-		70-130	-		
Carbon tetrachloride	96		-		70-130	-		
Cyclohexane	85		-		70-130	-		
Tertiary-Amyl Methyl Ether	83		-		70-130	-		
Dibromomethane	85		-		70-130	-		
1,2-Dichloropropane	87		-		70-130	-		
Bromodichloromethane	94		-		70-130	-		
1,4-Dioxane	90		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	86		-		70-130	-		
Methyl methacrylate	90		-		70-130	-		
Heptane	81		-		70-130	-		
cis-1,3-Dichloropropene	94		-		70-130	-		
4-Methyl-2-pentanone	82		-		70-130	-		
trans-1,3-Dichloropropene	81		-		70-130	-		
1,1,2-Trichloroethane	92		-		70-130	-		
Toluene	93		-		70-130	-		
1,3-Dichloropropane	83		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: 11995

Lab Number: L1422056

Report Date: 09/25/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG724955-3								
2-Hexanone	87		-		70-130	-		
Dibromochloromethane	104		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		
Butyl Acetate	76		-		70-130	-		
Octane	84		-		70-130	-		
Tetrachloroethene	103		-		70-130	-		
1,1,1,2-Tetrachloroethane	97		-		70-130	-		
Chlorobenzene	99		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	94		-		70-130	-		
o-Xylene	98		-		70-130	-		
1,2,3-Trichloropropane	76		-		70-130	-		
Nonane (C9)	79		-		70-130	-		
Isopropylbenzene	96		-		70-130	-		
Bromobenzene	92		-		70-130	-		
o-Chlorotoluene	94		-		70-130	-		
n-Propylbenzene	96		-		70-130	-		
p-Chlorotoluene	91		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG724955-3								
4-Ethyltoluene	93		-		70-130	-		
1,3,5-Trimethylbenzene	101		-		70-130	-		
tert-Butylbenzene	97		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Decane (C10)	86		-		70-130	-		
Benzyl chloride	102		-		70-130	-		
1,3-Dichlorobenzene	106		-		70-130	-		
1,4-Dichlorobenzene	106		-		70-130	-		
sec-Butylbenzene	94		-		70-130	-		
p-Isopropyltoluene	92		-		70-130	-		
1,2-Dichlorobenzene	107		-		70-130	-		
n-Butylbenzene	96		-		70-130	-		
1,2-Dibromo-3-chloropropane	88		-		70-130	-		
Undecane	90		-		70-130	-		
Dodecane (C12)	98		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Naphthalene	102		-		70-130	-		
1,2,3-Trichlorobenzene	110		-		70-130	-		
Hexachlorobutadiene	113		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG724955-5 QC Sample: L1422294-01 Client ID: DUP Sample						
Propylene	ND	ND	ppbV	NC		25
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	253	252	ppbV	0		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	24.9	24.8	ppbV	0		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	14.5	14.2	ppbV	2		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG724955-5 QC Sample: L1422294-01 Client ID: DUP Sample					
1,1-Dichloroethane	43.9	44.4	ppbV	1	25
Methyl tert butyl ether	22.4	21.8	ppbV	3	25
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	3700	3710	ppbV	0	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	11.7	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	89.7	88.1	ppbV	2	25
1,1,1-Trichloroethane	37.4	36.8	ppbV	2	25
Benzene	307	300	ppbV	2	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	45.6	41.6	ppbV	9	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	39.2	41.1	ppbV	5	25
Trichloroethene	334	326	ppbV	2	25
2,2,4-Trimethylpentane	50.2	49.6	ppbV	1	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG724955-5 QC Sample: L1422294-01 Client ID: DUP Sample					
Heptane	44.9	44.8	ppbV	0	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	53.0	53.8	ppbV	1	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	101	101	ppbV	0	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG724955-5 QC Sample: L1422294-01 Client ID: DUP Sample					
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Naphthalene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name:

Lab Number: L1422056

Project Number: 11995

Report Date: 09/25/14

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1422056-01	SV-1	0070	#90 SV	09/17/14	108458		-	-	-	Pass	79	97	20
L1422056-01	SV-1	646	6.0L Can	09/17/14	108458	L1420314-04	Pass	-29.3	-3.0	-	-	-	-
L1422056-02	SV-2	0016	#90 SV	09/17/14	108458		-	-	-	Pass	79	106	29
L1422056-02	SV-2	1526	6.0L Can	09/17/14	108458	L1420314-03	Pass	-29.0	-6.0	-	-	-	-
L1422056-03	SV-3	0341	#90 AMB	09/17/14	108458		-	-	-	Pass	80	99	21
L1422056-03	SV-3	597	6.0L Can	09/17/14	108458	L1420314-04	Pass	-29.5	-8.6	-	-	-	-
L1422056-04	SV-4	0337	#90 SV	09/17/14	108458		-	-	-	Pass	80	81	1
L1422056-04	SV-4	1060	6.0L Can	09/17/14	108458	L1420314-03	Pass	-29.4	-4.5	-	-	-	-
L1422056-05	CAN 1565	0309	#90 SV	09/17/14	108458		-	-	-	Pass	77	92	18
L1422056-05	CAN 1565	1565	6.0L Can	09/17/14	108458	L1420314-04	Pass	-29.3	-29.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03
Client ID: CAN 1526 SHELF 54
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/05/14 19:02
Analyst: MB

Date Collected: 09/04/14 14:50
Date Received: 09/05/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03
Client ID: CAN 1526 SHELF 54
Sample Location:
Date Collected: 09/04/14 14:50
Date Received: 09/05/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03 Date Collected: 09/04/14 14:50

Client ID: CAN 1526 SHELF 54 Date Received: 09/05/14

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03 Date Collected: 09/04/14 14:50

Client ID: CAN 1526 SHELF 54 Date Received: 09/05/14

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03 Date Collected: 09/04/14 14:50

Client ID: CAN 1526 SHELF 54 Date Received: 09/05/14

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03
Client ID: CAN 1526 SHELF 54
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/05/14 19:02
Analyst: MB

Date Collected: 09/04/14 14:50
Date Received: 09/05/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03 Date Collected: 09/04/14 14:50

Client ID: CAN 1526 SHELF 54 Date Received: 09/05/14

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-03
Client ID: CAN 1526 SHELF 54
Sample Location:
Date Collected: 09/04/14 14:50
Date Received: 09/05/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04
Client ID: CAN 790 SHELF 59
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/05/14 19:33
Analyst: MB

Date Collected: 09/04/14 14:56
Date Received: 09/05/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04
Client ID: CAN 790 SHELF 59
Sample Location:
Date Collected: 09/04/14 14:56
Date Received: 09/05/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04 Date Collected: 09/04/14 14:56

Client ID: CAN 790 SHELF 59 Date Received: 09/05/14

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04
Client ID: CAN 790 SHELF 59
Sample Location:
Date Collected: 09/04/14 14:56
Date Received: 09/05/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04 Date Collected: 09/04/14 14:56

Client ID: CAN 790 SHELF 59 Date Received: 09/05/14

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1420314

Project Number: CANISTER QC BAT **Report Date:** 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04
Client ID: CAN 790 SHELF 59
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/05/14 19:33
Analyst: MB

Date Collected: 09/04/14 14:56
Date Received: 09/05/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04
Client ID: CAN 790 SHELF 59
Sample Location:
Date Collected: 09/04/14 14:56
Date Received: 09/05/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1420314
Report Date: 09/25/14

Air Canister Certification Results

Lab ID: L1420314-04
Client ID: CAN 790 SHELF 59
Sample Location:
Date Collected: 09/04/14 14:56
Date Received: 09/05/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140

Project Name: Not Specified
Project Number: 11995

Lab Number: L1422056
Report Date: 09/25/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422056-01A	Canister - 6 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1422056-02A	Canister - 6 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1422056-03A	Canister - 6 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1422056-04A	Canister - 6 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1422056-05A	Canister - 6 Liter	N/A	NA		Y	Present/Intact	CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1422056
Project Number:	11995	**Report Date:**	09/25/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1422056
Project Number:	11995	**Report Date:**	09/25/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: Not Specified
Project Number: 11995
Lab Number: L1422056
Report Date: 09/25/14

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1422056

Client Information

Client: AKRF
Address: 440 Park Ave South. New York, NY Floor 7
Phone: 917 569 8916 (Asya Bychov - PM)
Fax:
Email: abychov@gl akrf.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 3875 9th Ave
Project #: 11995
Project Manager: ~~Asya~~ Ben Rao
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH *(only confirmed if pre-approved!)*
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS: TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
22056-01	SV-1	9/18/14	1241	1342	29.88	1.41	SV	JM	6L	646	0070		X						
-02	SV-2	9/18/14	1700	1750	28.93	5.35	SV	JM	6L	1526	0016		X						
-03	SV-3	9/18/14	1509	~~1509~~ 1557	~~1557~~ 31.22	7.81	SV	JM	6L	597	0341		X						
-04	SV-4	9/19/14	1441	1544	30.37	4.57	SV	JM	6L	1060	0337		X						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: 6S

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	9/19/14 1616		9-19-14 1616
	9-19-14 1925	Tom Tobin	9-19-14 1925
Tom Tobin	9-20-14 0100		9/20/14 0100

ANALYTICAL REPORT

Lab Number:	L1422008
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Asya Bychkov
Phone:	(646) 388-9533
Project Name:	3875 9TH AVE.
Project Number:	11995
Report Date:	09/29/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1422008-01	SB-3 (0-2')	SOIL	3875 9TH AVE NY, NY	09/19/14 13:45	09/19/14
L1422008-02	SB-6 (0-2')	SOIL	3875 9TH AVE NY, NY	09/19/14 09:00	09/19/14
L1422008-03	SB-6 (10-12')	SOIL	3875 9TH AVE NY, NY	09/19/14 09:10	09/19/14
L1422008-04	SB-7 (0-2')	SOIL	3875 9TH AVE NY, NY	09/19/14 11:20	09/19/14
L1422008-05	SB-7 (9-11')	SOIL	3875 9TH AVE NY, NY	09/19/14 11:50	09/19/14
L1422008-06	SB-5 (0-2')	SOIL	3875 9TH AVE NY, NY	09/19/14 10:15	09/19/14
L1422008-07	SB-5 (11-13')	SOIL	3875 9TH AVE NY, NY	09/19/14 10:45	09/19/14
L1422008-08	SB-3 (10-12')	SOIL	3875 9TH AVE NY, NY	09/19/14 13:55	09/19/14
L1422008-09	GW-3	WATER	3875 9TH AVE NY, NY	09/19/14 13:20	09/19/14
L1422008-10	TRIP BLANK	WATER	3875 9TH AVE NY, NY	09/19/14 00:00	09/19/14

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 3875 9TH AVE. **Lab Number:** L1422008
Project Number: 11995 **Report Date:** 09/29/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L1422008-09 has elevated detection limits due to limited sample volume available for analysis.

The WG725353-3 LCSD recovery, associated with L1422008-09, is below the acceptance criteria for benzoic acid (4%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

Semivolatile Organics by SIM

L1422008-09 has elevated detection limits due to limited sample volume available for analysis.

Total Metals

L1422008-01 through -08 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

The WG725042-4 MS recoveries, performed on L1422008-01, are outside the acceptance criteria for lead (73%), magnesium (55%), and zinc (72%). A post digestion spike was performed and yielded an unacceptable recovery for magnesium (78%); all other compounds were within acceptance criteria. This has been attributed to sample matrix.

The WG725042-4 MS recoveries for aluminum (1090%), calcium (0%), iron (0%), and manganese (197%), performed on L1422008-01, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG726123-4 MS recoveries for calcium (50%), iron (10%), and sodium (0%), performed on L1422008-09, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG726123-4 MS recovery, performed on L1422008-09, is outside the acceptance criteria for potassium (0%). A post digestion spike was performed and was within acceptance criteria.

Project Name: 3875 9TH AVE. **Lab Number:** L1422008
Project Number: 11995 **Report Date:** 09/29/14

Case Narrative (continued)

Dissolved Metals

The WG725669-1 Method Blank, associated with L1422008-09, has a concentration above the reporting limit for Sodium. Since the associated sample concentration is greater than 10x the blank concentration for this analyte, no qualification of the results was performed.

The WG725669-4 MS recoveries for calcium (130%), magnesium (0%), manganese (0%), and sodium (0%), performed on L1422008-09, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG725669-4 MS recoveries, performed on L1422008-09, are outside the acceptance criteria for iron (41%) and potassium (5%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/29/14

ORGANICS

VOLATILES

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-01
Client ID: SB-3 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 11:20
Analyst: BN
Percent Solids: 85%

Date Collected: 09/19/14 13:45
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	5.4		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.18	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.16	1
Chloromethane	ND		ug/kg	6.4	0.37	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	8.3		ug/kg	1.3	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.20	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-01 Date Collected: 09/19/14 13:45

Client ID: SB-3 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.11	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.22	1
Xylene (Total)	ND		ug/kg	2.5	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.18	1
1,2-Dichloroethene (total)	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	13	0.21	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.24	1
Acetone	12	J	ug/kg	13	1.3	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.35	1
Vinyl acetate	ND		ug/kg	13	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.21	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.35	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.29	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.4	0.26	1
n-Butylbenzene	ND		ug/kg	1.3	0.15	1
sec-Butylbenzene	ND		ug/kg	1.3	0.16	1
tert-Butylbenzene	ND		ug/kg	6.4	0.17	1
o-Chlorotoluene	ND		ug/kg	6.4	0.20	1
p-Chlorotoluene	ND		ug/kg	6.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.29	1
Isopropylbenzene	ND		ug/kg	1.3	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.16	1
Naphthalene	ND		ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.65	1
n-Propylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.18	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-01 Date Collected: 09/19/14 13:45

Client ID: SB-3 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.18	1
1,4-Dioxane	ND		ug/kg	130	18.	1
1,4-Diethylbenzene	ND		ug/kg	5.1	0.20	1
4-Ethyltoluene	ND		ug/kg	5.1	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.16	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	112		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02
Client ID: SB-6 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 11:46
Analyst: BN
Percent Solids: 88%

Date Collected: 09/19/14 09:00
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.16	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	1.3		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02 Date Collected: 09/19/14 09:00

Client ID: SB-6 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylene (Total)	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene (total)	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	13		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02 Date Collected: 09/19/14 09:00

Client ID: SB-6 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-03
Client ID: SB-6 (10-12')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 12:12
Analyst: BN
Percent Solids: 84%

Date Collected: 09/19/14 09:10
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.16	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-03 Date Collected: 09/19/14 09:10

Client ID: SB-6 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylene (Total)	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene (total)	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	53		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	3.8	J	ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-03 Date Collected: 09/19/14 09:10

Client ID: SB-6 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	113		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-04
Client ID: SB-7 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 12:39
Analyst: BN
Percent Solids: 86%

Date Collected: 09/19/14 11:20
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.48	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.30	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.5	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.5	0.18	1
Bromoform	ND		ug/kg	5.2	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.16	1
Chloromethane	ND		ug/kg	6.5	0.38	1
Bromomethane	ND		ug/kg	2.6	0.44	1
Vinyl chloride	ND		ug/kg	2.6	0.15	1
Chloroethane	ND		ug/kg	2.6	0.41	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.28	1
Trichloroethene	1.2	J	ug/kg	1.3	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.5	0.20	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-04 Date Collected: 09/19/14 11:20

Client ID: SB-7 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.5	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.11	1
p/m-Xylene	ND		ug/kg	2.6	0.26	1
o-Xylene	ND		ug/kg	2.6	0.22	1
Xylene (Total)	ND		ug/kg	2.6	0.22	1
cis-1,2-Dichloroethene	3.2		ug/kg	1.3	0.18	1
1,2-Dichloroethene (total)	3.2		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	13	0.21	1
Styrene	ND		ug/kg	2.6	0.52	1
Dichlorodifluoromethane	ND		ug/kg	13	0.25	1
Acetone	170		ug/kg	13	1.3	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	28		ug/kg	13	0.35	1
Vinyl acetate	ND		ug/kg	13	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.32	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.21	1
2-Hexanone	ND		ug/kg	13	0.86	1
Bromochloromethane	ND		ug/kg	6.5	0.36	1
2,2-Dichloropropane	ND		ug/kg	6.5	0.29	1
1,2-Dibromoethane	ND		ug/kg	5.2	0.23	1
1,3-Dichloropropane	ND		ug/kg	6.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.41	1
Bromobenzene	ND		ug/kg	6.5	0.27	1
n-Butylbenzene	ND		ug/kg	1.3	0.15	1
sec-Butylbenzene	ND		ug/kg	1.3	0.16	1
tert-Butylbenzene	ND		ug/kg	6.5	0.18	1
o-Chlorotoluene	ND		ug/kg	6.5	0.21	1
p-Chlorotoluene	ND		ug/kg	6.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.5	0.51	1
Hexachlorobutadiene	ND		ug/kg	6.5	0.30	1
Isopropylbenzene	ND		ug/kg	1.3	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.16	1
Naphthalene	ND		ug/kg	6.5	0.18	1
Acrylonitrile	ND		ug/kg	13	0.67	1
n-Propylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.5	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.5	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.5	0.19	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-04 Date Collected: 09/19/14 11:20

Client ID: SB-7 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.5	0.18	1
1,4-Dioxane	ND		ug/kg	130	19.	1
1,4-Diethylbenzene	ND		ug/kg	5.2	0.21	1
4-Ethyltoluene	ND		ug/kg	5.2	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.2	0.17	1
Ethyl ether	ND		ug/kg	6.5	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-05
Client ID: SB-7 (9-11')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 13:05
Analyst: BN
Percent Solids: 84%

Date Collected: 09/19/14 11:50
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.10	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.16	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-05 Date Collected: 09/19/14 11:50

Client ID: SB-7 (9-11') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylene (Total)	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene (total)	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	12		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	2.0	J	ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-05 Date Collected: 09/19/14 11:50

Client ID: SB-7 (9-11') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	112		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-06
Client ID: SB-5 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 13:32
Analyst: BN
Percent Solids: 90%

Date Collected: 09/19/14 10:15
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	21	2.4	1
1,1-Dichloroethane	ND		ug/kg	3.2	0.18	1
Chloroform	ND		ug/kg	3.2	0.79	1
Carbon tetrachloride	ND		ug/kg	2.1	0.45	1
1,2-Dichloropropane	ND		ug/kg	7.5	0.49	1
Dibromochloromethane	ND		ug/kg	2.1	0.33	1
1,1,2-Trichloroethane	ND		ug/kg	3.2	0.65	1
Tetrachloroethene	ND		ug/kg	2.1	0.30	1
Chlorobenzene	ND		ug/kg	2.1	0.74	1
Trichlorofluoromethane	ND		ug/kg	11	0.83	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	2.1	0.24	1
Bromodichloromethane	ND		ug/kg	2.1	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	2.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	2.1	0.25	1
1,1-Dichloropropene	ND		ug/kg	11	0.30	1
Bromoform	ND		ug/kg	8.5	0.50	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.1	0.22	1
Benzene	ND		ug/kg	2.1	0.25	1
Toluene	ND		ug/kg	3.2	0.42	1
Ethylbenzene	ND		ug/kg	2.1	0.27	1
Chloromethane	ND		ug/kg	11	0.63	1
Bromomethane	ND		ug/kg	4.3	0.72	1
Vinyl chloride	ND		ug/kg	4.3	0.25	1
Chloroethane	ND		ug/kg	4.3	0.68	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.56	1
trans-1,2-Dichloroethene	ND		ug/kg	3.2	0.45	1
Trichloroethene	ND		ug/kg	2.1	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	11	0.33	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-06 Date Collected: 09/19/14 10:15

Client ID: SB-5 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	11	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	11	0.30	1
Methyl tert butyl ether	ND		ug/kg	4.3	0.18	1
p/m-Xylene	ND		ug/kg	4.3	0.42	1
o-Xylene	ND		ug/kg	4.3	0.37	1
Xylene (Total)	ND		ug/kg	4.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.30	1
1,2-Dichloroethene (total)	ND		ug/kg	2.1	0.30	1
Dibromomethane	ND		ug/kg	21	0.35	1
Styrene	ND		ug/kg	4.3	0.86	1
Dichlorodifluoromethane	ND		ug/kg	21	0.41	1
Acetone	ND		ug/kg	21	2.2	1
Carbon disulfide	ND		ug/kg	21	2.4	1
2-Butanone	ND		ug/kg	21	0.58	1
Vinyl acetate	ND		ug/kg	21	0.28	1
4-Methyl-2-pentanone	ND		ug/kg	21	0.52	1
1,2,3-Trichloropropane	ND		ug/kg	21	0.35	1
2-Hexanone	ND		ug/kg	21	1.4	1
Bromochloromethane	ND		ug/kg	11	0.59	1
2,2-Dichloropropane	ND		ug/kg	11	0.48	1
1,2-Dibromoethane	ND		ug/kg	8.5	0.37	1
1,3-Dichloropropane	ND		ug/kg	11	0.31	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.1	0.68	1
Bromobenzene	ND		ug/kg	11	0.44	1
n-Butylbenzene	ND		ug/kg	2.1	0.24	1
sec-Butylbenzene	ND		ug/kg	2.1	0.26	1
tert-Butylbenzene	ND		ug/kg	11	0.29	1
o-Chlorotoluene	ND		ug/kg	11	0.34	1
p-Chlorotoluene	ND		ug/kg	11	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	0.85	1
Hexachlorobutadiene	ND		ug/kg	11	0.49	1
Isopropylbenzene	ND		ug/kg	2.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	2.1	0.27	1
Naphthalene	ND		ug/kg	11	0.30	1
Acrylonitrile	ND		ug/kg	21	1.1	1
n-Propylbenzene	ND		ug/kg	2.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	11	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	11	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	11	0.31	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-06 Date Collected: 09/19/14 10:15

Client ID: SB-5 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	11	0.30	1
1,4-Dioxane	ND		ug/kg	210	31.	1
1,4-Diethylbenzene	ND		ug/kg	8.5	0.34	1
4-Ethyltoluene	ND		ug/kg	8.5	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	8.5	0.28	1
Ethyl ether	ND		ug/kg	11	0.56	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	113		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-07
Client ID: SB-5 (11-13')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 13:58
Analyst: BN
Percent Solids: 81%

Date Collected: 09/19/14 10:45
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.16	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.8	0.34	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.14	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.18	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-07 Date Collected: 09/19/14 10:45

Client ID: SB-5 (11-13') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.23	1
o-Xylene	ND		ug/kg	2.3	0.20	1
Xylene (Total)	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene (total)	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
Vinyl acetate	ND		ug/kg	12	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.8	0.32	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.13	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.8	0.16	1
o-Chlorotoluene	ND		ug/kg	5.8	0.19	1
p-Chlorotoluene	ND		ug/kg	5.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.26	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.8	0.16	1
Acrylonitrile	ND		ug/kg	12	0.60	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.17	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-07 Date Collected: 09/19/14 10:45

Client ID: SB-5 (11-13') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,4-Dioxane	ND		ug/kg	120	17.	1
1,4-Diethylbenzene	ND		ug/kg	4.7	0.19	1
4-Ethyltoluene	ND		ug/kg	4.7	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	114		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-08
Client ID: SB-3 (10-12')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/26/14 14:25
Analyst: BN
Percent Solids: 85%

Date Collected: 09/19/14 13:55
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.1	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	26		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.41	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.12	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.15	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.12	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.3	0.31	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.12	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	40		ug/kg	1.1	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.16	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-08 Date Collected: 09/19/14 13:55

Client ID: SB-3 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	5.3	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.09	1
p/m-Xylene	ND		ug/kg	2.1	0.21	1
o-Xylene	ND		ug/kg	2.1	0.18	1
Xylene (Total)	ND		ug/kg	2.1	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
1,2-Dichloroethene (total)	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	11	0.17	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.20	1
Acetone	9.1	J	ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.29	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.17	1
2-Hexanone	ND		ug/kg	11	0.71	1
Bromochloromethane	ND		ug/kg	5.3	0.29	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.3	0.14	1
o-Chlorotoluene	ND		ug/kg	5.3	0.17	1
p-Chlorotoluene	ND		ug/kg	5.3	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.24	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.13	1
Naphthalene	ND		ug/kg	5.3	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	0.15	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-08 Date Collected: 09/19/14 13:55

Client ID: SB-3 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	0.15	1
1,4-Dioxane	ND		ug/kg	110	15.	1
1,4-Diethylbenzene	ND		ug/kg	4.3	0.17	1
4-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1
Ethyl ether	ND		ug/kg	5.3	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	114		70-130

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-09
Client ID: GW-3
Sample Location: 3875 9TH AVE NY, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/23/14 16:49
Analyst: PD

Date Collected: 09/19/14 13:20
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.63		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	1.0		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.50		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-09 Date Collected: 09/19/14 13:20

Client ID: GW-3 Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	3.2		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.96	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	0.96	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-09 Date Collected: 09/19/14 13:20

Client ID: GW-3 Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	81		70-130
Dibromofluoromethane	105		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-10
Client ID: TRIP BLANK
Sample Location: 3875 9TH AVE NY, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/25/14 16:13
Analyst: PD

Date Collected: 09/19/14 00:00
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-10 Date Collected: 09/19/14 00:00

Client ID: TRIP BLANK Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-10 Date Collected: 09/19/14 00:00

Client ID: TRIP BLANK Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	114		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 11:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG724584-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 11:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG724584-3					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 11:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG724584-3					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	104		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/25/14 14:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG725371-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/25/14 14:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG725371-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Diisopropyl Ether	ND		ug/l	2.0	0.65
Tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/25/14 14:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG725371-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/25/14 14:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG725371-3					
Iodomethane	ND		ug/l	5.0	5.0
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/26/14 08:42
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG726059-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/26/14 08:42
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG726059-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/26/14 08:42
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG726059-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	1.2	J	ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/26/14 08:42
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG726059-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
Methylene chloride	101		103		70-130	2		20
1,1-Dichloroethane	103		100		70-130	3		20
Chloroform	113		110		70-130	3		20
Carbon tetrachloride	103		100		63-132	3		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	94		94		63-130	0		20
1,1,2-Trichloroethane	99		102		70-130	3		20
Tetrachloroethene	90		88		70-130	2		20
Chlorobenzene	92		91		75-130	1		20
Trichlorofluoromethane	122		118		62-150	3		20
1,2-Dichloroethane	110		111		70-130	1		20
1,1,1-Trichloroethane	110		107		67-130	3		20
Bromodichloromethane	105		103		67-130	2		20
trans-1,3-Dichloropropene	99		100		70-130	1		20
cis-1,3-Dichloropropene	96		96		70-130	0		20
1,1-Dichloropropene	106		102		70-130	4		20
Bromoform	76		81		54-136	6		20
1,1,2,2-Tetrachloroethane	84		88		67-130	5		20
Benzene	100		98		70-130	2		20
Toluene	93		90		70-130	3		20
Ethylbenzene	96		95		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
Chloromethane	77		90		64-130	16		20
Bromomethane	116		119		39-139	3		20
Vinyl chloride	95		96		55-140	1		20
Chloroethane	109		108		55-138	1		20
1,1-Dichloroethene	102		96		61-145	6		20
trans-1,2-Dichloroethene	101		100		70-130	1		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	84		86		70-130	2		20
1,3-Dichlorobenzene	86		86		70-130	0		20
1,4-Dichlorobenzene	87		88		70-130	1		20
Methyl tert butyl ether	101		106		63-130	5		20
p/m-Xylene	96		95		70-130	1		20
o-Xylene	96		97		70-130	1		20
cis-1,2-Dichloroethene	103		102		70-130	1		20
Dibromomethane	101		103		70-130	2		20
1,2,3-Trichloropropane	88		96		64-130	9		20
Acrylonitrile	110		113		70-130	3		20
Styrene	107		106		70-130	1		20
Dichlorodifluoromethane	61		60		36-147	2		20
Acetone	131		133		58-148	2		20
Carbon disulfide	84		82		51-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
2-Butanone	138		**146**	Q	63-138	6		20
Vinyl acetate	105		107		70-130	2		20
4-Methyl-2-pentanone	82		87		59-130	6		20
2-Hexanone	101		107		57-130	6		20
Bromochloromethane	102		102		70-130	0		20
2,2-Dichloropropane	108		106		63-133	2		20
1,2-Dibromoethane	98		97		70-130	1		20
1,3-Dichloropropane	99		102		70-130	3		20
1,1,1,2-Tetrachloroethane	105		101		64-130	4		20
Bromobenzene	**68**	Q	**68**	Q	70-130	0		20
n-Butylbenzene	90		88		53-136	2		20
sec-Butylbenzene	82		79		70-130	4		20
tert-Butylbenzene	72		72		70-130	0		20
o-Chlorotoluene	80		79		70-130	1		20
p-Chlorotoluene	77		76		70-130	1		20
1,2-Dibromo-3-chloropropane	86		89		41-144	3		20
Hexachlorobutadiene	83		86		63-130	4		20
Isopropylbenzene	**66**	Q	**65**	Q	70-130	2		20
p-Isopropyltoluene	80		79		70-130	1		20
Naphthalene	85		92		70-130	8		20
n-Propylbenzene	73		72		69-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
1,2,3-Trichlorobenzene	87		93		70-130	7		20
1,2,4-Trichlorobenzene	85		88		70-130	3		20
1,3,5-Trimethylbenzene	83		82		64-130	1		20
1,2,4-Trimethylbenzene	80		78		70-130	3		20
1,4-Dioxane	97		90		56-162	7		20
p-Diethylbenzene	82		81		70-130	1		20
p-Ethyltoluene	77		76		70-130	1		20
1,2,4,5-Tetramethylbenzene	79		78		70-130	1		20
Ethyl ether	104		105		59-134	1		20
trans-1,4-Dichloro-2-butene	74		77		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		110		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	81		80		70-130
Dibromofluoromethane	109		109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG725371-1 WG725371-2								
Methylene chloride	100		99		70-130	3		20
1,1-Dichloroethane	104		104		70-130	9		20
Chloroform	107		107		70-130	7		20
2-Chloroethylvinyl ether	85		87		70-130	6		20
Carbon tetrachloride	108		108		63-132	12		20
1,2-Dichloropropane	99		101		70-130	6		20
Dibromochloromethane	92		94		63-130	8		20
1,1,2-Trichloroethane	97		95		70-130	1		20
Tetrachloroethene	103		100		70-130	3		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	120		120		62-150	14		20
1,2-Dichloroethane	106		107		70-130	11		20
1,1,1-Trichloroethane	109		108		67-130	9		20
Bromodichloromethane	102		104		67-130	9		20
trans-1,3-Dichloropropene	95		95		70-130	7		20
cis-1,3-Dichloropropene	100		102		70-130	5		20
1,1-Dichloropropene	107		108		70-130	9		20
Bromoform	88		91		54-136	8		20
1,1,2,2-Tetrachloroethane	87		89		67-130	5		20
Benzene	104		105		70-130	5		20
Toluene	101		100		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG725371-1 WG725371-2								
Ethylbenzene	106		105		70-130	5		20
Chloromethane	98		100		64-130	15		20
Bromomethane	56		61		39-139	2		20
Vinyl chloride	112		113		55-140	8		20
Chloroethane	124		123		55-138	8		20
1,1-Dichloroethene	114		116		61-145	7		20
trans-1,2-Dichloroethene	104		105		70-130	6		20
Trichloroethene	109		109		70-130	6		20
1,2-Dichlorobenzene	97		98		70-130	3		20
1,3-Dichlorobenzene	100		100		70-130	4		20
1,4-Dichlorobenzene	98		98		70-130	3		20
Methyl tert butyl ether	98		99		63-130	6		20
p/m-Xylene	110		110		70-130	4		20
o-Xylene	111		111		70-130	4		20
cis-1,2-Dichloroethene	104		103		70-130	5		20
Dibromomethane	98		100		70-130	6		20
1,2,3-Trichloropropane	94		96		64-130	8		20
Acrylonitrile	90		92		70-130	11		20
Diisopropyl Ether	101		102		70-130	11		20
Tert-Butyl Alcohol	82		82		70-130	5		20
Styrene	111		110		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG725371-1 WG725371-2								
Dichlorodifluoromethane	115		114		36-147	16		20
Acetone	70		75		58-148	13		20
Carbon disulfide	114		113		51-130	7		20
2-Butanone	75		78		63-138	1		20
Vinyl acetate	99		98		70-130	12		20
4-Methyl-2-pentanone	80		83		59-130	9		20
2-Hexanone	71		73		57-130	9		20
Acrolein	67		69		40-160	**42**	Q	20
Bromochloromethane	109		108		70-130	0		20
2,2-Dichloropropane	114		113		63-133	7		20
1,2-Dibromoethane	90		92		70-130	4		20
1,3-Dichloropropane	94		94		70-130	3		20
1,1,1,2-Tetrachloroethane	98		100		64-130	7		20
Bromobenzene	97		99		70-130	3		20
n-Butylbenzene	107		107		53-136	3		20
sec-Butylbenzene	109		108		70-130	6		20
tert-Butylbenzene	108		108		70-130	7		20
o-Chlorotoluene	102		105		70-130	5		20
p-Chlorotoluene	104		105		70-130	7		20
1,2-Dibromo-3-chloropropane	94		95		41-144	11		20
Hexachlorobutadiene	95		97		63-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG725371-1 WG725371-2								
Isopropylbenzene	107		108		70-130	8		20
p-Isopropyltoluene	109		108		70-130	4		20
Naphthalene	73		75		70-130	3		20
n-Propylbenzene	109		108		69-130	7		20
1,2,3-Trichlorobenzene	84		85		70-130	2		20
1,2,4-Trichlorobenzene	83		84		70-130	2		20
1,3,5-Trimethylbenzene	110		110		64-130	7		20
1,2,4-Trimethylbenzene	108		108		70-130	4		20
Methyl Acetate	87		88		70-130	10		20
Ethyl Acetate	88		90		70-130	9		20
Cyclohexane	109		110		70-130	14		20
Ethyl-Tert-Butyl-Ether	103		104		70-130	8		20
Tertiary-Amyl Methyl Ether	97		100		66-130	6		20
1,4-Dioxane	88		94		56-162	7		20
Freon-113	119		119		70-130	11		20
p-Diethylbenzene	107		106		70-130	2		20
p-Ethyltoluene	109		109		70-130	7		20
1,2,4,5-Tetramethylbenzene	103		102		70-130	5		20
Ethyl ether	108		106		59-134	4		20
trans-1,4-Dichloro-2-butene	84		87		70-130	15		20
Iodomethane	**47**	Q	**52**	Q	70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG725371-1 WG725371-2								
Methyl cyclohexane	110		108		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG726059-1 WG726059-2								
Methylene chloride	110		104		70-130	6		30
1,1-Dichloroethane	118		110		70-130	7		30
Chloroform	124		113		70-130	9		30
Carbon tetrachloride	129		116		70-130	11		30
1,2-Dichloropropane	116		107		70-130	8		30
Dibromochloromethane	104		100		70-130	4		30
2-Chloroethylvinyl ether	85		84		70-130	1		30
1,1,2-Trichloroethane	99		96		70-130	3		30
Tetrachloroethene	109		97		70-130	12		30
Chlorobenzene	101		95		70-130	6		30
Trichlorofluoromethane	106		94		70-139	12		30
1,2-Dichloroethane	123		118		70-130	4		30
1,1,1-Trichloroethane	126		111		70-130	13		30
Bromodichloromethane	119		115		70-130	3		30
trans-1,3-Dichloropropene	101		98		70-130	3		30
cis-1,3-Dichloropropene	114		109		70-130	4		30
1,1-Dichloropropene	115		102		70-130	12		30
Bromoform	91		91		70-130	0		30
1,1,2,2-Tetrachloroethane	92		92		70-130	0		30
Benzene	114		105		70-130	8		30
Toluene	96		88		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG726059-1 WG726059-2								
Ethylbenzene	101		93		70-130	8		30
Chloromethane	98		88		52-130	11		30
Bromomethane	122		110		57-147	10		30
Vinyl chloride	103		89		67-130	15		30
Chloroethane	125		112		50-151	11		30
1,1-Dichloroethene	117		104		65-135	12		30
trans-1,2-Dichloroethene	116		104		70-130	11		30
Trichloroethene	122		108		70-130	12		30
1,2-Dichlorobenzene	96		93		70-130	3		30
1,3-Dichlorobenzene	98		93		70-130	5		30
1,4-Dichlorobenzene	99		95		70-130	4		30
Methyl tert butyl ether	101		98		66-130	3		30
p/m-Xylene	98		90		70-130	9		30
o-Xylene	96		90		70-130	6		30
cis-1,2-Dichloroethene	111		105		70-130	6		30
Dibromomethane	112		109		70-130	3		30
Styrene	100		94		70-130	6		30
Dichlorodifluoromethane	86		74		30-146	15		30
Acetone	119		111		54-140	7		30
Carbon disulfide	115		104		59-130	10		30
2-Butanone	99		94		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG726059-1 WG726059-2								
Vinyl acetate	101		98		70-130	3		30
4-Methyl-2-pentanone	92		92		70-130	0		30
1,2,3-Trichloropropane	91		89		68-130	2		30
2-Hexanone	75		74		70-130	1		30
Bromochloromethane	117		108		70-130	8		30
2,2-Dichloropropane	124		112		70-130	10		30
1,2-Dibromoethane	93		91		70-130	2		30
1,3-Dichloropropane	96		93		69-130	3		30
1,1,1,2-Tetrachloroethane	105		99		70-130	6		30
Bromobenzene	90		86		70-130	5		30
n-Butylbenzene	98		88		70-130	11		30
sec-Butylbenzene	94		85		70-130	10		30
tert-Butylbenzene	91		83		70-130	9		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	95		88		70-130	8		30
1,2-Dibromo-3-chloropropane	83		84		68-130	1		30
Hexachlorobutadiene	106		96		67-130	10		30
Isopropylbenzene	88		81		70-130	8		30
p-Isopropyltoluene	92		83		70-130	10		30
Naphthalene	75		74		70-130	1		30
Acrylonitrile	107		104		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG726059-1 WG726059-2								
Isopropyl Ether	108		104		66-130	4		30
tert-Butyl Alcohol	99		100		70-130	1		30
n-Propylbenzene	94		85		70-130	10		30
1,2,3-Trichlorobenzene	95		92		70-130	3		30
1,2,4-Trichlorobenzene	107		101		70-130	6		30
1,3,5-Trimethylbenzene	93		87		70-130	7		30
1,2,4-Trimethylbenzene	91		86		70-130	6		30
Methyl Acetate	101		99		51-146	2		30
Ethyl Acetate	90		89		70-130	1		30
Cyclohexane	111		97		59-142	13		30
1,4-Dioxane	95		92		65-136	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	125		107		50-139	16		30
1,4-Diethylbenzene	92		84		70-130	9		30
4-Ethyltoluene	92		86		70-130	7		30
1,2,4,5-Tetramethylbenzene	84		79		70-130	6		30
Tetrahydrofuran	91		90		66-130	1		30
Ethyl ether	96		93		67-130	3		30
trans-1,4-Dichloro-2-butene	104		104		70-130	0		30
Methyl cyclohexane	105		91		70-130	14		30
Ethyl-Tert-Butyl-Ether	106		103		70-130	3		30
Tertiary-Amyl Methyl Ether	101		98		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG726059-1 WG726059-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		107		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	92		93		70-130
Dibromofluoromethane	108		108		70-130

SEMIVOLATILES

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-01	Date Collected:	09/19/14 13:45
Client ID:	SB-3 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/27/14 18:58		
Analyst:	AS		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	1800		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	98	J	ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-01 Date Collected: 09/19/14 13:45

Client ID: SB-3 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	870		ug/kg	110	37.	1
Benzo(a)pyrene	960		ug/kg	150	46.	1
Benzo(b)fluoranthene	1200		ug/kg	110	38.	1
Benzo(k)fluoranthene	440		ug/kg	110	36.	1
Chrysene	900		ug/kg	110	37.	1
Acenaphthylene	220		ug/kg	150	36.	1
Anthracene	180		ug/kg	110	32.	1
Benzo(ghi)perylene	680		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	540		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	680		ug/kg	150	42.	1
Pyrene	1600		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	63.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	62.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	57	J	ug/kg	190	41.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-01 Date Collected: 09/19/14 13:45

Client ID: SB-3 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	88		0-136
4-Terphenyl-d14	81		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02
Client ID: SB-6 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/27/14 19:23
Analyst: AS
Percent Solids: 88%

Date Collected: 09/19/14 09:00
Date Received: 09/19/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/24/14 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	120		ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02 Date Collected: 09/19/14 09:00

Client ID: SB-6 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	78	J	ug/kg	110	37.	1
Benzo(a)pyrene	79	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	120		ug/kg	110	38.	1
Benzo(k)fluoranthene	36	J	ug/kg	110	36.	1
Chrysene	86	J	ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	67	J	ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	61	J	ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	62	J	ug/kg	150	42.	1
Pyrene	120		ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02 Date Collected: 09/19/14 09:00

Client ID: SB-6 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	86		0-136
4-Terphenyl-d14	89		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-03	Date Collected:	09/19/14 09:10
Client ID:	SB-6 (10-12')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/27/14 19:49		
Analyst:	AS		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	ND		ug/kg	120	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-03 Date Collected: 09/19/14 09:10

Client ID: SB-6 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	120	38.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	39.	1
Benzo(k)fluoranthene	ND		ug/kg	120	37.	1
Chrysene	ND		ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	43.	1
Pyrene	ND		ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	63.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-03 Date Collected: 09/19/14 09:10

Client ID: SB-6 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	68		0-136
4-Terphenyl-d14	54		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-04	Date Collected:	09/19/14 11:20
Client ID:	SB-7 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/27/14 20:14		
Analyst:	AS		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	63.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	640		ug/kg	120	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	84	J	ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	300		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-04 Date Collected: 09/19/14 11:20

Client ID: SB-7 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	380		ug/kg	120	38.	1
Benzo(a)pyrene	400		ug/kg	150	47.	1
Benzo(b)fluoranthene	520		ug/kg	120	39.	1
Benzo(k)fluoranthene	220		ug/kg	120	37.	1
Chrysene	420		ug/kg	120	38.	1
Acenaphthylene	160		ug/kg	150	36.	1
Anthracene	140		ug/kg	120	32.	1
Benzo(ghi)perylene	360		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	220		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	69	J	ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	340		ug/kg	150	43.	1
Pyrene	570		ug/kg	120	37.	1
Biphenyl	ND		ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	85	J	ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	920	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	100	J	ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	45	J	ug/kg	190	41.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-04 Date Collected: 09/19/14 11:20

Client ID: SB-7 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	88		0-136
4-Terphenyl-d14	84		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-05	Date Collected:	09/19/14 11:50
Client ID:	SB-7 (9-11')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/27/14 20:40		
Analyst:	AS		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	800		ug/kg	160	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	64.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	55.	1
2-Chloronaphthalene	ND		ug/kg	190	64.	1
1,2-Dichlorobenzene	ND		ug/kg	190	64.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	50.	1
Fluoranthene	9100	E	ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	45.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	69.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	59.	1
Hexachlorobutadiene	ND		ug/kg	190	55.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	160	35.	1
Isophorone	ND		ug/kg	180	52.	1
Naphthalene	770		ug/kg	190	65.	1
Nitrobenzene	ND		ug/kg	180	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	58.	1
Bis(2-Ethylhexyl)phthalate	150	J	ug/kg	190	51.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	38.	1
Di-n-octylphthalate	ND		ug/kg	190	48.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	50.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-05 Date Collected: 09/19/14 11:50

Client ID: SB-7 (9-11') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	2800		ug/kg	120	38.	1
Benzo(a)pyrene	2600		ug/kg	160	48.	1
Benzo(b)fluoranthene	3100		ug/kg	120	39.	1
Benzo(k)fluoranthene	1300		ug/kg	120	37.	1
Chrysene	2800		ug/kg	120	38.	1
Acenaphthylene	160		ug/kg	160	36.	1
Anthracene	1600		ug/kg	120	32.	1
Benzo(ghi)perylene	1700		ug/kg	160	40.	1
Fluorene	980		ug/kg	190	56.	1
Phenanthrene	8200	E	ug/kg	120	38.	1
Dibenzo(a,h)anthracene	360		ug/kg	120	38.	1
Indeno(1,2,3-cd)Pyrene	1900		ug/kg	160	43.	1
Pyrene	7000		ug/kg	120	38.	1
Biphenyl	110	J	ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	55.	1
3-Nitroaniline	ND		ug/kg	190	54.	1
4-Nitroaniline	ND		ug/kg	190	53.	1
Dibenzofuran	700		ug/kg	190	65.	1
2-Methylnaphthalene	270		ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	59.	1
2,4-Dichlorophenol	ND		ug/kg	180	63.	1
2,4-Dimethylphenol	ND		ug/kg	190	58.	1
2-Nitrophenol	ND		ug/kg	420	61.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	940	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	71.	1
Pentachlorophenol	ND		ug/kg	160	42.	1
Phenol	ND		ug/kg	190	58.	1
2-Methylphenol	ND		ug/kg	190	63.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	64.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	810		ug/kg	190	42.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-05 Date Collected: 09/19/14 11:50

Client ID: SB-7 (9-11') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	103		0-136
4-Terphenyl-d14	93		18-120

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-05 D	Date Collected:	09/19/14 11:50
Client ID:	SB-7 (9-11')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/29/14 09:22		
Analyst:	AS		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	7600		ug/kg	230	72.	2
Phenanthrene	7200		ug/kg	230	76.	2

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-06	Date Collected:	09/19/14 10:15
Client ID:	SB-5 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/27/14 21:05		
Analyst:	AS		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	38.	1
1,2,4-Trichlorobenzene	190		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	74	J	ug/kg	180	59.	1
1,2-Dichlorobenzene	210		ug/kg	180	60.	1
1,3-Dichlorobenzene	220		ug/kg	180	57.	1
1,4-Dichlorobenzene	140	J	ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	450		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	230		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	36	J	ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-06 Date Collected: 09/19/14 10:15

Client ID: SB-5 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	210		ug/kg	110	36.	1
Benzo(a)pyrene	190		ug/kg	140	44.	1
Benzo(b)fluoranthene	300		ug/kg	110	37.	1
Benzo(k)fluoranthene	100	J	ug/kg	110	35.	1
Chrysene	250		ug/kg	110	36.	1
Acenaphthylene	150		ug/kg	140	34.	1
Anthracene	100	J	ug/kg	110	30.	1
Benzo(ghi)perylene	180		ug/kg	140	38.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	220		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	180		ug/kg	140	40.	1
Pyrene	370		ug/kg	110	35.	1
Biphenyl	ND		ug/kg	420	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	61.	1
2-Methylnaphthalene	110	J	ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	67	J	ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	57.	1
4-Nitrophenol	ND		ug/kg	260	59.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	67.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	39.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-06 Date Collected: 09/19/14 10:15

Client ID: SB-5 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	74		0-136
4-Terphenyl-d14	76		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-07	Date Collected:	09/19/14 10:45
Client ID:	SB-5 (11-13')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/27/14 21:31		
Analyst:	AS		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	42.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	66.	1
Hexachlorobenzene	ND		ug/kg	120	38.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	57.	1
2-Chloronaphthalene	ND		ug/kg	200	66.	1
1,2-Dichlorobenzene	ND		ug/kg	200	66.	1
1,3-Dichlorobenzene	ND		ug/kg	200	64.	1
1,4-Dichlorobenzene	ND		ug/kg	200	62.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	44.	1
2,6-Dinitrotoluene	ND		ug/kg	200	52.	1
Fluoranthene	ND		ug/kg	120	37.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	62.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	46.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	71.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	61.	1
Hexachlorobutadiene	ND		ug/kg	200	57.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	130	1
Hexachloroethane	ND		ug/kg	160	37.	1
Isophorone	ND		ug/kg	180	54.	1
Naphthalene	ND		ug/kg	200	67.	1
Nitrobenzene	ND		ug/kg	180	48.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	42.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	60.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	53.	1
Butyl benzyl phthalate	ND		ug/kg	200	40.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	50.	1
Diethyl phthalate	ND		ug/kg	200	43.	1
Dimethyl phthalate	ND		ug/kg	200	51.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-07 Date Collected: 09/19/14 10:45

Client ID: SB-5 (11-13') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	120	40.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	41.	1
Benzo(k)fluoranthene	ND		ug/kg	120	39.	1
Chrysene	ND		ug/kg	120	40.	1
Acenaphthylene	ND		ug/kg	160	38.	1
Anthracene	ND		ug/kg	120	34.	1
Benzo(ghi)perylene	ND		ug/kg	160	42.	1
Fluorene	ND		ug/kg	200	58.	1
Phenanthrene	ND		ug/kg	120	40.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	39.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	45.	1
Pyrene	ND		ug/kg	120	39.	1
Biphenyl	ND		ug/kg	460	67.	1
4-Chloroaniline	ND		ug/kg	200	53.	1
2-Nitroaniline	ND		ug/kg	200	57.	1
3-Nitroaniline	ND		ug/kg	200	56.	1
4-Nitroaniline	ND		ug/kg	200	55.	1
Dibenzofuran	ND		ug/kg	200	68.	1
2-Methylnaphthalene	ND		ug/kg	240	65.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	63.	1
Acetophenone	ND		ug/kg	200	63.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
P-Chloro-M-Cresol	ND		ug/kg	200	59.	1
2-Chlorophenol	ND		ug/kg	200	61.	1
2,4-Dichlorophenol	ND		ug/kg	180	66.	1
2,4-Dimethylphenol	ND		ug/kg	200	60.	1
2-Nitrophenol	ND		ug/kg	440	63.	1
4-Nitrophenol	ND		ug/kg	280	66.	1
2,4-Dinitrophenol	ND		ug/kg	970	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	74.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	60.	1
2-Methylphenol	ND		ug/kg	200	65.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	66.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	66.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	44.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-07 Date Collected: 09/19/14 10:45

Client ID: SB-5 (11-13') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	92		0-136
4-Terphenyl-d14	61		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-08	Date Collected:	09/19/14 13:55
Client ID:	SB-3 (10-12')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	09/24/14 17:06
Analytical Date:	09/27/14 21:56		
Analyst:	AS		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	49.	1
Fluoranthene	83	J	ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	67.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	57.	1
Bis(2-Ethylhexyl)phthalate	170	J	ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	47.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-08 Date Collected: 09/19/14 13:55

Client ID: SB-3 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	48	J	ug/kg	110	37.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	52	J	ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	43	J	ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	110	32.	1
Benzo(ghi)perylene	ND		ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	59	J	ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	74	J	ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	63.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	61.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	59.	1
Acetophenone	ND		ug/kg	190	59.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	62.	1
2,4-Dimethylphenol	ND		ug/kg	190	57.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	270	62.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	70.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	62.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-08 Date Collected: 09/19/14 13:55

Client ID: SB-3 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	97		0-136
4-Terphenyl-d14	66		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-09	Date Collected:	09/19/14 13:20
Client ID:	GW-3	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	09/25/14 16:12
Analytical Date:	09/28/14 19:28		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	10	0.42	1
Bis(2-chloroethyl)ether	ND		ug/l	4.0	0.82	1
1,2-Dichlorobenzene	ND		ug/l	4.0	0.60	1
1,3-Dichlorobenzene	ND		ug/l	4.0	0.70	1
1,4-Dichlorobenzene	ND		ug/l	4.0	0.65	1
3,3'-Dichlorobenzidine	ND		ug/l	10	0.96	1
2,4-Dinitrotoluene	ND		ug/l	10	2.1	1
2,6-Dinitrotoluene	ND		ug/l	10	1.8	1
4-Chlorophenyl phenyl ether	ND		ug/l	4.0	0.71	1
4-Bromophenyl phenyl ether	ND		ug/l	4.0	0.86	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.0	1.2	1
Bis(2-chloroethoxy)methane	ND		ug/l	10	1.2	1
Hexachlorocyclopentadiene	ND		ug/l	40	1.2	1
Isophorone	ND		ug/l	10	1.6	1
Nitrobenzene	ND		ug/l	4.0	0.80	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	4.0	0.68	1
n-Nitrosodi-n-propylamine	ND		ug/l	10	1.3	1
Bis(2-Ethylhexyl)phthalate	9.8		ug/l	6.0	1.8	1
Butyl benzyl phthalate	ND		ug/l	10	2.3	1
Di-n-butylphthalate	ND		ug/l	10	1.5	1
Di-n-octylphthalate	ND		ug/l	10	2.4	1
Diethyl phthalate	ND		ug/l	10	0.79	1
Dimethyl phthalate	ND		ug/l	10	0.67	1
Biphenyl	ND		ug/l	4.0	0.47	1
4-Chloroaniline	ND		ug/l	10	1.7	1
2-Nitroaniline	ND		ug/l	10	1.9	1
3-Nitroaniline	ND		ug/l	10	1.3	1
4-Nitroaniline	ND		ug/l	10	1.7	1
Dibenzofuran	ND		ug/l	4.0	0.44	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	0.71	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-09 Date Collected: 09/19/14 13:20

Client ID: GW-3 Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	10	0.86	1
2,4,6-Trichlorophenol	ND		ug/l	10	1.6	1
P-Chloro-M-Cresol	ND		ug/l	4.0	1.1	1
2-Chlorophenol	ND		ug/l	4.0	1.2	1
2,4-Dichlorophenol	ND		ug/l	10	1.1	1
2,4-Dimethylphenol	ND		ug/l	10	1.2	1
2-Nitrophenol	ND		ug/l	20	2.1	1
4-Nitrophenol	ND		ug/l	20	2.2	1
2,4-Dinitrophenol	ND		ug/l	40	2.8	1
4,6-Dinitro-o-cresol	ND		ug/l	20	2.7	1
Phenol	ND		ug/l	10	0.54	1
2-Methylphenol	ND		ug/l	10	1.4	1
3-Methylphenol/4-Methylphenol	ND		ug/l	10	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	10	1.5	1
Benzoic Acid	ND		ug/l	100	2.0	1
Benzyl Alcohol	ND		ug/l	4.0	1.4	1
Carbazole	ND		ug/l	4.0	0.75	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	75		41-149

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-09	Date Collected:	09/19/14 13:20
Client ID:	GW-3	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	09/25/14 16:17
Analytical Date:	09/26/14 16:57		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.40	0.13	1
2-Chloronaphthalene	ND		ug/l	0.40	0.13	1
Fluoranthene	ND		ug/l	0.40	0.09	1
Hexachlorobutadiene	ND		ug/l	1.0	0.14	1
Naphthalene	ND		ug/l	0.40	0.13	1
Benzo(a)anthracene	ND		ug/l	0.40	0.11	1
Benzo(a)pyrene	ND		ug/l	0.40	0.14	1
Benzo(b)fluoranthene	ND		ug/l	0.40	0.14	1
Benzo(k)fluoranthene	ND		ug/l	0.40	0.14	1
Chrysene	ND		ug/l	0.40	0.10	1
Acenaphthylene	ND		ug/l	0.40	0.10	1
Anthracene	ND		ug/l	0.40	0.13	1
Benzo(ghi)perylene	ND		ug/l	0.40	0.14	1
Fluorene	ND		ug/l	0.40	0.11	1
Phenanthrene	ND		ug/l	0.40	0.13	1
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.15	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.40	0.16	1
Pyrene	0.14	J	ug/l	0.40	0.11	1
2-Methylnaphthalene	ND		ug/l	0.40	0.12	1
Pentachlorophenol	ND		ug/l	1.6	0.37	1
Hexachlorobenzene	ND		ug/l	1.6	0.03	1
Hexachloroethane	ND		ug/l	1.6	0.13	1

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-09 Date Collected: 09/19/14 13:20

Client ID: GW-3 Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	78		41-149

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/27/14 15:33
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 09/24/14 17:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG724957-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	100	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	100	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	480	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/27/14 15:33
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 09/24/14 17:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG724957-1					
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	100	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	34.
Benzo(k)fluoranthene	ND		ug/kg	100	32.
Chrysene	ND		ug/kg	100	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	100	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	48.
Phenanthrene	ND		ug/kg	100	32.
Dibenzo(a,h)anthracene	ND		ug/kg	100	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	100	32.
Biphenyl	ND		ug/kg	380	55.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/27/14 15:33
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 09/24/14 17:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG724957-1					
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.
Benzaldehyde	ND		ug/kg	220	67.
Caprolactam	ND		ug/kg	160	46.
Atrazine	ND		ug/kg	130	38.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	79		0-136
4-Terphenyl-d14	89		18-120

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/26/14 15:41
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG725353-1					
Acenaphthene	ND		ug/l	2.0	0.28
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Hexachlorobenzene	ND		ug/l	2.0	0.40
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
2-Chloronaphthalene	ND		ug/l	2.0	0.46
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
Fluoranthene	ND		ug/l	2.0	0.40
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorobutadiene	ND		ug/l	2.0	0.42
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Hexachloroethane	ND		ug/l	2.0	0.30
Isophorone	ND		ug/l	5.0	0.79
Naphthalene	ND		ug/l	2.0	0.33
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	1.9	J	ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/26/14 15:41
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG725353-1					
Dimethyl phthalate	ND		ug/l	5.0	0.33
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.66
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30
Chrysene	ND		ug/l	2.0	0.30
Acenaphthylene	ND		ug/l	2.0	0.37
Anthracene	ND		ug/l	2.0	0.20
Benzo(ghi)perylene	ND		ug/l	2.0	0.57
Fluorene	ND		ug/l	2.0	0.32
Phenanthrene	ND		ug/l	2.0	0.23
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43
Pyrene	ND		ug/l	2.0	0.52
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
2-Methylnaphthalene	ND		ug/l	2.0	0.36
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/26/14 15:41
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG725353-1					
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Pentachlorophenol	ND		ug/l	10	3.2
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	62		41-149

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/26/14 12:22
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG725358-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/26/14 12:22
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG725358-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	74		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG724957-2 WG724957-3								
Acenaphthene	76		93		31-137	20		50
1,2,4-Trichlorobenzene	66		86		38-107	26		50
Hexachlorobenzene	83		97		40-140	16		50
Bis(2-chloroethyl)ether	62		84		40-140	30		50
2-Chloronaphthalene	75		92		40-140	20		50
1,2-Dichlorobenzene	60		81		40-140	30		50
1,3-Dichlorobenzene	59		80		40-140	30		50
1,4-Dichlorobenzene	58		80		28-104	32		50
3,3'-Dichlorobenzidine	91		103		40-140	12		50
2,4-Dinitrotoluene	**90**	Q	**107**	Q	28-89	17		50
2,6-Dinitrotoluene	88		103		40-140	16		50
Fluoranthene	94		103		40-140	9		50
4-Chlorophenyl phenyl ether	79		95		40-140	18		50
4-Bromophenyl phenyl ether	80		97		40-140	19		50
Bis(2-chloroisopropyl)ether	68		93		40-140	31		50
Bis(2-chloroethoxy)methane	69		87		40-117	23		50
Hexachlorobutadiene	62		83		40-140	29		50
Hexachlorocyclopentadiene	59		87		40-140	38		50
Hexachloroethane	53		75		40-140	34		50
Isophorone	71		88		40-140	21		50
Naphthalene	66		86		40-140	26		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG724957-2 WG724957-3								
Nitrobenzene	65		85		40-140	27		50
NitrosoDiPhenylAmine(NDPA)/DPA	86		102			17		50
n-Nitrosodi-n-propylamine	70		89		32-121	24		50
Bis(2-Ethylhexyl)phthalate	95		108		40-140	13		50
Butyl benzyl phthalate	99		112		40-140	12		50
Di-n-butylphthalate	93		104		40-140	11		50
Di-n-octylphthalate	81		93		40-140	14		50
Diethyl phthalate	85		100		40-140	16		50
Dimethyl phthalate	82		97		40-140	17		50
Benzo(a)anthracene	87		97		40-140	11		50
Benzo(a)pyrene	91		103		40-140	12		50
Benzo(b)fluoranthene	87		97		40-140	11		50
Benzo(k)fluoranthene	90		99		40-140	10		50
Chrysene	83		91		40-140	9		50
Acenaphthylene	78		92		40-140	16		50
Anthracene	86		100		40-140	15		50
Benzo(ghi)perylene	90		100		40-140	11		50
Fluorene	81		97		40-140	18		50
Phenanthrene	86		98		40-140	13		50
Dibenzo(a,h)anthracene	86		100		40-140	15		50
Indeno(1,2,3-cd)Pyrene	83		94		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG724957-2 WG724957-3								
Pyrene	91		102		35-142	11		50
Biphenyl	76		94			21		50
4-Chloroaniline	74		91		40-140	21		50
2-Nitroaniline	90		108		47-134	18		50
3-Nitroaniline	86		100		26-129	15		50
4-Nitroaniline	94		106		41-125	12		50
Dibenzofuran	80		98		40-140	20		50
2-Methylnaphthalene	75		95		40-140	24		50
1,2,4,5-Tetrachlorobenzene	73		92		40-117	23		50
Acetophenone	71		93		14-144	27		50
2,4,6-Trichlorophenol	87		106		30-130	20		50
P-Chloro-M-Cresol	86		**104**	Q	26-103	19		50
2-Chlorophenol	71		96		25-102	30		50
2,4-Dichlorophenol	82		100		30-130	20		50
2,4-Dimethylphenol	80		94		30-130	16		50
2-Nitrophenol	75		99		30-130	28		50
4-Nitrophenol	103		**118**	Q	11-114	14		50
2,4-Dinitrophenol	66		73		4-130	10		50
4,6-Dinitro-o-cresol	80		96		10-130	18		50
Pentachlorophenol	82		94		17-109	14		50
Phenol	71		**92**	Q	26-90	26		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG724957-2 WG724957-3								
2-Methylphenol	77		97		30-130.	23		50
3-Methylphenol/4-Methylphenol	77		96		30-130	22		50
2,4,5-Trichlorophenol	91		105		30-130	14		50
Benzoic Acid	30		29			3		50
Benzyl Alcohol	70		91		40-140	26		50
Carbazole	96		106		54-128	10		50
Benzaldehyde	59		79			29		50
Caprolactam	88		100			13		50
Atrazine	114		128			12		50
2,3,4,6-Tetrachlorophenol	86		103			18		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		94		25-120
Phenol-d6	75		100		10-120
Nitrobenzene-d5	68		92		23-120
2-Fluorobiphenyl	72		90		30-120
2,4,6-Tribromophenol	86		103		0-136
4-Terphenyl-d14	94		106		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG725353-2 WG725353-3								
Acenaphthene	60		58		37-111	3		30
1,2,4-Trichlorobenzene	48		48		39-98	0		30
Hexachlorobenzene	61		58		40-140	5		30
Bis(2-chloroethyl)ether	62		57		40-140	8		30
2-Chloronaphthalene	59		57		40-140	3		30
1,2-Dichlorobenzene	44		45		40-140	2		30
1,3-Dichlorobenzene	42		42		40-140	0		30
1,4-Dichlorobenzene	41		42		36-97	2		30
3,3'-Dichlorobenzidine	63		56		40-140	12		30
2,4-Dinitrotoluene	69		63		24-96	9		30
2,6-Dinitrotoluene	70		62		40-140	12		30
Fluoranthene	68		64		40-140	6		30
4-Chlorophenyl phenyl ether	66		61		40-140	8		30
4-Bromophenyl phenyl ether	65		63		40-140	3		30
Bis(2-chloroisopropyl)ether	69		63		40-140	9		30
Bis(2-chloroethoxy)methane	67		60		40-140	11		30
Hexachlorobutadiene	41		43		40-140	5		30
Hexachlorocyclopentadiene	**39**	Q	**39**	Q	40-140	0		30
Hexachloroethane	40		42		40-140	5		30
Isophorone	66		60		40-140	10		30
Naphthalene	52		51		40-140	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG725353-2 WG725353-3								
Nitrobenzene	64		58		40-140	10		30
NitrosoDiPhenylAmine(NDPA)/DPA	67		62		40-140	8		30
n-Nitrosodi-n-propylamine	66		62		29-132	6		30
Bis(2-Ethylhexyl)phthalate	83		77		40-140	8		30
Butyl benzyl phthalate	73		68		40-140	7		30
Di-n-butylphthalate	71		65		40-140	9		30
Di-n-octylphthalate	77		70		40-140	10		30
Diethyl phthalate	69		64		40-140	8		30
Dimethyl phthalate	68		62		40-140	9		30
Benzo(a)anthracene	72		63		40-140	13		30
Benzo(a)pyrene	69		62		40-140	11		30
Benzo(b)fluoranthene	71		64		40-140	10		30
Benzo(k)fluoranthene	73		65		40-140	12		30
Chrysene	71		63		40-140	12		30
Acenaphthylene	64		58		45-123	10		30
Anthracene	67		62		40-140	8		30
Benzo(ghi)perylene	64		59		40-140	8		30
Fluorene	64		60		40-140	6		30
Phenanthrene	67		61		40-140	9		30
Dibenzo(a,h)anthracene	66		60		40-140	10		30
Indeno(1,2,3-cd)Pyrene	65		58		40-140	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG725353-2 WG725353-3								
Pyrene	67		63		26-127	6		30
Biphenyl	69		67			3		30
4-Chloroaniline	83		79		40-140	5		30
2-Nitroaniline	72		65		52-143	10		30
3-Nitroaniline	61		62		25-145	2		30
4-Nitroaniline	70		65		51-143	7		30
Dibenzofuran	62		60		40-140	3		30
2-Methylnaphthalene	56		54		40-140	4		30
1,2,4,5-Tetrachlorobenzene	66		62		2-134	6		30
Acetophenone	81		71		39-129	13		30
2,4,6-Trichlorophenol	72		64		30-130	12		30
P-Chloro-M-Cresol	72		64		23-97	12		30
2-Chlorophenol	61		57		27-123	7		30
2,4-Dichlorophenol	72		64		30-130	12		30
2,4-Dimethylphenol	72		63		30-130	13		30
2-Nitrophenol	65		59		30-130	10		30
4-Nitrophenol	52		48		10-80	8		30
2,4-Dinitrophenol	48		46		20-130	4		30
4,6-Dinitro-o-cresol	51		50		20-164	2		30
Pentachlorophenol	87		78		9-103	11		30
Phenol	29		27		12-110	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG725353-2 WG725353-3								
2-Methylphenol	58		51		30-130	13		30
3-Methylphenol/4-Methylphenol	59		55		30-130	7		30
2,4,5-Trichlorophenol	78		66		30-130	17		30
Benzoic Acid	11		4	Q		**91**	Q	30
Benzyl Alcohol	61		55			10		30
Carbazole	72		65		55-144	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	42		38		21-120
Phenol-d6	30		26		10-120
Nitrobenzene-d5	72		63		23-120
2-Fluorobiphenyl	68		58		15-120
2,4,6-Tribromophenol	74		64		10-120
4-Terphenyl-d14	69		61		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG725358-2 WG725358-3								
Acenaphthene	76		74		37-111	3		40
2-Chloronaphthalene	76		74		40-140	3		40
Fluoranthene	84		80		40-140	5		40
Hexachlorobutadiene	65		64		40-140	2		40
Naphthalene	72		71		40-140	1		40
Benzo(a)anthracene	84		80		40-140	5		40
Benzo(a)pyrene	85		81		40-140	5		40
Benzo(b)fluoranthene	84		80		40-140	5		40
Benzo(k)fluoranthene	78		75		40-140	4		40
Chrysene	78		74		40-140	5		40
Acenaphthylene	81		78		40-140	4		40
Anthracene	80		77		40-140	4		40
Benzo(ghi)perylene	84		80		40-140	5		40
Fluorene	81		78		40-140	4		40
Phenanthrene	79		76		40-140	4		40
Dibenzo(a,h)anthracene	85		82		40-140	4		40
Indeno(1,2,3-cd)Pyrene	85		82		40-140	4		40
Pyrene	84		80		26-127	5		40
2-Methylnaphthalene	78		76		40-140	3		40
Pentachlorophenol	78		75		9-103	4		40
Hexachlorobenzene	81		78		40-140	4		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG725358-2 WG725358-3								
Hexachloroethane	66		64		40-140	3		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	44		43		21-120
Phenol-d6	32		30		10-120
Nitrobenzene-d5	74		71		23-120
2-Fluorobiphenyl	71		70		15-120
2,4,6-Tribromophenol	84		82		10-120
4-Terphenyl-d14	80		77		41-149

PCBS

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-01	Date Collected:	09/19/14 13:45
Client ID:	SB-3 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/26/14 20:16	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	85%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	2.99	1	A
Aroclor 1221	ND		ug/kg	37.8	3.49	1	A
Aroclor 1232	ND		ug/kg	37.8	4.44	1	A
Aroclor 1242	ND		ug/kg	37.8	4.63	1	A
Aroclor 1248	ND		ug/kg	37.8	3.19	1	A
Aroclor 1254	ND		ug/kg	37.8	3.11	1	A
Aroclor 1260	15.9	J	ug/kg	37.8	2.88	1	B
Aroclor 1262	ND		ug/kg	37.8	1.88	1	A
Aroclor 1268	ND		ug/kg	37.8	5.49	1	A
PCBs, Total	15.9	J	ug/kg	37.8	1.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	39		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-02	Date Collected:	09/19/14 09:00
Client ID:	SB-6 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/26/14 20:28	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	88%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	2.88	1	A
Aroclor 1221	ND		ug/kg	36.5	3.36	1	A
Aroclor 1232	ND		ug/kg	36.5	4.27	1	A
Aroclor 1242	ND		ug/kg	36.5	4.46	1	A
Aroclor 1248	ND		ug/kg	36.5	3.08	1	A
Aroclor 1254	ND		ug/kg	36.5	3.00	1	A
Aroclor 1260	18.3	J	ug/kg	36.5	2.78	1	B
Aroclor 1262	ND		ug/kg	36.5	1.81	1	A
Aroclor 1268	ND		ug/kg	36.5	5.29	1	A
PCBs, Total	18.3	J	ug/kg	36.5	1.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-03	Date Collected:	09/19/14 09:10
Client ID:	SB-6 (10-12')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/26/14 20:41	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	84%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	3.02	1	A
Aroclor 1221	ND		ug/kg	38.3	3.53	1	A
Aroclor 1232	ND		ug/kg	38.3	4.48	1	A
Aroclor 1242	ND		ug/kg	38.3	4.68	1	A
Aroclor 1248	ND		ug/kg	38.3	3.23	1	A
Aroclor 1254	ND		ug/kg	38.3	3.14	1	A
Aroclor 1260	ND		ug/kg	38.3	2.92	1	A
Aroclor 1262	ND		ug/kg	38.3	1.90	1	A
Aroclor 1268	ND		ug/kg	38.3	5.55	1	A
PCBs, Total	ND		ug/kg	38.3	1.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-04 D	Date Collected:	09/19/14 11:20
Client ID:	SB-7 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/28/14 22:57	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	86%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	73.9	5.84	2	A
Aroclor 1221	ND		ug/kg	73.9	6.81	2	A
Aroclor 1232	ND		ug/kg	73.9	8.66	2	A
Aroclor 1242	ND		ug/kg	73.9	9.04	2	A
Aroclor 1248	ND		ug/kg	73.9	6.24	2	A
Aroclor 1254	610		ug/kg	73.9	6.07	2	B
Aroclor 1260	179		ug/kg	73.9	5.63	2	B
Aroclor 1262	ND		ug/kg	73.9	3.66	2	A
Aroclor 1268	ND		ug/kg	73.9	10.7	2	A
PCBs, Total	789		ug/kg	73.9	3.66	2	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-05	Date Collected:	09/19/14 11:50
Client ID:	SB-7 (9-11')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/26/14 21:05	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	84%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	2.96	1	A
Aroclor 1221	ND		ug/kg	37.5	3.46	1	A
Aroclor 1232	ND		ug/kg	37.5	4.39	1	A
Aroclor 1242	ND		ug/kg	37.5	4.59	1	A
Aroclor 1248	ND		ug/kg	37.5	3.16	1	A
Aroclor 1254	9.43	J	ug/kg	37.5	3.08	1	B
Aroclor 1260	ND		ug/kg	37.5	2.86	1	A
Aroclor 1262	ND		ug/kg	37.5	1.86	1	A
Aroclor 1268	ND		ug/kg	37.5	5.43	1	A
PCBs, Total	9.43	J	ug/kg	37.5	1.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	32		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-06	Date Collected:	09/19/14 10:15
Client ID:	SB-5 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/26/14 21:18	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	90%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	2.79	1	A
Aroclor 1221	ND		ug/kg	35.3	3.26	1	A
Aroclor 1232	ND		ug/kg	35.3	4.14	1	A
Aroclor 1242	ND		ug/kg	35.3	4.32	1	A
Aroclor 1248	ND		ug/kg	35.3	2.98	1	A
Aroclor 1254	ND		ug/kg	35.3	2.90	1	A
Aroclor 1260	424		ug/kg	35.3	2.69	1	B
Aroclor 1262	ND		ug/kg	35.3	1.75	1	A
Aroclor 1268	ND		ug/kg	35.3	5.12	1	A
PCBs, Total	424		ug/kg	35.3	1.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-07	Date Collected:	09/19/14 10:45
Client ID:	SB-5 (11-13')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/26/14 21:30	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	81%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.6	3.21	1	A
Aroclor 1221	ND		ug/kg	40.6	3.74	1	A
Aroclor 1232	ND		ug/kg	40.6	4.76	1	A
Aroclor 1242	ND		ug/kg	40.6	4.97	1	A
Aroclor 1248	ND		ug/kg	40.6	3.43	1	A
Aroclor 1254	ND		ug/kg	40.6	3.34	1	A
Aroclor 1260	ND		ug/kg	40.6	3.09	1	A
Aroclor 1262	ND		ug/kg	40.6	2.01	1	A
Aroclor 1268	ND		ug/kg	40.6	5.89	1	A
PCBs, Total	ND		ug/kg	40.6	2.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-08	Date Collected:	09/19/14 13:55
Client ID:	SB-3 (10-12')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/25/14 08:09
Analytical Date:	09/26/14 21:43	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	09/26/14
Percent Solids:	85%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	2.97	1	A
Aroclor 1221	ND		ug/kg	37.6	3.47	1	A
Aroclor 1232	ND		ug/kg	37.6	4.41	1	A
Aroclor 1242	ND		ug/kg	37.6	4.60	1	A
Aroclor 1248	ND		ug/kg	37.6	3.17	1	A
Aroclor 1254	ND		ug/kg	37.6	3.09	1	A
Aroclor 1260	ND		ug/kg	37.6	2.86	1	A
Aroclor 1262	ND		ug/kg	37.6	1.86	1	A
Aroclor 1268	ND		ug/kg	37.6	5.45	1	A
PCBs, Total	ND		ug/kg	37.6	1.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-09	Date Collected:	09/19/14 13:20
Client ID:	GW-3	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	09/22/14 16:37
Analytical Date:	09/25/14 08:02	Cleanup Method:	EPA 3665A
Analyst:	TQ	Cleanup Date:	09/24/14
		Cleanup Method:	EPA 3660B
		Cleanup Date:	09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/25/14 05:53
Analyst: TQ

Extraction Method: EPA 3510C
Extraction Date: 09/22/14 16:37
Cleanup Method: EPA 3665A
Cleanup Date: 09/24/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 09 Batch: WG724207-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A
PCBs, Total	ND		ug/l	0.083	0.029	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	66		30-150	A

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/26/14 22:07
Analyst: JT

Extraction Method: EPA 3546
Extraction Date: 09/25/14 08:09
Cleanup Method: EPA 3665A
Cleanup Date: 09/26/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-08 Batch: WG725152-1						
Aroclor 1016	ND		ug/kg	31.7	2.50	A
Aroclor 1221	ND		ug/kg	31.7	2.92	A
Aroclor 1232	ND		ug/kg	31.7	3.71	A
Aroclor 1242	ND		ug/kg	31.7	3.88	A
Aroclor 1248	ND		ug/kg	31.7	2.67	A
Aroclor 1254	ND		ug/kg	31.7	2.60	A
Aroclor 1260	ND		ug/kg	31.7	2.41	A
Aroclor 1262	ND		ug/kg	31.7	1.57	A
Aroclor 1268	ND		ug/kg	31.7	4.59	A
PCBs, Total	ND		ug/kg	31.7	1.57	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 09 Batch: WG724207-2 WG724207-3									
Aroclor 1016	76		78		40-140	2		50	A
Aroclor 1260	101		96		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		60		30-150	B
Decachlorobiphenyl	85		103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		57		30-150	A
Decachlorobiphenyl	76		89		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-08 Batch: WG725152-2 WG725152-3									
Aroclor 1016	61		60		40-140	2		50	A
Aroclor 1260	60		53		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		56		30-150	A
Decachlorobiphenyl	48		45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		64		30-150	B
Decachlorobiphenyl	59		54		30-150	B

PESTICIDES

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-01	Date Collected:	09/19/14 13:45
Client ID:	SB-3 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 16:09	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.402	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.748	0.307	1	A
Endrin ketone	ND		ug/kg	1.80	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.80	0.415	1	A
4,4'-DDD	ND		ug/kg	1.80	0.640	1	A
4,4'-DDT	ND		ug/kg	3.37	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.43	1	A
cis-Chlordane	ND		ug/kg	2.24	0.625	1	A
trans-Chlordane	ND		ug/kg	2.24	0.592	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	74		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-02	Date Collected:	09/19/14 09:00
Client ID:	SB-6 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 16:21	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.353	1	A
Lindane	ND		ug/kg	0.751	0.336	1	A
Alpha-BHC	ND		ug/kg	0.751	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.683	1	A
Heptachlor	ND		ug/kg	0.901	0.404	1	A
Aldrin	ND		ug/kg	1.80	0.634	1	A
Heptachlor epoxide	ND		ug/kg	3.38	1.01	1	A
Endrin	ND		ug/kg	0.751	0.308	1	A
Endrin ketone	ND		ug/kg	1.80	0.464	1	A
Dieldrin	ND		ug/kg	1.13	0.563	1	A
4,4'-DDE	ND		ug/kg	1.80	0.417	1	A
4,4'-DDD	ND		ug/kg	1.80	0.643	1	A
4,4'-DDT	ND		ug/kg	3.38	1.45	1	A
Endosulfan I	ND		ug/kg	1.80	0.426	1	A
Endosulfan II	ND		ug/kg	1.80	0.602	1	A
Endosulfan sulfate	ND		ug/kg	0.751	0.357	1	A
Methoxychlor	ND		ug/kg	3.38	1.05	1	A
Toxaphene	ND		ug/kg	33.8	9.46	1	A
cis-Chlordane	ND		ug/kg	2.25	0.628	1	A
trans-Chlordane	ND		ug/kg	2.25	0.595	1	A
Chlordane	ND		ug/kg	14.6	5.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**154**	Q	30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-03	Date Collected:	09/19/14 09:10
Client ID:	SB-6 (10-12')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 16:34	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.363	1	A
Lindane	ND		ug/kg	0.773	0.346	1	A
Alpha-BHC	ND		ug/kg	0.773	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.704	1	A
Heptachlor	ND		ug/kg	0.928	0.416	1	A
Aldrin	ND		ug/kg	1.86	0.653	1	A
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1	A
Endrin	ND		ug/kg	0.773	0.317	1	A
Endrin ketone	ND		ug/kg	1.86	0.478	1	A
Dieldrin	ND		ug/kg	1.16	0.580	1	A
4,4'-DDE	ND		ug/kg	1.86	0.429	1	A
4,4'-DDD	ND		ug/kg	1.86	0.662	1	A
4,4'-DDT	ND		ug/kg	3.48	1.49	1	A
Endosulfan I	ND		ug/kg	1.86	0.438	1	A
Endosulfan II	ND		ug/kg	1.86	0.620	1	A
Endosulfan sulfate	ND		ug/kg	0.773	0.368	1	A
Methoxychlor	ND		ug/kg	3.48	1.08	1	A
Toxaphene	ND		ug/kg	34.8	9.74	1	A
cis-Chlordane	ND		ug/kg	2.32	0.646	1	A
trans-Chlordane	ND		ug/kg	2.32	0.612	1	A
Chlordane	ND		ug/kg	15.1	6.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	75		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-04	Date Collected:	09/19/14 11:20
Client ID:	SB-7 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 16:47	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.364	1	A
Lindane	ND		ug/kg	0.776	0.347	1	A
Alpha-BHC	ND		ug/kg	0.776	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.706	1	A
Heptachlor	ND		ug/kg	0.931	0.417	1	A
Aldrin	ND		ug/kg	1.86	0.655	1	A
Heptachlor epoxide	ND		ug/kg	3.49	1.05	1	A
Endrin	ND		ug/kg	0.776	0.318	1	A
Endrin ketone	ND		ug/kg	1.86	0.479	1	A
Dieldrin	ND		ug/kg	1.16	0.582	1	A
4,4'-DDE	ND		ug/kg	1.86	0.430	1	A
4,4'-DDD	ND		ug/kg	1.86	0.664	1	A
4,4'-DDT	ND		ug/kg	3.49	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.440	1	A
Endosulfan II	ND		ug/kg	1.86	0.622	1	A
Endosulfan sulfate	ND		ug/kg	0.776	0.369	1	A
Methoxychlor	ND		ug/kg	3.49	1.08	1	A
Toxaphene	ND		ug/kg	34.9	9.77	1	A
cis-Chlordane	ND		ug/kg	2.33	0.648	1	A
trans-Chlordane	ND		ug/kg	2.33	0.614	1	A
Chlordane	ND		ug/kg	15.1	6.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	72		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-05	Date Collected:	09/19/14 11:50
Client ID:	SB-7 (9-11')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 17:00	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.779	0.348	1	A
Alpha-BHC	ND		ug/kg	0.779	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.709	1	A
Heptachlor	ND		ug/kg	0.935	0.419	1	A
Aldrin	ND		ug/kg	1.87	0.658	1	A
Heptachlor epoxide	ND		ug/kg	3.51	1.05	1	A
Endrin	ND		ug/kg	0.779	0.320	1	A
Endrin ketone	ND		ug/kg	1.87	0.482	1	A
Dieldrin	ND		ug/kg	1.17	0.584	1	A
4,4'-DDE	ND		ug/kg	1.87	0.432	1	A
4,4'-DDD	ND		ug/kg	1.87	0.667	1	A
4,4'-DDT	ND		ug/kg	3.51	1.50	1	A
Endosulfan I	ND		ug/kg	1.87	0.442	1	A
Endosulfan II	ND		ug/kg	1.87	0.625	1	A
Endosulfan sulfate	ND		ug/kg	0.779	0.371	1	A
Methoxychlor	ND		ug/kg	3.51	1.09	1	A
Toxaphene	ND		ug/kg	35.1	9.82	1	A
cis-Chlordane	ND		ug/kg	2.34	0.652	1	A
trans-Chlordane	ND		ug/kg	2.34	0.617	1	A
Chlordane	ND		ug/kg	15.2	6.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	62		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-06	Date Collected:	09/19/14 10:15
Client ID:	SB-5 (0-2')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 17:13	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.723	0.323	1	A
Alpha-BHC	ND		ug/kg	0.723	0.205	1	A
Beta-BHC	ND		ug/kg	1.74	0.658	1	A
Heptachlor	ND		ug/kg	0.868	0.389	1	A
Aldrin	ND		ug/kg	1.74	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.976	1	A
Endrin	ND		ug/kg	0.723	0.296	1	A
Endrin ketone	ND		ug/kg	1.74	0.447	1	A
Dieldrin	5.79		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.74	0.401	1	A
4,4'-DDD	ND		ug/kg	1.74	0.619	1	A
4,4'-DDT	ND		ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.410	1	A
Endosulfan II	ND		ug/kg	1.74	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.723	0.344	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.11	1	A
cis-Chlordane	ND		ug/kg	2.17	0.605	1	A
trans-Chlordane	ND		ug/kg	2.17	0.573	1	A
Chlordane	ND		ug/kg	14.1	5.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-07	Date Collected:	09/19/14 10:45
Client ID:	SB-5 (11-13')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 17:25	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.804	0.359	1	A
Alpha-BHC	ND		ug/kg	0.804	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.679	1	A
Heptachlor epoxide	ND		ug/kg	3.62	1.08	1	A
Endrin	ND		ug/kg	0.804	0.330	1	A
Endrin ketone	ND		ug/kg	1.93	0.497	1	A
Dieldrin	ND		ug/kg	1.20	0.603	1	A
4,4'-DDE	ND		ug/kg	1.93	0.446	1	A
4,4'-DDD	ND		ug/kg	1.93	0.688	1	A
4,4'-DDT	ND		ug/kg	3.62	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.456	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.804	0.382	1	A
Methoxychlor	ND		ug/kg	3.62	1.12	1	A
Toxaphene	ND		ug/kg	36.2	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.672	1	A
trans-Chlordane	ND		ug/kg	2.41	0.636	1	A
Chlordane	ND		ug/kg	15.7	6.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-08	Date Collected:	09/19/14 13:55
Client ID:	SB-3 (10-12')	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/25/14 04:18
Analytical Date:	09/26/14 17:38	Cleanup Method:	EPA 3620B
Analyst:	SH	Cleanup Date:	09/26/14
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.767	0.343	1	A
Alpha-BHC	ND		ug/kg	0.767	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.698	1	A
Heptachlor	ND		ug/kg	0.920	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.648	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.03	1	A
Endrin	ND		ug/kg	0.767	0.314	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	1	A
Dieldrin	ND		ug/kg	1.15	0.575	1	A
4,4'-DDE	ND		ug/kg	1.84	0.425	1	A
4,4'-DDD	ND		ug/kg	1.84	0.656	1	A
4,4'-DDT	ND		ug/kg	3.45	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.435	1	A
Endosulfan II	ND		ug/kg	1.84	0.615	1	A
Endosulfan sulfate	ND		ug/kg	0.767	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.66	1	A
cis-Chlordane	ND		ug/kg	2.30	0.641	1	A
trans-Chlordane	ND		ug/kg	2.30	0.607	1	A
Chlordane	ND		ug/kg	14.9	6.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	72		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID:	L1422008-09	Date Collected:	09/19/14 13:20
Client ID:	GW-3	Date Received:	09/19/14
Sample Location:	3875 9TH AVE NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	09/24/14 01:48
Analytical Date:	09/25/14 00:29	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/24/14 23:38
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/24/14 01:48
Cleanup Method: EPA 3620B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG724680-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/27/14 21:47
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 09/25/14 04:18
Cleanup Method: EPA 3620B
Cleanup Date: 09/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-08 Batch: WG725100-1						
Delta-BHC	ND		ug/kg	1.50	0.294	A
Lindane	ND		ug/kg	0.626	0.280	A
Alpha-BHC	ND		ug/kg	0.626	0.178	A
Beta-BHC	ND		ug/kg	1.50	0.569	A
Heptachlor	ND		ug/kg	0.751	0.337	A
Aldrin	ND		ug/kg	1.50	0.529	A
Heptachlor epoxide	ND		ug/kg	2.82	0.845	A
Endrin	ND		ug/kg	0.626	0.256	A
Endrin ketone	ND		ug/kg	1.50	0.387	A
Dieldrin	ND		ug/kg	0.939	0.469	A
4,4'-DDE	ND		ug/kg	1.50	0.347	A
4,4'-DDD	ND		ug/kg	1.50	0.536	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.50	0.355	A
Endosulfan II	ND		ug/kg	1.50	0.502	A
Endosulfan sulfate	ND		ug/kg	0.626	0.298	A
Methoxychlor	ND		ug/kg	2.82	0.876	A
Toxaphene	ND		ug/kg	28.2	7.88	A
cis-Chlordane	ND		ug/kg	1.88	0.523	A
trans-Chlordane	ND		ug/kg	1.88	0.496	A
Chlordane	ND		ug/kg	12.2	4.97	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	65		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG724680-2 WG724680-3									
Delta-BHC	80		90		30-150	12		20	A
Lindane	86		97		30-150	12		20	A
Alpha-BHC	79		87		30-150	10		20	A
Beta-BHC	84		93		30-150	9		20	A
Heptachlor	69		76		30-150	10		20	A
Aldrin	71		81		30-150	13		20	A
Heptachlor epoxide	82		89		30-150	8		20	A
Endrin	93		101		30-150	8		20	A
Endrin ketone	64		76		30-150	17		20	A
Dieldrin	90		98		30-150	8		20	A
4,4'-DDE	81		89		30-150	9		20	A
4,4'-DDD	85		93		30-150	9		20	A
4,4'-DDT	73		81		30-150	10		20	A
Endosulfan I	82		91		30-150	10		20	A
Endosulfan II	74		83		30-150	12		20	A
Endosulfan sulfate	70		82		30-150	16		20	A
Methoxychlor	64		77		30-150	18		20	A
cis-Chlordane	76		83		30-150	9		20	A
trans-Chlordane	80		87		30-150	8		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG724680-2 WG724680-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		75		30-150	A
Decachlorobiphenyl	57		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		70		30-150	B
Decachlorobiphenyl	64		94		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08 Batch: WG725100-2 WG725100-3									
Delta-BHC	73		82		30-150	12		30	A
Lindane	84		90		30-150	7		30	A
Alpha-BHC	78		85		30-150	9		30	A
Beta-BHC	108		105		30-150	3		30	A
Heptachlor	79		87		30-150	10		30	A
Aldrin	83		93		30-150	11		30	A
Heptachlor epoxide	80		89		30-150	11		30	A
Endrin	86		97		30-150	12		30	A
Endrin ketone	62		70		30-150	12		30	A
Dieldrin	85		96		30-150	12		30	A
4,4'-DDE	80		89		30-150	11		30	A
4,4'-DDD	79		88		30-150	11		30	A
4,4'-DDT	72		82		30-150	13		30	A
Endosulfan I	79		88		30-150	11		30	A
Endosulfan II	68		75		30-150	10		30	A
Endosulfan sulfate	65		73		30-150	12		30	A
Methoxychlor	62		69		30-150	11		30	A
cis-Chlordane	76		83		30-150	9		30	A
trans-Chlordane	78		89		30-150	13		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08 Batch: WG725100-2 WG725100-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		96		30-150	B
Decachlorobiphenyl	91		99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		94		30-150	A
Decachlorobiphenyl	79		88		30-150	A

METALS

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-01 Date Collected: 09/19/14 13:45

Client ID: SB-3 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	9.0	1.8	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Antimony, Total	0.73	J	mg/kg	4.5	0.72	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Arsenic, Total	7.3		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Barium, Total	110		mg/kg	0.90	0.27	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Beryllium, Total	0.40	J	mg/kg	0.45	0.09	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Cadmium, Total	0.19	J	mg/kg	0.90	0.06	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Calcium, Total	16000		mg/kg	9.0	2.7	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Chromium, Total	16		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Cobalt, Total	5.0		mg/kg	1.8	0.45	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Copper, Total	23		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.5	1.8	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Lead, Total	66		mg/kg	4.5	0.18	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Magnesium, Total	3100		mg/kg	9.0	0.90	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Manganese, Total	220		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Mercury, Total	0.20		mg/kg	0.08	0.02	1	09/24/14 08:59	09/24/14 13:55	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.2	0.36	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Potassium, Total	880		mg/kg	220	36.	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Selenium, Total	0.62	J	mg/kg	1.8	0.27	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Sodium, Total	340		mg/kg	180	27.	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.36	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Vanadium, Total	21		mg/kg	0.90	0.09	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG
Zinc, Total	97		mg/kg	4.5	0.63	2	09/24/14 22:22	09/26/14 12:02	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02
Client ID: SB-6 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 09/19/14 09:00
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9400		mg/kg	8.7	1.7	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Antimony, Total	3.1	J	mg/kg	4.3	0.69	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Arsenic, Total	7.8		mg/kg	0.87	0.17	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Barium, Total	250		mg/kg	0.87	0.26	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Beryllium, Total	0.30	J	mg/kg	0.43	0.09	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Cadmium, Total	0.94		mg/kg	0.87	0.06	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Calcium, Total	2000		mg/kg	8.7	2.6	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	0.87	0.17	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Cobalt, Total	6.0		mg/kg	1.7	0.43	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Copper, Total	47		mg/kg	0.87	0.17	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.3	1.7	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Lead, Total	380		mg/kg	4.3	0.17	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Magnesium, Total	2700		mg/kg	8.7	0.87	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Manganese, Total	150		mg/kg	0.87	0.17	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Mercury, Total	0.12		mg/kg	0.08	0.02	1	09/24/14 08:59	09/25/14 10:39	EPA 7471B	1,7471B	MC
Nickel, Total	15		mg/kg	2.2	0.35	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Potassium, Total	850		mg/kg	220	35.	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Selenium, Total	0.68	J	mg/kg	1.7	0.26	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.87	0.17	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Sodium, Total	130	J	mg/kg	170	26.	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.35	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Vanadium, Total	25		mg/kg	0.87	0.09	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG
Zinc, Total	260		mg/kg	4.3	0.61	2	09/24/14 22:22	09/26/14 12:17	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-03 Date Collected: 09/19/14 09:10

Client ID: SB-6 (10-12') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6700		mg/kg	9.2	1.8	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.6	0.74	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Arsenic, Total	5.0		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Barium, Total	14		mg/kg	0.92	0.28	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Beryllium, Total	0.36	J	mg/kg	0.46	0.09	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.92	0.06	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Calcium, Total	860		mg/kg	9.2	2.8	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Chromium, Total	11		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Cobalt, Total	4.7		mg/kg	1.8	0.46	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Copper, Total	9.9		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Iron, Total	14000		mg/kg	4.6	1.8	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Lead, Total	2.3	J	mg/kg	4.6	0.18	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Magnesium, Total	2200		mg/kg	9.2	0.92	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Manganese, Total	420		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	09/24/14 08:59	09/25/14 10:41	EPA 7471B	1,7471B	MC
Nickel, Total	10		mg/kg	2.3	0.37	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Potassium, Total	610		mg/kg	230	37.	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.28	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Sodium, Total	77	J	mg/kg	180	28.	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.37	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Vanadium, Total	17		mg/kg	0.92	0.09	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG
Zinc, Total	23		mg/kg	4.6	0.64	2	09/24/14 22:22	09/26/14 12:57	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-04 Date Collected: 09/19/14 11:20

Client ID: SB-7 (0-2') Date Received: 09/19/14

Sample Location: 3875 9TH AVE NY, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8000		mg/kg	9.2	1.8	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Antimony, Total	4.2	J	mg/kg	4.6	0.73	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Arsenic, Total	14		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Barium, Total	200		mg/kg	0.92	0.28	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Beryllium, Total	0.25	J	mg/kg	0.46	0.09	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Cadmium, Total	4.0		mg/kg	0.92	0.06	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Calcium, Total	10000		mg/kg	9.2	2.8	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Chromium, Total	21		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Cobalt, Total	6.9		mg/kg	1.8	0.46	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Copper, Total	120		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Iron, Total	23000		mg/kg	4.6	1.8	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Lead, Total	1100		mg/kg	4.6	0.18	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Magnesium, Total	8000		mg/kg	9.2	0.92	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Manganese, Total	280		mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Mercury, Total	0.74		mg/kg	0.08	0.02	1	09/24/14 08:59	09/25/14 10:43	EPA 7471B	1,7471B	MC
Nickel, Total	27		mg/kg	2.3	0.37	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Potassium, Total	900		mg/kg	230	37.	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.28	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Silver, Total	0.19	J	mg/kg	0.92	0.18	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Sodium, Total	240		mg/kg	180	28.	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.37	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Vanadium, Total	40		mg/kg	0.92	0.09	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG
Zinc, Total	1200		mg/kg	4.6	0.64	2	09/24/14 22:22	09/26/14 13:01	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-05
Client ID: SB-7 (9-11')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 09/19/14 11:50
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	16000		mg/kg	9.1	1.8	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.5	0.73	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Arsenic, Total	6.7		mg/kg	0.91	0.18	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Barium, Total	130		mg/kg	0.91	0.27	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Beryllium, Total	0.24	J	mg/kg	0.45	0.09	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Cadmium, Total	0.06	J	mg/kg	0.91	0.06	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Calcium, Total	4400		mg/kg	9.1	2.7	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Chromium, Total	44		mg/kg	0.91	0.18	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Cobalt, Total	11		mg/kg	1.8	0.45	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Copper, Total	61		mg/kg	0.91	0.18	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Iron, Total	23000		mg/kg	4.5	1.8	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Lead, Total	36		mg/kg	4.5	0.18	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Magnesium, Total	6100		mg/kg	9.1	0.91	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Manganese, Total	270		mg/kg	0.91	0.18	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Mercury, Total	0.11		mg/kg	0.08	0.02	1	09/24/14 08:59	09/25/14 10:44	EPA 7471B	1,7471B	MC
Nickel, Total	23		mg/kg	2.3	0.36	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Potassium, Total	6100		mg/kg	230	36.	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Selenium, Total	0.53	J	mg/kg	1.8	0.27	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.91	0.18	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Sodium, Total	1700		mg/kg	180	27.	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.36	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Vanadium, Total	39		mg/kg	0.91	0.09	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG
Zinc, Total	110		mg/kg	4.5	0.64	2	09/24/14 22:22	09/26/14 13:05	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-06
Client ID: SB-5 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Percent Solids: 90%

Date Collected: 09/19/14 10:15
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2600		mg/kg	8.6	1.7	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Antimony, Total	2.4	J	mg/kg	4.3	0.69	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Arsenic, Total	5.7		mg/kg	0.86	0.17	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Barium, Total	110		mg/kg	0.86	0.26	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Beryllium, Total	0.17	J	mg/kg	0.43	0.09	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Cadmium, Total	14		mg/kg	0.86	0.06	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Calcium, Total	13000		mg/kg	8.6	2.6	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Chromium, Total	8.0		mg/kg	0.86	0.17	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Cobalt, Total	4.6		mg/kg	1.7	0.43	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Copper, Total	66		mg/kg	0.86	0.17	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Iron, Total	9200		mg/kg	4.3	1.7	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Lead, Total	270		mg/kg	4.3	0.17	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Magnesium, Total	2100		mg/kg	8.6	0.86	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Manganese, Total	120		mg/kg	0.86	0.17	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Mercury, Total	0.40		mg/kg	0.07	0.02	1	09/24/14 08:59	09/25/14 10:46	EPA 7471B	1,7471B	MC
Nickel, Total	19		mg/kg	2.2	0.34	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Potassium, Total	340		mg/kg	220	34.	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.7	0.26	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.86	0.17	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Sodium, Total	180		mg/kg	170	26.	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.34	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Vanadium, Total	20		mg/kg	0.86	0.09	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG
Zinc, Total	320		mg/kg	4.3	0.60	2	09/24/14 22:22	09/26/14 13:08	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-07
Client ID: SB-5 (11-13')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 09/19/14 10:45
Date Received: 09/19/14
Field Prep: Not Specified

Total Metals - Westborough Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	5600		mg/kg	9.6	1.9	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.8	0.76	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Arsenic, Total	3.5		mg/kg	0.96	0.19	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Barium, Total	29		mg/kg	0.96	0.29	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Beryllium, Total	0.28	J	mg/kg	0.48	0.10	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.96	0.07	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Calcium, Total	1000		mg/kg	9.6	2.9	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Chromium, Total	9.0		mg/kg	0.96	0.19	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Cobalt, Total	2.8		mg/kg	1.9	0.48	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Copper, Total	5.8		mg/kg	0.96	0.19	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Iron, Total	9800		mg/kg	4.8	1.9	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Lead, Total	2.1	J	mg/kg	4.8	0.19	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Magnesium, Total	1700		mg/kg	9.6	0.96	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Manganese, Total	74		mg/kg	0.96	0.19	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	09/24/14 08:59	09/25/14 10:52	EPA 7471B	1,7471B	MC
Nickel, Total	8.9		mg/kg	2.4	0.38	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Potassium, Total	410		mg/kg	240	38.	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.9	0.29	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.96	0.19	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Sodium, Total	180	J	mg/kg	190	29.	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.9	0.38	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Vanadium, Total	12		mg/kg	0.96	0.10	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG
Zinc, Total	21		mg/kg	4.8	0.67	2	09/24/14 22:22	09/26/14 13:12	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-08
Client ID: SB-3 (10-12')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 09/19/14 13:55
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	12000		mg/kg	9.0	1.8	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.5	0.72	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Arsenic, Total	7.1		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Barium, Total	71		mg/kg	0.90	0.27	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Beryllium, Total	0.48		mg/kg	0.45	0.09	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.90	0.06	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Calcium, Total	3500		mg/kg	9.0	2.7	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Chromium, Total	18		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Cobalt, Total	7.6		mg/kg	1.8	0.45	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Copper, Total	17		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Iron, Total	17000		mg/kg	4.5	1.8	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Lead, Total	16		mg/kg	4.5	0.18	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Magnesium, Total	4000		mg/kg	9.0	0.90	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Manganese, Total	470		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Mercury, Total	0.09		mg/kg	0.08	0.02	1	09/24/14 08:59	09/24/14 14:06	EPA 7471B	1,7471B	MC
Nickel, Total	13		mg/kg	2.2	0.36	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Potassium, Total	800		mg/kg	220	36.	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.8	0.27	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.90	0.18	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Sodium, Total	140	J	mg/kg	180	27.	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.36	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Vanadium, Total	22		mg/kg	0.90	0.09	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG
Zinc, Total	50		mg/kg	4.5	0.63	2	09/24/14 22:22	09/26/14 13:16	EPA 3050B	1,6010C	MG

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-09
Client ID: GW-3
Sample Location: 3875 9TH AVE NY, NY
Matrix: Water
Date Collected: 09/19/14 13:20
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.69		mg/l	0.200	0.0338	20	09/29/14 08:09	09/29/14 16:31	EPA 3005A	1,6020A	BM
Antimony, Total	0.00211	J	mg/l	0.00300	0.00006	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00330		mg/l	0.00150	0.00012	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Barium, Total	0.1465		mg/l	0.00050	0.00006	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00015	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Calcium, Total	206.		mg/l	2.00	0.640	20	09/29/14 08:09	09/29/14 16:31	EPA 3005A	1,6020A	BM
Chromium, Total	0.00482		mg/l	0.00100	0.00025	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00247		mg/l	0.00050	0.00006	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Copper, Total	0.00883		mg/l	0.00200	0.00026	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Iron, Total	14.0		mg/l	1.00	0.240	20	09/29/14 08:09	09/29/14 16:31	EPA 3005A	1,6020A	BM
Lead, Total	0.00942		mg/l	0.00100	0.00012	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Magnesium, Total	49.8		mg/l	1.40	0.446	20	09/29/14 08:09	09/29/14 16:31	EPA 3005A	1,6020A	BM
Manganese, Total	1.994		mg/l	0.01000	0.00604	20	09/29/14 08:09	09/29/14 16:31	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/22/14 11:05	09/22/14 21:11	EPA 7470A	1,7470A	AK
Nickel, Total	0.00945		mg/l	0.00100	0.00008	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Potassium, Total	13.4		mg/l	0.100	0.0193	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Selenium, Total	0.00125	J	mg/l	0.00500	0.00100	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00007	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Sodium, Total	229.		mg/l	2.00	0.322	20	09/29/14 08:09	09/29/14 16:31	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00005	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00590		mg/l	0.00500	0.00055	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Zinc, Total	0.02472		mg/l	0.01000	0.00256	1	09/29/14 08:09	09/29/14 16:28	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.00644	J	mg/l	0.0100	0.00200	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Antimony, Dissolved	0.00374		mg/l	0.00300	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Arsenic, Dissolved	0.00035	J	mg/l	0.00050	0.00020	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Barium, Dissolved	0.07861		mg/l	0.00050	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL

Project Name: 3875 9TH AVE.
Lab Number: L1422008
Project Number: 11995
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-09
Client ID: GW-3
Sample Location: 3875 9TH AVE NY, NY
Matrix: Water
Date Collected: 09/19/14 13:20
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	188.		mg/l	2.00	0.640	20	09/20/14 10:22	09/27/14 13:54	NA	1,6020A	KL
Chromium, Dissolved	0.00128		mg/l	0.00100	0.00020	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Cobalt, Dissolved	0.00026		mg/l	0.00020	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Copper, Dissolved	0.00018	J	mg/l	0.00100	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Iron, Dissolved	1.92		mg/l	0.0500	0.0130	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Magnesium, Dissolved	49.1		mg/l	0.0700	0.0230	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Manganese, Dissolved	2.270		mg/l	0.01000	0.00200	20	09/20/14 10:22	09/26/14 21:49	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/22/14 14:47	09/22/14 22:00	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00426		mg/l	0.00050	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Potassium, Dissolved	11.7		mg/l	2.00	0.540	20	09/20/14 10:22	09/27/14 13:54	NA	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Sodium, Dissolved	286.		mg/l	2.00	0.300	20	09/20/14 10:22	09/26/14 21:49	NA	1,6020A	KL
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Vanadium, Dissolved	0.00019	J	mg/l	0.00500	0.00010	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL
Zinc, Dissolved	0.00705	J	mg/l	0.01000	0.00120	1	09/20/14 10:22	09/26/14 21:52	NA	1,6020A	KL

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 09 Batch: WG724059-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/22/14 11:05	09/22/14 20:04	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 09 Batch: WG724128-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/22/14 14:47	09/22/14 21:13	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-08 Batch: WG724695-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	09/24/14 08:59	09/24/14 13:45	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-08 Batch: WG725042-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.32	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.08	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Beryllium, Total	ND		mg/kg	0.20	0.04	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Calcium, Total	ND		mg/kg	4.0	1.2	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Chromium, Total	ND		mg/kg	0.40	0.08	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Cobalt, Total	ND		mg/kg	0.80	0.20	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Copper, Total	ND		mg/kg	0.40	0.08	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Iron, Total	ND		mg/kg	2.0	0.80	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Lead, Total	ND		mg/kg	2.0	0.08	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Magnesium, Total	ND		mg/kg	4.0	0.40	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Manganese, Total	ND		mg/kg	0.40	0.08	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Nickel, Total	ND		mg/kg	1.0	0.16	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Potassium, Total	ND		mg/kg	100	16.	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Selenium, Total	0.12	J	mg/kg	0.80	0.12	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Silver, Total	ND		mg/kg	0.40	0.08	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Sodium, Total	ND		mg/kg	80	12.	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Thallium, Total	ND		mg/kg	0.80	0.16	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Vanadium, Total	ND		mg/kg	0.40	0.04	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG
Zinc, Total	ND		mg/kg	2.0	0.28	1	09/24/14 22:22	09/26/14 11:55	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 09 Batch: WG725669-1										
Aluminum, Dissolved	0.00606	J	mg/l	0.0100	0.00200	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Antimony, Dissolved	0.00213	J	mg/l	0.00300	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Calcium, Dissolved	0.0320	J	mg/l	0.100	0.0320	1	09/20/14 10:22	09/27/14 13:35	1,6020A	KL
Chromium, Dissolved	0.00054	J	mg/l	0.00100	0.00020	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Cobalt, Dissolved	ND		mg/l	0.00020	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Copper, Dissolved	0.00046	J	mg/l	0.00100	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Iron, Dissolved	0.0143	J	mg/l	0.0500	0.0130	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Magnesium, Dissolved	ND		mg/l	0.0700	0.0230	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL

Project Name: 3875 9TH AVE. **Lab Number:** L1422008

Project Number: 11995 **Report Date:** 09/29/14

Method Blank Analysis
Batch Quality Control

Manganese, Dissolved	0.00016	J	mg/l	0.00050	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Nickel, Dissolved	0.00026	J	mg/l	0.00050	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	09/20/14 10:22	09/27/14 13:35	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Sodium, Dissolved	2.44		mg/l	0.100	0.0150	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL
Zinc, Dissolved	0.00405	J	mg/l	0.01000	0.00120	1	09/20/14 10:22	09/26/14 21:06	1,6020A	KL

Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 09 Batch: WG726123-1										
Aluminum, Total	ND		mg/l	0.0100	0.00169	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Antimony, Total	0.00069	J	mg/l	0.00300	0.00006	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Arsenic, Total	0.00118	J	mg/l	0.00150	0.00012	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00006	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00015	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Chromium, Total	ND		mg/l	0.00100	0.00025	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00006	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Copper, Total	0.00101	J	mg/l	0.00200	0.00026	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0120	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00012	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0223	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Manganese, Total	ND		mg/l	0.00050	0.00030	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Nickel, Total	0.00057	J	mg/l	0.00100	0.00008	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Potassium, Total	0.0382	J	mg/l	0.100	0.0193	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00100	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00007	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Sodium, Total	0.0254	J	mg/l	0.100	0.0161	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00005	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Method Blank Analysis
Batch Quality Control

Vanadium, Total	ND	mg/l	0.00500	0.00055	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM
Zinc, Total	ND	mg/l	0.01000	0.00256	1	09/29/14 08:09	09/29/14 16:11	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09 Batch: WG724059-2								
Mercury, Total	102		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 09 Batch: WG724128-2								
Mercury, Dissolved	91		-		70-130	-		
Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG724695-2 SRM Lot Number: D083-540								
Mercury, Total	108		-		75-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG725042-2 SRM Lot Number: D083-540					
Aluminum, Total	78	-	51-148	-	
Antimony, Total	155	-	1-210	-	
Arsenic, Total	106	-	78-122	-	
Barium, Total	108	-	82-117	-	
Beryllium, Total	103	-	82-118	-	
Cadmium, Total	98	-	82-118	-	
Calcium, Total	94	-	82-118	-	
Chromium, Total	98	-	79-121	-	
Cobalt, Total	98	-	83-117	-	
Copper, Total	101	-	80-120	-	
Iron, Total	99	-	47-153	-	
Lead, Total	92	-	81-119	-	
Magnesium, Total	89	-	75-124	-	
Manganese, Total	100	-	81-119	-	
Nickel, Total	99	-	82-118	-	
Potassium, Total	88	-	70-130	-	
Selenium, Total	102	-	78-123	-	
Silver, Total	96	-	74-125	-	
Sodium, Total	93	-	70-130	-	
Thallium, Total	95	-	78-122	-	
Vanadium, Total	103	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG725042-2 SRM Lot Number: D083-540					
Zinc, Total	101	-	80-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09 Batch: WG725669-2					
Aluminum, Dissolved	103	-	80-120	-	
Antimony, Dissolved	103	-	80-120	-	
Arsenic, Dissolved	100	-	80-120	-	
Barium, Dissolved	96	-	80-120	-	
Beryllium, Dissolved	97	-	80-120	-	
Cadmium, Dissolved	106	-	80-120	-	
Calcium, Dissolved	105	-	80-120	-	
Chromium, Dissolved	95	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	99	-	80-120	-	
Iron, Dissolved	96	-	80-120	-	
Lead, Dissolved	102	-	80-120	-	
Magnesium, Dissolved	104	-	80-120	-	
Manganese, Dissolved	97	-	80-120	-	
Nickel, Dissolved	99	-	80-120	-	
Potassium, Dissolved	88	-	80-120	-	
Selenium, Dissolved	112	-	80-120	-	
Silver, Dissolved	97	-	80-120	-	
Sodium, Dissolved	97	-	80-120	-	
Thallium, Dissolved	94	-	80-120	-	
Vanadium, Dissolved	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09 Batch: WG725669-2					
Zinc, Dissolved	106	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09 Batch: WG726123-2					
Aluminum, Total	110	-	80-120	-	
Antimony, Total	116	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	104	-	80-120	-	
Cadmium, Total	110	-	80-120	-	
Calcium, Total	108	-	80-120	-	
Chromium, Total	102	-	80-120	-	
Cobalt, Total	107	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	103	-	80-120	-	
Lead, Total	108	-	80-120	-	
Magnesium, Total	110	-	80-120	-	
Manganese, Total	102	-	80-120	-	
Nickel, Total	102	-	80-120	-	
Potassium, Total	103	-	80-120	-	
Selenium, Total	110	-	80-120	-	
Silver, Total	99	-	80-120	-	
Sodium, Total	104	-	80-120	-	
Thallium, Total	95	-	80-120	-	
Vanadium, Total	104	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1422008

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09 Batch: WG726123-2					
Zinc, Total	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG724059-3 WG724059-4 QC Sample: L1421137-04 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00247	**49**	Q	0.00250	**50**	Q	75-125	1		20
Dissolved Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG724128-4 QC Sample: L1421399-01 Client ID: MS Sample												
Mercury, Dissolved	ND	0.005	0.00469	94		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG724695-4 QC Sample: L1422008-01 Client ID: SB-3 (0-2')												
Mercury, Total	0.20	0.162	0.39	117		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG725042-4 QC Sample: L1422008-01 Client ID: SB-3 (0-2')										
Aluminum, Total	10000	183	12000	**1090**	Q	-	-	75-125	-	20
Antimony, Total	0.73J	45.7	36	79		-	-	75-125	-	20
Arsenic, Total	7.3	11	17	88		-	-	75-125	-	20
Barium, Total	110	183	260	82		-	-	75-125	-	20
Beryllium, Total	0.40J	4.57	4.5	98		-	-	75-125	-	20
Cadmium, Total	0.19J	4.66	4.4	94		-	-	75-125	-	20
Calcium, Total	16000	914	10000	**0**	Q	-	-	75-125	-	20
Chromium, Total	16.	18.3	32	87		-	-	75-125	-	20
Cobalt, Total	5.0	45.7	45	87		-	-	75-125	-	20
Copper, Total	23.	22.9	43	87		-	-	75-125	-	20
Iron, Total	16000	91.4	16000	**0**	Q	-	-	75-125	-	20
Lead, Total	66.	46.6	100	**73**	Q	-	-	75-125	-	20
Magnesium, Total	3100	914	3600	**55**	Q	-	-	75-125	-	20
Manganese, Total	220	45.7	310	**197**	Q	-	-	75-125	-	20
Nickel, Total	12.	45.7	52	87		-	-	75-125	-	20
Potassium, Total	880	914	1600	79		-	-	75-125	-	20
Selenium, Total	0.62J	11	10	91		-	-	75-125	-	20
Silver, Total	ND	27.4	25	91		-	-	75-125	-	20
Sodium, Total	340	914	1100	83		-	-	75-125	-	20
Thallium, Total	ND	11	8.9	81		-	-	75-125	-	20
Vanadium, Total	21.	45.7	64	94		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG725042-4 QC Sample: L1422008-01 Client ID: SB-3 (0-2')										
Zinc, Total	97.	45.7	130	**72**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG725669-4 QC Sample: L1422008-09 Client ID: GW-3										
Aluminum, Dissolved	0.00644J	2	2.11	106		-	-	75-125	-	20
Antimony, Dissolved	0.00374	0.5	0.3868	77		-	-	75-125	-	20
Arsenic, Dissolved	0.00035J	0.12	0.1272	106		-	-	75-125	-	20
Barium, Dissolved	0.07861	2	2.104	100		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05066	101		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05768	113		-	-	75-125	-	20
Calcium, Dissolved	188.	10	201	**130**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.00128	0.2	0.1980	99		-	-	75-125	-	20
Cobalt, Dissolved	0.00026	0.5	0.5078	102		-	-	75-125	-	20
Copper, Dissolved	0.00018J	0.25	0.2494	100		-	-	75-125	-	20
Iron, Dissolved	1.92	1	2.77	**41**	Q	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5350	105		-	-	75-125	-	20
Magnesium, Dissolved	49.1	10	47.4	**0**	Q	-	-	75-125	-	20
Manganese, Dissolved	2.270	0.5	2.226	**0**	Q	-	-	75-125	-	20
Nickel, Dissolved	0.00426	0.5	0.5108	102		-	-	75-125	-	20
Potassium, Dissolved	11.7	10	12.2	**5**	Q	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.136	113		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04998	100		-	-	75-125	-	20
Sodium, Dissolved	286.	10	234	**0**	Q	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1188	99		-	-	75-125	-	20
Vanadium, Dissolved	0.00019J	0.5	0.5292	106		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG725669-4 QC Sample: L1422008-09 Client ID: GW-3									
Zinc, Dissolved	0.00705J	0.5	0.5270	105	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG726123-4 QC Sample: L1422008-09 Client ID: GW-3										
Aluminum, Total	2.69	2	5.13	122		-	-	75-125	-	20
Antimony, Total	0.00211J	0.5	0.5386	108		-	-	75-125	-	20
Arsenic, Total	0.00330	0.12	0.1296	105		-	-	75-125	-	20
Barium, Total	0.1465	2	2.082	97		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05290	106		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05478	107		-	-	75-125	-	20
Calcium, Total	206.	10	211	**50**	Q	-	-	75-125	-	20
Chromium, Total	0.00482	0.2	0.2040	100		-	-	75-125	-	20
Cobalt, Total	0.00247	0.5	0.5278	105		-	-	75-125	-	20
Copper, Total	0.00883	0.25	0.2646	102		-	-	75-125	-	20
Iron, Total	14.0	1	14.1	**10**	Q	-	-	75-125	-	20
Lead, Total	0.00942	0.51	0.5516	106		-	-	75-125	-	20
Magnesium, Total	49.8	10	57.9	81		-	-	75-125	-	20
Manganese, Total	1.994	0.5	2.386	78		-	-	75-125	-	20
Nickel, Total	0.00945	0.5	0.5080	100		-	-	75-125	-	20
Potassium, Total	13.4	10	8.34	**0**	Q	-	-	75-125	-	20
Selenium, Total	0.00125J	0.12	0.132	110		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04926	98		-	-	75-125	-	20
Sodium, Total	229.	10	227	**0**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1093	91		-	-	75-125	-	20
Vanadium, Total	0.00590	0.5	0.5274	104		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG726123-4 QC Sample: L1422008-09 Client ID: GW-3									
Zinc, Total	0.02472	0.5	0.5558	106	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG724128-3 QC Sample: L1421399-01 Client ID: DUP Sample						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG724695-3 QC Sample: L1422008-01 Client ID: SB-3 (0-2')						
Mercury, Total	0.20	0.18	mg/kg	11		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG725042-3 QC Sample: L1422008-01 Client ID: SB-3 (0-2')					
Aluminum, Total	10000	9400	mg/kg	6	20
Antimony, Total	0.73J	ND	mg/kg	NC	20
Arsenic, Total	7.3	7.0	mg/kg	4	20
Barium, Total	110	120	mg/kg	9	20
Beryllium, Total	0.40J	0.38J	mg/kg	NC	20
Cadmium, Total	0.19J	0.20J	mg/kg	NC	20
Calcium, Total	16000	15000	mg/kg	6	20
Chromium, Total	16.	15	mg/kg	6	20
Cobalt, Total	5.0	5.2	mg/kg	4	20
Copper, Total	23.	22	mg/kg	4	20
Iron, Total	16000	14000	mg/kg	13	20
Lead, Total	66.	63	mg/kg	5	20
Magnesium, Total	3100	3100	mg/kg	0	20
Manganese, Total	220	210	mg/kg	5	20
Nickel, Total	12.	12	mg/kg	0	20
Potassium, Total	880	970	mg/kg	10	20
Selenium, Total	0.62J	0.36J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	340	350	mg/kg	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG725042-3 QC Sample: L1422008-01 Client ID: SB-3 (0-2')					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	21.	21	mg/kg	0	20
Zinc, Total	97.	90	mg/kg	7	20
Dissolved Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG725669-3 QC Sample: L1422008-09 Client ID: GW-3					
Manganese, Dissolved	2.270	2.110	mg/l	7	20
Sodium, Dissolved	286.	261	mg/l	9	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG725669-3 QC Sample: L1422008-09 Client ID: GW-3					
Aluminum, Dissolved	0.00644J	0.00631J	mg/l	NC	20
Antimony, Dissolved	0.00374	0.00170J	mg/l	NC	20
Arsenic, Dissolved	0.00035J	0.00022J	mg/l	NC	20
Barium, Dissolved	0.07861	0.07843	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.00128	0.00096J	mg/l	NC	20
Cobalt, Dissolved	0.00026	0.00026	mg/l	0	20
Copper, Dissolved	0.00018J	ND	mg/l	NC	20
Iron, Dissolved	1.92	1.87	mg/l	3	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	49.1	48.3	mg/l	2	20
Nickel, Dissolved	0.00426	0.00381	mg/l	11	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	0.00019J	0.00012J	mg/l	NC	20
Zinc, Dissolved	0.00705J	0.00654J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG725669-3 QC Sample: L1422008-09 Client ID: GW-3					
Calcium, Dissolved	188.	183	mg/l	3	20
Potassium, Dissolved	11.7	11.2	mg/l	4	20
Total Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG726123-3 QC Sample: L1422008-09 Client ID: GW-3					
Antimony, Total	0.00211J	0.00764	mg/l	NC	20
Arsenic, Total	0.00330	0.00395	mg/l	18	20
Barium, Total	0.1465	0.1481	mg/l	1	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	0.00005J	mg/l	NC	20
Chromium, Total	0.00482	0.00456	mg/l	5	20
Cobalt, Total	0.00247	0.00244	mg/l	1	20
Copper, Total	0.00883	0.00933	mg/l	6	20
Lead, Total	0.00942	0.00981	mg/l	4	20
Nickel, Total	0.00945	0.00883	mg/l	7	20
Potassium, Total	13.4	13.7	mg/l	2	20
Selenium, Total	0.00125J	0.00145J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	0.00590	0.00611	mg/l	3	20
Zinc, Total	0.02472	0.02961	mg/l	18	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 09 QC Batch ID: WG726123-3 QC Sample: L1422008-09 Client ID: GW-3					
Aluminum, Total	2.69	2.73	mg/l	1	20
Calcium, Total	206.	206	mg/l	0	20
Iron, Total	14.0	13.8	mg/l	1	20
Magnesium, Total	49.8	49.3	mg/l	1	20
Manganese, Total	1.994	1.978	mg/l	1	20
Sodium, Total	229.	227	mg/l	1	20

INORGANICS
&
MISCELLANEOUS

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-01
Client ID: SB-3 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil

Date Collected: 09/19/14 13:45
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-02
Client ID: SB-6 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil

Date Collected: 09/19/14 09:00
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-03
Client ID: SB-6 (10-12')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil

Date Collected: 09/19/14 09:10
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-04
Client ID: SB-7 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Date Collected: 09/19/14 11:20
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-05
Client ID: SB-7 (9-11')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Date Collected: 09/19/14 11:50
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-06
Client ID: SB-5 (0-2')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil

Date Collected: 09/19/14 10:15
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-07
Client ID: SB-5 (11-13')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Date Collected: 09/19/14 10:45
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1422008
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1422008-08
Client ID: SB-3 (10-12')
Sample Location: 3875 9TH AVE NY, NY
Matrix: Soil
Date Collected: 09/19/14 13:55
Date Received: 09/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	09/23/14 20:02	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG724628-1 QC Sample: L1414049-37 Client ID: DUP Sample						
Solids, Total	88.8	88.3	%	1		20

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 09/20/2014 02:58

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422008-01A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-01B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-01C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-01D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1422008-01E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-01X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-01Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-01Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-02A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-02B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-02C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-02D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422008-02E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-02X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-02Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-02Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-03A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-03B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-03C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-03D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1422008-03E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-03X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-03Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-03Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-04A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-04B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-04C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-04D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422008-04E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-04X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-04Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-04Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-05A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-05B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-05C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-05D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1422008-05E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-05X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-05Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-05Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-06A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-06B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-06C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-06D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422008-06E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-06X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-06Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-06Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-07A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-07B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-07C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-07D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1422008-07E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-07X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-07Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-07Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-08A	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-08B	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-08C	5 gram Encore Sampler	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(2)
L1422008-08D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422008-08E	Amber 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1422008-08X	Vial MeOH preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-08Y	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-08Z	Vial Water preserved split	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1422008-09A	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1422008-09B	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1422008-09C	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1422008-09D	Plastic 500ml HNO3 preserved	B	<2	2.0	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),MG-6020T(180),CO-6020T(180)
L1422008-09E	Plastic 500ml unpreserved	B	7	2.0	Y	Absent	FILTER-MET(1)
L1422008-09F	Amber 500ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8081(7)
L1422008-09G	Amber 500ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8081(7)
L1422008-09H	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8082-1200ML(7)
L1422008-09I	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8082-1200ML(7)
L1422008-09J	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1422008-09K	Amber 1000ml unpreserved	B	7	2.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1422008
Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422008-09X	Plastic 120ml HNO3 preserved spl	B	<2	2.0	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1422008-10A	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)
L1422008-10B	Vial HCl preserved	B	N/A	2.0	Y	Absent	NYTCL-8260(14)

Container Comments

L1422008-09D

L1422008-09X

*Values in parentheses indicate holding time in days

Project Name:	3875 9TH AVE.	**Lab Number:**	L1422008
Project Number:	11995	**Report Date:**	09/29/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name:	3875 9TH AVE.	**Lab Number:**	L1422008
Project Number:	11995	**Report Date:**	09/29/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	3875 9TH AVE.	**Lab Number:**	L1422008
Project Number:	11995	**Report Date:**	09/29/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Revised COC - mmm 9/29/14

Serial_No:09291418:35

CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: 9/19/14

ALPHA Job #: L1422008

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: AKRF

Address: 440 Park Ave South New York NY - Floor 7

Phone: 917 569 8916 (Asya Bychar PM)

Fax:

Email: abychar@akrf.com.

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:

Project Location: 3875 9th Ave. NY NY

Project #: 11995

Project Manager: Ben Rao

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/26/14 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	TAL Metals	Dis. TAL Metals (LF)	PCB	Pest	SVOCs	VOCs	PCB, Pest, SVOC, TAL Metals	TS	Sample Specific Comments	TOTAL # BOTTLES
L1422008_01	SB-3 (0-2')	9/19/14	1345	S	JM				/				X X X			5
02	SB-6 (0-2')		0900	S	JM				/				X X X			5
03	SB-6 (10-12')		0910 ~~0900~~	S	JM				/				X X X			5
04	SB-7 (0-2')	9/19/14	1120 ~~1150~~	S	JM				/				X X X			5
05	SB-7 (9-11')		1150 ~~1120~~	S	JM				/				X X X			5
06	SB-5 (0-2')		1015	S	JM				/				X X X			5
07	SB-5 (11-13')		1045	S	JM				/				X X X			5
08	SB-3 (10-12')		1355	S	JM				/				X X X			5
09	GW-3		1320	GW		X	X	X	/	X	X	X				11
10	TRIP BLANK	9/19/14				X			/							

Container Type	V	P	P	A	A	A	A	E	A	P		
Preservative	B	C	A	A	A	A	A	A	A	A		

Relinquished By:	Date/Time	Received By:	Date/Time
	9/19/14 1630		9-19-14 1630
Tom Cohen	9-19-14 2312	Tom Cohen	9-19-14 2312
	9-19-14 2312		9/19/14 2312

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Serial_No:09291418:35

CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: 9/19/14

ALPHA Job #: L1422008

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: AKRF

Address: 440 Park Ave South New York NY - Floor 7

Phone: 917 569 8916 (Asya Bychar PM)

Fax:

Email: abychar@akrf.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:

Project Location: 3875 9th Ave. NY NY

Project #: 11995

Project Manager: Ben Rao

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/26/14 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOCs; TAL Metals; Dis. TAL Metals (LF); ~~PCBs~~ Pest / SVOCs; PCB; Pest; SVOCs; VOCs; PCB, Pest, SVOC, TAL Metals; TS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	TAL Metals	Dis. TAL Metals (LF)	~~PCBs~~ Pest / SVOCs	PCB	Pest	SVOCs	VOCs	PCB, Pest, SVOC, TAL Metals	TS	Sample Specific Comments	TOTAL # BOTTLES
22008_01	SB-3 (0-2')	9/19/14	1345	S	JM				✓								5
02	SB-6 (0-2')	↓	0900	S	JM				✓								5
03	SB-6 (10-12')	↓	~~0900~~ 0910	S	JM				✓								5
04	SB-7 (0-2')	9/19/14	~~1150~~ 1120	S	JM				✓								5
05	SB-7 (9-11')	↓	~~1150~~	S	JM				✓								5
06	SB-5 (0-2')		1015	S	JM				✓								5
07	SB-5 (11-13')		1045	S	JM				✓								5
08	SB-3 (10-12')		1355	S	JM				✓								5
09	GW-3	↓	1320	GW		X	X	X	X	X	X						11
									✓								

Container Type	V	P	P	A	A	A	A	E	A	P		
Preservative	B	C	A	~~A~~	A	A	A	A	A	A		

Relinquished By:	Date/Time	Received By:	Date/Time
	9/19/14 1630		9-19-14 1630
Tom Cohen	9-19-14 2312	Tom Cohen	9-19-14 2312
	9-19-14 2312		9/19/14 2312

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1421852
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Asya Bychkov
Phone:	(646) 388-9533
Project Name:	3875 9TH AVE.
Project Number:	11995
Report Date:	09/28/14

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Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1421852-01	SB-2 (0-2')	SOIL	3875 9TH AVE.	09/18/14 15:45	09/18/14
L1421852-02	SB-2 (8-10')	SOIL	3875 9TH AVE.	09/18/14 17:15	09/18/14
L1421852-03	SB-4 (8-10')	SOIL	3875 9TH AVE.	09/18/14 13:30	09/18/14
L1421852-04	SB-1 (5-7')	SOIL	3875 9TH AVE.	09/18/14 09:55	09/18/14
L1421852-05	SB-4 (0-2')	SOIL	3875 9TH AVE.	09/18/14 13:05	09/18/14
L1421852-06	SB-1 (0-2')	SOIL	3875 9TH AVE.	09/18/14 09:45	09/18/14
L1421852-07	GW-1	WATER	3875 9TH AVE.	09/18/14 10:10	09/18/14
L1421852-08	GW-2	WATER	3875 9TH AVE.	09/18/14 13:55	09/18/14
L1421852-09	TRIP BLANK	WATER	3875 9TH AVE.	09/18/14 00:00	09/18/14

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 3875 9TH AVE. **Lab Number:** L1421852
Project Number: 11995 **Report Date:** 09/28/14

Case Narrative (continued)

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt
A Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the client's request, the Trip Blank was analyzed.

Semivolatile Organics
L1421852-07 and -08 have elevated detection limits due to limited sample volume available for analysis.
The WG725353-3 LCSD recovery, associated with L1421852-07 and -08, is below the acceptance criteria for benzoic acid (4%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Semivolatile Organics by SIM
L1421852-07 and -08 have elevated detection limits due to limited sample volume available for analysis.

Total Metals
L1421852-01 through -06 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.
The WG724618-4 MS recoveries for aluminum (580%), calcium (0%), copper (0%), iron (0%), magnesium (0%), manganese (0%), and zinc (0%), performed on L1421852-01, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG724618-4 MS recoveries, performed on L1421852-01, are outside the acceptance criteria for barium (0%), lead (0%), sodium (137%), and vanadium (130%). A post digestion spike was performed and yielded unacceptable recoveries for barium (28%) and sodium (143%); lead and vanadium were within acceptance criteria. This has been attributed to sample matrix.
The WG724867-4 MS recoveries for aluminum (0%), calcium (540%), iron (2610%), magnesium (470%),

Project Name: 3875 9TH AVE. **Lab Number:** L1421852
Project Number: 11995 **Report Date:** 09/28/14

Case Narrative (continued)

manganese (0%), potassium (29%), and sodium (0%), performed on L1421852-07, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG724867-4 MS recoveries, performed on L1421852-07, are outside the acceptance criteria for barium (158%), cadmium (131%), chromium (155%), cobalt (128%), copper (147%), lead (128%), nickel (132%), selenium (128%), vanadium (146%), and zinc (142%) . A post digestion spike was performed and yielded an unacceptable recovery for barium (164%); all other compounds were within acceptance criteria. This has been attributed to sample matrix.

The WG724618-3 Laboratory Duplicate RPDs, performed on L1421852-01, are outside the acceptance criteria for arsenic (37%), barium (139%), calcium (87%), copper (67%), iron (35%), lead (75%), magnesium (42%), manganese (52%), and zinc (69%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

The WG724867-3 Laboratory Duplicate RPD, performed on L1421852-07, is outside the acceptance criteria for magnesium (22%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

Dissolved Metals

The WG724919-4 MS recoveries for calcium (0%), iron (290%), magnesium (20%), manganese (10%), potassium (145%), and sodium (0%), performed on L1421852-07, do not apply because the sample concentrations are greater than four times the spike amounts added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 09/28/14

ORGANICS

VOLATILES

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01
Client ID: SB-2 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/22/14 17:18
Analyst: MV
Percent Solids: 89%

Date Collected: 09/18/14 15:45
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.18	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	0.96	J	ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01 Date Collected: 09/18/14 15:45

Client ID: SB-2 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.21	1
Xylene (Total)	ND		ug/kg	2.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichloroethene (total)	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	40		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	3.8	J	ug/kg	12	0.34	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.2	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
o-Chlorotoluene	ND		ug/kg	6.2	0.20	1
p-Chlorotoluene	ND		ug/kg	6.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	0.44	J	ug/kg	6.2	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01 Date Collected: 09/18/14 15:45

Client ID: SB-2 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
1,4-Diethylbenzene	ND		ug/kg	5.0	0.20	1
4-Ethyltoluene	ND		ug/kg	5.0	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.2	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	110		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02
Client ID: SB-2 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/22/14 17:45
Analyst: MV
Percent Solids: 77%

Date Collected: 09/18/14 17:15
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.18	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.13	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.3	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.19	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02 Date Collected: 09/18/14 17:15

Client ID: SB-2 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.17	1
Methyl tert butyl ether	3.0		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.22	1
Xylene (Total)	ND		ug/kg	2.5	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichloroethene (total)	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	24		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	3.6	J	ug/kg	12	0.34	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.3	0.34	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.3	0.17	1
o-Chlorotoluene	ND		ug/kg	6.3	0.20	1
p-Chlorotoluene	ND		ug/kg	6.3	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.3	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.18	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02 Date Collected: 09/18/14 17:15

Client ID: SB-2 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
1,4-Diethylbenzene	ND		ug/kg	5.0	0.20	1
4-Ethyltoluene	ND		ug/kg	5.0	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.3	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03
Client ID: SB-4 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/23/14 10:52
Analyst: BN
Percent Solids: 92%

Date Collected: 09/18/14 13:30
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.17	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	6.0	0.35	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.18	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03 Date Collected: 09/18/14 13:30

Client ID: SB-4 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
Xylene (Total)	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene (total)	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	20		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.33	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.0	0.16	1
o-Chlorotoluene	ND		ug/kg	6.0	0.19	1
p-Chlorotoluene	ND		ug/kg	6.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.27	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.0	0.17	1
Acrylonitrile	ND		ug/kg	12	0.62	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.17	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03 Date Collected: 09/18/14 13:30

Client ID: SB-4 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
1,4-Diethylbenzene	ND		ug/kg	4.8	0.19	1
4-Ethyltoluene	ND		ug/kg	4.8	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04
Client ID: SB-1 (5-7')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/22/14 18:40
Analyst: MV
Percent Solids: 87%

Date Collected: 09/18/14 09:55
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.5	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.18	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.16	1
Chloromethane	ND		ug/kg	6.4	0.38	1
Bromomethane	ND		ug/kg	2.6	0.43	1
Vinyl chloride	ND		ug/kg	2.6	0.15	1
Chloroethane	ND		ug/kg	2.6	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
Trichloroethene	ND		ug/kg	1.3	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.20	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04 Date Collected: 09/18/14 09:55

Client ID: SB-1 (5-7') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.18	1
Methyl tert butyl ether	0.74	J	ug/kg	2.6	0.11	1
p/m-Xylene	ND		ug/kg	2.6	0.25	1
o-Xylene	ND		ug/kg	2.6	0.22	1
Xylene (Total)	ND		ug/kg	2.6	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.18	1
1,2-Dichloroethene (total)	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	13	0.21	1
Styrene	ND		ug/kg	2.6	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.24	1
Acetone	30		ug/kg	13	1.3	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	7.8	J	ug/kg	13	0.35	1
Vinyl acetate	ND		ug/kg	13	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.21	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.35	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.29	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.4	0.26	1
n-Butylbenzene	ND		ug/kg	1.3	0.15	1
sec-Butylbenzene	ND		ug/kg	1.3	0.16	1
tert-Butylbenzene	ND		ug/kg	6.4	0.17	1
o-Chlorotoluene	ND		ug/kg	6.4	0.20	1
p-Chlorotoluene	ND		ug/kg	6.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.29	1
Isopropylbenzene	ND		ug/kg	1.3	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.16	1
Naphthalene	ND		ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.66	1
n-Propylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.18	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04 Date Collected: 09/18/14 09:55

Client ID: SB-1 (5-7') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.18	1
1,4-Dioxane	ND		ug/kg	130	18.	1
1,4-Diethylbenzene	ND		ug/kg	5.1	0.20	1
4-Ethyltoluene	ND		ug/kg	5.1	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.17	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	107		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05
Client ID: SB-4 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/22/14 19:06
Analyst: MV
Percent Solids: 91%

Date Collected: 09/18/14 13:05
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.16	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05 Date Collected: 09/18/14 13:05

Client ID: SB-4 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylene (Total)	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene (total)	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05 Date Collected: 09/18/14 13:05

Client ID: SB-4 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-06	D2	Date Collected:	09/18/14 09:45
Client ID:	SB-1 (0-2')		Date Received:	09/18/14
Sample Location:	3875 9TH AVE.		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260C			
Analytical Date:	09/23/14 17:54			
Analyst:	MV			
Percent Solids:	92%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	300000		ug/kg	19000	530	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06 D
Client ID: SB-1 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/22/14 20:53
Analyst: MV
Percent Solids: 92%

Date Collected: 09/18/14 09:45
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	1700	J	ug/kg	7600	830	10
1,1-Dichloroethane	ND		ug/kg	1100	65.	10
Chloroform	ND		ug/kg	1100	280	10
Carbon tetrachloride	ND		ug/kg	760	160	10
1,2-Dichloropropane	ND		ug/kg	2600	170	10
Dibromochloromethane	ND		ug/kg	760	120	10
1,1,2-Trichloroethane	ND		ug/kg	1100	230	10
Tetrachloroethene	ND		ug/kg	760	100	10
Chlorobenzene	ND		ug/kg	760	260	10
Trichlorofluoromethane	ND		ug/kg	3800	290	10
1,2-Dichloroethane	ND		ug/kg	760	86.	10
1,1,1-Trichloroethane	ND		ug/kg	760	84.	10
Bromodichloromethane	ND		ug/kg	760	130	10
trans-1,3-Dichloropropene	ND		ug/kg	760	91.	10
cis-1,3-Dichloropropene	ND		ug/kg	760	89.	10
1,3-Dichloropropene, Total	ND		ug/kg	760	89.	10
1,1-Dichloropropene	ND		ug/kg	3800	110	10
Bromoform	ND		ug/kg	3000	180	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	760	76.	10
Benzene	2300		ug/kg	760	89.	10
Toluene	12000		ug/kg	1100	150	10
Ethylbenzene	28000		ug/kg	760	96.	10
Chloromethane	ND		ug/kg	3800	220	10
Bromomethane	ND		ug/kg	1500	260	10
Vinyl chloride	2200		ug/kg	1500	89.	10
Chloroethane	ND		ug/kg	1500	240	10
1,1-Dichloroethene	ND		ug/kg	760	200	10
trans-1,2-Dichloroethene	ND		ug/kg	1100	160	10
Trichloroethene	ND		ug/kg	760	94.	10
1,2-Dichlorobenzene	ND		ug/kg	3800	120	10

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06 D Date Collected: 09/18/14 09:45

Client ID: SB-1 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3800	100	10
1,4-Dichlorobenzene	ND		ug/kg	3800	100	10
Methyl tert butyl ether	ND		ug/kg	1500	64.	10
p/m-Xylene	110000		ug/kg	1500	150	10
o-Xylene	41000		ug/kg	1500	130	10
Xylene (Total)	150000		ug/kg	1500	130	10
cis-1,2-Dichloroethene	2500		ug/kg	760	110	10
1,2-Dichloroethene (total)	2500		ug/kg	760	110	10
Dibromomethane	ND		ug/kg	7600	120	10
Styrene	ND		ug/kg	1500	300	10
Dichlorodifluoromethane	ND		ug/kg	7600	140	10
Acetone	ND		ug/kg	7600	780	10
Carbon disulfide	ND		ug/kg	7600	830	10
2-Butanone	ND		ug/kg	7600	200	10
Vinyl acetate	ND		ug/kg	7600	100	10
4-Methyl-2-pentanone	ND		ug/kg	7600	180	10
1,2,3-Trichloropropane	ND		ug/kg	7600	120	10
2-Hexanone	ND		ug/kg	7600	500	10
Bromochloromethane	ND		ug/kg	3800	210	10
2,2-Dichloropropane	ND		ug/kg	3800	170	10
1,2-Dibromoethane	ND		ug/kg	3000	130	10
1,3-Dichloropropane	ND		ug/kg	3800	110	10
1,1,1,2-Tetrachloroethane	ND		ug/kg	760	240	10
Bromobenzene	ND		ug/kg	3800	160	10
n-Butylbenzene	21000		ug/kg	760	87.	10
sec-Butylbenzene	ND		ug/kg	760	92.	10
tert-Butylbenzene	ND		ug/kg	3800	100	10
o-Chlorotoluene	ND		ug/kg	3800	120	10
p-Chlorotoluene	ND		ug/kg	3800	100	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	3800	300	10
Hexachlorobutadiene	ND		ug/kg	3800	170	10
Isopropylbenzene	9500		ug/kg	760	78.	10
p-Isopropyltoluene	4500		ug/kg	760	94.	10
Naphthalene	49000		ug/kg	3800	100	10
Acrylonitrile	ND		ug/kg	7600	390	10
n-Propylbenzene	33000		ug/kg	760	82.	10
1,2,3-Trichlorobenzene	ND		ug/kg	3800	110	10
1,2,4-Trichlorobenzene	ND		ug/kg	3800	140	10
1,3,5-Trimethylbenzene	66000		ug/kg	3800	110	10

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06 D Date Collected: 09/18/14 09:45

Client ID: SB-1 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	240000	E	ug/kg	3800	110	10
1,4-Dioxane	ND		ug/kg	76000	11000	10
1,4-Diethylbenzene	100000		ug/kg	3000	120	10
4-Ethyltoluene	100000		ug/kg	3000	94.	10
1,2,4,5-Tetramethylbenzene	48000		ug/kg	3000	98.	10
Ethyl ether	1000	J	ug/kg	3800	200	10
trans-1,4-Dichloro-2-butene	ND		ug/kg	3800	300	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07
Client ID: GW-1
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/23/14 00:49
Analyst: PD

Date Collected: 09/18/14 10:10
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.99		ug/l	0.50	0.16	1
Toluene	3.1		ug/l	2.5	0.70	1
Ethylbenzene	1.5	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07 Date Collected: 09/18/14 10:10

Client ID: GW-1 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	3.5		ug/l	2.5	0.70	1
p/m-Xylene	5.8		ug/l	2.5	0.70	1
o-Xylene	2.9		ug/l	2.5	0.70	1
Xylenes, Total	8.7		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	31		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.4	J	ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07 Date Collected: 09/18/14 10:10

Client ID: GW-1 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	4.5		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	2.2		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	1.1	J	ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	97		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08
Client ID: GW-2
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/23/14 01:23
Analyst: PD

Date Collected: 09/18/14 13:55
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.45	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.52		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08 Date Collected: 09/18/14 13:55

Client ID: GW-2 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	5.3		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.96	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	0.96	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	0.81	J	ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08 Date Collected: 09/18/14 13:55

Client ID: GW-2 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	98		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-09
Client ID: TRIP BLANK
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/23/14 15:53
Analyst: PD

Date Collected: 09/18/14 00:00
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-09 Date Collected: 09/18/14 00:00

Client ID: TRIP BLANK Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-09 Date Collected: 09/18/14 00:00

Client ID: TRIP BLANK Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	105		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 16:27
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG724405-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 16:27
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG724405-3					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Diisopropyl Ether	ND		ug/l	2.0	0.65
Tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 16:27
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG724405-3					
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 16:27
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG724405-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	99		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG724470-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.20	J	ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG724470-3					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG724470-3					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG724470-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:06
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG724474-3					
Methylene chloride	2.0	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	0.49	J	ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:06
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG724474-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	0.38	J	ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	0.38	J	ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	3.0	J	ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:06
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG724474-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	0.70	J	ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:06
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG724474-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-3					
Methylene chloride	ND		ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	7.7
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	19.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	8.7
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	5.9
1,3-Dichloropropene, Total	ND		ug/kg	50	5.9
1,1-Dichloropropene	ND		ug/kg	250	7.1
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	5.0
Benzene	ND		ug/kg	50	5.9
Toluene	10	J	ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Chloromethane	ND		ug/kg	250	15.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	5.9
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.
Trichloroethene	ND		ug/kg	50	6.2

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-3					
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	9.9
o-Xylene	ND		ug/kg	100	8.6
Xylene (Total)	ND		ug/kg	100	8.6
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
1,2-Dichloroethene (total)	ND		ug/kg	50	7.1
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	9.5
Acetone	ND		ug/kg	500	52.
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	14.
Vinyl acetate	ND		ug/kg	500	6.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.1
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	14.
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.7
1,3-Dichloropropane	ND		ug/kg	250	7.3
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
tert-Butylbenzene	ND		ug/kg	250	6.8
o-Chlorotoluene	ND		ug/kg	250	8.0

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-3					
p-Chlorotoluene	ND		ug/kg	250	6.6
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	11.
Isopropylbenzene	ND		ug/kg	50	5.2
p-Isopropyltoluene	ND		ug/kg	50	6.2
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	150
n-Propylbenzene	ND		ug/kg	50	5.5
1,2,3-Trichlorobenzene	ND		ug/kg	250	7.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	9.1
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
Methyl Acetate	ND		ug/kg	1000	14.
Ethyl Acetate	ND		ug/kg	1000	46.
Acrolein	ND		ug/kg	1200	400
Cyclohexane	ND		ug/kg	1000	7.3
1,4-Dioxane	ND		ug/kg	5000	720
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	6.2
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	50.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.
Methyl cyclohexane	ND		ug/kg	200	7.7
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	5.8
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	4.8

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/14 11:54
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-6					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-6					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	0.36	J	ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylene (Total)	0.36	J	ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene (total)	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	2.1	J	ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-6					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	0.44	J	ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 06 Batch: WG724475-6					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	98		70-130

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 11:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG724584-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 11:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG724584-3					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/14 11:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG724584-3					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG724405-1 WG724405-2								
Methylene chloride	100		99		70-130	1		20
1,1-Dichloroethane	109		110		70-130	1		20
Chloroform	106		106		70-130	0		20
Carbon tetrachloride	96		95		63-132	1		20
1,2-Dichloropropane	107		106		70-130	1		20
Dibromochloromethane	102		101		63-130	1		20
1,1,2-Trichloroethane	107		107		70-130	0		20
Tetrachloroethene	94		94		70-130	0		20
Chlorobenzene	103		103		75-130	0		20
Trichlorofluoromethane	95		93		62-150	2		20
1,2-Dichloroethane	125		124		70-130	1		20
1,1,1-Trichloroethane	106		103		67-130	3		20
Bromodichloromethane	106		106		67-130	0		20
trans-1,3-Dichloropropene	103		101		70-130	2		20
cis-1,3-Dichloropropene	99		98		70-130	1		20
1,1-Dichloropropene	102		99		70-130	3		20
Bromoform	96		95		54-136	1		20
1,1,2,2-Tetrachloroethane	111		112		67-130	1		20
Benzene	100		99		70-130	1		20
Toluene	107		106		70-130	1		20
Ethylbenzene	109		108		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG724405-1 WG724405-2								
Chloromethane	**42**	Q	**39**	Q	64-130	7		20
Bromomethane	41		43		39-139	5		20
Vinyl chloride	82		80		55-140	2		20
Chloroethane	103		98		55-138	5		20
1,1-Dichloroethene	92		90		61-145	2		20
trans-1,2-Dichloroethene	92		92		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	102		103		70-130	1		20
1,3-Dichlorobenzene	101		101		70-130	0		20
1,4-Dichlorobenzene	100		101		70-130	1		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	108		108		70-130	0		20
o-Xylene	111		109		70-130	2		20
cis-1,2-Dichloroethene	99		98		70-130	1		20
Dibromomethane	101		103		70-130	2		20
1,2,3-Trichloropropane	117		118		64-130	1		20
Acrylonitrile	109		110		70-130	1		20
Diisopropyl Ether	117		121		70-130	3		20
Tert-Butyl Alcohol	123		116		70-130	6		20
Styrene	108		107		70-130	1		20
Dichlorodifluoromethane	50		49		36-147	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG724405-1 WG724405-2								
Acetone	148		145		58-148	2		20
Carbon disulfide	92		91		51-130	1		20
2-Butanone	136		137		63-138	1		20
Vinyl acetate	120		119		70-130	1		20
4-Methyl-2-pentanone	107		110		59-130	3		20
2-Hexanone	**136**	Q	**138**	Q	57-130	1		20
Acrolein	101		100		40-160	1		20
Bromochloromethane	100		99		70-130	1		20
2,2-Dichloropropane	81		77		63-133	5		20
1,2-Dibromoethane	103		103		70-130	0		20
1,3-Dichloropropane	109		109		70-130	0		20
1,1,1,2-Tetrachloroethane	104		104		64-130	0		20
Bromobenzene	100		101		70-130	1		20
n-Butylbenzene	107		109		53-136	2		20
sec-Butylbenzene	106		105		70-130	1		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	111		112		70-130	1		20
p-Chlorotoluene	112		112		70-130	0		20
1,2-Dibromo-3-chloropropane	121		117		41-144	3		20
Hexachlorobutadiene	93		93		63-130	0		20
Isopropylbenzene	106		104		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG724405-1 WG724405-2								
p-Isopropyltoluene	105		106		70-130	1		20
Naphthalene	108		110		70-130	2		20
n-Propylbenzene	108		108		69-130	0		20
1,2,3-Trichlorobenzene	99		100		70-130	1		20
1,2,4-Trichlorobenzene	95		97		70-130	2		20
1,3,5-Trimethylbenzene	109		109		64-130	0		20
1,2,4-Trimethylbenzene	108		107		70-130	1		20
Methyl Acetate	112		119		70-130	6		20
Ethyl Acetate	122		125		70-130	2		20
Cyclohexane	100		98		70-130	2		20
Ethyl-Tert-Butyl-Ether	117		117		70-130	0		20
Tertiary-Amyl Methyl Ether	110		111		66-130	1		20
1,4-Dioxane	112		102		56-162	9		20
Freon-113	88		84		70-130	5		20
p-Diethylbenzene	112		112		70-130	0		20
p-Ethyltoluene	106		106		70-130	0		20
1,2,4,5-Tetramethylbenzene	106		107		70-130	1		20
Ethyl ether	102		98		59-134	4		20
trans-1,4-Dichloro-2-butene	105		105		70-130	0		20
Methyl cyclohexane	92		91		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG724405-1 WG724405-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		122		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	110		111		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG724470-1 WG724470-2								
Methylene chloride	96		98		70-130	2		30
1,1-Dichloroethane	100		103		70-130	3		30
Chloroform	98		101		70-130	3		30
Carbon tetrachloride	109		110		70-130	1		30
1,2-Dichloropropane	95		99		70-130	4		30
Dibromochloromethane	101		107		70-130	6		30
1,1,2-Trichloroethane	97		101		70-130	4		30
Tetrachloroethene	107		110		70-130	3		30
Chlorobenzene	98		104		70-130	6		30
Trichlorofluoromethane	132		136		70-139	3		30
1,2-Dichloroethane	103		107		70-130	4		30
1,1,1-Trichloroethane	104		105		70-130	1		30
Bromodichloromethane	96		101		70-130	5		30
trans-1,3-Dichloropropene	101		106		70-130	5		30
cis-1,3-Dichloropropene	93		96		70-130	3		30
1,1-Dichloropropene	99		100		70-130	1		30
Bromoform	102		107		70-130	5		30
1,1,2,2-Tetrachloroethane	94		97		70-130	3		30
Benzene	91		92		70-130	1		30
Toluene	96		99		70-130	3		30
Ethylbenzene	101		104		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG724470-1 WG724470-2								
Chloromethane	92		97		52-130	5		30
Bromomethane	132		132		57-147	0		30
Vinyl chloride	109		112		67-130	3		30
Chloroethane	110		112		50-151	2		30
1,1-Dichloroethene	94		97		65-135	3		30
trans-1,2-Dichloroethene	91		95		70-130	4		30
Trichloroethene	95		99		70-130	4		30
1,2-Dichlorobenzene	100		106		70-130	6		30
1,3-Dichlorobenzene	102		108		70-130	6		30
1,4-Dichlorobenzene	101		106		70-130	5		30
Methyl tert butyl ether	96		100		66-130	4		30
p/m-Xylene	100		105		70-130	5		30
o-Xylene	98		103		70-130	5		30
cis-1,2-Dichloroethene	92		96		70-130	4		30
Dibromomethane	94		98		70-130	4		30
Styrene	98		104		70-130	6		30
Dichlorodifluoromethane	80		84		30-146	5		30
Acetone	111		111		54-140	0		30
Carbon disulfide	86		90		59-130	5		30
2-Butanone	100		102		70-130	2		30
Vinyl acetate	99		103		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG724470-1 WG724470-2								
4-Methyl-2-pentanone	93		97		70-130	4		30
1,2,3-Trichloropropane	99		102		68-130	3		30
2-Hexanone	103		105		70-130	2		30
Bromochloromethane	94		98		70-130	4		30
2,2-Dichloropropane	102		104		70-130	2		30
1,2-Dibromoethane	98		104		70-130	6		30
1,3-Dichloropropane	96		101		69-130	5		30
1,1,1,2-Tetrachloroethane	102		108		70-130	6		30
Bromobenzene	101		105		70-130	4		30
n-Butylbenzene	104		108		70-130	4		30
sec-Butylbenzene	102		105		70-130	3		30
tert-Butylbenzene	102		104		70-130	2		30
o-Chlorotoluene	101		104		70-130	3		30
p-Chlorotoluene	102		105		70-130	3		30
1,2-Dibromo-3-chloropropane	96		102		68-130	6		30
Hexachlorobutadiene	107		108		67-130	1		30
Isopropylbenzene	102		105		70-130	3		30
p-Isopropyltoluene	102		106		70-130	4		30
Naphthalene	91		96		70-130	5		30
Acrylonitrile	97		101		70-130	4		30
Isopropyl Ether	99		105		66-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG724470-1 WG724470-2								
tert-Butyl Alcohol	90		96		70-130	6		30
n-Propylbenzene	100		104		70-130	4		30
1,2,3-Trichlorobenzene	99		104		70-130	5		30
1,2,4-Trichlorobenzene	101		107		70-130	6		30
1,3,5-Trimethylbenzene	100		106		70-130	6		30
1,2,4-Trimethylbenzene	100		104		70-130	4		30
Methyl Acetate	112		99		51-146	12		30
Ethyl Acetate	92		96		70-130	4		30
Acrolein	110		84		70-130	27		30
Cyclohexane	108		111		59-142	3		30
1,4-Dioxane	93		98		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		117		50-139	3		30
1,4-Diethylbenzene	92		96		70-130	4		30
4-Ethyltoluene	91		95		70-130	4		30
1,2,4,5-Tetramethylbenzene	90		95		70-130	5		30
Tetrahydrofuran	92		97		66-130	5		30
Ethyl ether	111		118		67-130	6		30
trans-1,4-Dichloro-2-butene	93		98		70-130	5		30
Methyl cyclohexane	104		108		70-130	4		30
Ethyl-Tert-Butyl-Ether	98		103		70-130	5		30
Tertiary-Amyl Methyl Ether	92		96		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG724470-1 WG724470-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	106		107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG724474-1 WG724474-2								
Methylene chloride	116		118		70-130	2		30
1,1-Dichloroethane	109		104		70-130	5		30
Chloroform	109		105		70-130	4		30
Carbon tetrachloride	98		91		70-130	7		30
1,2-Dichloropropane	111		107		70-130	4		30
Dibromochloromethane	102		100		70-130	2		30
2-Chloroethylvinyl ether	106		108		70-130	2		30
1,1,2-Trichloroethane	101		101		70-130	0		30
Tetrachloroethene	101		94		70-130	7		30
Chlorobenzene	102		98		70-130	4		30
Trichlorofluoromethane	120		107		70-139	11		30
1,2-Dichloroethane	108		106		70-130	2		30
1,1,1-Trichloroethane	108		100		70-130	8		30
Bromodichloromethane	108		105		70-130	3		30
trans-1,3-Dichloropropene	99		99		70-130	0		30
cis-1,3-Dichloropropene	109		105		70-130	4		30
1,1-Dichloropropene	106		99		70-130	7		30
Bromoform	86		88		70-130	2		30
1,1,2,2-Tetrachloroethane	98		100		70-130	2		30
Benzene	110		104		70-130	6		30
Toluene	100		96		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG724474-1 WG724474-2								
Ethylbenzene	104		98		70-130	6		30
Chloromethane	109		101		52-130	8		30
Bromomethane	146		128		57-147	13		30
Vinyl chloride	112		100		67-130	11		30
Chloroethane	127		115		50-151	10		30
1,1-Dichloroethene	109		100		65-135	9		30
trans-1,2-Dichloroethene	111		104		70-130	7		30
Trichloroethene	110		104		70-130	6		30
1,2-Dichlorobenzene	100		97		70-130	3		30
1,3-Dichlorobenzene	99		96		70-130	3		30
1,4-Dichlorobenzene	99		96		70-130	3		30
Methyl tert butyl ether	104		104		66-130	0		30
p/m-Xylene	106		100		70-130	6		30
o-Xylene	105		100		70-130	5		30
cis-1,2-Dichloroethene	111		107		70-130	4		30
Dibromomethane	106		106		70-130	0		30
Styrene	104		100		70-130	4		30
Dichlorodifluoromethane	104		93		30-146	11		30
Acetone	110		107		54-140	3		30
Carbon disulfide	99		91		59-130	8		30
2-Butanone	110		113		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG724474-1 WG724474-2								
Vinyl acetate	110		112		70-130	2		30
4-Methyl-2-pentanone	106		109		70-130	3		30
1,2,3-Trichloropropane	93		97		68-130	4		30
2-Hexanone	96		95		70-130	1		30
Bromochloromethane	113		110		70-130	3		30
2,2-Dichloropropane	108		101		70-130	7		30
1,2-Dibromoethane	102		100		70-130	2		30
1,3-Dichloropropane	99		100		69-130	1		30
1,1,1,2-Tetrachloroethane	102		100		70-130	2		30
Bromobenzene	97		96		70-130	1		30
n-Butylbenzene	100		94		70-130	6		30
sec-Butylbenzene	98		93		70-130	5		30
tert-Butylbenzene	97		92		70-130	5		30
o-Chlorotoluene	100		95		70-130	5		30
p-Chlorotoluene	98		94		70-130	4		30
1,2-Dibromo-3-chloropropane	91		92		68-130	1		30
Hexachlorobutadiene	100		93		67-130	7		30
Isopropylbenzene	97		92		70-130	5		30
p-Isopropyltoluene	99		94		70-130	5		30
Naphthalene	97		98		70-130	1		30
Acrylonitrile	110		114		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG724474-1 WG724474-2								
Isopropyl Ether	109		107		66-130	2		30
tert-Butyl Alcohol	103		107		70-130	4		30
n-Propylbenzene	99		93		70-130	6		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	101		98		70-130	3		30
1,3,5-Trimethylbenzene	98		94		70-130	4		30
1,2,4-Trimethylbenzene	97		94		70-130	3		30
Methyl Acetate	105		108		51-146	3		30
Ethyl Acetate	106		106		70-130	0		30
Cyclohexane	110		100		59-142	10		30
1,4-Dioxane	103		106		65-136	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		100		50-139	10		30
1,4-Diethylbenzene	100		92		70-130	8		30
4-Ethyltoluene	98		92		70-130	6		30
1,2,4,5-Tetramethylbenzene	100		95		70-130	5		30
Tetrahydrofuran	106		108		66-130	2		30
Ethyl ether	97		109		67-130	12		30
trans-1,4-Dichloro-2-butene	99		101		70-130	2		30
Methyl cyclohexane	108		97		70-130	11		30
Ethyl-Tert-Butyl-Ether	108		107		70-130	1		30
Tertiary-Amyl Methyl Ether	104		105		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG724474-1 WG724474-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-1 WG724475-2								
Methylene chloride	96		98		70-130	2		30
1,1-Dichloroethane	100		103		70-130	3		30
Chloroform	98		101		70-130	3		30
Carbon tetrachloride	109		110		70-130	1		30
1,2-Dichloropropane	95		99		70-130	4		30
Dibromochloromethane	101		107		70-130	6		30
1,1,2-Trichloroethane	97		101		70-130	4		30
Tetrachloroethene	107		110		70-130	3		30
Chlorobenzene	98		104		70-130	6		30
Trichlorofluoromethane	132		136		70-139	3		30
1,2-Dichloroethane	103		107		70-130	4		30
1,1,1-Trichloroethane	104		105		70-130	1		30
Bromodichloromethane	96		101		70-130	5		30
trans-1,3-Dichloropropene	101		106		70-130	5		30
cis-1,3-Dichloropropene	93		96		70-130	3		30
1,1-Dichloropropene	99		100		70-130	1		30
Bromoform	102		107		70-130	5		30
1,1,2,2-Tetrachloroethane	94		97		70-130	3		30
Benzene	91		92		70-130	1		30
Toluene	96		99		70-130	3		30
Ethylbenzene	101		104		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-1 WG724475-2								
Chloromethane	92		97		52-130	5		30
Bromomethane	132		132		57-147	0		30
Vinyl chloride	109		112		67-130	3		30
Chloroethane	110		112		50-151	2		30
1,1-Dichloroethene	94		97		65-135	3		30
trans-1,2-Dichloroethene	91		95		70-130	4		30
Trichloroethene	95		99		70-130	4		30
1,2-Dichlorobenzene	100		106		70-130	6		30
1,3-Dichlorobenzene	102		108		70-130	6		30
1,4-Dichlorobenzene	101		106		70-130	5		30
Methyl tert butyl ether	96		100		66-130	4		30
p/m-Xylene	100		105		70-130	5		30
o-Xylene	98		103		70-130	5		30
cis-1,2-Dichloroethene	92		96		70-130	4		30
Dibromomethane	94		98		70-130	4		30
Styrene	98		104		70-130	6		30
Dichlorodifluoromethane	80		84		30-146	5		30
Acetone	111		111		54-140	0		30
Carbon disulfide	86		90		59-130	5		30
2-Butanone	100		102		70-130	2		30
Vinyl acetate	99		103		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-1 WG724475-2								
4-Methyl-2-pentanone	93		97		70-130	4		30
1,2,3-Trichloropropane	99		102		68-130	3		30
2-Hexanone	103		105		70-130	2		30
Bromochloromethane	94		98		70-130	4		30
2,2-Dichloropropane	102		104		70-130	2		30
1,2-Dibromoethane	98		104		70-130	6		30
1,3-Dichloropropane	96		101		69-130	5		30
1,1,1,2-Tetrachloroethane	102		108		70-130	6		30
Bromobenzene	101		105		70-130	4		30
n-Butylbenzene	104		108		70-130	4		30
sec-Butylbenzene	102		105		70-130	3		30
tert-Butylbenzene	102		104		70-130	2		30
o-Chlorotoluene	101		104		70-130	3		30
p-Chlorotoluene	102		105		70-130	3		30
1,2-Dibromo-3-chloropropane	96		102		68-130	6		30
Hexachlorobutadiene	107		108		67-130	1		30
Isopropylbenzene	102		105		70-130	3		30
p-Isopropyltoluene	102		106		70-130	4		30
Naphthalene	91		96		70-130	5		30
Acrylonitrile	97		101		70-130	4		30
Isopropyl Ether	99		105		66-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-1 WG724475-2								
tert-Butyl Alcohol	90		96		70-130	6		30
n-Propylbenzene	100		104		70-130	4		30
1,2,3-Trichlorobenzene	99		104		70-130	5		30
1,2,4-Trichlorobenzene	101		107		70-130	6		30
1,3,5-Trimethylbenzene	100		106		70-130	6		30
1,2,4-Trimethylbenzene	100		104		70-130	4		30
Methyl Acetate	112		99		51-146	12		30
Ethyl Acetate	92		96		70-130	4		30
Acrolein	110		84		70-130	27		30
Cyclohexane	108		111		59-142	3		30
1,4-Dioxane	93		98		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		117		50-139	3		30
1,4-Diethylbenzene	92		96		70-130	4		30
4-Ethyltoluene	91		95		70-130	4		30
1,2,4,5-Tetramethylbenzene	90		95		70-130	5		30
Tetrahydrofuran	92		97		66-130	5		30
Ethyl ether	111		118		67-130	6		30
trans-1,4-Dichloro-2-butene	93		98		70-130	5		30
Methyl cyclohexane	104		108		70-130	4		30
Ethyl-Tert-Butyl-Ether	98		103		70-130	5		30
Tertiary-Amyl Methyl Ether	92		96		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-1 WG724475-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	106		107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-4 WG724475-5								
Methylene chloride	114		120		70-130	5		30
1,1-Dichloroethane	107		105		70-130	2		30
Chloroform	113		112		70-130	1		30
Carbon tetrachloride	123		118		70-130	4		30
1,2-Dichloropropane	102		101		70-130	1		30
Dibromochloromethane	102		105		70-130	3		30
2-Chloroethylvinyl ether	90		94		70-130	4		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	107		102		70-130	5		30
Chlorobenzene	104		103		70-130	1		30
Trichlorofluoromethane	122		116		70-139	5		30
1,2-Dichloroethane	110		112		70-130	2		30
1,1,1-Trichloroethane	120		114		70-130	5		30
Bromodichloromethane	111		112		70-130	1		30
trans-1,3-Dichloropropene	99		103		70-130	4		30
cis-1,3-Dichloropropene	105		106		70-130	1		30
1,1-Dichloropropene	111		105		70-130	6		30
Bromoform	91		94		70-130	3		30
1,1,2,2-Tetrachloroethane	88		90		70-130	2		30
Benzene	106		105		70-130	1		30
Toluene	100		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-4 WG724475-5								
Ethylbenzene	108		106		70-130	2		30
Chloromethane	94		90		52-130	4		30
Bromomethane	108		110		57-147	2		30
Vinyl chloride	109		104		67-130	5		30
Chloroethane	133		126		50-151	5		30
1,1-Dichloroethene	108		102		65-135	6		30
trans-1,2-Dichloroethene	106		105		70-130	1		30
Trichloroethene	114		109		70-130	4		30
1,2-Dichlorobenzene	101		101		70-130	0		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	100		101		70-130	1		30
Methyl tert butyl ether	99		103		66-130	4		30
p/m-Xylene	112		110		70-130	2		30
o-Xylene	110		109		70-130	1		30
cis-1,2-Dichloroethene	106		106		70-130	0		30
Dibromomethane	104		108		70-130	4		30
Styrene	112		111		70-130	1		30
Dichlorodifluoromethane	105		99		30-146	6		30
Acetone	93		98		54-140	5		30
Carbon disulfide	96		92		59-130	4		30
2-Butanone	89		95		70-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-4 WG724475-5								
Vinyl acetate	98		100		70-130	2		30
4-Methyl-2-pentanone	85		89		70-130	5		30
1,2,3-Trichloropropane	88		96		68-130	9		30
2-Hexanone	76		81		70-130	6		30
Bromochloromethane	109		110		70-130	1		30
2,2-Dichloropropane	116		112		70-130	4		30
1,2-Dibromoethane	97		99		70-130	2		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	109		110		70-130	1		30
Bromobenzene	98		99		70-130	1		30
n-Butylbenzene	106		102		70-130	4		30
sec-Butylbenzene	105		102		70-130	3		30
tert-Butylbenzene	105		102		70-130	3		30
o-Chlorotoluene	103		101		70-130	2		30
p-Chlorotoluene	102		100		70-130	2		30
1,2-Dibromo-3-chloropropane	78		82		68-130	5		30
Hexachlorobutadiene	110		106		67-130	4		30
Isopropylbenzene	111		108		70-130	3		30
p-Isopropyltoluene	106		102		70-130	4		30
Naphthalene	89		92		70-130	3		30
Acrylonitrile	90		94		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-4 WG724475-5								
Isopropyl Ether	99		99		66-130	0		30
tert-Butyl Alcohol	82		88		70-130	7		30
n-Propylbenzene	103		100		70-130	3		30
1,2,3-Trichlorobenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	104		102		70-130	2		30
1,3,5-Trimethylbenzene	105		102		70-130	3		30
1,2,4-Trimethylbenzene	104		102		70-130	2		30
Methyl Acetate	86		91		51-146	6		30
Ethyl Acetate	86		92		70-130	7		30
Acrolein	**217**	Q	**201**	Q	70-130	8		30
Cyclohexane	107		100		59-142	7		30
1,4-Dioxane	87		95		65-136	9		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		105		50-139	6		30
1,4-Diethylbenzene	122		118		70-130	3		30
4-Ethyltoluene	119		116		70-130	3		30
1,2,4,5-Tetramethylbenzene	121		118		70-130	3		30
Tetrahydrofuran	85		91		66-130	7		30
Ethyl ether	102		105		67-130	3		30
trans-1,4-Dichloro-2-butene	87		92		70-130	6		30
Methyl cyclohexane	109		103		70-130	6		30
Ethyl-Tert-Butyl-Ether	102		104		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 06 Batch: WG724475-4 WG724475-5								
Tertiary-Amyl Methyl Ether	100		104		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		107		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	107		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
Methylene chloride	101		103		70-130	2		20
1,1-Dichloroethane	103		100		70-130	3		20
Chloroform	113		110		70-130	3		20
Carbon tetrachloride	103		100		63-132	3		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	94		94		63-130	0		20
1,1,2-Trichloroethane	99		102		70-130	3		20
Tetrachloroethene	90		88		70-130	2		20
Chlorobenzene	92		91		75-130	1		20
Trichlorofluoromethane	122		118		62-150	3		20
1,2-Dichloroethane	110		111		70-130	1		20
1,1,1-Trichloroethane	110		107		67-130	3		20
Bromodichloromethane	105		103		67-130	2		20
trans-1,3-Dichloropropene	99		100		70-130	1		20
cis-1,3-Dichloropropene	96		96		70-130	0		20
1,1-Dichloropropene	106		102		70-130	4		20
Bromoform	76		81		54-136	6		20
1,1,2,2-Tetrachloroethane	84		88		67-130	5		20
Benzene	100		98		70-130	2		20
Toluene	93		90		70-130	3		20
Ethylbenzene	96		95		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
Chloromethane	77		90		64-130	16		20
Bromomethane	116		119		39-139	3		20
Vinyl chloride	95		96		55-140	1		20
Chloroethane	109		108		55-138	1		20
1,1-Dichloroethene	102		96		61-145	6		20
trans-1,2-Dichloroethene	101		100		70-130	1		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	84		86		70-130	2		20
1,3-Dichlorobenzene	86		86		70-130	0		20
1,4-Dichlorobenzene	87		88		70-130	1		20
Methyl tert butyl ether	101		106		63-130	5		20
p/m-Xylene	96		95		70-130	1		20
o-Xylene	96		97		70-130	1		20
cis-1,2-Dichloroethene	103		102		70-130	1		20
Dibromomethane	101		103		70-130	2		20
1,2,3-Trichloropropane	88		96		64-130	9		20
Acrylonitrile	110		113		70-130	3		20
Styrene	107		106		70-130	1		20
Dichlorodifluoromethane	61		60		36-147	2		20
Acetone	131		133		58-148	2		20
Carbon disulfide	84		82		51-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
2-Butanone	138		**146**	Q	63-138	6		20
Vinyl acetate	105		107		70-130	2		20
4-Methyl-2-pentanone	82		87		59-130	6		20
2-Hexanone	101		107		57-130	6		20
Bromochloromethane	102		102		70-130	0		20
2,2-Dichloropropane	108		106		63-133	2		20
1,2-Dibromoethane	98		97		70-130	1		20
1,3-Dichloropropane	99		102		70-130	3		20
1,1,1,2-Tetrachloroethane	105		101		64-130	4		20
Bromobenzene	**68**	Q	**68**	Q	70-130	0		20
n-Butylbenzene	90		88		53-136	2		20
sec-Butylbenzene	82		79		70-130	4		20
tert-Butylbenzene	72		72		70-130	0		20
o-Chlorotoluene	80		79		70-130	1		20
p-Chlorotoluene	77		76		70-130	1		20
1,2-Dibromo-3-chloropropane	86		89		41-144	3		20
Hexachlorobutadiene	83		86		63-130	4		20
Isopropylbenzene	**66**	Q	**65**	Q	70-130	2		20
p-Isopropyltoluene	80		79		70-130	1		20
Naphthalene	85		92		70-130	8		20
n-Propylbenzene	73		72		69-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG724584-1 WG724584-2								
1,2,3-Trichlorobenzene	87		93		70-130	7		20
1,2,4-Trichlorobenzene	85		88		70-130	3		20
1,3,5-Trimethylbenzene	83		82		64-130	1		20
1,2,4-Trimethylbenzene	80		78		70-130	3		20
1,4-Dioxane	97		90		56-162	7		20
p-Diethylbenzene	82		81		70-130	1		20
p-Ethyltoluene	77		76		70-130	1		20
1,2,4,5-Tetramethylbenzene	79		78		70-130	1		20
Ethyl ether	104		105		59-134	1		20
trans-1,4-Dichloro-2-butene	74		77		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		110		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	81		80		70-130
Dibromofluoromethane	109		109		70-130

SEMIVOLATILES

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01
Client ID: SB-2 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/24/14 22:30
Analyst: JB
Percent Solids: 89%

Date Collected: 09/18/14 15:45
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	52	J	ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	60.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	60.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	1200		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	150	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	130	J	ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	170	J	ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01 Date Collected: 09/18/14 15:45

Client ID: SB-2 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	950		ug/kg	110	36.	1
Benzo(a)pyrene	1100		ug/kg	150	45.	1
Benzo(b)fluoranthene	1500		ug/kg	110	37.	1
Benzo(k)fluoranthene	600		ug/kg	110	35.	1
Chrysene	1100		ug/kg	110	36.	1
Acenaphthylene	590		ug/kg	150	34.	1
Anthracene	460		ug/kg	110	30.	1
Benzo(ghi)perylene	880		ug/kg	150	38.	1
Fluorene	92	J	ug/kg	180	52.	1
Phenanthrene	540		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	210		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	950		ug/kg	150	41.	1
Pyrene	1300		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	61.	1
2-Methylnaphthalene	69	J	ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	59.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	88	J	ug/kg	180	39.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01 Date Collected: 09/18/14 15:45

Client ID: SB-2 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	105		0-136
4-Terphenyl-d14	53		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02
Client ID: SB-2 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/24/14 22:54
Analyst: JB
Percent Solids: 77%

Date Collected: 09/18/14 17:15
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	44.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	70.	1
Hexachlorobenzene	ND		ug/kg	130	40.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	60.	1
2-Chloronaphthalene	ND		ug/kg	220	70.	1
1,2-Dichlorobenzene	ND		ug/kg	220	70.	1
1,3-Dichlorobenzene	ND		ug/kg	220	68.	1
1,4-Dichlorobenzene	ND		ug/kg	220	65.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	46.	1
2,6-Dinitrotoluene	ND		ug/kg	220	55.	1
Fluoranthene	ND		ug/kg	130	39.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	65.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	49.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	76.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	65.	1
Hexachlorobutadiene	ND		ug/kg	220	61.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	140	1
Hexachloroethane	ND		ug/kg	170	39.	1
Isophorone	ND		ug/kg	190	57.	1
Naphthalene	ND		ug/kg	220	71.	1
Nitrobenzene	ND		ug/kg	190	51.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	170	45.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	64.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	220	56.	1
Butyl benzyl phthalate	ND		ug/kg	220	42.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	53.	1
Diethyl phthalate	ND		ug/kg	220	45.	1
Dimethyl phthalate	ND		ug/kg	220	55.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02 Date Collected: 09/18/14 17:15

Client ID: SB-2 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	130	42.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	43.	1
Benzo(k)fluoranthene	ND		ug/kg	130	41.	1
Chrysene	ND		ug/kg	130	42.	1
Acenaphthylene	ND		ug/kg	170	40.	1
Anthracene	ND		ug/kg	130	36.	1
Benzo(ghi)perylene	ND		ug/kg	170	45.	1
Fluorene	ND		ug/kg	220	62.	1
Phenanthrene	ND		ug/kg	130	42.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	42.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	170	48.	1
Pyrene	ND		ug/kg	130	42.	1
Biphenyl	ND		ug/kg	490	71.	1
4-Chloroaniline	ND		ug/kg	220	57.	1
2-Nitroaniline	ND		ug/kg	220	61.	1
3-Nitroaniline	ND		ug/kg	220	59.	1
4-Nitroaniline	ND		ug/kg	220	58.	1
Dibenzofuran	ND		ug/kg	220	72.	1
2-Methylnaphthalene	ND		ug/kg	260	69.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	67.	1
Acetophenone	ND		ug/kg	220	67.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
P-Chloro-M-Cresol	ND		ug/kg	220	62.	1
2-Chlorophenol	ND		ug/kg	220	65.	1
2,4-Dichlorophenol	ND		ug/kg	190	70.	1
2,4-Dimethylphenol	ND		ug/kg	220	64.	1
2-Nitrophenol	ND		ug/kg	460	67.	1
4-Nitrophenol	ND		ug/kg	300	70.	1
2,4-Dinitrophenol	ND		ug/kg	1000	290	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	79.	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	220	64.	1
2-Methylphenol	ND		ug/kg	220	69.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	70.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	70.	1
Benzoic Acid	300	J	ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	46.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02 Date Collected: 09/18/14 17:15

Client ID: SB-2 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	101		0-136
4-Terphenyl-d14	54		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03
Client ID: SB-4 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/24/14 23:18
Analyst: JB
Percent Solids: 92%

Date Collected: 09/18/14 13:30
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	58.	1
Hexachlorobenzene	ND		ug/kg	100	33.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	180	57.	1
1,2-Dichlorobenzene	ND		ug/kg	180	58.	1
1,3-Dichlorobenzene	ND		ug/kg	180	55.	1
1,4-Dichlorobenzene	ND		ug/kg	180	53.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	38.	1
2,6-Dinitrotoluene	ND		ug/kg	180	45.	1
Fluoranthene	ND		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	53.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	62.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	53.	1
Hexachlorobutadiene	ND		ug/kg	180	50.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	47.	1
Naphthalene	ND		ug/kg	180	58.	1
Nitrobenzene	ND		ug/kg	160	42.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	52.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	46.	1
Butyl benzyl phthalate	ND		ug/kg	180	34.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	43.	1
Diethyl phthalate	ND		ug/kg	180	37.	1
Dimethyl phthalate	ND		ug/kg	180	45.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03 Date Collected: 09/18/14 13:30

Client ID: SB-4 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	34.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	36.	1
Benzo(k)fluoranthene	ND		ug/kg	100	34.	1
Chrysene	ND		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	33.	1
Anthracene	ND		ug/kg	100	29.	1
Benzo(ghi)perylene	ND		ug/kg	140	36.	1
Fluorene	ND		ug/kg	180	50.	1
Phenanthrene	ND		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	34.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	39.	1
Pyrene	ND		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	58.	1
4-Chloroaniline	ND		ug/kg	180	46.	1
2-Nitroaniline	ND		ug/kg	180	50.	1
3-Nitroaniline	ND		ug/kg	180	48.	1
4-Nitroaniline	ND		ug/kg	180	47.	1
Dibenzofuran	ND		ug/kg	180	59.	1
2-Methylnaphthalene	ND		ug/kg	210	56.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	54.	1
Acetophenone	ND		ug/kg	180	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
P-Chloro-M-Cresol	ND		ug/kg	180	51.	1
2-Chlorophenol	ND		ug/kg	180	53.	1
2,4-Dichlorophenol	ND		ug/kg	160	57.	1
2,4-Dimethylphenol	ND		ug/kg	180	52.	1
2-Nitrophenol	ND		ug/kg	380	55.	1
4-Nitrophenol	ND		ug/kg	250	57.	1
2,4-Dinitrophenol	ND		ug/kg	840	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	64.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	52.	1
2-Methylphenol	ND		ug/kg	180	57.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	58.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	57.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	38.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03 Date Collected: 09/18/14 13:30

Client ID: SB-4 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	126		0-136
4-Terphenyl-d14	82		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04
Client ID: SB-1 (5-7')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/24/14 23:41
Analyst: JB
Percent Solids: 87%

Date Collected: 09/18/14 09:55
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	61.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	ND		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	36.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04 Date Collected: 09/18/14 09:55

Client ID: SB-1 (5-7') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	110	37.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	ND		ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	ND		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	ND		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	49.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	50.	1
Dibenzofuran	ND		ug/kg	190	62.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	900	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	55.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04 Date Collected: 09/18/14 09:55

Client ID: SB-1 (5-7') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	110		0-136
4-Terphenyl-d14	65		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05
Client ID: SB-4 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/14 00:05
Analyst: JB
Percent Solids: 91%

Date Collected: 09/18/14 13:05
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	59.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
1,2-Dichlorobenzene	ND		ug/kg	180	59.	1
1,3-Dichlorobenzene	ND		ug/kg	180	57.	1
1,4-Dichlorobenzene	ND		ug/kg	180	55.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	83	J	ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	ND		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	47.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05 Date Collected: 09/18/14 13:05

Client ID: SB-4 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	49	J	ug/kg	110	35.	1
Benzo(a)pyrene	46	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	63	J	ug/kg	110	37.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1
Chrysene	53	J	ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	140	34.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	38.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	140	40.	1
Pyrene	70	J	ug/kg	110	35.	1
Biphenyl	ND		ug/kg	410	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	60.	1
2-Methylnaphthalene	ND		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	52.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	56.	1
4-Nitrophenol	ND		ug/kg	250	59.	1
2,4-Dinitrophenol	ND		ug/kg	870	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	66.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	58.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	59.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	39.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05 Date Collected: 09/18/14 13:05

Client ID: SB-4 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	108		0-136
4-Terphenyl-d14	68		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06
Client ID: SB-1 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/14 00:29
Analyst: JB
Percent Solids: 92%

Date Collected: 09/18/14 09:45
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	180		ug/kg	140	37.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	58.	1
Hexachlorobenzene	ND		ug/kg	110	33.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	50.	1
2-Chloronaphthalene	ND		ug/kg	180	58.	1
1,2-Dichlorobenzene	ND		ug/kg	180	58.	1
1,3-Dichlorobenzene	ND		ug/kg	180	56.	1
1,4-Dichlorobenzene	ND		ug/kg	180	54.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	38.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	1500		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	54.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	41.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	63.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	54.	1
Hexachlorobutadiene	ND		ug/kg	180	50.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	47.	1
Naphthalene	4300		ug/kg	180	59.	1
Nitrobenzene	ND		ug/kg	160	42.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	140	37.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	53.	1
Bis(2-Ethylhexyl)phthalate	11000	E	ug/kg	180	47.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	45.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06 Date Collected: 09/18/14 09:45

Client ID: SB-1 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	660		ug/kg	110	35.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	900		ug/kg	110	36.	1
Benzo(k)fluoranthene	750		ug/kg	110	34.	1
Chrysene	950		ug/kg	110	35.	1
Acenaphthylene	260		ug/kg	140	33.	1
Anthracene	490		ug/kg	110	30.	1
Benzo(ghi)perylene	800		ug/kg	140	37.	1
Fluorene	390		ug/kg	180	51.	1
Phenanthrene	1800		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	180		ug/kg	110	34.	1
Indeno(1,2,3-cd)Pyrene	750		ug/kg	140	40.	1
Pyrene	1800		ug/kg	110	34.	1
Biphenyl	210	J	ug/kg	400	59.	1
4-Chloroaniline	ND		ug/kg	180	47.	1
2-Nitroaniline	ND		ug/kg	180	50.	1
3-Nitroaniline	ND		ug/kg	180	49.	1
4-Nitroaniline	ND		ug/kg	180	48.	1
Dibenzofuran	220		ug/kg	180	59.	1
2-Methylnaphthalene	5100		ug/kg	210	57.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	55.	1
Acetophenone	ND		ug/kg	180	55.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
P-Chloro-M-Cresol	ND		ug/kg	180	52.	1
2-Chlorophenol	ND		ug/kg	180	54.	1
2,4-Dichlorophenol	ND		ug/kg	160	58.	1
2,4-Dimethylphenol	ND		ug/kg	180	53.	1
2-Nitrophenol	ND		ug/kg	380	56.	1
4-Nitrophenol	ND		ug/kg	250	58.	1
2,4-Dinitrophenol	ND		ug/kg	850	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	65.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	53.	1
2-Methylphenol	ND		ug/kg	180	57.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	58.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	58.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	180		ug/kg	180	38.	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06 Date Collected: 09/18/14 09:45

Client ID: SB-1 (0-2') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		25-120
Phenol-d6	39		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	72		0-136
4-Terphenyl-d14	54		18-120

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-06	D	Date Collected:	09/18/14 09:45
Client ID:	SB-1 (0-2')		Date Received:	09/18/14
Sample Location:	3875 9TH AVE.		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	09/22/14 09:04
Analytical Date:	09/25/14 14:02			
Analyst:	JB			
Percent Solids:	92%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-Ethylhexyl)phthalate	11000		ug/kg	360	93.	2

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07
Client ID: GW-1
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/14 16:57
Analyst: HL

Date Collected: 09/18/14 10:10
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	7.1	0.30	1
Bis(2-chloroethyl)ether	ND		ug/l	2.8	0.58	1
1,2-Dichlorobenzene	ND		ug/l	2.8	0.43	1
1,3-Dichlorobenzene	ND		ug/l	2.8	0.50	1
1,4-Dichlorobenzene	ND		ug/l	2.8	0.46	1
3,3'-Dichlorobenzidine	ND		ug/l	7.1	0.68	1
2,4-Dinitrotoluene	ND		ug/l	7.1	1.5	1
2,6-Dinitrotoluene	ND		ug/l	7.1	1.3	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.8	0.51	1
4-Bromophenyl phenyl ether	ND		ug/l	2.8	0.61	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.8	0.85	1
Bis(2-chloroethoxy)methane	ND		ug/l	7.1	0.85	1
Hexachlorocyclopentadiene	ND		ug/l	28	0.84	1
Isophorone	ND		ug/l	7.1	1.1	1
Nitrobenzene	ND		ug/l	2.8	0.57	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.8	0.48	1
n-Nitrosodi-n-propylamine	ND		ug/l	7.1	0.92	1
Bis(2-Ethylhexyl)phthalate	5.7		ug/l	4.3	1.3	1
Butyl benzyl phthalate	ND		ug/l	7.1	1.6	1
Di-n-butylphthalate	ND		ug/l	7.1	1.1	1
Di-n-octylphthalate	ND		ug/l	7.1	1.7	1
Diethyl phthalate	ND		ug/l	7.1	0.56	1
Dimethyl phthalate	ND		ug/l	7.1	0.48	1
Biphenyl	ND		ug/l	2.8	0.34	1
4-Chloroaniline	ND		ug/l	7.1	1.2	1
2-Nitroaniline	ND		ug/l	7.1	1.4	1
3-Nitroaniline	ND		ug/l	7.1	0.95	1
4-Nitroaniline	ND		ug/l	7.1	1.2	1
Dibenzofuran	2.1	J	ug/l	2.8	0.31	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	14	0.51	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07 Date Collected: 09/18/14 10:10

Client ID: GW-1 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	7.1	0.61	1
2,4,6-Trichlorophenol	ND		ug/l	7.1	1.1	1
P-Chloro-M-Cresol	ND		ug/l	2.8	0.78	1
2-Chlorophenol	ND		ug/l	2.8	0.83	1
2,4-Dichlorophenol	ND		ug/l	7.1	0.80	1
2,4-Dimethylphenol	ND		ug/l	7.1	0.82	1
2-Nitrophenol	ND		ug/l	14	1.5	1
4-Nitrophenol	ND		ug/l	14	1.6	1
2,4-Dinitrophenol	ND		ug/l	28	2.0	1
4,6-Dinitro-o-cresol	ND		ug/l	14	1.9	1
Phenol	ND		ug/l	7.1	0.38	1
2-Methylphenol	ND		ug/l	7.1	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	7.1	1.0	1
2,4,5-Trichlorophenol	ND		ug/l	7.1	1.1	1
Benzoic Acid	ND		ug/l	71	1.4	1
Benzyl Alcohol	ND		ug/l	2.8	0.97	1
Carbazole	4.8		ug/l	2.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	73		41-149

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07
Client ID: GW-1
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/26/14 13:35
Analyst: MW

Date Collected: 09/18/14 10:10
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	1.5		ug/l	0.28	0.09	1
2-Chloronaphthalene	ND		ug/l	0.28	0.09	1
Fluoranthene	1.7		ug/l	0.28	0.06	1
Hexachlorobutadiene	ND		ug/l	0.71	0.10	1
Naphthalene	11		ug/l	0.28	0.09	1
Benzo(a)anthracene	ND		ug/l	0.28	0.08	1
Benzo(a)pyrene	ND		ug/l	0.28	0.10	1
Benzo(b)fluoranthene	ND		ug/l	0.28	0.10	1
Benzo(k)fluoranthene	ND		ug/l	0.28	0.10	1
Chrysene	ND		ug/l	0.28	0.07	1
Acenaphthylene	0.12	J	ug/l	0.28	0.07	1
Anthracene	1.2		ug/l	0.28	0.09	1
Benzo(ghi)perylene	ND		ug/l	0.28	0.10	1
Fluorene	3.7		ug/l	0.28	0.08	1
Phenanthrene	6.0		ug/l	0.28	0.09	1
Dibenzo(a,h)anthracene	ND		ug/l	0.28	0.10	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.28	0.11	1
Pyrene	1.0		ug/l	0.28	0.08	1
2-Methylnaphthalene	2.0		ug/l	0.28	0.09	1
Pentachlorophenol	ND		ug/l	1.1	0.27	1
Hexachlorobenzene	ND		ug/l	1.1	0.02	1
Hexachloroethane	ND		ug/l	1.1	0.09	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07 Date Collected: 09/18/14 10:10

Client ID: GW-1 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	88		41-149

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08
Client ID: GW-2
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/26/14 17:23
Analyst: HL

Date Collected: 09/18/14 13:55
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	7.1	0.30	1
Bis(2-chloroethyl)ether	ND		ug/l	2.8	0.58	1
1,2-Dichlorobenzene	ND		ug/l	2.8	0.43	1
1,3-Dichlorobenzene	ND		ug/l	2.8	0.50	1
1,4-Dichlorobenzene	ND		ug/l	2.8	0.46	1
3,3'-Dichlorobenzidine	ND		ug/l	7.1	0.68	1
2,4-Dinitrotoluene	ND		ug/l	7.1	1.5	1
2,6-Dinitrotoluene	ND		ug/l	7.1	1.3	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.8	0.51	1
4-Bromophenyl phenyl ether	ND		ug/l	2.8	0.61	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.8	0.85	1
Bis(2-chloroethoxy)methane	ND		ug/l	7.1	0.85	1
Hexachlorocyclopentadiene	ND		ug/l	28	0.84	1
Isophorone	ND		ug/l	7.1	1.1	1
Nitrobenzene	ND		ug/l	2.8	0.57	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.8	0.48	1
n-Nitrosodi-n-propylamine	ND		ug/l	7.1	0.92	1
Bis(2-Ethylhexyl)phthalate	5.0		ug/l	4.3	1.3	1
Butyl benzyl phthalate	ND		ug/l	7.1	1.6	1
Di-n-butylphthalate	ND		ug/l	7.1	1.1	1
Di-n-octylphthalate	ND		ug/l	7.1	1.7	1
Diethyl phthalate	ND		ug/l	7.1	0.56	1
Dimethyl phthalate	ND		ug/l	7.1	0.48	1
Biphenyl	ND		ug/l	2.8	0.34	1
4-Chloroaniline	ND		ug/l	7.1	1.2	1
2-Nitroaniline	ND		ug/l	7.1	1.4	1
3-Nitroaniline	ND		ug/l	7.1	0.95	1
4-Nitroaniline	ND		ug/l	7.1	1.2	1
Dibenzofuran	ND		ug/l	2.8	0.31	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	14	0.51	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08 Date Collected: 09/18/14 13:55

Client ID: GW-2 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	7.1	0.61	1
2,4,6-Trichlorophenol	ND		ug/l	7.1	1.1	1
P-Chloro-M-Cresol	ND		ug/l	2.8	0.78	1
2-Chlorophenol	ND		ug/l	2.8	0.83	1
2,4-Dichlorophenol	ND		ug/l	7.1	0.80	1
2,4-Dimethylphenol	ND		ug/l	7.1	0.82	1
2-Nitrophenol	ND		ug/l	14	1.5	1
4-Nitrophenol	ND		ug/l	14	1.6	1
2,4-Dinitrophenol	ND		ug/l	28	2.0	1
4,6-Dinitro-o-cresol	ND		ug/l	14	1.9	1
Phenol	ND		ug/l	7.1	0.38	1
2-Methylphenol	ND		ug/l	7.1	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	7.1	1.0	1
2,4,5-Trichlorophenol	ND		ug/l	7.1	1.1	1
Benzoic Acid	ND		ug/l	71	1.4	1
Benzyl Alcohol	ND		ug/l	2.8	0.97	1
Carbazole	ND		ug/l	2.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	66		41-149

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08
Client ID: GW-2
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/26/14 12:49
Analyst: MW

Date Collected: 09/18/14 13:55
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	1.7		ug/l	0.28	0.09	1
2-Chloronaphthalene	ND		ug/l	0.28	0.09	1
Fluoranthene	1.1		ug/l	0.28	0.06	1
Hexachlorobutadiene	ND		ug/l	0.71	0.10	1
Naphthalene	0.16	J	ug/l	0.28	0.09	1
Benzo(a)anthracene	0.21	J	ug/l	0.28	0.08	1
Benzo(a)pyrene	0.22	J	ug/l	0.28	0.10	1
Benzo(b)fluoranthene	0.23	J	ug/l	0.28	0.10	1
Benzo(k)fluoranthene	ND		ug/l	0.28	0.10	1
Chrysene	0.20	J	ug/l	0.28	0.07	1
Acenaphthylene	ND		ug/l	0.28	0.07	1
Anthracene	0.31		ug/l	0.28	0.09	1
Benzo(ghi)perylene	0.11	J	ug/l	0.28	0.10	1
Fluorene	0.54		ug/l	0.28	0.08	1
Phenanthrene	0.86		ug/l	0.28	0.09	1
Dibenzo(a,h)anthracene	ND		ug/l	0.28	0.10	1
Indeno(1,2,3-cd)Pyrene	0.12	J	ug/l	0.28	0.11	1
Pyrene	0.86		ug/l	0.28	0.08	1
2-Methylnaphthalene	0.09	J	ug/l	0.28	0.09	1
Pentachlorophenol	ND		ug/l	1.1	0.27	1
Hexachlorobenzene	ND		ug/l	1.1	0.02	1
Hexachloroethane	ND		ug/l	1.1	0.09	1

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08 Date Collected: 09/18/14 13:55

Client ID: GW-2 Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	85		41-149

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/23/14 18:49
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG723980-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	35.

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/23/14 18:49
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG723980-1					
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	31.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	51.

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/23/14 18:49
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 09/22/14 09:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG723980-1					
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	790	220
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		25-120
Phenol-d6	34		10-120
Nitrobenzene-d5	29		23-120
2-Fluorobiphenyl	45		30-120
2,4,6-Tribromophenol	58		0-136
4-Terphenyl-d14	78		18-120

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/26/14 15:41
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG725353-1					
Acenaphthene	ND		ug/l	2.0	0.28
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Hexachlorobenzene	ND		ug/l	2.0	0.40
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
2-Chloronaphthalene	ND		ug/l	2.0	0.46
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
Fluoranthene	ND		ug/l	2.0	0.40
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorobutadiene	ND		ug/l	2.0	0.42
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Hexachloroethane	ND		ug/l	2.0	0.30
Isophorone	ND		ug/l	5.0	0.79
Naphthalene	ND		ug/l	2.0	0.33
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	1.9	J	ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/26/14 15:41
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG725353-1					
Dimethyl phthalate	ND		ug/l	5.0	0.33
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.66
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30
Chrysene	ND		ug/l	2.0	0.30
Acenaphthylene	ND		ug/l	2.0	0.37
Anthracene	ND		ug/l	2.0	0.20
Benzo(ghi)perylene	ND		ug/l	2.0	0.57
Fluorene	ND		ug/l	2.0	0.32
Phenanthrene	ND		ug/l	2.0	0.23
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43
Pyrene	ND		ug/l	2.0	0.52
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
2-Methylnaphthalene	ND		ug/l	2.0	0.36
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/26/14 15:41
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG725353-1					
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Pentachlorophenol	ND		ug/l	10	3.2
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	62		41-149

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/26/14 12:22
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-08 Batch: WG725358-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/26/14 12:22
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 09/25/14 16:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-08 Batch: WG725358-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	74		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG723980-2 WG723980-3								
Acenaphthene	65		74		31-137	13		50
1,2,4-Trichlorobenzene	64		67		38-107	5		50
Hexachlorobenzene	83		90		40-140	8		50
Bis(2-chloroethyl)ether	55		56		40-140	2		50
2-Chloronaphthalene	72		78		40-140	8		50
1,2-Dichlorobenzene	60		61		40-140	2		50
1,3-Dichlorobenzene	58		59		40-140	2		50
1,4-Dichlorobenzene	58		59		28-104	2		50
3,3'-Dichlorobenzidine	56		62		40-140	10		50
2,4-Dinitrotoluene	75		84		28-89	11		50
2,6-Dinitrotoluene	76		86		40-140	12		50
Fluoranthene	70		79		40-140	12		50
4-Chlorophenyl phenyl ether	71		79		40-140	11		50
4-Bromophenyl phenyl ether	76		88		40-140	15		50
Bis(2-chloroisopropyl)ether	**36**	Q	**35**	Q	40-140	3		50
Bis(2-chloroethoxy)methane	61		64		40-117	5		50
Hexachlorobutadiene	68		72		40-140	6		50
Hexachlorocyclopentadiene	50		55		40-140	10		50
Hexachloroethane	59		58		40-140	2		50
Isophorone	63		69		40-140	9		50
Naphthalene	63		65		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG723980-2 WG723980-3								
Nitrobenzene	58		62		40-140	7		50
NitrosoDiPhenylAmine(NDPA)/DPA	73		80			9		50
n-Nitrosodi-n-propylamine	63		66		32-121	5		50
Bis(2-Ethylhexyl)phthalate	73		82		40-140	12		50
Butyl benzyl phthalate	74		81		40-140	9		50
Di-n-butylphthalate	72		80		40-140	11		50
Di-n-octylphthalate	77		87		40-140	12		50
Diethyl phthalate	72		81		40-140	12		50
Dimethyl phthalate	70		79		40-140	12		50
Benzo(a)anthracene	69		77		40-140	11		50
Benzo(a)pyrene	68		77		40-140	12		50
Benzo(b)fluoranthene	66		74		40-140	11		50
Benzo(k)fluoranthene	68		77		40-140	12		50
Chrysene	69		78		40-140	12		50
Acenaphthylene	74		80		40-140	8		50
Anthracene	72		80		40-140	11		50
Benzo(ghi)perylene	68		77		40-140	12		50
Fluorene	71		78		40-140	9		50
Phenanthrene	66		77		40-140	15		50
Dibenzo(a,h)anthracene	68		78		40-140	14		50
Indeno(1,2,3-cd)Pyrene	69		78		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG723980-2 WG723980-3								
Pyrene	71		78		35-142	9		50
Biphenyl	73		79			8		50
4-Chloroaniline	70		73		40-140	4		50
2-Nitroaniline	77		84		47-134	9		50
3-Nitroaniline	58		64		26-129	10		50
4-Nitroaniline	66		75		41-125	13		50
Dibenzofuran	66		76		40-140	14		50
2-Methylnaphthalene	68		74		40-140	8		50
1,2,4,5-Tetrachlorobenzene	74		78		40-117	5		50
Acetophenone	68		73		14-144	7		50
2,4,6-Trichlorophenol	79		91		30-130	14		50
P-Chloro-M-Cresol	77		84		26-103	9		50
2-Chlorophenol	64		68		25-102	6		50
2,4-Dichlorophenol	71		81		30-130	13		50
2,4-Dimethylphenol	77		80		30-130	4		50
2-Nitrophenol	68		73		30-130	7		50
4-Nitrophenol	69		80		11-114	15		50
2,4-Dinitrophenol	37		45		4-130	20		50
4,6-Dinitro-o-cresol	74		86		10-130	15		50
Pentachlorophenol	65		78		17-109	18		50
Phenol	57		60		26-90	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG723980-2 WG723980-3								
2-Methylphenol	69		74		30-130.	7		50
3-Methylphenol/4-Methylphenol	73		77		30-130	5		50
2,4,5-Trichlorophenol	82		96		30-130	16		50
Benzoic Acid	18		22			20		50
Benzyl Alcohol	66		70		40-140	6		50
Carbazole	67		77		54-128	14		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		64		25-120
Phenol-d6	67		68		10-120
Nitrobenzene-d5	62		64		23-120
2-Fluorobiphenyl	73		79		30-120
2,4,6-Tribromophenol	86		102		0-136
4-Terphenyl-d14	77		83		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG725353-2 WG725353-3								
Acenaphthene	60		58		37-111	3		30
1,2,4-Trichlorobenzene	48		48		39-98	0		30
Hexachlorobenzene	61		58		40-140	5		30
Bis(2-chloroethyl)ether	62		57		40-140	8		30
2-Chloronaphthalene	59		57		40-140	3		30
1,2-Dichlorobenzene	44		45		40-140	2		30
1,3-Dichlorobenzene	42		42		40-140	0		30
1,4-Dichlorobenzene	41		42		36-97	2		30
3,3'-Dichlorobenzidine	63		56		40-140	12		30
2,4-Dinitrotoluene	69		63		24-96	9		30
2,6-Dinitrotoluene	70		62		40-140	12		30
Fluoranthene	68		64		40-140	6		30
4-Chlorophenyl phenyl ether	66		61		40-140	8		30
4-Bromophenyl phenyl ether	65		63		40-140	3		30
Bis(2-chloroisopropyl)ether	69		63		40-140	9		30
Bis(2-chloroethoxy)methane	67		60		40-140	11		30
Hexachlorobutadiene	41		43		40-140	5		30
Hexachlorocyclopentadiene	**39**	Q	**39**	Q	40-140	0		30
Hexachloroethane	40		42		40-140	5		30
Isophorone	66		60		40-140	10		30
Naphthalene	52		51		40-140	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG725353-2 WG725353-3								
Nitrobenzene	64		58		40-140	10		30
NitrosoDiPhenylAmine(NDPA)/DPA	67		62		40-140	8		30
n-Nitrosodi-n-propylamine	66		62		29-132	6		30
Bis(2-Ethylhexyl)phthalate	83		77		40-140	8		30
Butyl benzyl phthalate	73		68		40-140	7		30
Di-n-butylphthalate	71		65		40-140	9		30
Di-n-octylphthalate	77		70		40-140	10		30
Diethyl phthalate	69		64		40-140	8		30
Dimethyl phthalate	68		62		40-140	9		30
Benzo(a)anthracene	72		63		40-140	13		30
Benzo(a)pyrene	69		62		40-140	11		30
Benzo(b)fluoranthene	71		64		40-140	10		30
Benzo(k)fluoranthene	73		65		40-140	12		30
Chrysene	71		63		40-140	12		30
Acenaphthylene	64		58		45-123	10		30
Anthracene	67		62		40-140	8		30
Benzo(ghi)perylene	64		59		40-140	8		30
Fluorene	64		60		40-140	6		30
Phenanthrene	67		61		40-140	9		30
Dibenzo(a,h)anthracene	66		60		40-140	10		30
Indeno(1,2,3-cd)Pyrene	65		58		40-140	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG725353-2 WG725353-3								
Pyrene	67		63		26-127	6		30
Biphenyl	69		67			3		30
4-Chloroaniline	83		79		40-140	5		30
2-Nitroaniline	72		65		52-143	10		30
3-Nitroaniline	61		62		25-145	2		30
4-Nitroaniline	70		65		51-143	7		30
Dibenzofuran	62		60		40-140	3		30
2-Methylnaphthalene	56		54		40-140	4		30
1,2,4,5-Tetrachlorobenzene	66		62		2-134	6		30
Acetophenone	81		71		39-129	13		30
2,4,6-Trichlorophenol	72		64		30-130	12		30
P-Chloro-M-Cresol	72		64		23-97	12		30
2-Chlorophenol	61		57		27-123	7		30
2,4-Dichlorophenol	72		64		30-130	12		30
2,4-Dimethylphenol	72		63		30-130	13		30
2-Nitrophenol	65		59		30-130	10		30
4-Nitrophenol	52		48		10-80	8		30
2,4-Dinitrophenol	48		46		20-130	4		30
4,6-Dinitro-o-cresol	51		50		20-164	2		30
Pentachlorophenol	87		78		9-103	11		30
Phenol	29		27		12-110	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG725353-2 WG725353-3								
2-Methylphenol	58		51		30-130	13		30
3-Methylphenol/4-Methylphenol	59		55		30-130	7		30
2,4,5-Trichlorophenol	78		66		30-130	17		30
Benzoic Acid	11		4	Q		**91**	Q	30
Benzyl Alcohol	61		55			10		30
Carbazole	72		65		55-144	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	42		38		21-120
Phenol-d6	30		26		10-120
Nitrobenzene-d5	72		63		23-120
2-Fluorobiphenyl	68		58		15-120
2,4,6-Tribromophenol	74		64		10-120
4-Terphenyl-d14	69		61		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-08 Batch: WG725358-2 WG725358-3								
Acenaphthene	76		74		37-111	3		40
2-Chloronaphthalene	76		74		40-140	3		40
Fluoranthene	84		80		40-140	5		40
Hexachlorobutadiene	65		64		40-140	2		40
Naphthalene	72		71		40-140	1		40
Benzo(a)anthracene	84		80		40-140	5		40
Benzo(a)pyrene	85		81		40-140	5		40
Benzo(b)fluoranthene	84		80		40-140	5		40
Benzo(k)fluoranthene	78		75		40-140	4		40
Chrysene	78		74		40-140	5		40
Acenaphthylene	81		78		40-140	4		40
Anthracene	80		77		40-140	4		40
Benzo(ghi)perylene	84		80		40-140	5		40
Fluorene	81		78		40-140	4		40
Phenanthrene	79		76		40-140	4		40
Dibenzo(a,h)anthracene	85		82		40-140	4		40
Indeno(1,2,3-cd)Pyrene	85		82		40-140	4		40
Pyrene	84		80		26-127	5		40
2-Methylnaphthalene	78		76		40-140	3		40
Pentachlorophenol	78		75		9-103	4		40
Hexachlorobenzene	81		78		40-140	4		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-08 Batch: WG725358-2 WG725358-3								
Hexachloroethane	66		64		40-140	3		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	44		43		21-120
Phenol-d6	32		30		10-120
Nitrobenzene-d5	74		71		23-120
2-Fluorobiphenyl	71		70		15-120
2,4,6-Tribromophenol	84		82		10-120
4-Terphenyl-d14	80		77		41-149

PCBS

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01
Client ID: SB-2 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/23/14 15:29
Analyst: TQ
Percent Solids: 89%

Date Collected: 09/18/14 15:45
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/20/14 10:00
Cleanup Method: EPA 3665A
Cleanup Date: 09/23/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	2.92	1	A
Aroclor 1221	ND		ug/kg	37.0	3.41	1	A
Aroclor 1232	ND		ug/kg	37.0	4.34	1	A
Aroclor 1242	ND		ug/kg	37.0	4.53	1	A
Aroclor 1248	ND		ug/kg	37.0	3.12	1	A
Aroclor 1254	65.3		ug/kg	37.0	3.04	1	A
Aroclor 1260	31.0	J	ug/kg	37.0	2.82	1	B
Aroclor 1262	ND		ug/kg	37.0	1.84	1	A
Aroclor 1268	ND		ug/kg	37.0	5.37	1	A
PCBs, Total	96.3	J	ug/kg	37.0	1.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-02	Date Collected:	09/18/14 17:15
Client ID:	SB-2 (8-10')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/20/14 10:00
Analytical Date:	09/23/14 15:42	Cleanup Method:	EPA 3665A
Analyst:	TQ	Cleanup Date:	09/23/14
Percent Solids:	77%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.1	3.25	1	A
Aroclor 1221	ND		ug/kg	41.1	3.79	1	A
Aroclor 1232	ND		ug/kg	41.1	4.82	1	A
Aroclor 1242	ND		ug/kg	41.1	5.03	1	A
Aroclor 1248	ND		ug/kg	41.1	3.47	1	A
Aroclor 1254	ND		ug/kg	41.1	3.38	1	A
Aroclor 1260	ND		ug/kg	41.1	3.13	1	A
Aroclor 1262	ND		ug/kg	41.1	2.04	1	A
Aroclor 1268	ND		ug/kg	41.1	5.96	1	A
PCBs, Total	ND		ug/kg	41.1	2.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-03	Date Collected:	09/18/14 13:30
Client ID:	SB-4 (8-10')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/20/14 10:00
Analytical Date:	09/23/14 15:54	Cleanup Method:	EPA 3665A
Analyst:	TQ	Cleanup Date:	09/23/14
Percent Solids:	92%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	2.81	1	A
Aroclor 1221	ND		ug/kg	35.5	3.28	1	A
Aroclor 1232	ND		ug/kg	35.5	4.16	1	A
Aroclor 1242	ND		ug/kg	35.5	4.35	1	A
Aroclor 1248	ND		ug/kg	35.5	3.00	1	A
Aroclor 1254	ND		ug/kg	35.5	2.92	1	A
Aroclor 1260	ND		ug/kg	35.5	2.71	1	A
Aroclor 1262	ND		ug/kg	35.5	1.76	1	A
Aroclor 1268	ND		ug/kg	35.5	5.15	1	A
PCBs, Total	ND		ug/kg	35.5	1.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-04	Date Collected:	09/18/14 09:55
Client ID:	SB-1 (5-7')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/20/14 10:00
Analytical Date:	09/23/14 16:06	Cleanup Method:	EPA 3665A
Analyst:	TQ	Cleanup Date:	09/23/14
Percent Solids:	87%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	2.88	1	A
Aroclor 1221	ND		ug/kg	36.5	3.36	1	A
Aroclor 1232	ND		ug/kg	36.5	4.28	1	A
Aroclor 1242	ND		ug/kg	36.5	4.47	1	A
Aroclor 1248	ND		ug/kg	36.5	3.08	1	A
Aroclor 1254	9.08	J	ug/kg	36.5	3.00	1	B
Aroclor 1260	ND		ug/kg	36.5	2.78	1	A
Aroclor 1262	ND		ug/kg	36.5	1.81	1	A
Aroclor 1268	ND		ug/kg	36.5	5.29	1	A
PCBs, Total	9.08	J	ug/kg	36.5	1.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-05	Date Collected:	09/18/14 13:05
Client ID:	SB-4 (0-2')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	09/20/14 10:00
Analytical Date:	09/23/14 16:19	Cleanup Method:	EPA 3665A
Analyst:	TQ	Cleanup Date:	09/23/14
Percent Solids:	91%	Cleanup Method:	EPA 3660B
		Cleanup Date:	09/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	2.77	1	A
Aroclor 1221	ND		ug/kg	35.1	3.23	1	A
Aroclor 1232	ND		ug/kg	35.1	4.11	1	A
Aroclor 1242	ND		ug/kg	35.1	4.29	1	A
Aroclor 1248	ND		ug/kg	35.1	2.96	1	A
Aroclor 1254	ND		ug/kg	35.1	2.88	1	A
Aroclor 1260	ND		ug/kg	35.1	2.67	1	A
Aroclor 1262	ND		ug/kg	35.1	1.74	1	A
Aroclor 1268	ND		ug/kg	35.1	5.08	1	A
PCBs, Total	ND		ug/kg	35.1	1.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06
Client ID: SB-1 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/23/14 16:31
Analyst: TQ
Percent Solids: 92%

Date Collected: 09/18/14 09:45
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/20/14 10:00
Cleanup Method: EPA 3665A
Cleanup Date: 09/23/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	2.74	1	A
Aroclor 1221	ND		ug/kg	34.7	3.20	1	A
Aroclor 1232	ND		ug/kg	34.7	4.07	1	A
Aroclor 1242	521		ug/kg	34.7	4.25	1	B
Aroclor 1248	ND		ug/kg	34.7	2.93	1	A
Aroclor 1254	479		ug/kg	34.7	2.85	1	A
Aroclor 1260	563		ug/kg	34.7	2.64	1	B
Aroclor 1262	ND		ug/kg	34.7	1.72	1	A
Aroclor 1268	ND		ug/kg	34.7	5.03	1	A
PCBs, Total	1560		ug/kg	34.7	1.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07
Client ID: GW-1
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 09/25/14 06:48
Analyst: TQ

Date Collected: 09/18/14 10:10
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/22/14 16:37
Cleanup Method: EPA 3665A
Cleanup Date: 09/24/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08
Client ID: GW-2
Sample Location: 3875 9TH AVE.
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 09/25/14 07:07
Analyst: TQ

Date Collected: 09/18/14 13:55
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/22/14 16:37
Cleanup Method: EPA 3665A
Cleanup Date: 09/24/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/23/14 14:40
Analyst: TQ

Extraction Method: EPA 3546
Extraction Date: 09/20/14 10:00
Cleanup Method: EPA 3665A
Cleanup Date: 09/23/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/23/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG723790-1						
Aroclor 1016	ND		ug/kg	32.0	2.53	A
Aroclor 1221	ND		ug/kg	32.0	2.96	A
Aroclor 1232	ND		ug/kg	32.0	3.76	A
Aroclor 1242	ND		ug/kg	32.0	3.92	A
Aroclor 1248	ND		ug/kg	32.0	2.70	A
Aroclor 1254	ND		ug/kg	32.0	2.63	A
Aroclor 1260	ND		ug/kg	32.0	2.44	A
Aroclor 1262	ND		ug/kg	32.0	1.59	A
Aroclor 1268	ND		ug/kg	32.0	4.65	A
PCBs, Total	ND		ug/kg	32.0	1.59	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/25/14 05:53
Analyst: TQ

Extraction Method: EPA 3510C
Extraction Date: 09/22/14 16:37
Cleanup Method: EPA 3665A
Cleanup Date: 09/24/14
Cleanup Method: EPA 3660B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07-08 Batch: WG724207-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A
PCBs, Total	ND		ug/l	0.083	0.029	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	66		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG723790-2 WG723790-3									
Aroclor 1016	57		71		40-140	22		50	A
Aroclor 1260	63		75		40-140	17		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		59		30-150	A
Decachlorobiphenyl	45		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		67		30-150	B
Decachlorobiphenyl	51		57		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG724207-2 WG724207-3									
Aroclor 1016	76		78		40-140	2		50	A
Aroclor 1260	101		96		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		60		30-150	B
Decachlorobiphenyl	85		103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		57		30-150	A
Decachlorobiphenyl	76		89		30-150	A

PESTICIDES

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-01	Date Collected:	09/18/14 15:45
Client ID:	SB-2 (0-2')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/21/14 01:29
Analytical Date:	09/25/14 03:03	Cleanup Method:	EPA 3620B
Analyst:	JW	Cleanup Date:	09/24/14
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.719	0.321	1	A
Alpha-BHC	ND		ug/kg	0.719	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.654	1	A
Heptachlor	ND		ug/kg	0.862	0.387	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.970	1	A
Endrin	ND		ug/kg	0.719	0.295	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.539	1	A
4,4'-DDE	ND		ug/kg	1.72	0.399	1	A
4,4'-DDD	4.99		ug/kg	1.72	0.615	1	A
4,4'-DDT	4.83		ug/kg	3.23	1.39	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.719	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.01	1	A
Toxaphene	ND		ug/kg	32.3	9.05	1	A
cis-Chlordane	ND		ug/kg	2.16	0.601	1	A
trans-Chlordane	ND		ug/kg	2.16	0.569	1	A
Chlordane	ND		ug/kg	14.0	5.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02
Client ID: SB-2 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/25/14 03:15
Analyst: JW
Percent Solids: 77%

Date Collected: 09/18/14 17:15
Date Received: 09/18/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/21/14 01:29
Cleanup Method: EPA 3620B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.03	0.398	1	A
Lindane	ND		ug/kg	0.847	0.379	1	A
Alpha-BHC	ND		ug/kg	0.847	0.240	1	A
Beta-BHC	ND		ug/kg	2.03	0.771	1	A
Heptachlor	ND		ug/kg	1.02	0.456	1	A
Aldrin	ND		ug/kg	2.03	0.716	1	A
Heptachlor epoxide	ND		ug/kg	3.81	1.14	1	A
Endrin	ND		ug/kg	0.847	0.347	1	A
Endrin ketone	ND		ug/kg	2.03	0.524	1	A
Dieldrin	ND		ug/kg	1.27	0.635	1	A
4,4'-DDE	ND		ug/kg	2.03	0.470	1	A
4,4'-DDD	ND		ug/kg	2.03	0.725	1	A
4,4'-DDT	ND		ug/kg	3.81	1.64	1	A
Endosulfan I	ND		ug/kg	2.03	0.480	1	A
Endosulfan II	ND		ug/kg	2.03	0.679	1	A
Endosulfan sulfate	ND		ug/kg	0.847	0.403	1	A
Methoxychlor	ND		ug/kg	3.81	1.19	1	A
Toxaphene	ND		ug/kg	38.1	10.7	1	A
cis-Chlordane	ND		ug/kg	2.54	0.708	1	A
trans-Chlordane	ND		ug/kg	2.54	0.671	1	A
Chlordane	ND		ug/kg	16.5	6.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	52		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-03	Date Collected:	09/18/14 13:30
Client ID:	SB-4 (8-10')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/21/14 01:32
Analytical Date:	09/24/14 20:50	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	09/24/14
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.689	0.308	1	A
Alpha-BHC	ND		ug/kg	0.689	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.627	1	A
Heptachlor	ND		ug/kg	0.826	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.930	1	A
Endrin	ND		ug/kg	0.689	0.282	1	A
Endrin ketone	ND		ug/kg	1.65	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.689	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.68	1	A
cis-Chlordane	ND		ug/kg	2.06	0.576	1	A
trans-Chlordane	ND		ug/kg	2.06	0.545	1	A
Chlordane	ND		ug/kg	13.4	5.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	58		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-04	Date Collected:	09/18/14 09:55
Client ID:	SB-1 (5-7')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/21/14 01:32
Analytical Date:	09/24/14 21:06	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	09/24/14
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.342	1	A
Lindane	ND		ug/kg	0.727	0.325	1	A
Alpha-BHC	ND		ug/kg	0.727	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.661	1	A
Heptachlor	ND		ug/kg	0.872	0.391	1	A
Aldrin	ND		ug/kg	1.74	0.614	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.981	1	A
Endrin	ND		ug/kg	0.727	0.298	1	A
Endrin ketone	ND		ug/kg	1.74	0.449	1	A
Dieldrin	ND		ug/kg	1.09	0.545	1	A
4,4'-DDE	ND		ug/kg	1.74	0.403	1	A
4,4'-DDD	ND		ug/kg	1.74	0.622	1	A
4,4'-DDT	ND		ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	ND		ug/kg	1.74	0.583	1	A
Endosulfan sulfate	ND		ug/kg	0.727	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.16	1	A
cis-Chlordane	ND		ug/kg	2.18	0.607	1	A
trans-Chlordane	ND		ug/kg	2.18	0.576	1	A
Chlordane	ND		ug/kg	14.2	5.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-05	Date Collected:	09/18/14 13:05
Client ID:	SB-4 (0-2')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/21/14 01:32
Analytical Date:	09/24/14 21:22	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	09/24/14
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.653	1	A
Heptachlor	ND		ug/kg	0.862	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.969	1	A
Endrin	ND		ug/kg	0.718	0.294	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	ND		ug/kg	1.72	0.398	1	A
4,4'-DDD	ND		ug/kg	1.72	0.615	1	A
4,4'-DDT	ND		ug/kg	3.23	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.05	1	A
cis-Chlordane	ND		ug/kg	2.15	0.600	1	A
trans-Chlordane	ND		ug/kg	2.15	0.569	1	A
Chlordane	ND		ug/kg	14.0	5.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	48		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-06	Date Collected:	09/18/14 09:45
Client ID:	SB-1 (0-2')	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	09/21/14 01:32
Analytical Date:	09/24/14 21:38	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	09/24/14
Percent Solids:	92%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.326	1	A
Lindane	ND		ug/kg	0.694	0.310	1	A
Alpha-BHC	ND		ug/kg	0.694	0.197	1	A
Beta-BHC	ND		ug/kg	1.67	0.632	1	A
Heptachlor	ND		ug/kg	0.833	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.587	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.937	1	A
Endrin	ND		ug/kg	0.694	0.285	1	A
Endrin ketone	ND		ug/kg	1.67	0.429	1	A
Dieldrin	ND		ug/kg	1.04	0.521	1	A
4,4'-DDE	ND		ug/kg	1.67	0.385	1	A
4,4'-DDD	ND		ug/kg	1.67	0.594	1	A
4,4'-DDT	ND		ug/kg	3.12	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.557	1	A
Endosulfan sulfate	ND		ug/kg	0.694	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.972	1	A
Toxaphene	ND		ug/kg	31.2	8.75	1	A
cis-Chlordane	ND		ug/kg	2.08	0.580	1	A
trans-Chlordane	ND		ug/kg	2.08	0.550	1	A
Chlordane	ND		ug/kg	13.5	5.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	46		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	32		30-150	A

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-07	Date Collected:	09/18/14 10:10
Client ID:	GW-1	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	09/20/14 10:01
Analytical Date:	09/24/14 18:31	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID:	L1421852-08	Date Collected:	09/18/14 13:55
Client ID:	GW-2	Date Received:	09/18/14
Sample Location:	3875 9TH AVE.	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	09/20/14 10:01
Analytical Date:	09/24/14 18:47	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	31		30-150	B

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/24/14 17:43
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 09/20/14 10:01
Cleanup Method: EPA 3620B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-08 Batch: WG723792-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	30		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/24/14 16:51
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 09/21/14 01:29
Cleanup Method: EPA 3620B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG723916-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.282	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.575	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.84	0.853	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.948	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.84	0.885	A
Toxaphene	ND		ug/kg	28.4	7.96	A
cis-Chlordane	ND		ug/kg	1.90	0.528	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.02	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/24/14 20:02
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 09/21/14 01:32
Cleanup Method: EPA 3620B
Cleanup Date: 09/24/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03-06 Batch: WG723917-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.640	0.286	A
Alpha-BHC	ND		ug/kg	0.640	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.582	A
Heptachlor	ND		ug/kg	0.768	0.344	A
Aldrin	ND		ug/kg	1.54	0.541	A
Heptachlor epoxide	ND		ug/kg	2.88	0.864	A
Endrin	ND		ug/kg	0.640	0.262	A
Endrin ketone	ND		ug/kg	1.54	0.395	A
Dieldrin	ND		ug/kg	0.960	0.480	A
4,4'-DDE	ND		ug/kg	1.54	0.355	A
4,4'-DDD	ND		ug/kg	1.54	0.548	A
4,4'-DDT	ND		ug/kg	2.88	1.23	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.513	A
Endosulfan sulfate	ND		ug/kg	0.640	0.304	A
Methoxychlor	ND		ug/kg	2.88	0.896	A
Toxaphene	ND		ug/kg	28.8	8.06	A
cis-Chlordane	ND		ug/kg	1.92	0.535	A
trans-Chlordane	ND		ug/kg	1.92	0.507	A
Chlordane	ND		ug/kg	12.5	5.09	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	52		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG723792-2 WG723792-3									
Delta-BHC	83		89		30-150	7		20	A
Lindane	81		86		30-150	6		20	A
Alpha-BHC	94		97		30-150	4		20	A
Beta-BHC	83		92		30-150	11		20	A
Heptachlor	66		66		30-150	1		20	A
Aldrin	67		74		30-150	10		20	A
Heptachlor epoxide	77		83		30-150	7		20	A
Endrin	95		99		30-150	4		20	A
Endrin ketone	75		76		30-150	1		20	A
Dieldrin	86		91		30-150	6		20	A
4,4'-DDE	75		78		30-150	4		20	A
4,4'-DDD	87		87		30-150	0		20	A
4,4'-DDT	76		79		30-150	5		20	A
Endosulfan I	78		83		30-150	7		20	A
Endosulfan II	75		80		30-150	6		20	A
Endosulfan sulfate	79		82		30-150	4		20	A
Methoxychlor	86		90		30-150	5		20	A
cis-Chlordane	75		79		30-150	5		20	A
trans-Chlordane	77		84		30-150	9		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG723792-2 WG723792-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		49		30-150	A
Decachlorobiphenyl	54		55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		54		30-150	B
Decachlorobiphenyl	47		62		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG723916-2 WG723916-3									
Delta-BHC	83		81		30-150	2		30	A
Lindane	74		71		30-150	4		30	A
Alpha-BHC	80		78		30-150	3		30	A
Beta-BHC	94		90		30-150	4		30	A
Heptachlor	72		69		30-150	4		30	A
Aldrin	77		74		30-150	4		30	A
Heptachlor epoxide	70		67		30-150	4		30	A
Endrin	82		79		30-150	4		30	A
Endrin ketone	64		61		30-150	5		30	A
Dieldrin	73		70		30-150	4		30	A
4,4'-DDE	77		73		30-150	5		30	A
4,4'-DDD	76		73		30-150	4		30	A
4,4'-DDT	78		75		30-150	4		30	A
Endosulfan I	66		64		30-150	3		30	A
Endosulfan II	68		66		30-150	3		30	A
Endosulfan sulfate	66		63		30-150	5		30	A
Methoxychlor	77		75		30-150	3		30	A
cis-Chlordane	70		67		30-150	4		30	A
trans-Chlordane	68		65		30-150	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG723916-2 WG723916-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		64		30-150	B
Decachlorobiphenyl	96		87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		58		30-150	A
Decachlorobiphenyl	67		62		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-06 Batch: WG723917-2 WG723917-3									
Delta-BHC	75		80		30-150	6		30	A
Lindane	74		78		30-150	5		30	A
Alpha-BHC	85		90		30-150	6		30	A
Beta-BHC	85		84		30-150	1		30	A
Heptachlor	68		73		30-150	7		30	A
Aldrin	74		77		30-150	4		30	A
Heptachlor epoxide	69		72		30-150	4		30	A
Endrin	82		86		30-150	5		30	A
Endrin ketone	66		70		30-150	6		30	A
Dieldrin	74		78		30-150	5		30	A
4,4'-DDE	68		71		30-150	4		30	A
4,4'-DDD	75		80		30-150	6		30	A
4,4'-DDT	69		72		30-150	4		30	A
Endosulfan I	67		70		30-150	4		30	A
Endosulfan II	66		69		30-150	4		30	A
Endosulfan sulfate	74		80		30-150	8		30	A
Methoxychlor	71		81		30-150	13		30	A
cis-Chlordane	67		70		30-150	4		30	A
trans-Chlordane	71		74		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-06 Batch: WG723917-2 WG723917-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		77		30-150	B
Decachlorobiphenyl	66		70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		64		30-150	A
Decachlorobiphenyl	55		57		30-150	A

METALS

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01
Client ID: SB-2 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Percent Solids: 89%

Date Collected: 09/18/14 15:45
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	11000		mg/kg	9.0	1.8	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Antimony, Total	2.3	J	mg/kg	4.5	0.72	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Arsenic, Total	4.8		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Barium, Total	610		mg/kg	4.5	1.3	10	09/23/14 20:20	09/26/14 13:48	EPA 3050B	1,6010C	JH
Beryllium, Total	0.66		mg/kg	0.45	0.09	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.90	0.06	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Calcium, Total	16000		mg/kg	9.0	2.7	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Chromium, Total	30		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Cobalt, Total	6.8		mg/kg	1.8	0.45	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Copper, Total	110		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Iron, Total	44000		mg/kg	4.5	1.8	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Lead, Total	150		mg/kg	4.5	0.18	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Magnesium, Total	9200		mg/kg	9.0	0.90	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Manganese, Total	650		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Mercury, Total	0.076	J	mg/kg	0.077	0.016	1	09/18/14 22:27	09/19/14 13:41	EPA 7471B	1,7471B	KL
Nickel, Total	17		mg/kg	2.2	0.36	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Potassium, Total	2900		mg/kg	220	36.	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Selenium, Total	1.6	J	mg/kg	1.8	0.27	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Sodium, Total	220		mg/kg	180	27.	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Vanadium, Total	26		mg/kg	0.90	0.09	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH
Zinc, Total	970		mg/kg	4.5	0.63	2	09/23/14 20:20	09/25/14 17:39	EPA 3050B	1,6010C	JH

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02
Client ID: SB-2 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Percent Solids: 77%

Date Collected: 09/18/14 17:15
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9000		mg/kg	10	2.0	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	5.0	0.80	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Arsenic, Total	3.6		mg/kg	1.0	0.20	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Barium, Total	31		mg/kg	5.0	1.5	10	09/23/14 20:20	09/26/14 14:04	EPA 3050B	1,6010C	JH
Beryllium, Total	0.35	J	mg/kg	0.50	0.10	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	1.0	0.07	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Calcium, Total	2000		mg/kg	10	3.0	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Chromium, Total	18		mg/kg	1.0	0.20	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Cobalt, Total	4.2		mg/kg	2.0	0.50	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Copper, Total	42		mg/kg	1.0	0.20	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Iron, Total	23000		mg/kg	5.0	2.0	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Lead, Total	43		mg/kg	5.0	0.20	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Magnesium, Total	2700		mg/kg	10	1.0	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Manganese, Total	170		mg/kg	1.0	0.20	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Mercury, Total	0.04	J	mg/kg	0.09	0.02	1	09/18/14 22:27	09/19/14 13:43	EPA 7471B	1,7471B	KL
Nickel, Total	12		mg/kg	2.5	0.40	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Potassium, Total	1300		mg/kg	250	40.	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Selenium, Total	0.64	J	mg/kg	2.0	0.30	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	1.0	0.20	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Sodium, Total	210		mg/kg	200	30.	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	2.0	0.40	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Vanadium, Total	22		mg/kg	1.0	0.10	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH
Zinc, Total	77		mg/kg	5.0	0.70	2	09/23/14 20:20	09/25/14 18:26	EPA 3050B	1,6010C	JH

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03 Date Collected: 09/18/14 13:30

Client ID: SB-4 (8-10') Date Received: 09/18/14

Sample Location: 3875 9TH AVE. Field Prep: Not Specified

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	18000		mg/kg	8.6	1.7	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.3	0.69	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Arsenic, Total	1.5		mg/kg	0.86	0.17	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Barium, Total	230		mg/kg	4.3	1.3	10	09/23/14 20:20	09/26/14 14:08	EPA 3050B	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.43	0.09	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.86	0.06	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Calcium, Total	5900		mg/kg	8.6	2.6	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Chromium, Total	54		mg/kg	0.86	0.17	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Cobalt, Total	15		mg/kg	1.7	0.43	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Copper, Total	53		mg/kg	0.86	0.17	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Iron, Total	28000		mg/kg	4.3	1.7	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Lead, Total	4.3		mg/kg	4.3	0.17	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Magnesium, Total	11000		mg/kg	8.6	0.86	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Manganese, Total	790		mg/kg	0.86	0.17	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/18/14 22:27	09/19/14 13:45	EPA 7471B	1,7471B	KL
Nickel, Total	32		mg/kg	2.2	0.34	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Potassium, Total	6700		mg/kg	220	34.	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Selenium, Total	0.77	J	mg/kg	1.7	0.26	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.86	0.17	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Sodium, Total	280		mg/kg	170	26.	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.34	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Vanadium, Total	57		mg/kg	0.86	0.09	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH
Zinc, Total	78		mg/kg	4.3	0.60	2	09/23/14 20:20	09/25/14 18:30	EPA 3050B	1,6010C	JH

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04
Client ID: SB-1 (5-7')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Percent Solids: 87%

Date Collected: 09/18/14 09:55
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	21000		mg/kg	9.0	1.8	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.5	0.72	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Arsenic, Total	2.0		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Barium, Total	210		mg/kg	4.5	1.4	10	09/23/14 20:20	09/26/14 14:11	EPA 3050B	1,6010C	JH
Beryllium, Total	0.24	J	mg/kg	0.45	0.09	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.90	0.06	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Calcium, Total	15000		mg/kg	9.0	2.7	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Chromium, Total	81		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Cobalt, Total	16		mg/kg	1.8	0.45	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Copper, Total	75		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Iron, Total	31000		mg/kg	4.5	1.8	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Lead, Total	7.1		mg/kg	4.5	0.18	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Magnesium, Total	18000		mg/kg	9.0	0.90	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Manganese, Total	210		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.07	0.02	1	09/18/14 22:27	09/19/14 13:50	EPA 7471B	1,7471B	KL
Nickel, Total	52		mg/kg	2.2	0.36	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Potassium, Total	2900		mg/kg	220	36.	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Selenium, Total	1.4	J	mg/kg	1.8	0.27	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.90	0.18	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Sodium, Total	2700		mg/kg	180	27.	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Vanadium, Total	110		mg/kg	0.90	0.09	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH
Zinc, Total	88		mg/kg	4.5	0.63	2	09/23/14 20:20	09/25/14 18:34	EPA 3050B	1,6010C	JH

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05
Client ID: SB-4 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Percent Solids: 91%

Date Collected: 09/18/14 13:05
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	18000		mg/kg	8.4	1.7	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.2	0.67	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Arsenic, Total	2.9		mg/kg	0.84	0.17	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Barium, Total	240		mg/kg	4.2	1.3	10	09/23/14 20:20	09/26/14 14:27	EPA 3050B	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.42	0.08	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.84	0.06	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Calcium, Total	5700		mg/kg	8.4	2.5	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Chromium, Total	53		mg/kg	0.84	0.17	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Cobalt, Total	14		mg/kg	1.7	0.42	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Copper, Total	47		mg/kg	0.84	0.17	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Iron, Total	33000		mg/kg	4.2	1.7	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Lead, Total	17		mg/kg	4.2	0.17	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Magnesium, Total	10000		mg/kg	8.4	0.84	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Manganese, Total	560		mg/kg	0.84	0.17	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Mercury, Total	0.05	J	mg/kg	0.07	0.02	1	09/18/14 22:27	09/19/14 13:52	EPA 7471B	1,7471B	KL
Nickel, Total	30		mg/kg	2.1	0.34	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Potassium, Total	6600		mg/kg	210	34.	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Selenium, Total	1.4	J	mg/kg	1.7	0.25	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.84	0.17	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Sodium, Total	570		mg/kg	170	25.	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.34	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Vanadium, Total	54		mg/kg	0.84	0.08	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH
Zinc, Total	67		mg/kg	4.2	0.59	2	09/23/14 20:20	09/25/14 19:10	EPA 3050B	1,6010C	JH

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06
Client ID: SB-1 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Percent Solids: 92%

Date Collected: 09/18/14 09:45
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	10000		mg/kg	8.1	1.6	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Antimony, Total	16		mg/kg	4.1	0.65	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Arsenic, Total	23		mg/kg	0.81	0.16	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Barium, Total	1100		mg/kg	4.1	1.2	10	09/23/14 20:20	09/26/14 14:31	EPA 3050B	1,6010C	JH
Beryllium, Total	0.46		mg/kg	0.41	0.08	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Cadmium, Total	32		mg/kg	0.81	0.06	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Calcium, Total	14000		mg/kg	8.1	2.4	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Chromium, Total	100		mg/kg	0.81	0.16	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Cobalt, Total	9.8		mg/kg	1.6	0.41	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Copper, Total	860		mg/kg	0.81	0.16	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Iron, Total	71000		mg/kg	4.1	1.6	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Lead, Total	2200		mg/kg	4.1	0.16	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Magnesium, Total	3300		mg/kg	8.1	0.81	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Manganese, Total	540		mg/kg	0.81	0.16	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Mercury, Total	0.19		mg/kg	0.07	0.02	1	09/18/14 22:27	09/19/14 13:53	EPA 7471B	1,7471B	KL
Nickel, Total	180		mg/kg	2.0	0.32	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Potassium, Total	1100		mg/kg	200	32.	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Selenium, Total	4.1		mg/kg	1.6	0.24	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Silver, Total	1.2		mg/kg	0.81	0.16	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Sodium, Total	790		mg/kg	160	24.	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.6	0.32	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Vanadium, Total	61		mg/kg	0.81	0.08	2	09/23/14 20:20	09/25/14 19:13	EPA 3050B	1,6010C	JH
Zinc, Total	3600		mg/kg	41	5.7	20	09/23/14 20:20	09/26/14 10:31	EPA 3050B	1,6010C	JH

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07
Client ID: GW-1
Sample Location: 3875 9TH AVE.
Matrix: Water
Date Collected: 09/18/14 10:10
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	30.8		mg/l	2.00	0.400	200	09/24/14 14:39	09/25/14 13:41	EPA 3005A	1,6020A	KL
Antimony, Total	0.00187	J	mg/l	0.00400	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00704		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Barium, Total	2.814		mg/l	0.01000	0.00200	20	09/24/14 14:39	09/25/14 13:09	EPA 3005A	1,6020A	KL
Beryllium, Total	0.00106		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Cadmium, Total	0.00073		mg/l	0.00020	0.00005	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Calcium, Total	302.		mg/l	2.00	0.640	20	09/24/14 14:39	09/25/14 13:09	EPA 3005A	1,6020A	KL
Chromium, Total	0.1492		mg/l	0.00100	0.00020	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Cobalt, Total	0.03915		mg/l	0.00020	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Copper, Total	0.1729		mg/l	0.00100	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Iron, Total	97.9		mg/l	1.00	0.260	20	09/24/14 14:39	09/25/14 13:09	EPA 3005A	1,6020A	KL
Lead, Total	0.05823		mg/l	0.00100	0.00020	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Magnesium, Total	156.		mg/l	1.40	0.0486	20	09/24/14 14:39	09/25/14 13:09	EPA 3005A	1,6020A	KL
Manganese, Total	8.992		mg/l	0.1000	0.02000	200	09/24/14 14:39	09/25/14 13:41	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/19/14 14:28	09/22/14 17:37	EPA 7470A	1,7470A	AK
Nickel, Total	0.1303		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Potassium, Total	53.2		mg/l	20.0	5.40	200	09/24/14 14:39	09/25/14 13:41	EPA 3005A	1,6020A	KL
Selenium, Total	0.00206	J	mg/l	0.00500	0.00030	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Sodium, Total	1730		mg/l	20.0	3.00	200	09/24/14 14:39	09/25/14 13:41	EPA 3005A	1,6020A	KL
Thallium, Total	0.00030	J	mg/l	0.00050	0.00003	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Vanadium, Total	0.2318		mg/l	0.00500	0.00010	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Zinc, Total	0.1592		mg/l	0.01000	0.00120	1	09/24/14 14:39	09/25/14 13:12	EPA 3005A	1,6020A	KL
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0153		mg/l	0.0100	0.00200	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Antimony, Dissolved	0.00523		mg/l	0.00400	0.00010	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Arsenic, Dissolved	0.00103		mg/l	0.00050	0.00020	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Barium, Dissolved	2.306		mg/l	0.01000	0.00200	20	09/19/14 05:15	09/25/14 14:38	NA	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-07
Client ID: GW-1
Sample Location: 3875 9TH AVE.
Matrix: Water
Date Collected: 09/18/14 10:10
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	362.		mg/l	2.00	0.640	20	09/19/14 05:15	09/25/14 14:38	NA	1,6020A	KL
Chromium, Dissolved	0.00077	J	mg/l	0.00100	0.00020	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Cobalt, Dissolved	0.00645		mg/l	0.00020	0.00010	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Copper, Dissolved	0.00035	J	mg/l	0.00100	0.00010	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Iron, Dissolved	11.6		mg/l	0.0500	0.0130	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Magnesium, Dissolved	162.		mg/l	1.40	0.460	20	09/19/14 05:15	09/25/14 14:38	NA	1,6020A	KL
Manganese, Dissolved	8.582		mg/l	0.01000	0.00200	20	09/19/14 05:15	09/25/14 14:38	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/19/14 10:13	09/22/14 16:15	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00799		mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Potassium, Dissolved	52.0		mg/l	2.00	0.540	20	09/19/14 05:15	09/25/14 14:38	NA	1,6020A	KL
Selenium, Dissolved	0.00047	J	mg/l	0.00500	0.00030	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Sodium, Dissolved	1590		mg/l	20.0	3.00	200	09/19/14 05:15	09/25/14 15:14	NA	1,6020A	KL
Thallium, Dissolved	0.00004	J	mg/l	0.00050	0.00003	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Vanadium, Dissolved	0.00040	J	mg/l	0.00500	0.00010	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL
Zinc, Dissolved	0.00409	J	mg/l	0.01000	0.00120	1	09/19/14 05:15	09/25/14 14:42	NA	1,6020A	KL

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08
Client ID: GW-2
Sample Location: 3875 9TH AVE.
Matrix: Water
Date Collected: 09/18/14 13:55
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	27.9		mg/l	2.00	0.400	200	09/24/14 14:39	09/25/14 14:06	EPA 3005A	1,6020A	KL
Antimony, Total	0.00059	J	mg/l	0.00400	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00838		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Barium, Total	0.7108		mg/l	0.01000	0.00200	20	09/24/14 14:39	09/25/14 13:55	EPA 3005A	1,6020A	KL
Beryllium, Total	0.00129		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Cadmium, Total	0.00075		mg/l	0.00020	0.00005	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Calcium, Total	457.		mg/l	2.00	0.640	20	09/24/14 14:39	09/25/14 13:55	EPA 3005A	1,6020A	KL
Chromium, Total	0.05094		mg/l	0.00100	0.00020	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Cobalt, Total	0.02478		mg/l	0.00020	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Copper, Total	0.1414		mg/l	0.00100	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Iron, Total	59.6		mg/l	1.00	0.260	20	09/24/14 14:39	09/25/14 13:55	EPA 3005A	1,6020A	KL
Lead, Total	0.3657		mg/l	0.00100	0.00020	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Magnesium, Total	148.		mg/l	1.40	0.0486	20	09/24/14 14:39	09/25/14 13:55	EPA 3005A	1,6020A	KL
Manganese, Total	2.550		mg/l	0.01000	0.00200	20	09/24/14 14:39	09/25/14 13:55	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/19/14 14:28	09/22/14 17:39	EPA 7470A	1,7470A	AK
Nickel, Total	0.04723		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Potassium, Total	13.7		mg/l	2.00	0.540	20	09/24/14 14:39	09/25/14 13:55	EPA 3005A	1,6020A	KL
Selenium, Total	0.00264	J	mg/l	0.00500	0.00030	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Silver, Total	0.00022	J	mg/l	0.00040	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Sodium, Total	35.2		mg/l	0.100	0.0150	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Thallium, Total	0.00041	J	mg/l	0.00050	0.00003	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Vanadium, Total	0.08175		mg/l	0.00500	0.00010	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Zinc, Total	0.3105		mg/l	0.01000	0.00120	1	09/24/14 14:39	09/25/14 13:59	EPA 3005A	1,6020A	KL
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0118		mg/l	0.0100	0.00200	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Antimony, Dissolved	0.00112	J	mg/l	0.00400	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Arsenic, Dissolved	0.00217		mg/l	0.00050	0.00020	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Barium, Dissolved	0.3630		mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL

Project Name: 3875 9TH AVE.
Lab Number: L1421852
Project Number: 11995
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-08
Client ID: GW-2
Sample Location: 3875 9TH AVE.
Matrix: Water
Date Collected: 09/18/14 13:55
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	444.		mg/l	2.00	0.640	20	09/19/14 05:15	09/25/14 15:28	NA	1,6020A	KL
Chromium, Dissolved	0.00141		mg/l	0.00100	0.00020	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Cobalt, Dissolved	0.00201		mg/l	0.00020	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Copper, Dissolved	0.00061	J	mg/l	0.00100	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Iron, Dissolved	0.265		mg/l	0.0500	0.0130	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Lead, Dissolved	0.00024	J	mg/l	0.00100	0.00020	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Magnesium, Dissolved	104.		mg/l	1.40	0.460	20	09/19/14 05:15	09/25/14 15:28	NA	1,6020A	KL
Manganese, Dissolved	1.013		mg/l	0.01000	0.00200	20	09/19/14 05:15	09/25/14 15:28	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/19/14 10:13	09/22/14 16:26	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00283		mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Potassium, Dissolved	12.8		mg/l	2.00	0.540	20	09/19/14 05:15	09/25/14 15:28	NA	1,6020A	KL
Selenium, Dissolved	0.00038	J	mg/l	0.00500	0.00030	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Silver, Dissolved	0.00019	J	mg/l	0.00040	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Sodium, Dissolved	34.4		mg/l	0.100	0.0150	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Vanadium, Dissolved	0.00052	J	mg/l	0.00500	0.00010	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL
Zinc, Dissolved	0.01262		mg/l	0.01000	0.00120	1	09/19/14 05:15	09/25/14 15:25	NA	1,6020A	KL

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG723436-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	09/18/14 22:27	09/19/14 13:07	1,7471B	KL

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 07-08 Batch: WG723476-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/19/14 10:13	09/22/14 16:11	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-08 Batch: WG723621-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/19/14 14:28	09/22/14 16:56	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG724618-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	09/23/14 20:20	09/26/14 13:35	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Calcium, Total	ND		mg/kg	4.0	1.2	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Thallium, Total	0.20	J	mg/kg	0.80	0.16	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	09/23/14 20:20	09/25/14 18:23	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-08 Batch: WG724867-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Antimony, Total	0.00050	J	mg/l	0.00400	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Arsenic, Total	ND		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Barium, Total	ND		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Calcium, Total	ND		mg/l	0.100	0.0320	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Chromium, Total	0.00028	J	mg/l	0.00100	0.00020	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Cobalt, Total	ND		mg/l	0.00020	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Copper, Total	0.00086	J	mg/l	0.00100	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Iron, Total	ND		mg/l	0.0500	0.0130	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Magnesium, Total	ND		mg/l	0.0700	0.00243	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL

Project Name: 3875 9TH AVE. **Lab Number:** L1421852

Project Number: 11995 **Report Date:** 09/28/14

Method Blank Analysis
Batch Quality Control

Manganese, Total	ND		mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Nickel, Total	0.00019	J	mg/l	0.00050	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0270	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Sodium, Total	ND		mg/l	0.100	0.0150	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Vanadium, Total	0.00014	J	mg/l	0.00500	0.00010	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL
Zinc, Total	ND		mg/l	0.01000	0.00120	1	09/24/14 14:39	09/25/14 12:51	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 07-08 Batch: WG724919-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Antimony, Dissolved	0.00369	J	mg/l	0.00400	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Chromium, Dissolved	0.00032	J	mg/l	0.00100	0.00020	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Cobalt, Dissolved	ND		mg/l	0.00020	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Copper, Dissolved	0.00060	J	mg/l	0.00100	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Magnesium, Dissolved	ND		mg/l	0.0700	0.0230	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Manganese, Dissolved	0.00011	J	mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Nickel, Dissolved	0.00017	J	mg/l	0.00050	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Sodium, Dissolved	0.0939	J	mg/l	0.100	0.0150	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

Method Blank Analysis
Batch Quality Control

Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL
Zinc, Dissolved	0.00140	J	mg/l	0.01000	0.00120	1	09/19/14 05:15	09/25/14 14:17	1,6020A	KL

Prep Information

Digestion Method: NA

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG723436-2 SRM Lot Number: D083-540								
Mercury, Total	118		-		75-126	-		
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG723476-2								
Mercury, Dissolved	98		-		70-130	-		
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG723621-2								
Mercury, Total	88		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG724618-2 SRM Lot Number: D083-540					
Aluminum, Total	76	-	51-148	-	
Antimony, Total	181	-	1-210	-	
Arsenic, Total	98	-	78-122	-	
Barium, Total	102	-	82-117	-	
Beryllium, Total	99	-	82-118	-	
Cadmium, Total	96	-	82-118	-	
Calcium, Total	90	-	82-118	-	
Chromium, Total	98	-	79-121	-	
Cobalt, Total	101	-	83-117	-	
Copper, Total	104	-	80-120	-	
Iron, Total	99	-	47-153	-	
Lead, Total	97	-	81-119	-	
Magnesium, Total	83	-	75-124	-	
Manganese, Total	95	-	81-119	-	
Nickel, Total	99	-	82-118	-	
Potassium, Total	88	-	70-130	-	
Selenium, Total	109	-	78-123	-	
Silver, Total	108	-	74-125	-	
Sodium, Total	89	-	70-130	-	
Thallium, Total	95	-	78-122	-	
Vanadium, Total	103	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG724618-2 SRM Lot Number: D083-540					
Zinc, Total	97	-	80-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG724867-2					
Aluminum, Total	110	-	80-120	-	
Antimony, Total	107	-	80-120	-	
Arsenic, Total	103	-	80-120	-	
Barium, Total	102	-	80-120	-	
Beryllium, Total	105	-	80-120	-	
Cadmium, Total	110	-	80-120	-	
Calcium, Total	116	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	102	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	95	-	80-120	-	
Lead, Total	100	-	80-120	-	
Magnesium, Total	114	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	99	-	80-120	-	
Potassium, Total	106	-	80-120	-	
Selenium, Total	119	-	80-120	-	
Silver, Total	97	-	80-120	-	
Sodium, Total	101	-	80-120	-	
Thallium, Total	98	-	80-120	-	
Vanadium, Total	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG724867-2					
Zinc, Total	106	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG724919-2					
Aluminum, Dissolved	110	-	80-120	-	
Antimony, Dissolved	83	-	80-120	-	
Arsenic, Dissolved	100	-	80-120	-	
Barium, Dissolved	102	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	108	-	80-120	-	
Calcium, Dissolved	114	-	80-120	-	
Chromium, Dissolved	100	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	100	-	80-120	-	
Iron, Dissolved	113	-	80-120	-	
Lead, Dissolved	99	-	80-120	-	
Magnesium, Dissolved	107	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Nickel, Dissolved	98	-	80-120	-	
Potassium, Dissolved	108	-	80-120	-	
Selenium, Dissolved	105	-	80-120	-	
Silver, Dissolved	98	-	80-120	-	
Sodium, Dissolved	106	-	80-120	-	
Thallium, Dissolved	96	-	80-120	-	
Vanadium, Dissolved	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3875 9TH AVE.

Project Number: 11995

Lab Number: L1421852

Report Date: 09/28/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG724919-2					
Zinc, Dissolved	111	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG723436-4 QC Sample: L1421715-01 Client ID: MS Sample												
Mercury, Total	0.03J	0.148	0.18	**122**	Q	-	-		80-120	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG723476-4 QC Sample: L1421852-07 Client ID: GW-1												
Mercury, Dissolved	ND	0.005	0.00400	80		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG723621-3 WG723621-4 QC Sample: L1421399-04 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00468	94		0.00469	94		75-125	0		20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG723621-7 WG723621-8 QC Sample: L1421399-05 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00068	**14**	Q	0.00056	**11**	Q	75-125	19		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG724618-4 QC Sample: L1421852-01 Client ID: SB-2 (0-2')										
Aluminum, Total	11000	172	12000	**580**	Q	-	-	75-125	-	20
Antimony, Total	2.3J	43.1	38	88		-	-	75-125	-	20
Arsenic, Total	4.8	10.3	13	79		-	-	75-125	-	20
Barium, Total	610	172	470	**0**	Q	-	-	75-125	-	20
Beryllium, Total	0.66	4.31	5.6	114		-	-	75-125	-	20
Cadmium, Total	ND	4.4	3.8	86		-	-	75-125	-	20
Calcium, Total	16000	862	7800	**0**	Q	-	-	75-125	-	20
Chromium, Total	30.	17.2	49	110		-	-	75-125	-	20
Cobalt, Total	6.8	43.1	45	88		-	-	75-125	-	20
Copper, Total	110	21.6	86	**0**	Q	-	-	75-125	-	20
Iron, Total	44000	86.2	34000	**0**	Q	-	-	75-125	-	20
Lead, Total	150	44	100	**0**	Q	-	-	75-125	-	20
Magnesium, Total	9200	862	7000	**0**	Q	-	-	75-125	-	20
Manganese, Total	650	43.1	490	**0**	Q	-	-	75-125	-	20
Nickel, Total	17.	43.1	55	88		-	-	75-125	-	20
Potassium, Total	2900	862	3600	81		-	-	75-125	-	20
Selenium, Total	1.6J	10.3	10	97		-	-	75-125	-	20
Silver, Total	ND	25.9	32	124		-	-	75-125	-	20
Sodium, Total	220	862	1400	**137**	Q	-	-	75-125	-	20
Thallium, Total	ND	10.3	8.2	79		-	-	75-125	-	20
Vanadium, Total	26.	43.1	82	**130**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG724618-4 QC Sample: L1421852-01 Client ID: SB-2 (0-2')										
Zinc, Total	970	43.1	700	**0**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724867-4 QC Sample: L1421852-07 Client ID: GW-1										
Aluminum, Total	30.8	2	29.0	**0**	Q	-	-	75-125	-	20
Antimony, Total	0.00187J	0.5	0.5626	112		-	-	75-125	-	20
Arsenic, Total	0.00704	0.12	0.1563	124		-	-	75-125	-	20
Barium, Total	2.814	2	5.972	**158**	Q	-	-	75-125	-	20
Beryllium, Total	0.00106	0.05	0.06206	122		-	-	75-125	-	20
Cadmium, Total	0.00073	0.051	0.06764	**131**	Q	-	-	75-125	-	20
Calcium, Total	302.	10	356	**540**	Q	-	-	75-125	-	20
Chromium, Total	0.1492	0.2	0.4596	**155**	Q	-	-	75-125	-	20
Cobalt, Total	0.03915	0.5	0.6796	**128**	Q	-	-	75-125	-	20
Copper, Total	0.1729	0.25	0.5394	**147**	Q	-	-	75-125	-	20
Iron, Total	97.9	1	124	**2610**	Q	-	-	75-125	-	20
Lead, Total	0.05823	0.51	0.7116	**128**	Q	-	-	75-125	-	20
Magnesium, Total	156.	10	203	**470**	Q	-	-	75-125	-	20
Manganese, Total	8.992	0.5	7.672	**0**	Q	-	-	75-125	-	20
Nickel, Total	0.1303	0.5	0.7886	**132**	Q	-	-	75-125	-	20
Potassium, Total	53.2	10	56.1	**29**	Q	-	-	75-125	-	20
Selenium, Total	0.00206J	0.12	0.153	**128**	Q	-	-	75-125	-	20
Silver, Total	ND	0.05	0.06028	120		-	-	75-125	-	20
Sodium, Total	1730	10	1460	**0**	Q	-	-	75-125	-	20
Thallium, Total	0.00030J	0.12	0.1009	84		-	-	75-125	-	20
Vanadium, Total	0.2318	0.5	0.9616	**146**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724867-4 QC Sample: L1421852-07 Client ID: GW-1										
Zinc, Total	0.1592	0.5	0.8678	**142**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724919-4 QC Sample: L1421852-07 Client ID: GW-1										
Aluminum, Dissolved	0.0153	2	2.32	115		-	-	75-125	-	20
Antimony, Dissolved	0.00523	0.5	0.5790	115		-	-	75-125	-	20
Arsenic, Dissolved	0.00103	0.12	0.1317	109		-	-	75-125	-	20
Barium, Dissolved	2.306	2	4.368	103		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05564	111		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05654	111		-	-	75-125	-	20
Calcium, Dissolved	362.	10	354	**0**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.00077J	0.2	0.2078	104		-	-	75-125	-	20
Cobalt, Dissolved	0.00645	0.5	0.5494	108		-	-	75-125	-	20
Copper, Dissolved	0.00035J	0.25	0.2744	110		-	-	75-125	-	20
Iron, Dissolved	11.6	1	14.5	**290**	Q	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5450	107		-	-	75-125	-	20
Magnesium, Dissolved	162.	10	164	**20**	Q	-	-	75-125	-	20
Manganese, Dissolved	8.582	0.5	8.632	**10**	Q	-	-	75-125	-	20
Nickel, Dissolved	0.00799	0.5	0.5432	107		-	-	75-125	-	20
Potassium, Dissolved	52.0	10	66.5	**145**	Q	-	-	75-125	-	20
Selenium, Dissolved	0.00047J	0.12	0.140	117		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05204	104		-	-	75-125	-	20
Sodium, Dissolved	1590	10	1550	**0**	Q	-	-	75-125	-	20
Thallium, Dissolved	0.00004J	0.12	0.1274	106		-	-	75-125	-	20
Vanadium, Dissolved	0.00040J	0.5	0.5748	115		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724919-4 QC Sample: L1421852-07 Client ID: GW-1									
Zinc, Dissolved	0.00409J	0.5	0.5702	114	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG723436-3 QC Sample: L1421715-01 Client ID: DUP Sample						
Mercury, Total	0.03J	0.03J	mg/kg	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG723476-3 QC Sample: L1421852-07 Client ID: GW-1						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG724618-3 QC Sample: L1421852-01 Client ID: SB-2 (0-2')						
Aluminum, Total	11000	11000	mg/kg	0		20
Antimony, Total	2.3J	ND	mg/kg	NC		20
Arsenic, Total	4.8	3.3	mg/kg	**37**	Q	20
Beryllium, Total	0.66	0.59	mg/kg	11		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	16000	6300	mg/kg	**87**	Q	20
Chromium, Total	30.	27	mg/kg	11		20
Cobalt, Total	6.8	7.3	mg/kg	7		20
Copper, Total	110	55	mg/kg	**67**	Q	20
Iron, Total	44000	31000	mg/kg	**35**	Q	20
Lead, Total	150	68	mg/kg	**75**	Q	20
Magnesium, Total	9200	6000	mg/kg	**42**	Q	20
Manganese, Total	650	380	mg/kg	**52**	Q	20
Nickel, Total	17.	17	mg/kg	0		20
Potassium, Total	2900	2500	mg/kg	15		20
Selenium, Total	1.6J	1.3J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	220	210	mg/kg	5		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG724618-3 QC Sample: L1421852-01 Client ID: SB-2 (0-2')						
Vanadium, Total	26.	30	mg/kg	14		20
Zinc, Total	970	470	mg/kg	**69**	Q	20
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG724618-3 QC Sample: L1421852-01 Client ID: SB-2 (0-2')						
Barium, Total	610	110	mg/kg	**139**	Q	20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724867-3 QC Sample: L1421852-07 Client ID: GW-1						
Barium, Total	2.814	3.378	mg/l	18		20
Calcium, Total	302.	354	mg/l	16		20
Iron, Total	97.9	119	mg/l	19		20
Magnesium, Total	156.	195	mg/l	**22**	Q	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724867-3 QC Sample: L1421852-07 Client ID: GW-1					
Antimony, Total	0.00187J	0.00108J	mg/l	NC	20
Arsenic, Total	0.00704	0.00833	mg/l	17	20
Beryllium, Total	0.00106	0.00114	mg/l	7	20
Cadmium, Total	0.00073	0.00073	mg/l	1	20
Chromium, Total	0.1492	0.1591	mg/l	6	20
Cobalt, Total	0.03915	0.04204	mg/l	7	20
Copper, Total	0.1729	0.1860	mg/l	7	20
Lead, Total	0.05823	0.06118	mg/l	5	20
Nickel, Total	0.1303	0.1399	mg/l	7	20
Selenium, Total	0.00206J	0.00262J	mg/l	NC	20
Silver, Total	ND	0.00014J	mg/l	NC	20
Thallium, Total	0.00030J	0.00031J	mg/l	NC	20
Vanadium, Total	0.2318	0.2508	mg/l	8	20
Zinc, Total	0.1592	0.1708	mg/l	7	20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724867-3 QC Sample: L1421852-07 Client ID: GW-1					
Aluminum, Total	30.8	29.6	mg/l	4	20
Manganese, Total	8.992	8.736	mg/l	3	20
Potassium, Total	53.2	52.4	mg/l	2	20
Sodium, Total	1730	1660	mg/l	4	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724919-3 QC Sample: L1421852-07 Client ID: GW-1					
Barium, Dissolved	2.306	2.386	mg/l	3	20
Calcium, Dissolved	362.	342	mg/l	6	20
Magnesium, Dissolved	162.	154	mg/l	5	20
Manganese, Dissolved	8.582	8.964	mg/l	4	20
Potassium, Dissolved	52.0	53.6	mg/l	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724919-3 QC Sample: L1421852-07 Client ID: GW-1					
Aluminum, Dissolved	0.0153	0.0164	mg/l	7	20
Antimony, Dissolved	0.00523	0.00200J	mg/l	NC	20
Arsenic, Dissolved	0.00103	0.00086	mg/l	17	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.00077J	0.00107	mg/l	NC	20
Cobalt, Dissolved	0.00645	0.00691	mg/l	7	20
Copper, Dissolved	0.00035J	0.00050J	mg/l	NC	20
Iron, Dissolved	11.6	12.3	mg/l	6	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Nickel, Dissolved	0.00799	0.00840	mg/l	5	20
Selenium, Dissolved	0.00047J	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	0.00004J	ND	mg/l	NC	20
Vanadium, Dissolved	0.00040J	0.00025J	mg/l	NC	20
Zinc, Dissolved	0.00409J	0.00401J	mg/l	NC	20
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG724919-3 QC Sample: L1421852-07 Client ID: GW-1					
Sodium, Dissolved	1590	1520	mg/l	5	20

INORGANICS
&
MISCELLANEOUS

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-01
Client ID: SB-2 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil

Date Collected: 09/18/14 15:45
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	09/19/14 01:41	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-02
Client ID: SB-2 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil

Date Collected: 09/18/14 17:15
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.8		%	0.100	NA	1	-	09/19/14 01:41	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-03
Client ID: SB-4 (8-10')
Sample Location: 3875 9TH AVE.
Matrix: Soil

Date Collected: 09/18/14 13:30
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	09/19/14 01:41	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995
Lab Number: L1421852
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-04
Client ID: SB-1 (5-7')
Sample Location: 3875 9TH AVE.
Matrix: Soil
Date Collected: 09/18/14 09:55
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	09/19/14 01:41	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-05
Client ID: SB-4 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil

Date Collected: 09/18/14 13:05
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	09/19/14 01:41	30,2540G	RT

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

SAMPLE RESULTS

Lab ID: L1421852-06
Client ID: SB-1 (0-2')
Sample Location: 3875 9TH AVE.
Matrix: Soil

Date Collected: 09/18/14 09:45
Date Received: 09/18/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	09/19/14 01:41	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG723420-1 QC Sample: L1421814-02 Client ID: DUP Sample						
Solids, Total	29.4	29.6	%	1		20

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 09/19/2014 01:13

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421852-01A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-01B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-01C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-01D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)
L1421852-01E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1421852-01X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-01Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-01Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-02A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-02B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-02C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-02D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421852-02E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1421852-02X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-02Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-02Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-03A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-03B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-03C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-03D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)
L1421852-03E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1421852-03X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-03Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-03Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-04A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-04B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-04C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-04D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421852-04E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1421852-04X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-04Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-04Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-05A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-05B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-05C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-05D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)
L1421852-05E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1421852-05X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-05Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-05Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-06A	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-06B	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-06C	5 gram Encore Sampler	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(2)
L1421852-06D	Plastic 2oz unpreserved for TS	A	N/A	3.1	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421852-06E	Amber 250ml unpreserved	A	N/A	3.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1421852-06X	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-06Y	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-06Z	Vial Water preserved split	A	N/A	3.1	Y	Absent	NYTCL-8260HLW(14)
L1421852-07A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1421852-07B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1421852-07C	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1421852-07D	Amber 1000ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1421852-07E	Amber 1000ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1421852-07F	Amber 1000ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1421852-07H	Amber 500ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8081(7)
L1421852-07I	Amber 500ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8081(7)
L1421852-07J	Plastic 500ml HNO3 preserved	B	<2	4.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1421852-07K	Plastic 120ml HNO3 preserved spl	B	<2	4.1	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1421852-07X	Plastic 500ml unpreserved	B	7	4.1	Y	Absent	FILTER-MET(1)
L1421852-08A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 3875 9TH AVE.
Project Number: 11995

Lab Number: L1421852
Report Date: 09/28/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421852-08B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1421852-08C	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1421852-08D	Amber 1000ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1421852-08E	Amber 1000ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1421852-08F	Amber 1000ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1421852-08G	Amber 1000ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1421852-08H	Amber 500ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8081(7)
L1421852-08I	Amber 500ml unpreserved	B	7	4.1	Y	Absent	NYTCL-8081(7)
L1421852-08J	Plastic 500ml HNO3 preserved	B	<2	4.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1421852-08K	Plastic 120ml HNO3 preserved spl	B	<2	4.1	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1421852-08X	Plastic 500ml unpreserved	B	7	4.1	Y	Absent	FILTER-MET(1)
L1421852-09A	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1421852-09B	Vial HCl preserved	B	N/A	4.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	3875 9TH AVE.	**Lab Number:**	L1421852
Project Number:	11995	**Report Date:**	09/28/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name:	3875 9TH AVE.	**Lab Number:**	L1421852
Project Number:	11995	**Report Date:**	09/28/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	3875 9TH AVE.	**Lab Number:**	L1421852
Project Number:	11995	**Report Date:**	09/28/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:09281418:35

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 9/18/14

ALPHA Job #: L1421852

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: AKRF

Address: 440 Park Ave South 5th Floor 7

Phone: 646 388 9533 (Asya Bychov)

Fax:

Email: (jm) abychov@akrf.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 3875 9th Ave.

Project Location: 3875 9th Ave.

Project #: 11995

Project Manager: ~~Asya Bychov~~ Ben Rao.

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/25/14 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS (SVOC, Pest, PCB, TAL metals; VOC; TS; PCBs; SVOC; Pest.; Dis TAL metals (LF); TAL Metals; VOC)

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SVOC	Pest	PCB	TS	VOC	Dis TAL metals (LF)	TAL Metals	VOC	Sample Specific Comments	TOTAL # BOTTLES
21852-01	SB-2 (0-2)	9/18/14	1545	S	jm	A	E	P							5
02	SB-2 (8-10')		1715	S	jm	A	E	P							5
03	SB-4 (8-10')		1330.	S	jm	A	E	P							5
04	~~SB-1~~ ~~SB-1~~ SB-1 (5-7')		0955	S	jm	A	E	P							5
05	SB-4 (0-2')		1305	S	jm	A	E	P							5
06	SB-1 (0-2')		945	S	jm	A	E	P							5
07	GW-1		1010	GW	jm				A	A	A	P	P	V	5
08	GW-2		1355	GW	jm				A	A	A	P	P	V	10
															11
Container Type													C	B	
Preservative													C	B	

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9/18/14 1740	[signature]	9/18/14 1740
[signature]	9/18/14 1850	Tom Toler	9-18-14 1850
Tom Toler	9-18-14	[signature]	9/18/14 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

APPENDIX C

Field Sampling Plan

May 22, 2017

FIELD SAMPLING PLAN

207th Street/9th Avenue
NYSDEC BCP Site No. C231102
3875 9th Avenue
New York, New York 10034

Prepared for

J.207 ST. LLC and MFC REALTY CORP.
15 Verbena Avenue, 2nd Floor
Floral Park, New York 11001

ROUX ASSOCIATES, INC.

Environmental Consulting & Management

ROUX

209 Shafter Street, Islandia, New York 11749 ♦ 631-232-2600

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SAMPLING OBJECTIVES 2

3.0 SAMPLE MEDIA, LOCATIONS, ANALYTICAL SUITES, AND FREQUENCY 3
- 3.1 Soil Sampling 3
- 3.2 Groundwater Sampling 6
- 3.3 Soil Vapor Sampling 6

4.0 FIELD SAMPLING PROCEDURES 7
- 4.1 Soil Sampling and Monitoring Well Installation 7
  - 4.1.1 Soil Sampling 7
  - 4.1.2 Monitoring Well Installation 8
- 4.2 Groundwater Sampling 9
- 4.3 Soil Vapor Sampling 10

5.0 SAMPLE HANDLING AND ANALYSIS 11
- 5.1 Field Sample Handling 11
- 5.2 Sample Custody Documentation 11
- 5.3 Sample Shipment 12

6.0 SITE CONTROL PROCEDURES 14
- 6.1 Decontamination 14
- 6.2 Waste Handling and Disposal 14

TABLES

1. Remedial Investigation Field and Quality Control Sampling Summary
2. a. Proposed Soil Sampling Locations
   b. Proposed Groundwater Sampling Locations
   c. Proposed Soil Vapor Sampling Locations
3. Preservation, Holding Times, and Sample Containers

ATTACHMENTS

1. Roux Associates' Standard Operating Procedure for Tasks Described in this Field Sampling Plan
2. Chain of Custody Form

1.0 INTRODUCTION

Roux Associates has developed this Field Sampling Plan (FSP) to describe in detail the field sampling methods to be used during performance of the Remedial Investigation (RI) at 3875 Ninth Avenue, New York, New York (Site).

The FSP was prepared in accordance with directives provided in the DER-10 Technical Guidance for Site Investigation and Remediation (May 2010) issued by the New York State Department of Environmental Conservation (NYSDEC), as well as 6 NYCRR Part 375 and provides guidelines and procedures to be followed by field personnel during performance of the RI. Information contained in this FSP relates to sampling objectives, sampling locations, sampling frequencies, sample designations, sampling equipment, sample handling, sample analysis, and decontamination.

2.0 SAMPLING OBJECTIVES

Prior Site characterization work was conducted on the Site in 2014 by AKRF. The Site development history and the observations and findings of previous investigations were used to determine the areas of concern (AOCs) to be further investigated by this RIWP.

As described in Section 3.1 of the RIWP, previous investigations and historic documentation have documented the presence of the following AOCs:

- Former auto repair garage with potential for undocumented USTs and former auto wrecking area located on the western section of Site;
- Historical filling of Harlem River within eastern portion of the property; and
- Potential upgradient sources.

The objective of the proposed sampling is to determine the nature and extent of the known contamination on Site, to evaluate any additional AOCs and potential associated contamination and to obtain a current representation of the environmental conditions at the Site. Roux Associates will perform Site reconnaissance prior to RI field activities to determine final locations of soil borings based on actual field conditions and to verify there are no additional potential AOCs present.

The sampling procedures associated with characterization of soil, groundwater, and soil vapors are discussed in detail in Section 4 of this FSP. A discussion of the data quality objectives (DQOs) is provided in the Quality Assurance Project Plan (QAPP) located in Appendix D of the RI Work Plan (RIWP). The DQOs will be completed in compliance with DER-10 3.2.2(d).

3.0 SAMPLE MEDIA, LOCATIONS, ANALYTICAL SUITES, AND FREQUENCY

The media to be sampled during the RI include soil, groundwater, and soil vapor. Sampling locations, analytical suites, and frequency vary by medium. A discussion of the sampling schedule for each medium is provided below, while the assumed number of field samples to be collected for each medium, including quality control (QC) samples, is shown in Table 1 of this FSP. Specifics regarding the collection of samples at each location and for each task are provided in Section 4 of this FSP.

3.1 Soil Sampling

Soil samples underlying the Site will be collected at up to 12 locations as shown in Figure 6 of the RIWP and summarized as follows:

- five monitoring well pilot boreholes; and
- seven borings to evaluate Site wide soil quality and verify and/or delineate previously identified impacts.

A minimum of two soil samples will be collected from each borehole in accordance with the table provided below. A total of 24 soil samples are anticipated. A third soil sample may be collected from each or several test boring(s) if 1) elevated PID readings and/or visual and olfactory observations are noted during borehole advancement and/or if 2) field observations identify an upper fill layer underlain by native material (shallower than 10 feet bls) then an additional soil sample from the upper zone of the native layer will be collected to delineate the vertical migration of impacts (if any), as well as determine a more detailed remedy and potentially provide a cost savings for disposal options.

Soil borings may be added to the scope of work to investigate any additional areas of concern identified during field activities (i.e. if the geophysical survey is able to locate potential former USTs).

The sampling scheme and rationale for all soil samples is summarized in the table below.

Location	Sampling Depth	Rationale
Soil		
SB-101	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Delineate extent of VOC soil detections at AKRF location SB-1 - – analytes were detected in exceedance of the Residential Restricted SCOs
SB-102	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Delineate deeper soils at AKRF location SB-7 [(9-11 feet bgs) groundwater encountered at 9.5 feet bgs] – SVOCs were detected in exceedance of the Residential Restricted SCOs
SB-103	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Verify soil results from former service repair and sales shop (AKRF locations SB-3 and SB-4) - SVOCs were detected in exceedance of the Residential Restricted SCOs at location SB-3
SB-104	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Collection of additional soil data in area of former auto wrecking yard
SB-105	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Evaluate any potential soil impacts along northern property boundary; this area was not previously investigated
SB-106	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Verify soil results from center of the west side of Site
SB-107	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Evaluate any potential soil impacts along northern property boundary; this area was not previously investigated
SB-108	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Delineate extent of SVOC detections at AKRF location SB-2 – analytes were detected in exceedance of the Residential Restricted SCOs
SB-109	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Delineate deeper soils at AKRF location SB-7 [(9-11 feet bgs) groundwater encountered at 9.5 feet bgs] - SVOCs were detected in exceedance of the Residential Restricted SCOs

Location	Sampling Depth	Rationale
Soil		
SB-110	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Delineate extent of VOC detections at AKRF location SB-1 - analytes were detected in exceedance of the Residential Restricted SCOs
SB-111	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Delineate extent of VOC detections at AKRF location SB-1 and SVOC detections at location SB-2 – analytes were detected in exceedance of the Residential Restricted SCOs
SB-112	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	Evaluate any potential soil impacts in the center of the east side of the Site; this area was not previously investigated

Note: 1) The building construction will be slab (8-inch thick) on grade with the grade beams (6-feet) and pilecaps (2-feet) installed below the slab.

All soil samples will be analyzed for the Full list as follows:

- TCL Volatile Organic Compounds (VOCs) via USEPA Method 8260;
- TCL Base neutral acids (BNA)/SVOCs via USEPA Method 8270;
- TCL Pesticides via USEPA Method 8081;
- TCL Herbicides via USEPA Method 8151;
- PCBs via USEPA Method 8082;
- TAL Metals via USEPA Method 6010 and 7471(including hexavalent chromium- USEPA Method 3060); and
- Total cyanide via USEPA Method 9010.

Continuous soil samples will be collected using the direct-push method via a Geoprobe® with either a 4 or 5-foot macrocore sampler, depending on the model used. If necessary, more advanced drilling technology will be used to complete the site investigation. During soil boring activities, lithology will be recorded and soil will be visually inspected and field screened every 2 feet to 2½ feet for VOCs using a photoionization detector (PID) equipped with a 11.7 eV lamp. If free product is encountered, representative samples of the product will be collected for laboratory analysis.

3.2 Groundwater Sampling

A total of five groundwater samples will be collected from all five new permanent monitoring wells that will be installed during the investigation (MW-101 through MW-105) in corresponding boreholes SB-101 through SB-105. The wells will be installed to approximately 19 feet deep, based on an anticipated groundwater depth of 8 – 11 feet bls.

After gauging for potential separate-phase petroleum product using an oil/water interface probe, each well will be sampled for Full list analysis as defined above. All groundwater samples will be analyzed for both filtered (dissolved) and unfiltered (total) metals. In addition to the five groundwater samples, one field duplicate, one field blank, and one trip blank will be analyzed (Table 1).

Purging and sampling will be performed with a peristaltic pump, consistent with United States Environmental Protection Agency (USEPA) Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples From Monitoring Wells, dated July 30, 1996 and Revised January 19, 2010. Field parameters (i.e., pH, dissolved oxygen, ORP, etc.) will be collected using a water quality meter with flow-through cell until parameters stabilized before samples are collected as described in the USEPA low-flow sampling requirements.

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and "finger print analysis" and required regulatory reporting (i.e., NYSDEC spills hotline) will be performed.

3.3 Soil Vapor Sampling

As shown in Figure 6 of the RIWP, nine soil vapor samples will be collected onsite (SV-101 through SV-109). Samples will be collected per the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH Guidance) and in compliance with NYSDEC DER-10 3.6(b). All samples will be analyzed for VOCs using USEPA method TO-15.

4.0 FIELD SAMPLING PROCEDURES

This section provides a detailed discussion of the field procedures to be used during sampling of the various media being evaluated as part of the RI (i.e., soil, groundwater, and soil vapor). The locations are shown on Figure 6 of the RIWP and additional information including intervals to be sampled and sample rationale is provided in Tables 2a, 2b, and 2c of this FSP.

A geophysical survey will be performed in the northwestern section of the site to investigate for the presence of potential USTs associated with the historic auto service building. Each sample point location at the site will be accurately measured to fixed benchmarks (i.e., select properly lines, adjacent structures, etc.) or by a precision GPS that is capable of coordinating a fixed point within +/- 1 foot.

4.1 Soil Sampling and Monitoring Well Installation

A dedicated field book and/or field data sheets will be used to record soil lithology, well installation details, well development data, purge volumes, field instrument readings and any other noteworthy field conditions. Details for the collection of soil samples and the installation of monitoring wells are provided below. Boreholes will be pre-cleared using non-intrusive methods prior to advancement of soil borings and monitoring well pilot-boreholes to verify the absence of utilities. Should a utility be observed during pre-clearance activities, the sampling location will be relocated to no greater than 10 feet away from the original proposed location. Should the sampling location need to be located at a distance greater than 10 feet from the original proposed location due to access constraints, Roux Associates will contact the appropriate NYSDEC case manager to confirm and approve the deviations.

4.1.1 Soil Sampling

Soil sampling will be completed in compliance with DER-10 3.5.1 and 3.5.2. Soil borings will be advanced using a Geoprobe® truck or track-mounted direct-push drill rig. Samples of the soil profile will be collected in continuous four or five-foot increments using a 2-inch diameter macrocore sampler to a maximum depth of approximately 12 feet below land surface. If necessary, more advanced drilling technology will be used to complete the site investigation.

The soil from each four or five-foot interval will be observed for lithology and evidence of contamination (e.g., staining, odors, and/or visible free product) and each two-foot interval will be placed immediately thereafter into large Zip-loc™ bags for recording headspace using a PID. After a minimum of 15 minutes for equilibration with the headspace in the Zip-loc™ bag, each sample will be screened for organic vapors using a PID equipped with a 11.7 eV lamp. Samples for possible VOC analysis will be placed in a laboratory-supplied jar prior to screening, due to the potential for loss of VOCs through volatilization. Proposed soil samples will be collected according to Table 2a of this FSP and are shown on Figure 6 of the RIWP. These samples will be placed in the laboratory-supplied containers and shipped to the laboratory under chain of custody procedures in accordance with Roux Associates' standard operating procedures, provided in Attachment 1. Upon completion, each boring will be allowed to collapse. If the borehole does not collapse, drill cuttings will be used to backfill the borehole, except as prohibited in DER-10 (e.g., free product, grossly contaminated soil, etc.). If it is not possible to use drill cuttings for backfill, clean sand will be used. Surface completion will consist of asphalt in all locations.

Additional details regarding soil-sampling protocols are described in Roux Associates' Standard Operating Procedure for the Collection of Soil Samples for Laboratory Analysis, which is provided in Attachment 1.

4.1.2 Monitoring Well Installation

Following soil sampling activities described above, shallow monitoring wells will be installed at soil boring locations SB-101 through SB-105 (to be converted into monitoring wells MW-101 through MW-105, Figure 6 of the RIWP) bridging the water table to a depth of approximately 19 feet bls. Monitoring wells will be installed using the hollow stem auger drilling method and constructed of 2-inch inside diameter, Schedule 40 polyvinyl chloride (PVC) casing and, 0.020-inch slot machined screen. Well screens will be 15 feet long, and will be installed with five feet above and ten feet below the water table due to the potential for tidal influence, and may be adjusted based conditions observed in the field. A sand pack will be placed around the well screen, extending 2 feet above the top of the screened zone. Once the driller confirms the depth of the sand pack, a minimum 2-foot thick bentonite pellet seal will be placed above the sand pack. Once the pellets have been allowed to hydrate, a cement-bentonite grout will be pumped into the remaining annular space from the bottom up using a tremie pipe lowered to just above the

bentonite seal. The wells will be completed using locking well plugs, and flush mounted, bolt down, watertight, manhole covers cemented into place. Following installation, all site monitoring wells will be surveyed in order to construct groundwater contour maps.

4.2 Groundwater Sampling

Groundwater sampling will be completed in compliance with DER-10 3.7.2. Details for the collection of groundwater samples are provided below. Groundwater samples will be collected according to Table 2b of this FSP and Figure 6 of the RIWP.

Each monitoring well will be developed to remove any fine-grained material in the vicinity of the well screen and to promote hydraulic connection with the aquifer. The wells will be developed using a submersible pump, which will be surged periodically until well yield is consistent and has a turbidity below 50 Nephelometric turbidity units (NTUs).

Groundwater samples will be collected no sooner than one week following development of the wells. Prior to sampling, depth to water will be measured at each well using an electronic oil/water level meter with an accuracy of +/-0.01 feet. Groundwater gauging data will be used to determine groundwater elevation and the direction of groundwater flow, which is likely tidally influenced due to the proximity of the Site to the Harlem River. All wells will then be purged and sampled using a peristaltic pump or an alternative method, depending on the observed depth to groundwater and logistical issues. Purging and sampling will be performed consistent with USEPA Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, dated July 30, 1996 and revised January 19, 2010. Field parameters (i.e., pH, dissolved oxygen, ORP, etc., as described in the USEPA low-flow sampling requirements) will be collected using a water quality meter with flow-through cell until parameters stabilized before samples are collected. Samples will be analyzed for TCL + 30/TAL. Additional details for the collection of groundwater samples are included in the Roux Associates SOPs (Attachment 1).

All groundwater samples will be placed in the laboratory-supplied containers and shipped to the laboratory under chain of custody procedures in accordance with Roux Associates' SOPs.

4.3 Soil Vapor Sampling

Soil vapor sampling will be completed in compliance with DER-10 3.6(b). Soil vapor sampling point locations are shown in Table 2c of this FSP and Figure 6 of the RIWP. Nine soil vapor samples (SV-101 through SV-109) will be collected from temporary soil vapor points in locations at the Site boundaries from borings installed using a Geoprobe® to the target depth of 6 feet. New Teflon®-lined tubing will be attached to an expendable soil vapor sampling point with a 6-inch stainless steel screen inside the rods, to prevent infiltration of ambient air. The soil vapor points will be backfilled with #2 Morie sand to approximately one foot above the screen. The remainder of the borehole will be backfilled with a concrete/bentonite slurry to grade. The temporary soil vapor points will be allowed to sit for a minimum of 24 hours prior to sampling.

Prior to sample collection, the Teflon®-lined tubing will be purged of approximately two volumes of the tubing using a vacuum pump set at a rate of 0.2 liters per minute. As described in Section 2.7.5 of the NYSDOH Guidance, a tracer gas (i.e., helium) will be used to enrich the atmosphere in the immediate vicinity of each sampling location using a shroud in order to test the borehole seal and verify that ambient air is not being drawn into the sample. A portable helium detector (MGD-2000, or equivalent) will be used to determine the concentration of helium introduced to the shroud. A sample of the soil gas purged from the temporary vapor point will be measured to ensure that the helium concentration is less than 10% of the concentration within the shroud. Following purging and verification with the tracer gas, the tubing will be connected to the laboratory supplied 6-liter Summa canister. All soil vapor samples will be collected using pre-cleaned 6-liter Summa canisters with regulators calibrated to collect samples over a 2-hour period and analyzed for VOCs using USEPA Method TO-15.

5.0 SAMPLE HANDLING AND ANALYSIS

To ensure quality data acquisition and collection of representative samples, there are selective procedures to minimize sample degradation or contamination. These include procedures for preservation of the samples as well as sample packaging and shipping procedures.

5.1 Field Sample Handling

A detailed discussion of the number and types of samples to be collected during each task, as well as the analyses to be performed can be found in Section 3.0 of this FSP. The types of containers, volumes needed, and preservation techniques for the aforementioned testing parameters are presented in Table 3.

5.2 Sample Custody Documentation

The purpose of documenting sample custody is to confirm that the integrity and handling of the samples is not subject to question. Sample custody will be maintained from the point of sampling through the analysis. Specific procedures regarding sample tracking from the field to the laboratory are described in Roux Associates' SOP for Sample Handling (Attachment 1).

Each individual collecting samples is personally responsible for the care and custody of the samples. All sample labels will be pre-printed or filled out using waterproof ink. The technical staff will review all field activities with the Field Team Leader to determine whether proper custody procedures were followed during the fieldwork and to decide if additional samples are required.

All samples being shipped off-site for analysis must be accompanied by a properly completed chain of custody form (Attachment 2 or similar). The sample numbers will be listed on the chain of custody form. When transferring the possession of samples, individuals relinquishing and receiving will sign, date, and note the time on the record. This record documents transfer of custody of samples from the sampler to another person, to/from a secure storage area, and to the laboratory.

Samples will be packaged for laboratory pick up and/or shipment with a separate signed custody record enclosed in each sample box or cooler. Shipping containers will be locked and/or secured with strapping tape in at least two locations for shipment to the laboratory.

5.3 Sample Shipment

Laboratory courier services are the preferred method for sample transport on this project. However, in the event that samples are shipped to the laboratory the following procedures will apply. Sample packaging and shipping procedures are based upon USEPA specifications, as well as U.S. Department of Transportation (DOT) regulations. The procedures vary according to potential sample analytes, concentration, and matrix, and are designed to provide optimum protection for the samples and the public. Sample packaging and shipment must be performed using the general outline described below. Additional information regarding sample handling is provided in Roux Associates' SOP for Sample Handling (Attachment 1).

All samples will be shipped within 12 hours of collection (when possible) and will be preserved appropriately from the time of sample collection. A description of the sample packing and shipping procedures is presented below:

1. Prepare cooler(s) for shipment.
   - tape drain(s) of cooler shut
   - affix "this side up" arrow labels and "fragile" labels on each cooler
   - place mailing label with laboratory address on top of cooler(s)
2. Arrange sample containers in groups by sample number or analyte.
3. Ensure that all bottle labels are completed correctly. Place clear tape over bottle labels to prevent moisture accumulation from causing the label to peel off.
4. Arrange containers in front of assigned coolers.
5. Place packaging material at the bottom of the cooler to act as a cushion for the sample containers.
6. Arrange containers in the cooler so that they are not in contact with the cooler or other samples.
7. Fill remaining spaces with packaging material.
8. Ensure all containers are firmly packed with packaging material.

9. If ice is required to preserve the samples, ice cubes should be repackaged in double Zip-Loc™ bags, and placed on top of the packaging material.

10. Sign chain of custody form (or obtain signature) and indicate the time and date it was relinquished to Federal Express or other carrier, as appropriate.

11. Separate chain of custody forms. Seal proper copies within a large Zip-Loc™ bag and tape to cooler. Retain copies of all forms.

12. Close lid and latch.

13. Secure each cooler using custody seals.

14. Tape cooler shut on both ends.

15. Relinquish to Federal Express or other courier service as appropriate. Retain airbill receipt for project records. (Note: All samples will be shipped for "NEXT A.M." delivery).

16. Telephone laboratory contact and provide him/her with the following shipment information:
    - sampler's name
    - project name
    - number of samples sent according to matrix and concentration
    - airbill number

6.0 SITE CONTROL PROCEDURES

Site control procedures, including decontamination and waste handling and disposal, are discussed below.

6.1 Decontamination

In an attempt to avoid the spread of contamination, all drilling and sampling equipment must be decontaminated at a reasonable frequency in a properly designed and located decontamination area. Detailed procedures for the decontamination of field and sampling equipment are included in Roux Associates' SOPs for the Decontamination of Field Equipment, which is provided in Attachment 1. The location of the decontamination area will be determined prior to the start of field operations. The decontamination area will be constructed to ensure that all wash water generated during decontamination can be collected and containerized for proper disposal.

6.2 Waste Handling and Disposal

Per DER_10 Section 3.3(e)1, investigation derived soil cuttings may be disposed at the site within the borehole that generated them to within 24 inches of the surface unless:

- Free product or grossly contaminated soil, are present in the cuttings;
- The borehole will be used for the installation of a monitoring well (cuttings may only be used to backfill boreholes installed for soil sampling);
- The borehole has penetrated an aquitard, aquiclude or other confining layer; or extends significantly into bedrock;
- Backfilling the borehole with cuttings will create a significant path for vertical movement of contaminants. Soil additives (bentonite) may be added to the cuttings to reduce permeability; and
- The soil cannot fit into the borehole.

All waste materials (drill cuttings, purge water, decontamination water, etc.) generated during the RI will be consolidated, and stored in appropriate labeled bulk containers [55-gallon United Nations (UN)/Department of Transportation (DOT) approved steel drums, etc.], and temporarily staged at an investigation-derived-waste storage area onsite. Roux Associates will then coordinate waste characterization and disposal by appropriate means.

TABLES

1. Remedial Investigation Field and Quality Control Sampling Summary
2. a. Proposed Soil Sampling Locations
   b. Proposed Groundwater Sampling Locations
   c. Proposed Soil Vapor Sampling Locations
3. Preservation, Holding Times, and Sample Containers

Table 1. Remedial Investigation Field and Quality Control Sampling Summary

Sample Medium	Target Analytes	Field Samples	Replicates[1]	Trip Blanks[2]	Field Blanks[1]	Matrix Spikes[1]	Spike Duplicates[1]	Total No. of Samples
Soil	TCL VOCs	24	2	5	2	2	2	37
	TCL SVOCs	24	2	NA	2	2	2	32
	Pesticides	24	2	NA	2	2	2	32
	Herbicides	24	2	NA	2	2	2	32
	Total Cyanide	24	2	NA	2	2	2	32
	PCBs	24	2	NA	2	2	2	32
	TAL Metals	24	2	NA	2	2	2	32
	Hexavalent Chromium	24	2	NA	2	2	2	32
Groundwater	TCL VOCs +10	5	1	1	1	1	1	10
	TCL SVOCs +20	5	1	NA	1	1	1	9
	TCL Pesticides	5	1	NA	1	1	1	9
	Herbicides	5	1	NA	1	1	1	9
	Total Cyanide	5	1	NA	1	1	1	9
	PCBs	5	1	NA	1	1	1	9
	TAL Metals	5	1	NA	1	1	1	9
	Hexavalent Chromium	5	1	NA	1	1	1	9
Soil Vapor	TO-15 VOCs	9	0	NA	0	0	0	9

Totals are estimated based on scope of work as written, actual sample quantities may vary based on field conditions. QA/QC sample quantities will be adjusted accordingly.

[1] Based on 1 per 20 samples or 1 per Sample Delivery Group (3 days max)

[2] Based on 1 cooler per day, assuming 5 days of fieldwork

TCL - USEPA Contract Laboratory Program Target Compound List

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

PCBs - Polychlorinated Biphenyls

TAL - USEPA Contract Laboratory Program Target Analyte List

NA - Not Applicable

Table 2a. Proposed Soil Sampling Locations

Area of Concern (AOC)	Location	Matrix	Sample Depths*	Sample Parameters	Sampling Method**	Rationale
Monitoring Well Soil Borings						
	SB-101	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Delineate extent of VOC soil detections at AKRF location SB 1 - – analytes were detected in exceedance of the Residential Restricted SCOs
	SB-102	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Delineate deeper soils at AKRF location SB 7 [(9-11 feet bgs)groundwater encountered at 9.5 feet bgs] - SVOCs were detected in exceedance of the Residential Restricted SCOs
	SB-103	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Verify soil results from former service repair and sales shop (AKRF locations SB 3 and SB 4) - SVOCs were detected in exceedance of the Residential Restricted SCOs at location SB 3
	SB-104	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Collection of additional soil data in area of former auto wrecking yard
	SB-105	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Evaluate any potential soil impacts along northern property boundary; this area was not previously investigated
Site Wide Soil Characterization						
	SB-106	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Verify soil results from center of the west side of Site
	SB-107	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Evaluate any potential soil impacts along northern property boundary; this area was not previously investigated
	SB-108	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Delineate extent of SVOC detections at AKRF location SB 2 – analytes were detected in exceedance of the Residential Restricted SCOs
	SB-109	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Delineate deeper soils at AKRF location SB 7 [(9-11 feet bgs)groundwater encountered at 9.5 feet bgs] - SVOCs were detected in exceedance of the Residential Restricted SCOs
	SB-110	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Delineate extent of VOC detections at AKRF location SB 1 - analytes were detected in exceedance of the Residential Restricted SCOs
	SB-111	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Delineate extent of VOC detections at AKRF location SB 1 and SVOC detections at location SB 2 – analytes were detected in exceedance of the Residential Restricted SCOs
	SB-112	Soil	1.) 0-2 feet bls; 2.) 10-12 feet bls; and if encountered 3.) interval with elevated PID reading; and 4.) if native soil interval is encountered shallower than 10 feet bls	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Evaluate any potential soil impacts in the center of the east side of the Site; this area was not previously investigated

* Depths are in feet below land surface; Additional intervals may be added based on field observations
** Laboratory will report to their minimum possible standards for each method (QAPP Table 2-1)
TCL + 30/TAL - includes TCL VOCs + 10 TICs, TCL BNA (SVOCs) + 20 TICs, TCL Pest/Herb/PCBs, TAL Metals
TCL - USEPA Contract Laboratory Program Target Compound List
TAL - USEPA Contract Laboratory Program Target Analyte List
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
TICs - Tentatively Identified Compounds
TBD - To Be Determined
QA/QC samples will be collected as described in the QAPP (Appendix D)

Table 2b. Proposed Groundwater Sampling Locations

Area of Concern (AOC)	Monitoring Wells	Matrix	Sample Depth*	Sample Parameters	Sampling Method**	Rationale
Site-wide Groundwater	MW-101	Groundwater	± 8-18	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846	Verify groundwater grab VOC, SVOC and Metals exceedances detected at AKRF location GW-1
Site-wide Groundwater	MW-102	Groundwater	± 8-18	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846	Install downgradient monitoring well point for groundwater evaluation
Site-wide Groundwater	MW-103	Groundwater	± 8-18	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Install downgradient monitoring well point for groundwater evaluation to verify groundwater grab SVOC and Metals exceedances detected at AKRF location GW-2 and GW-3 in the area of the former service repair and sales shop
Site-wide Groundwater	MW-104	Groundwater	± 8-18	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846	Groundwater evaluation in area of former auto wrecking yard
Site-wide Groundwater	MW-105	Groundwater	± 8-18	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Install downgradient monitoring well point for groundwater evaluation

* Approxiamte water column, Feet below grade

** Laboratory will report to their minimum possible standards for each method (QAPP Table 2-2)

TCL + 30/TAL - includes TCL VOCs + 10 TICs, TCL BNA (SVOCs) + 20 TICs, TCL Pest/PCBs, TAL Metals, Hexavalent Chromium and Cyanide

TCL - USEPA Contract Laboratory Program Target Compound List

TAL - USEPA Contract Laboratory Program Target Analyte List

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

TICs - Tentatively Identified Compounds

PCBs - Polychlorinated Biphenyls

TBD - To Be Determined

QA/QC samples will be collected as described in the QAPP (Appendix D)

Table 2c. Proposed Soil Vapor Sampling Locations

Area of Concern (AOC)	Location	Matrix	Sample Depth*	Sample Parameters	Sampling Method**	Rationale
Soil Vapor Samples	SV-101	Soil Vapor	6	VOCs	TO-15	Delineate extent of VOC detections at AKRF location SV-1
Soil Vapor Samples	SV-102	Soil Vapor	6	VOCs	TO-15	Delineate extent of VOC detections at AKRF location SV-1
Soil Vapor Samples	SV-103	Soil Vapor	6	VOCs	TO-15	Collection of additional soil vapor data in area of the former service repair and sales shop
Soil Vapor Samples	SV-104	Soil Vapor	6	VOCs	TO-15	Collection of additional soil vapor data in area of former auto wrecking yard
Soil Vapor Samples	SV-105	Soil Vapor	6	VOCs	TO-15	Delineate extent of VOC detections at AKRF location SV-1
Soil Vapor Samples	SV-106	Soil Vapor	6	VOCs	TO-15	Evaluate any potential soil vapor impacts in the center of the west side of the Site; area not previously investigated
Soil Vapor Samples	SV-107	Soil Vapor	6	VOCs	TO-15	Evaluate any potential soil vapor impacts along northern property boundary; area not previously investigated
Soil Vapor Samples	SV-108	Soil Vapor	6	VOCs	TO-15	Verify soil vapor results from AKRF location SV-2
Soil Vapor Samples	SV-109	Soil Vapor	6	VOCs	TO-15	Evaluate any potential soil vapor impacts in the center of the site; area not previously investigated

* Feet below land surface, 1-2 feet above the groundwater interface

** Laboratory will report to their minimum possible standards for each method (QAPP Table 2)

VOCs - Volatile Organic Compounds

QA/QC samples will be collected as described in the QAPP (Appendix D)

Table 3. Preservation, Holding Times and Sample Containers

Analysis	Matrix	Bottle Type	Preservation(a)	Holding Time(b)
TAL Metals (total) SW-846 6010/7471	Soil Water	8 oz wide mouth glass, teflon lined cap 250 mL plastic, teflon lined cap	Cool to 4°C Nitric acid	180 days, Hg 28 days
Hexavalent Chromium SW-846 7196A	Soil Water	2 oz wide mouth glass, teflon lined cap 500 mL Plastic	None	180 days 24 hours from sample collection
Total Cyanide SW-846 9012B	Soil Water	4 oz wide mouth glass, teflon lined cap 250 mL Plastic	Cool to 4°C NaOH	14 days from sample collection 14 days from sample collection
TO-15	Air	6 liter Summa Canister	None	14 days from sample collection
Target Compound List (TCL)				
TCL Volatile Organic Compounds (VOCs) SW-846 8260B	Soil Water	2 oz wide mouth glass, teflon lined cap 40mL voa vial, teflon lined cap	Cool to 4°C Hydrochloric Acid	14 days from sample collection
TCL Semivolatile Organic Compounds (SVOCs) SW-846 8270C	Soil Water	8 oz wide mouth glass, teflon lined cap 1 liter amber glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis 7 days to extract, 40 days to analysis
TCL Pesticides SW-846 8081A	Soil Water	8 oz wide mouth glass, teflon lined cap 1 liter amber glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis 7 days to extract, 40 days to analysis
TCL Herbicides SW-846 8051A	Soil Water	8 oz wide mouth glass, teflon lined cap 1 liter amber glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis 7 days to extract, 40 days to analysis
TCL Polychlorinated biphenyls (PCBs) SW-846 8082	Soil Water	8 oz wide mouth glass, teflon lined cap 1 liter amber glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis 7 days to extract, 40 days to analysis

(a) All soil and groundwater samples to be preserved in ice during collection and transport

(b) Days from date of sample collection.

TAL - Target Analyte List

TCL - USEPA Contract Laboratory Program Target Compound List

ATTACHMENTS

1. Roux Associates' Standard Operating Procedure for Tasks Described in this Field Sampling Plan
2. Chain of Custody Form

ATTACHMENT 1

Roux Associates' Standard Operating Procedure for Tasks Described in this Field Sampling Plan

Date: May 5, 2000

1.0 PURPOSE

The purpose for this standard operating procedure (SOP) is to establish the guidelines for decontamination of all field equipment potentially exposed to contamination during drilling, and soil and water sampling. The objective of decontamination is to ensure that all drilling, and soil-sampling and water-sampling equipment is decontaminated (free of potential contaminants): 1) prior to being brought onsite to avoid the introduction of potential contaminants to the site; 2) between drilling and sampling events/activities onsite to eliminate the potential for cross-contamination between boreholes and/or wells; and 3) prior to the removal of equipment from the site to prevent the transportation of potentially contaminated equipment offsite.

In considering decontamination procedures, state and federal regulatory agency requirements must be considered because of potential variability between state and federal requirements and because of variability in the requirements of individual states. Decontamination procedures must be in compliance with state and/or federal protocols in order that regulatory agency(ies) scrutiny of the procedures and data collected do not result in non acceptance (invalidation) of the work undertaken and data collected.

2.0 PROCEDURE FOR DRILLING EQUIPMENT

The following is a minimum decontamination procedure for drilling equipment. Drilling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

2.1 The rig and all associated equipment should be properly decontaminated by the contractor before arriving at the test site.

2.2 The augers, drilling casings, rods, samplers, tools, rig, and any piece of equipment that can come in contact (directly or indirectly) with the soil, will be steam cleaned onsite prior to set up for drilling to ensure proper decontamination.

2.3 The same steam cleaning procedures will be followed between boreholes (at a fixed on-site location[s], if appropriate) and before leaving the site at the end of the study.

2.4 All on-site steam cleaning (decontamination) activities will be monitored and documented by a member(s) of the staff of Roux Associates, Inc.

2.5 If drilling activities are conducted in the presence of thick, sticky oils (e.g., PCBs) which coat drilling equipment, then special decontamination procedures may have to be utilized before steam cleaning (e.g., hexane scrub and wash).

2.6 Containment of decontamination fluids may be necessary (e.g., rinseate from steam cleaning) or will be required (e.g., hexane), and disposal must be in accordance with state and/or federal procedures.

3.0 PROCEDURE FOR SOIL-SAMPLING EQUIPMENT

The following is a minimum decontamination procedure for soil-sampling equipment (e.g., split spoons, stainless-steel spatulas). Soil-sampling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

3.1 Wear disposable gloves while cleaning equipment to avoid cross-contamination and change gloves as needed.

3.2 Steam clean the sampler or rinse with potable water. If soil-sampling activities are conducted in the presence of thick, sticky oils (e.g., PCBs) which coat sampling equipment, then special decontamination procedures may have to be utilized before steam cleaning and washing in detergent solution (e.g., hexane scrub and wash).

3.3 Prepare a non-phosphate, laboratory-grade detergent solution and distilled or potable water in a clean bucket.

3.4 Disassemble the sampler, as necessary and immerse all parts and other sampling equipment in the solution.

3.5 Scrub all equipment in the bucket with a brush to remove any adhering particles.

3.6 Rinse all equipment with copious amounts of potable water followed by distilled or deionized water.

3.7 Place clean equipment on a clean plastic sheet (e.g., polyethylene)

3.8 Reassemble the cleaned sampler, as necessary.

3.9 Transfer the sampler to the driller (or helper) making sure that this individual is also wearing clean gloves, or wrap the equipment with a suitable material (e.g., plastic bag, aluminum foil.

As part of the decontamination procedure for soil-sampling equipment, state and/or federal protocols must be considered. These may require procedures above those specified as minimum for Roux Associates, Inc., such as the use of nitric acid, acetone, etc. Furthermore, the containment and proper disposal of decontamination fluids must be considered with respect to regulatory agency(ies) requirements.

4.0 PROCEDURE FOR WATER-SAMPLING EQUIPMENT

The following is a decontamination procedure for water-sampling equipment (e.g., bailers, pumps). Water-sampling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

4.1 Decontamination procedures for bailers follow:

a. Wear disposable gloves while cleaning bailer to avoid cross-contamination and change gloves as needed.

b. Prepare a non-phosphate, laboratory-grade detergent solution and potable water in a bucket.

c. Disassemble bailer (if applicable) and discard cord in an appropriate manner, and scrub each part of the bailer with a brush and solution.

d. Rinse with potable water and reassemble bailer.

e. Rinse with copious amounts of distilled or deionized water.

f. Air dry.

g. Wrap equipment with a suitable material (e.g., clean plastic bag, aluminum foil).

h. Rinse bailer at least three times with distilled or deionized water before use.

4.2 Decontamination procedures for pumps follow:

a. Wear disposable gloves while cleaning pump to avoid cross-contamination and change gloves as needed.

b. Prepare a non-phosphate, laboratory-grade detergent solution and potable water in a clean bucket, clean garbage can, or clean 55-gallon drum.

c. Flush the pump and discharge hose (if not disposable) with the detergent solution, and discard disposable tubing and/or cord in an appropriate manner.

d. Flush the pump and discharge hose (if not disposable) with potable water.

e. Place the pump on clear plastic sheeting.

f. Wipe any pump-related equipment (e.g., electrical lines, cables, discharge hose) that entered the well with a clean cloth and detergent solution, and rinse or wipe with a clean cloth and potable water.

g. Air dry.

h. Wrap equipment with a suitable material (e.g., clean plastic bag).

As part of the decontamination procedure for water-sampling equipment, state and/or federal protocols must be considered. These may require procedures above those specified as minimum for Roux Associates, Inc., such as the use of nitric acid, acetone, etc. Furthermore, the containment and proper disposal of decontamination fluids must be considered with respect to regulatory agency(ies) requirements.

Date: May 5, 2000

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to establish guidelines for the collection of soil samples for laboratory analysis. This SOP is applicable to soil samples collected from split-spoon samplers during drilling, hand auger samples, grab samples from stockpiled soils, surface samples, test pit samples, etc.

2.0 CONSIDERATIONS

Soil samples may be collected in either a random or biased manner. Random samples can be based on a grid system or statistical methodology. Biased samples can be collected in areas of visible impact or suspected source areas. Soil samples can be collected at the surface, shallow subsurface, or at depth. When samples are collected at depth the water content should be noted, since generally "soil sampling" is restricted to the unsaturated zone. Equipment selection will be determined by the depth of the sample to be collected. A thorough description of the sampling locations and proposed methods of sample collection should be included in the work plan.

Commonly, surface sampling refers to the collection of samples at a 0 to 6 inch depth interval. Certain regulatory agencies may define the depth interval of a surface sample differently, and this must be defined in the work plan. Collection of surface soil samples is most efficiently accomplished with the use of a stainless steel trowel or scoop. For samples at greater depths a decontaminated bucket auger or power auger may be needed to advance the hole to the point of sample collection. Another clean bucket auger should then be used to collect the sample. To collect samples at depths of greater than approximately six feet the use of a drill rig and split spoon samples will usually be necessary. In some situations, sample locations are accessed with the use of a backhoe.

3.0 MATERIALS/EQUIPMENT

a. A work plan which outlines soil sampling requirements.

b. Field notebook, field form(s), maps, chain-of-custody forms, and custody seals.

c. Decontamination supplies (including: non-phosphate, laboratory grade detergent, buckets, brushes, potable water, distilled water, regulatory-required reagents, aluminum foil, plastic sheeting, etc.).

d. Sampling device (split-spoon sampler, stainless steel hand auger, stainless steel trowel, etc.).

e. Stainless steel spoons or spatulas.

f. Disposable sampling gloves.

g. Laboratory-supplied sample containers with labels.

h. Cooler with blue or wet ice.

i. Plastic sheeting.

j. Black pen and indelible marker.

k. Zip-lock bags and packing material.

l. Tape measure.

m. Paper towels or clean rags.

n. Masking and packing tape.

o. Overnight (express) mail forms.

4.0 DECONTAMINATION

All reusable sampling equipment will be thoroughly cleaned according to the decontamination SOP. Where possible, thoroughly pre-cleaned and wrapped sampling equipment should be used and dedicated to individual sampling locations. Disposable items such as sampling gloves, aluminum foil, and plastic sheeting will be changed after each use and discarded in an appropriate manner.

5.0 PROCEDURE

5.1 Prior to collecting soil samples, ensure that all sampling equipment has been thoroughly cleaned according to the decontamination SOP. If samples are to be collected at depth, then the boring must be advanced with thoroughly cleaned equipment to the desired sampling horizon and a different thoroughly cleaned sampler must be used to collect the sample.

5.2 Using disposable gloves and a pre-cleaned, stainless steel spatula or spoon, extract the soil sample from the sampler, measure the recovery, and separate the wash from the true sample. Where allowed by regulatory agency(ies), disposable plastic spoons may be used.

5.3 Place the sample in a laboratory-supplied, pre-cleaned sample container. This should be done as quickly as possible and this is especially important when sampling for volatile organic compounds (VOCs). Samples to be analyzed for VOCs must be collected prior to other constituents.

5.4 The sample container will be labeled with appropriate information such as, client name, site location, sample identification (location, depth, etc.), date and time of collection, and sampler's initials.

5.5 Using the remaining portion of soil from the sampler, log the sample in detail and record sediment characteristics (color, odor, moisture, texture, density, consistency, organic content, layering, grain size, etc.).

5.6 If soil samples are to be composited in the field, then equal portions from selected locations will be placed on a clean plastic sheet and homogenized. Alternately, several samples may be submitted to the laboratory for compositing by weight. The method used is dependent upon regulatory requirements. Specific compositing procedures shall be approved by the appropriate regulatory agency and described in the work plan. Samples to be analyzed for VOCs will not be composited unless required by a regulatory agency.

5.7 After the sample has been collected, labeled, and logged in detail, it is placed in a zip-lock bag and stored in a cooler at 4°C.

5.8 A chain-of-custody form is completed for all samples collected. One copy is retained and two are sent with the samples in a zip-lock bag to the laboratory. A custody seal is placed on the cooler prior to shipment.

5.9 Samples collected from Monday to Friday are to be delivered to the laboratory within 24 hours of collection. If Saturday delivery is unavailable, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if any analytes require a shorter delivery time.

5.10 The field notebook and appropriate forms should include, but not be limited to the following: client name, site location, sample location, sample depth, sample identification, date and time collected, sampler's name, method of sample collection, number and type of containers, geologic description of material, description of decontamination procedures, etc. A site map should be prepared with exact measurements to each sample location in case follow-up sampling is necessary.

5.11 All reusable sampling equipment must be thoroughly cleaned in accordance with the decontamination SOP. Following the final decontamination (after all samples are collected) the sampling equipment is wrapped in aluminum foil. Discard any gloves, foil, plastic, etc. in an appropriate manner that is consistent with site conditions.

END OF PROCEDURE

Date: May 5, 2000

1.0 PURPOSE

The purpose of this standard operating procedure (SOP) is to establish guidelines for sample handling which will allow consistent and accurate results. Valid chemistry data are integral to investigations that characterize media-quality conditions. Thus, this SOP is designed to ensure that once samples are collected, they are preserved, packed and delivered in a manner which will maintain sample integrity to as great an extent as possible. The procedures outlined are applicable to most sampling events and any required modifications must be clearly described in the work plan.

2.0 CONSIDERATIONS

Sample containers, sampling equipment decontamination, quality assurance/quality control (QA/QC), sample preservation, and sample handling are all components of this SOP.

2.1 Sample Containers

Prior to collection of a sample, considerations must be given to the type of container that will be used to store and transport the sample. The type and number of containers selected is usually based on factors such as sample matrix, potential contaminants to be encountered, analytical methods requested, and the laboratory's internal quality assurance requirements. In most cases, the overriding considerations will be the analytical methodology, or the state or federal regulatory requirements because these regulations generally encompass the other factors. The sample container selected is usually based on some combination of the following criteria:

a. Reactivity of Container Material with Sample

Choosing the proper composition of sample containers will help to ensure that the chemical and physical integrity of the sample is maintained. For sampling potentially hazardous material, glass is the recommended container type because it is chemically inert to most substances. Plastic containers are not recommended for most hazardous wastes because the potential exists for contaminants to adsorb to the surface of the plastic or for the plasticizer to leach into the sample.

In some instances, however, the sample characteristics or analytes of interest may dictate that plastic containers be used instead of glass. Because some metals species will adhere to the sides of the glass containers in an aqueous matrix, plastic bottles (e.g., nalgene) must be used for samples collected for metals analysis. A separate, plastic container should accompany glass containers if metals analysis is to be performed along with other analyses. Likewise, other sample characteristics may dictate that glass cannot be used. For example, in the

case of a strong alkali waste or hydrofluoric solution, plastic containers may be more suitable because glass containers may be etched by these compounds and create adsorptive sites on the container's surface.

b. Volume of the Container

The volume of sample to be collected will be dictated by the analysis being performed and the sample matrix. The laboratory must supply bottles of sufficient volume to perform the required analysis. In most cases, the methodology dictates the volume of sample material required to complete the analysis. However, individual laboratories may provide larger volume containers for various analytes to ensure sufficient quantities for duplicates or other QC checks.

To facilitate transfer of the sample from the sampler into the container and to minimize spillage and sample disturbance, wide-mouth containers are recommended. Aqueous volatile organic samples must be placed into 40-milliliter (ml) glass vials with polytetrafluoroethylene (PTFE) (e.g., TeflonTM) septums. Non-aqueous volatile organic samples should be collected in the same type of vials or in 4-ounce (oz) wide-mouth jars provided by the laboratory. These jars should have PTFE-lined screw caps.

c. Color of Container

Whenever possible, amber glass containers should be used to prevent photodegradation of the sample, except when samples are being collected for metals analysis. If amber containers are not available, then containers holding samples should be protected from light (i.e., place in cooler with ice immediately after filling).

d. Container Closures

Container closures must screw on and off the containers and form a leak-proof seal. Container caps must not be removed until the container is ready to be filled with the sample, and the container cap must be replaced (securely) immediately after filling it. Closures should be constructed of a material which is inert with respect to the sampled material, such as PTFE (e.g., TeflonTM). Alternately, the closure may be separated from the sample by a closure liner that is inert to the sample material such as PTFE sheeting. If soil or sediment samples are being collected, the threads of the container must be wiped clean with a dedicated paper towel or cloth so the cap can be threaded properly.

e. Decontamination of Sample Containers

Sample containers must be laboratory cleaned by the laboratory performing the analysis. The cleaning procedure is dictated by the specific analysis to be performed on the sample. Sample containers must

be carefully examined to ensure that all containers appear clean. Do not mistake the preservative as unwanted residue. The bottles should not be field cleaned. If there is any question regarding the integrity of the bottle, then the laboratory must be contacted immediately and the bottle(s) replaced.

f. Sample Bottle Storage and Transport

No matter where the sample bottles are, whether at the laboratory waiting to be packed for shipment or in the field waiting to be filled with sample, care must be taken to avoid contamination. Sample shuttles or coolers, and sample bottles must be stored and transported in clean environments. Sample bottles and clean sampling equipment must never be stored near solvents, gasoline, or other equipment that is a potential source of cross-contamination. When under chain of custody, sample bottles must be secured in locked vehicles, and custody sealed in shuttles or in the presence of authorized personnel. Information which documents that proper storage and transport procedures have been followed must be included in the field notebook and on appropriate field forms.

2.2 Decontamination of Sampling Equipment

Proper decontamination of all re-usable sampling equipment is critical for all sampling episodes. The SOP for Decontamination of Field Equipment and SOPs for method-specific or instrument-specific tasks must also be referred to for guidance for decontamination of various types of equipment.

2.3 Quality Assurance/Quality Control Samples

QA/QC samples are intended to provide control over the proper collection and tracking of environmental measurements, and subsequent review, interpretation and validation of generated analytical data. The SOPs for Collection of Quality Control Samples, for Evaluation and Validation of Data, and for Field Record Keeping and Quality Assurance/Quality Control must be referred to for detailed guidance regarding these respective procedures. SOPs for method-specific or instrument-specific tasks must also be referred to for guidance for QA/QC procedures.

2.4 Sample Preservation Requirements

Certain analytical methodologies for specific analytes require chemical additives in order to stabilize and maintain sample integrity. Generally, this is accomplished under the following two scenarios:

a. Sample bottles are preserved at the laboratory prior to shipment into the field.

b. Preservatives are added in the field immediately after the samples are collected.

Many laboratories provide pre-preserved bottles as a matter of convenience and to help ensure that samples will be preserved immediately upon collection. A problem associated with this method arises if not enough sample could be collected, resulting in too much preservative in the sample. More commonly encountered problems with this method include the possibility of insufficient preservative provided to achieve the desired pH level or the need for additional preservation due to chemical reactions caused by the addition of sample liquids to pre-preserved bottles. The use of pre-preserved bottles is acceptable; however, field sampling teams must always be prepared to add additional preservatives to samples if the aforementioned situations occur. Furthermore, care must be exercised not to overfill sample bottles containing preservatives to prevent the sample and preservative from spilling and therefore diluting the preservative (i.e., not having enough preservative for the volume of sample).

When samples are preserved after collection, special care must be taken. The transportation and handling of concentrated acids in the field requires additional preparation and adherence to appropriate preservation procedures. All preservation acids used in the field should be trace-metal or higher-grade.

2.5 Sample Handling

After the proper sample bottles have been received under chain-of-custody, properly decontaminated equipment has been used to collect the sample, and appropriate preservatives have been added to maintain sample integrity, the final step for the field personnel is checking the sample bottles prior to proper packing and delivery of the samples to the laboratory.

All samples should be organized and the labels checked for accuracy. The caps should be checked for tightness and any 40-ml volatile organic compound (VOC) bottles must be checked for bubbles. Each sample bottle must be placed in an individual "zip-lock" bag to protect the label, and placed on ice. The bottles must be carefully packed to prevent breakage during transport. When several bottles have been collected for an individual sample, they should not be placed adjacent to each other in the cooler to prevent possible breakage of all bottles for a given sample. If there are any samples which are known or suspected to be highly contaminated, these should be placed in an individual cooler under separate chain-of-custody to prevent possible cross contamination. Sufficient ice (wet or blue packs) should be placed in the cooler to maintain the temperature at 4 degrees Celsius (°C) until delivery at the laboratory. Consult the work plan to determine if a particular ice is specified as the preservation for transportation (e.g., the United States Environmental Protection Agency does not like the use of blue packs because they claim that the samples will not hold at 4°C). If additional coolers are required, then they should be purchased. The chain-of-custody form should be properly completed, placed in a "zip-lock" bag, and placed in the cooler. One copy must be maintained for the project files. The cooler should be sealed with packing tape and a custody seal. The custody seal number should be

noted in the field book. Samples collected from Monday through Friday will be delivered to the laboratory within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if certain analytes require a shorter delivery time. If overnight mail is utilized, then the shipping bill must be maintained for the files and the laboratory must be called the following day to confirm receipt.

3.0 EQUIPMENT AND MATERIALS

3.1 General equipment and materials may include, but not necessarily be limited to, the following:

a. Sample bottles of proper size and type with labels.

b. Cooler with ice (wet or blue pack).

c. Field notebook, appropriate field form(s), chain-of-custody form(s), custody seals.

d. Black pen and indelible marker.

e. Packing tape, "bubble wrap," and "zip-lock" bags.

f. Overnight (express) mail forms and laboratory address.

g. Health and safety plan (HASP).

h. Work plan/scope of work.

i. Pertinent SOPs for specified tasks and their respective equipment and materials.

3.2 Preservatives for specific samples/analytes as specified by the laboratory. Preservatives must be stored in secure, spillproof glass containers with their content, concentration, and date of preparation and expiration clearly labeled.

3.3 Miscellaneous equipment and materials including, but not necessarily limited to, the following:

a. Graduated pipettes.

b. Pipette bulbs.

c. Litmus paper.

d. Glass stirring rods.

e. Protective goggles.

f. Disposable gloves.

g. Lab apron.

h. First aid kit.

i. Portable eye wash station.

j. Water supply for immediate flushing of spillage, if appropriate.

k. Shovel and container for immediate containerization of spillage-impacted soils, if appropriate.

4.0 PROCEDURE

4.1 Examine all bottles and verify that they are clean and of the proper type, number, and volume for the sampling to be conducted.

4.2 Label bottles carefully and clearly with project name and number, site location, sample identification, date, time, and the sampler's initials using an indelible marker.

4.3 Collect samples in the proper manner (refer to specific sampling SOPs).

4.4 Conduct preservation activities as required after each sample has been collected. Field preservation must be done immediately and must not be done later than 30 minutes after sample collection.

4.5 Conduct QC sampling, as required.

4.6 Seal each container carefully and place in an individual "zip lock" bag.

4.7 Organize and carefully pack all samples in the cooler immediately after collection (e.g., bubble wrap). Insulate samples so that breakage will not occur.

4.8 Complete and place the chain-of-custody form in the cooler after all samples have been collected. Maintain one copy for the project file. If the cooler is to be transferred several times prior to shipment or delivery to the laboratory, it may be easier to tape the chain-of-custody to the exterior of the sealed cooler. When exceptionally hazardous samples are known or suspected to be present, this should be identified on the chain-of-custody as a courtesy to the laboratory personnel.

4.9 Add additional ice as necessary to ensure that it will last until receipt by the laboratory.

4.10 Seal the cooler with packing tape and a custody seal. Record the number of the custody seal in the field notebook and on the field form. If there are any

exceptionally hazardous samples, then shipping regulations should be examined to ensure that the sample containers and coolers are in compliance and properly labeled.

4.11 Samples collected from Monday through Friday will be delivered to the laboratory within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if certain analytes require a shorter delivery time.

4.12 Maintain the shipping bill for the project files if overnight mail is utilized and call the laboratory the following day to confirm receipt.

END OF PROCEDURE

Date: May 5, 2000

1.0 PURPOSE

The purpose of this standard operating procedure (SOP) is to establish guidelines for the sampling of groundwater monitoring wells for dissolved constituents. As part of the SOP for the sampling of groundwater monitoring wells, sample collection equipment and devices must be considered, and equipment decontamination and pre-sampling procedures (e.g., measuring water levels, sounding wells, and purging wells) must be implemented. Sampling objectives must be firmly established in the work plan before considering the above.

Valid water-chemistry data are integral to a hydrogeologic investigation that characterizes groundwater quality conditions. Water-quality data are used to evaluate both current and historic aquifer chemistry conditions, as well as to estimate future conditions (e.g., trends, migration pathways). Water-quality data can be used to construct groundwater quality maps to illustrate chemical conditions within the flow system, to generate water-quality plots to depict conditions with time and trends, and to perform statistical analyses to quantify data variability, trends, and cleanup levels.

2.0 EQUIPMENT AND MATERIALS

2.1 In order to sample groundwater from monitoring wells, specific equipment and materials are required. The equipment and materials list may include, but not necessarily be limited to, the following:

a. Bailers (Teflon™ or stainless steel).

b. Pumps (centrifugal, peristaltic, bladder, electric submersible, bilge, hand-operated diaphragm, etc.).

c. Gas-displacement device(s).

d. Air-lift device(s).

e. Teflon™ tape, electrical tape.

f. Appropriate discharge hose.

g. Appropriate discharge tubing (e.g., polypropylene, teflon, etc.) if using a peristaltic pump.

h. Appropriate compressed gas if using bladder-type or gas-displacement device.

i. Portable generator and gasoline or alternate power supply if using an electric submersible pump.

j. Non-absorbent cord (e.g., polypropylene, etc.).

k. Plastic sheeting.

l. Tape measure (stainless steel, steel, fiberglass) with 0.01-foot measurement increments and chalk (blue carpenter's).

m. Electronic water-level indicators (e.g., m-scope, etc.) or electric water-level/product level indicators.

n. Non-phosphate, laboratory-grade detergent.

o. Distilled/Deionized water.

p. Potable water.

q. Paper towels, clean rags.

r. Roux Associates' field forms (e.g., daily log, well inspection checklist, sampling, etc.) and field notebook.

s. Well location and site map.

t. Well keys.

u. Stop watch, digital watch with second increments, or watch with a second hand.

v. Water Well Handbook.

w. Calculator.

x. Black pen and water-proof marker.

y. Tools (e.g., pipe wrenches, screwdrivers, hammer, pliers, flashlight, pen knife, etc.).

z. Appropriate health and safety equipment, as specified in the site health and safety plan (HASP).

aa. pH meter(s) and buffers.

bb. Conductivity meter(s) and standards.

cc. Thermometer(s).

dd. Extra batteries (meters, thermometers, flashlight).

ee. Filtration apparatus, filters, pre-filters.

ff. Plasticware (e.g., premeasured buckets, beakers, flasks, funnels).

gg. Disposable gloves.

hh. Water jugs.

ii. Laboratory-supplied sample containers with labels.

jj. Cooler(s).

kk. Ice (wet, blue packs).

ll. Masking, duct, and packing tape.

mm. Chain-of-custody form(s) and custody seal(s).

nn. Site sampling and analysis plan (SAP).

oo. Site health and safety plan (HASP).

pp. Packing material (e.g., bubble wrap)

qq. "Zip-lock" plastic bags.

rr. Overnight (express) mail forms.

3.0 DECONTAMINATION

3.1 Make sure all equipment is decontaminated and cleaned before use (refer to the SOP for Decontamination of Field Equipment for detailed decontamination methods, summaries for bailers and pumps are provided below). Use new, clean materials when decontamination is not appropriate (e.g., non-absorbent cord, disposable gloves). Document, and initial and date the decontamination procedures on the appropriate field form and in the field notebook.

a. Decontaminate a bailer by: 1) wearing disposable gloves, 2) disassembling (if appropriate) and scrubbing in a non-phosphate, laboratory-grade detergent and distilled/deionized water solution, and 3) rinsing first with potable water and then distilled/deionized water.

b. Decontaminate a pump by: 1) wearing disposable gloves, 2) flushing the pump and discharge hose (if not disposable) first with a non-phosphate, laboratory-grade detergent and potable water solution in an appropriate container (clean bucket, garbage can, or 55-gallon drum) and then with distilled/deionized water or potable water, and 3) wiping pump-related equipment (e.g., electrical lines, cables, discharge hose) first with a clean

cloth and detergent solution and then rinsing or wiping with a clean cloth and distilled/deionized water or potable water.

3.2 Note that the decontamination procedures for bailers and pumps are the minimum that must be performed. Check the work plan to determine if chemicals specified by individual state regulatory agencies must also be used for decontamination procedures (e.g., hexane, nitric acid, acetone, isopropanol, etc.).

4.0 CALIBRATION OF FIELD ANALYSIS EQUIPMENT

Calibrate field analysis equipment before use (e.g., thermometers, pH and conductivity meters, etc.). Refer to the specific SOP for field analysis for each respective piece of equipment. Document, and initial and date the calibration procedures on the appropriate field form, in the field notebook, and in the calibration log book.

5.0 PROCEDURE

5.1 Document, and initial and date well identification, pre-sampling information, and problems encountered on the appropriate field form and in the field notebook as needed.

5.2 Inspect the protective casing of the well and the well casing, and note any items of concern such as a missing lock, or bent or damaged casing(s).

5.3 Place plastic sheeting around the well to protect sampling equipment from potential cross contamination.

5.4 Remove the well cap or plug and, if necessary, clean the top of the well off with a clean rag. Place the cap or plug on the plastic sheeting. If the well is not vented, allow several minutes for the water level in the well to equilibrate. If fumes or gases are present, then diagnose these with the proper safety equipment. Never inhale the vapors.

5.5 Measure the depth to water (DTW) from the measuring point (MP) on the well using a steel tape and chalk or an electronic sounding device (m-scope). Refer to the specific SOPs for details regarding the use of a steel tape or a m-scope for measuring water levels. Calculate the water-level elevation. Document, and initial and date the information on the appropriate field form and in the field notebook.

5.6 Measuring the total depth of the well from the MP with a weighted steel tape. Calculate and record the volume of standing water in the well casing on the appropriate field form and in the field notebook.

5.7 Decontaminate the equipment used to measure the water level and sound the well with a non-phosphate, laboratory-grade detergent solution followed by a distilled/deionized water rinse.

5.8 Purge the well prior to sampling (refer to the SOP for Purging a Well). The well should be pumped or bailed to remove the volume of water specified in the work plan. Usually three to five casing volumes are removed if the recharge rate is adequate to accomplish this within a reasonable amount of time.

If the formation cannot produce enough water to sustain purging, then one of two options must be followed. These include: 1) pumping or bailing the well dry, or 2) pumping or bailing the well to "near-dry" conditions (i.e., leaving some water in the well). The option employed must be specified in the work plan and be in accordance with regulatory requirements.

If the well is purged dry, then all the standing water has been removed and upon recovery the well is ready for sampling. However, depending on the rate of recovery and the time needed to complete the sampling round, one of the following procedures may have to be implemented: 1) the well may have to be sampled over a period of more than one day; 2) the well may not yield enough water to collect a complete suite of samples and only select (most important) samples will be collected; or 3) the well may not recover which will preclude sampling. Regardless of the option that must be followed, the sampling procedure must be fully documented. When preparing to conduct a sampling round, review drilling, development and previous sampling information (if available) to identify low-yielding wells in order to purge them first, and potentially allow time for the well to recover for sampling.

5.9 Record the physical appearance of the water (i.e., color, turbidity, odor, etc.) on the appropriate field form and in the field notebook, as it is purged. Note any changes that occur during purging.

5.10 If a bailer is used to collect the sample, then:

a. Flush the decontaminated bailer three times with distilled/deionized water.

b. Tie the non-absorbent cord (polypropylene) to the bailer with a secure knot, and then tie the free end of the bailer cord to the protective casing or, if possible, some nearby structure to prevent losing the bailer and cord down the well.

c. Lower the bailer slowly down the well and into the water column to minimize disturbance of the water surface. If a bottom-filling bailer is used, then do not submerge the top of the bailer; however, if a top-filling bailer is used, then submerge the bailer several feet below the water surface.

d. Remove and properly discard one bailer volume from the well to rinse the bailer with well water before sampling. Again, lower the bailer slowly down the well to the appropriate depth depending on the bailer type (as discussed above in 5.11 c). When removing the bailer from the well, do not allow the bailer cord to rest on the ground but coil it on the protective

plastic sheeting placed around the well. Certain regulatory agencies require that the first bailer volume collected be utilized for the samples.

5.11 If a pump is used to collect the sample, then use the same pump used to purge the well and, if need be, reduce the discharge rate to facilitate filling sample containers and to avoid problems that can occur while filling sample containers (as listed in Number 5.14, below). Alternately, the purge pump may be removed and a thoroughly decontaminated bailer can be used to collect the sample.

5.12 Remove each appropriate container's cap only when ready to fill each with the water sample, and then replace and secure the cap immediately.

5.13 Fill each appropriate, pre-labeled sample container carefully and cautiously to prevent: 1) agitating or creating turbulence; 2) breaking the container; 3) entry of, or contact with, any other medium; and 4) spilling/splashing the sample and exposing the sampling team to contaminated water. Immediately place the filled sample container in a ice-filled (wet ice or blue pack) cooler for storage. If wet ice is used it is recommended that it be repackaged in zip-lock bags to help keep the cooler dry and the sample labels secure. Check the work plan as to whether wet ice or blue packs are specified for cooling the samples because certain regulatory agencies may specify the use of one and not the other.

5.14 "Top-off" containers for volatile organic compounds (VOCs) and tightly seal with Teflon™-lined septums held in place by open-top screw caps to prevent volatilization. Ensure that there are no bubbles by turning the container upside down and tapping it gently.

5.15 Filter water samples (Procedure 4.6) collected for dissolved metals analysis prior to preservation to remove the suspended sediment from the sample. If water samples are to be collected for total metals analysis, then collect a second set of samples without field filtering.

In the event that the regulatory agency(ies) want unfiltered samples for metals analysis, a second set of filtered samples should also be collected. Because unfiltered samples are indications of total metals (dissolved and suspended) they are not representative of aquifer conditions because groundwater does not transport sediment (except in some rare cases). Thus, the results for dissolved metals in groundwater should be based on filtered samples even if both filtered and unfiltered sets are presented in a report.

5.16 Add any necessary preservative(s) to the appropriate container(s) prior to, or after (preferred), the collection of the sample, unless the appropriate preservative(s) have already been added by the laboratory before shipment.

5.17 Collect quality control (QC) samples as required in the work plan to monitor sampling and laboratory performance. Refer to the SOP for Collection of Quality Control Samples.

5.18 Conduct field analyses after sample collection is complete by measuring and recording the temperature, conductivity, pH, etc. (as called for in the work plan). Note and record the "final" physical appearance of the water (after purging and sampling) on an appropriate field form and in the field notebook.

5.19 Wipe the well cap with a clean rag, replace the well cap and protective cover (if present). Lock the protective cover.

5.20 Verify that each sample is placed in an individual "zip-lock" bag, wrapped with "bubble wrap," placed in the cooler, and that the cooler has sufficient ice (wet ice or blue packs) to preserve the samples for transportation to the analytical laboratory.

5.21 Decontaminate bailers, hoses, and pumps as discussed in the decontamination SOP. Wrap decontaminated equipment with a suitable material (e.g., clean plastic bag or aluminum foil). Discard cords, rags, gloves, etc. in a manner consistent with site conditions.

5.22 Complete all necessary field forms, field notebook entries, and the chain-of-custody forms. Retain one copy of each chain-of-custody form. Secure the cooler with sufficient packing tape and a custody seal.

5.23 Samples collected from Monday through Friday will be delivered within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Consult the work plan to determine if any of the analytes require a shorter delivery time.

END OF PROCUDURE

ATTACHMENT 2

Chain of Custody Form

ROUX CHAIN OF CUSTODY

№ 11332 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
209 SHAFTER STREET
ISLANDIA, NEW YORK 11749-5074
(631) 232-2600 FAX: (631) 232-9898

ANALYSES

PAGE OF

PROJECT NAME | PROJECT NUMBER

PROJECT LOCATION

PROJECT MANAGER | SAMPLER(S)

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED		SAMPLE MATRIX						TOTAL BOTTLES	NOTES

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

ANALYTICAL LABORATORY

COMMENTS

CHAINOF CDR 12AUG98

APPENDIX D

Quality Assurance Project Plan

May 22, 2017

QUALITY ASSURANCE PROJECT PLAN

207th St/9th Ave
NYSDEC BCP Site No. C231102
3875 9th Avenue
New York, New York 10034

Prepared for

J.207 ST. LLC and MFC REALTY CORP.
15 Verbena Avenue, 2nd Floor
Floral Park, New York 11001

ROUX ASSOCIATES, INC.

Environmental Consulting & Management

ROUX

209 Shafter Street, Islandia, New York 11749 ♦ 631-232-2600

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 BACKGROUND, OBJECTIVES, AND SCOPE 2
2.1 Soil 2
2.2 Groundwater 2
2.3 Soil Vapor Samples 3
3.0 PROJECT ORGANIZATION 4
4.0 SAMPLING PROCEDURES 6
5.0 QUALITY ASSURANCE/QUALITY CONTROL 7

TABLES

1. Field and Laboratory QC Summary
2. Laboratory Reporting Limits for Soil, Water, and Air Samples

APPENDICES

A. Professional Profiles
B. Quality Assurance Glossary

1.0 INTRODUCTION

This Quality Assurance Project Plan (QAPP) has been prepared to describe the measures that will be taken to ensure that the data generated during performance of the Remedial Investigation (RI) at 3875 Ninth Avenue, New York, New York (Site) are of quality sufficient to meet project-specific data quality objectives (DQOs). The QAPP was prepared in accordance with the guidance provided in New York State Department of Environmental Conservation (NYSDEC) Technical Guidance DER-10 (Technical Guidance for Site Investigation and Remediation), and the United States Environmental Protection Agency's (USEPA's) Guidance for the Data Quality Objectives Process (EPA QA/4).

2.0 BACKGROUND, OBJECTIVES, AND SCOPE

In order to achieve project objectives, Roux Associates has developed a scope of work that includes sampling of soil, groundwater, and soil vapor. A brief overview of each element of the RI scope of work is provided below. RI sampling locations are shown in Figure 6 of the RI Work Plan (RIWP).

2.1 Soil

An estimated total of 24 soil samples will be collected and analyzed at a minimum of 12 locations for Full Target Compound List (TCL) volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) plus the 30 (10 VOCs and 20 SVOCs) highest concentration Tentatively Identified Compound (TIC) List; Total Analyte List (TAL) metals; TCL pesticides; TCL herbicides; TCL PCBs; hexavalent chromium; trivalent chromium; total cyanide; and total mercury. If odor/ visual evidence of contamination or elevated photoionization detector (PID) readings are noted, additional samples will be collected from the interval that exhibits the highest contamination. If free product is encountered, representative samples of the product will be collected for laboratory analysis.

2.2 Groundwater

Groundwater samples will be collected from five new monitoring wells installed by Roux Associates during the RI. After gauging for potential separate-phase petroleum product, each well will be sampled for the following analytes:

Full Target Compound List (TCL) volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) plus the 30 (10 VOCs and 20 SVOCs) highest concentration Tentatively Identified Compound (TIC) List; Total Analyte List (TAL) metals (total and dissolved); TCL pesticides; TCL herbicides; TCL PCBs; hexavalent chromium; trivalent chromium; total cyanide; and total mercury. TAL Metals will be sampled for both total and dissolved (filtered) compounds. Groundwater will not be collected for analysis from a monitoring well if separate-phase petroleum product is observed within that monitoring well; however, the separate phase-petroleum product will be sampled and submitted to the analytical laboratory identification.

Purging and sampling will be performed consistent with USEPA low-flow sampling requirements. Field parameters, including temperature, pH, conductivity, redox potential, dissolved oxygen, and turbidity will be measured using a water quality meter with flow-through cell until parameters stabilize before samples are collected.

2.3 Soil Vapor Samples

Soil vapor samples will be collected from nine new soil vapor points to be installed during the RI to evaluate soil vapor conditions at the Site. All soil vapor samples will be collected in accordance with the October 2006 New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH Guidance) and analyzed using USEPA Method TO-15 for VOCs.

3.0 PROJECT ORGANIZATION

The overall management structure and a general summary of the responsibilities of project team members are presented below. Professional profiles are presented in Appendix A.

Project Principal

Craig Werle, of Roux Associates will serve as Project Principal. The Project Principal is responsible for defining project objectives and bears ultimate responsibility for the successful completion of the investigation.

Project Manager

Kathryn Sommo, of Roux Associates will serve as Project Manager. This individual will provide overall management for the implementation of the scope of work and will coordinate all field activities. The Project Manager is also responsible for data review/interpretation and report preparation. Activities of the Project Manager are supported by the Quality Assurance Officer.

Field Team Leader

The Field Team Leader will be determined prior to the start of work. The Field Team Leader bears the responsibility for the successful execution of the field program, as scoped in the RIWP and the Field Sampling Plan (FSP). The Field Team Leader will direct the activities of all technical staff in the field as well all subcontractors. The Field Team Leader will also assist in the interpretation of data and in report preparation. The Field Team Leader reports to the Project Manager.

Laboratory Project Manager

The laboratory that will be used for the project sample analysis has not yet been selected. Once selected, the laboratory will be responsible for sample container preparation, sample custody in the laboratory, and completion of the required analysis through oversight of the laboratory staff. The Laboratory Project Manager will ensure that quality assurance procedures are followed and that an acceptable laboratory report is prepared and submitted. The Laboratory Project Manager reports to the Field Team Leader.

Quality Assurance Officer

Yixian Zhang of Roux Associates will serve as the Quality Assurance Officer (QAO) for this project. The QAO is responsible for conducting reviews, inspections, and audits to ensure that the data collection is conducted in accordance with the FSP and QAPP. The QAO's responsibilities range from ensuring effective field equipment decontamination procedures and proper sample collection to the review of all laboratory analytical data for completeness and usefulness. The QAO reports to the Project Manager and makes independent recommendations to the Field Team Leader.

4.0 SAMPLING PROCEDURES

Detailed discussions of sampling, decontamination, and sample handling procedures are provided in the FSP.

5.0 QUALITY ASSURANCE/QUALITY CONTROL

The primary intended use for the RI data is to characterize Site conditions and determine if remediation needs to be undertaken at the Site. The primary DQO of the soil, groundwater, and soil vapor sampling programs, therefore, is that data be accurate and precise, and hence representative of the actual Site conditions. Accuracy refers to the ability of the laboratory to obtain a true value (i.e., compared to a standard) and is assessed through the use of laboratory quality control (QC) samples, including laboratory control samples and matrix spike samples, as well as through the use of surrogates, which are compounds not typically found in the environment that are injected into the samples prior to analysis. Precision refers to the ability to replicate a value, and is assessed through both field and laboratory duplicate samples.

Sensitivity is also a critical issue in generating representative data. Laboratory equipment must be of sufficient sensitivity to detect target compounds and analytes at levels below NYSDEC standards and guidelines whenever possible. Equipment sensitivity can be decreased by field or laboratory contamination of samples, and by sample matrix effects. Assessment of instrument sensitivity is performed through the analysis of reagent blanks, near-detection-limit standards, and response factors. Potential field and/or laboratory contamination is assessed through use of trip blanks, method blanks, and equipment rinse blanks (also called “field blanks”).

Table 1 lists the field and laboratory QC samples that will be analyzed to assess data accuracy and precision, as well as to determine if equipment sensitivity has been compromised. Table 2 shows the reporting limits and minimum detection limits achievable by the laboratory.

All RI analyses (i.e., TCL VOCs, SVOCs, pesticides/PCBs, and TAL metals) will be performed in accordance with the NYSDEC Analytical Services Protocol (ASP), using USEPA SW-846 methods. The laboratory selected to analyze the field samples collected during the RI shall maintain a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certification for each of the analyses listed in Section 2.0.

All laboratory data are to be reported in NYSDEC ASP Category B deliverables and will be delivered to NYSDEC in electronic data deliverable (EDD) format as described on NYSDEC’s website (http://www.dec.ny.gov/chemical/62440.html). A Data Usability Summary Report

(DUSR) will be prepared meeting the requirements in Section 2.2(a)1.ii and Appendix 2B (2) of DER-10 for all data packages generated for the RI. An independent party will review the RI data and prepare the DUSR.

A Quality Assurance Glossary is presented in Appendix B.

TABLES

1. Field and Laboratory QC Summary
2. Laboratory Reporting Limits for Soil, Water, and Air Samples

Table 1. Field and Laboratory QC Summary

QC Check Type	Minimum Frequency	Use
Field QC		
Duplicate	1 per matrix per 20 samples or SDG*	Precision
Trip Blank	1 per VOC cooler	Sensitivity
Field Blank	1 per matrix per 20 samples	Sensitivity
Laboratory QC		
Laboratory Control Sample	1 per matrix per SDG	Accuracy
Matrix Spike/Matrix Spike Duplicate/Matrix Duplicate*	1 per matrix per SDG	Accuracy/Precision
Surrogate Spike	All organics samples	Accuracy
Laboratory Duplicate	1 per matrix per SDG	Precision
Method Blank	1 per matrix per SDG	Sensitivity

Notes:

* SDG - Sample Delivery Group - Assumes a single extraction or preparation

** Provided to lab by field sampling personnel

Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1457-7

Roux Associates, Inc.

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	0.8	mg/kg	51-148		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Antimony, Total	7440-36-0	2	0.32	mg/kg	1-210		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.08	mg/kg	78-122		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Barium, Total	7440-39-3	0.4	0.12	mg/kg	82-117		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.04	mg/kg	82-118		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.028	mg/kg	82-118		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Calcium, Total	7440-70-2	4	1.2	mg/kg	82-118		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Chromium, Total	7440-47-3	0.4	0.08	mg/kg	79-121		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.2	mg/kg	83-117		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Copper, Total	7440-50-8	0.4	0.08	mg/kg	80-120		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Iron, Total	7439-89-6	2	0.8	mg/kg	47-153		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Lead, Total	7439-92-1	2	0.08	mg/kg	81-119		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Magnesium, Total	7439-95-4	4	0.4	mg/kg	75-124		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Manganese, Total	7439-96-5	0.4	0.08	mg/kg	81-119		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Nickel, Total	7440-02-0	1	0.16	mg/kg	82-118		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Potassium, Total	7440-09-7	100	16	mg/kg	70-130		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Selenium, Total	7782-49-2	0.8	0.12	mg/kg	78-123		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Silver, Total	7440-22-4	0.4	0.08	mg/kg	74-125		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Sodium, Total	7440-23-5	80	12	mg/kg	70-130		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Thallium, Total	7440-28-0	0.8	0.16	mg/kg	78-122		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.04	mg/kg	65-135		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Zinc, Total	7440-66-6	2	0.28	mg/kg	80-121		75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, In

Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1457-7

Roux Associates, Inc.

TCL Volatiles - EPA 8260C (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	10	1.104	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1.5	0.0856	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.37	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.21	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	3.5	0.228	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.1536	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1.5	0.304	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	1	0.1402	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	1	0.348	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	5	0.388	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.1134	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	1	0.1108	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	1	0.1732	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.1208	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	1	0.1176	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	5	0.1414	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.236	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	1	0.1008	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	1	0.118	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1.5	0.1948	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.1274	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	5	0.294	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.338	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	2	0.1174	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.316	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.262	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.212	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	1	0.125	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	5	0.1532	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	5	0.135	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	5	0.1384	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.0844	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.1978	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	2	0.1718	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.1428	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30			
Dibromomethane	74-95-3	10	0.1636	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, In

Roux Associates, Inc.

TCL Volatiles - EPA 8260C (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Styrene	100-42-5	2	0.402	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.1908	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	1.036	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	1.102	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	0.272	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	0.1322	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	0.244	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	10	0.1626	ug/kg	68-130	30	68-130	30	30			
2-Hexanone	591-78-6	10	0.666	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	5	0.276	ug/kg	70-130	30	70-130	30	30			
2,2-Dichloropropane	594-20-7	5	0.226	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	4	0.1744	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	5	0.1452	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	1	0.318	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	5	0.208	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.1148	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.122	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	5	0.1354	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	5	0.1598	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	5	0.1328	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	5	0.396	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	5	0.228	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.1038	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.125	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	5	0.1384	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	10	0.514	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.1092	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	5	0.1476	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.1818	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	5	0.1434	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	5	0.1414	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	100	14.42	ug/kg	65-136	30	65-136	30	30			
1,4-Diethylbenzene	105-05-5	4	0.1598	ug/kg	70-130	30	70-130	30	30			
4-Ethyltoluene	622-96-8	4	0.124	ug/kg	70-130	30	70-130	30	30			
1,2,4,5-Tetramethylbenzene	95-93-2	4	0.1302	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	5	0.26	ug/kg	67-130	30	67-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	0.392	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Roux Associates, Inc.

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.016896	mg/kg	75-126		80-120	20	20		28 days	1 - Glass 250ml/8oz unpreserved

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Page: 1

Roux Associates, Inc.

TCL Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	7.9992	1.56651	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	3.333	1.489851	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	3.333	0.946572	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	7.9992	3.03303	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	3.9996	1.793154	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	7.9992	2.816385	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	14.9985	4.49955	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	3.333	1.36653	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	9.999	3.49965	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	7.9992	2.059794	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	4.9995	2.49975	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	7.9992	1.849815	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	7.9992	2.853048	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	14.9985	6.43269	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	7.9992	1.889811	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	7.9992	2.673066	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	3.333	1.523181	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	14.9985	4.6662	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	149.985	41.9958	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	9.999	2.786388	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	9.999	2.639736	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	64.9935	26.49735	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Roux Associates, Inc.

NYTCL Semivolatiles - EPA 8270D (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	34.402	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	130.594	ug/kg	10-66	50	10-66	50	50			
n-Nitrosodimethylamine	62-75-9	334	54.0746	ug/kg	22-100	50	22-100	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	54.7426	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	31.1288	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	46.8268	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	54.442	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	54.8094	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	52.6384	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	50.768	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	36.0386	ug/kg	28-89	50	28-89	50	50			
2,6-Dinitrotoluene	606-20-2	167	42.752	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	30.6612	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	50.8014	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	38.41	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	44.756	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	39638-32-9	200.4	58.784	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	50.5676	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	47.094	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	478.956	107.214	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	30.3606	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	44.422	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	55.444	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	39.746	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	35.07	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	49.766	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	43.754	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	32.6318	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	32.231	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	41.082	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	35.3038	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	42.418	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	32.6986	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.8482	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	33.734	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	31.8636	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	32.7988	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	31.229	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	27.7888	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	34.736	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	47.8622	ug/kg	40-140	50	40-140	50	50			

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Roux Associates, Inc.

NYTCL Semivolatiles - EPA 8270D (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Phenanthrene	85-01-8	100.2	32.6652	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	100.2	32.3312	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	37.074	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	32.4648	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	55.0766	ug/kg	54-104	50	54-104	50	50			
Aniline	62-53-3	200.4	34.068	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	44.088	ug/kg	40-140	50	40-140	50	50			
2-Nitroaniline	88-74-4	167	47.094	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	46.092	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	45.09	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	55.7446	ug/kg	40-140	50	40-140	50	50			
1,2,4,5-Tetrachlorobenzene	95-94-3	167	51.7366	ug/kg	40-117	50	40-117	50	50			
2-Methylnaphthalene	91-57-6	200.4	53.3398	ug/kg	40-140	50	40-140	50	50			
Acetophenone	98-86-2	167	51.77	ug/kg	14-144	50	14-144	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.4962	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	48.43	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	50.434	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	54.108	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	49.766	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	52.104	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	54.108	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	228.456	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	61.122	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	35.738	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	49.432	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	53.774	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	54.776	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	54.108	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-66	50	10-66	50	50			
Benzyl Alcohol	100-51-6	167	51.436	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	35.905	ug/kg	54-128	50	54-128	50	50			
2,3,4,6-Tetrachlorophenol	58-90-2	167	28.39	ug/kg	40-140	50	40-140	50	50			
Pyridine	110-86-1	668	59.786	ug/kg	10-93	50	10-93	50	50			
1-Methylnaphthalene	90-12-0	167	49.766	ug/kg	26-130	50	26-130	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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Roux Associates, Inc.

Herbicides -EPA 8151A (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	166.5	20.2464	ug/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	166.5	10.3896	ug/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	166.5	9.1908	ug/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

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Roux Associates, Inc.

TCL PCBs - EPA 8082A (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	33.5	2.6465	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	33.5	3.0887	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	33.5	3.9262	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	33.5	4.1004	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	33.5	2.8274	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	33.5	2.7537	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	33.5	2.5527	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	33.5	1.6616	ug/kg	40-140	50	40-140	50	50			
Aroclor 1268	11100-14-4	33.5	4.8575	ug/kg	40-140	50	40-140	50	50			
PCBs, Total	1336-36-3	33.5	1.6616	ug/kg				50	50			
PCBs, Total	1336-36-3	33.5	1.6616	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Roux Associates, Inc.

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Total	57-12-5	1	0.2339	mg/kg	80-120	35	65-135	35	35	9010C/9012A	14 days	1 - Glass 250ml/8oz unpreserved
Chromium, Hexavalent	18540-29-9	0.8	0.16	mg/kg	80-120	20	75-125	20	20	7196A	30 days	1 - Glass 120ml/4oz unpreserved

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Page: 1

Roux Associates, Inc.
TCL WATERS
TCL Volatiles - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1	0.133	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	1.5	0.5	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	2.5	0.7	ug/l	75-130	20	75-130	20	20			
Trichlorofluoromethane	75-69-4	2.5	0.7	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	2.5	0.7	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.65	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.144	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	20	70-130	20	20			
Toluene	108-88-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Ethylbenzene	100-41-4	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.7	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	2.5	0.7	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0699	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	2.5	0.7	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.142	ug/l	61-145	20	61-145	20	20			
trans-1,2-Dichloroethene	156-60-5	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	20	70-130	20	20			
1,2-Dichlorobenzene	95-50-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	2.5	0.7	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	2.5	0.7	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	2.5	0.7	ug/l				20	20			
Dibromomethane	74-95-3	5	1	ug/l	70-130	20	70-130	20	20			

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Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1458-2
Page: 2

Roux Associates, Inc.
TCL WATERS
TCL Volatiles - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,3-Trichloropropane	96-18-4	2.5	0.7	ug/l	64-130	20	64-130	20	20			
Acrylonitrile	107-13-1	5	1.5	ug/l	70-130	20	70-130	20	20			
Styrene	100-42-5	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	1	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	1	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	1	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	1	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	1	ug/l	57-130	20	57-130	20	20			
Bromochloromethane	74-97-5	2.5	0.7	ug/l	70-130	20	70-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.7	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.65	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	2.5	0.7	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	2.5	0.7	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	2.5	0.7	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.7	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.7	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	2.5	0.7	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	2.5	0.7	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	2.5	0.7	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.7	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,4-Dioxane	123-91-1	250	41.1	ug/l	56-162	20	56-162	20	20			
1,4-Diethylbenzene	105-05-5	2	0.7	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.7	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.65	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.7	ug/l	59-134	20	59-134	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1458-2
Page: 1

Roux Associates, Inc.
TCL WATERS
METALS by 6020A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	0.01	0.002	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.0005	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.0002	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.00005	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.032	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.0002	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0002	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.013	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.0002	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.00243	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.0005	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.0005	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.027	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.0003	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.00025	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.015	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.0002	0.00003	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.0001	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.0012	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1458-2
Page: 1

Roux Associates, Inc.
TCL WATERS
METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.000066	mg/l	70-130		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1458-2
Page: 1

Roux Associates, Inc.
TCL WATERS
TCL Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.063	ug/l	30-150	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1458-2
Page: 1

Roux Associates, Inc.
TCL WATERS
TCL PCBs - EPA 8082A (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.083	0.05478	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.083	0.05312	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.083	0.03071	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.083	0.05976	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.083	0.05063	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.083	0.03403	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.083	0.03154	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.083	0.02905	ug/l	40-140	50	40-140	50	50			
Aroclor 1268	11100-14-4	0.083	0.03735	ug/l	40-140	50	40-140	50	50			
PCBs, Total	1336-36-3	0.083	0.02905	ug/l				50	50			
PCBs, Total	1336-36-3	0.083	0.02905	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1458-2
Page: 1

Roux Associates, Inc.
TCL WATERS
NYTCL Semivolatiles - EPA 8270D (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,4-Trichlorobenzene	120-82-1	5	0.21	ug/l	39-98	30	39-98	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.409	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.302	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.35	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.323	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.478	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	1.05	ug/l	24-96	30	24-96	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.89	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.355	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.428	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	39638-32-9	2	0.597	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	0.596	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.585	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.787	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.401	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.34	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.645	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	0.928	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	1.13	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.768	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	1.2	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	0.393	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	0.333	ug/l	40-140	30	40-140	30	30			

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Date Created: 04/28/15
Created By: Karyn Raymond
File: PM1458-2

Roux Associates, Inc.
TCL WATERS
NYTCL Semivolatiles - EPA 8270D (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Biphenyl	92-52-4	2	0.237	ug/l	54-104	30	54-104	30	30			
4-Chloroaniline	106-47-8	5	0.835	ug/l	40-140	30	40-140	30	30			
2-Nitroaniline	88-74-4	5	0.956	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.668	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.83	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.218	ug/l	40-140	30	40-140	30	30			
1,2,4,5-Tetrachlorobenzene	95-94-3	10	0.36	ug/l	2-134	25	40-117	30	30			
Acetophenone	98-86-2	5	0.428	ug/l	39-129	30	39-129	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.775	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.543	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.58	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.564	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	0.578	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	1.05	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.09	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	1.4081	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	1.36	ug/l	20-164	30	20-164	30	30			
Phenol	108-95-2	5	0.27	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	0.703	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.72	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.748	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	1.0104	ug/l	10-110	30	10-110	30	30			
Benzyl Alcohol	100-51-6	2	0.677	ug/l	15-110	30	15-110	30	30			
Carbazole	86-74-8	2	0.374	ug/l	55-144	30	55-144	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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File: PM1458-2
Page: 1

Roux Associates, Inc.
TCL WATERS
Herbicides -EPA 8151A (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	10	0.544	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.488	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.391	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

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Roux Associates, Inc.
TCL WATERS
NYTCL Semivolatiles -EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.2	0.064	ug/l	37-111	40	37-111	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.066	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.2	0.043	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.071	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.2	0.064	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.2	0.057	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.2	0.069	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.2	0.071	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.2	0.068	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.2	0.049	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.2	0.05	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.2	0.063	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.2	0.07	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.2	0.057	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.2	0.064	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.2	0.073	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.2	0.079	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.2	0.057	ug/l	26-127	40	26-127	40	40			
2-Methylnaphthalene	91-57-6	0.2	0.06	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.187	ug/l	9-103	40	9-103	40	40			
Hexachlorobenzene	118-74-1	0.8	0.014	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.065	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
O-Terphenyl-MS	*84-15-1*									*40-140*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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File: PM1458-2
Page: 1

Roux Associates, Inc.
TCL WATERS
WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Total	57-12-5	0.005	0.001276	mg/l	80-120	20	80-120	20	20	9010C/9012A	14 days	1 - Plastic 250ml NaOH preserved
Chromium, Hexavalent	18540-29-9	0.01	0.0035	mg/l	85-115	20	85-115	20	20	7196A	24 hours	1 - Plastic 500ml unpreserved

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File: PM1459-2
Page: 1

Roux Associates, Inc.
TO-15
Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.057	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0548	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.0667	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0771	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0566	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0611	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0694	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0779	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0614	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0552	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.0697	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0584	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.0799	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0637	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0418	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.078	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0659	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.0522	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0604	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.0812	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.0776	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.269	ppbV	70-130			25	25			
Benzene	71-43-2	0.2	0.0537	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0645	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0656	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0523	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0696	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0345	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0471	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0789	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0767	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0452	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0958	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.0587	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0745	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0656	ppbV	70-130			25	25			

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Roux Associates, Inc.
TO-15
Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0747	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0466	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAI06	2.5	0.542	ppbV	70-130			25	25			
Ethyl Acetate	141-78-6	0.5	0.131	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0555	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0511	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0419	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0732	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.114	ppbV	70-130			25	25			
Methylene chloride	75-09-2	0.5	0.188	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.0607	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0452	ppbV	70-130			25	25			
p/m-Xylene	179601-23-1	0.4	0.139	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0631	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0631	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0553	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0518	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0799	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0758	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.0622	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0628	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.074	ppbV	70-130			25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0693	ppbV	70-130			25	25			
Trichloroethene	79-01-6	0.2	0.071	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0416	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0699	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0533	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.0599	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
Bromofluorobenzene	*460-00-4*									*70-130*		

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APPENDICES

A. Professional Profiles
B. Quality Assurance Glossary

APPENDIX A

Professional Profiles

Craig A. Werle, P.G.

Principal Hydrogeologist/National Client Manager

Technical Specialties:
Soil and groundwater investigations, delineation of groundwater flow systems, design and implementation of remedial systems, development of regulatory strategy and regulatory negotiations, environmental due diligence, environmental compliance audits.

Experience Summary:
Twenty-nine years of experience: Principal Hydrogeologist at Roux Associates, Inc.; Principal at ERM Northeast; Staff Hydrogeologist at Suffolk County, New York Department of Environmental Control.

Credentials:
B.A. Geography, Clark University, 1974
MA. Geology, SUNY Binghamton, 1978

Registrations:
Registered Professional Geologist in Delaware
Certified Professional Geologist - American Institute of Professional Geologists - No. 7412

Key Projects:

Brownfields / Real Estate Redevelopment

- Principal-in-Charge for taking the 22-acre Former Avis Headquarters site in Westbury, New York through the NYSDEC Brownfield Cleanup Program (BCP) for Equity One Inc. The project was constructed on an expedited basis to meet the deadlines associated with opening a major new shopping center. The project required very close coordination with all members of the construction team to ensure environmental issues didn't delay the demolition of existing buildings or construction of a 312,000 sq.ft. new retail space. The project included submission of the BCP Application, RI Work Plan, implementation of the RI including soil, groundwater and soil vapor sampling. An IRM was implemented that included the excavation of 40,000 tons of soil in support of a Track 1 cleanup. The NYSDEC-approved Remedial Action Work Plan (RAWP) was implemented including an in-situ chemical oxidation (ISCO) remedy for groundwater and soil vapor monitoring. All remedial work was completed on schedule and the Final Engineering Report (FER) was submitted and a Track 1 Certificate of Completion (COC) was issued before the first tenants took possession of their space.
- Principal-in-Charge of all environmental services for Vornado Realty Trust Rego Mall Expansion. Project included Phase II investigation, preparation of Remedial Action Plan for NYCDEP approval. Preparation of three dimensional sample grid for in-situ waste characterization, conduct 495 sample in-situ characterization plan, provide environmental support to project team evaluation of disposal strategy for 400,000 tons of soil/urban fill. Provide full time oversight of 9 month excavation/waste shipment process. Prepare Remedial Action Summary Report and Groundwater Monitoring Report.
- Principal-In-Charge of NYSDEC BCP project in Brooklyn New York. The site is auto dealership with petroleum and chlorinated solvent contamination in soil and groundwater. The site has been accepted in the NYSDEC BCP and the RIWP submitted. Implementation of the RI is expected late in 2012 followed by a track 4 RAWP in 2013.
- Principal-in-Charge for Equity One development of a site in Bronx NY into an urban mall. Project includes entry in the New York City Office of Environmental Remediation (NYCOER) Voluntary Cleanup Program (VCP), implementation of an RI, submittal of an RI Report and RAWP recommending a soil excavation remedy. Remedial activity is expected to begin in late 2012.

Industry Experience

- Principal-in-Charge/Project Manager for ECRA/ISRA project at a major aerospace facility in New Jersey for Fortune 100 client. Project included development of regulatory strategy, on-site delineation of multiple areas of soil contamination including large scale disposal pits, identification of radiological contamination, delineation of free phase oil body containing PCBs, delineation of multi-constituent contaminant plume containing TCE, UST removal, and RCRA storage pad closure. Designed and implemented comprehensive remedial pilot study to evaluate groundwater treatment technologies, feasibility and treatment of SVE/AS system, oil collection technologies. Aquifer test conducted in conjunction with pilot test. Excavation and off-site disposal of 5,000 tons of contaminated soil from waste pits. Investigation of off-site impact of TCE plume migration including health risk assessment.
- Principal/Project Manager for hydrogeologic investigation of largest private landfill in Connecticut. Including installation of multi-aquifer monitoring network, delineation of flow system and leachate plume.
- Site investigation and design of a multi-aquifer groundwater recovery system at a Connecticut NPL site. Extensive off-site contaminant plume contained TCE, PCE, methylene chloride and assorted chlorinated and aromatic hydrocarbons. Design reviewed and approved by USEPA Region 1.
- Project Manager for investigation of landfill leachate impacts in groundwater/surface water at private landfill in Colchester, Connecticut. Conducted soil and groundwater testing in support of landfill expansion permit.
- Investigation of organic chemical impacts to groundwater associated with industrial landfill at major chemical plant in Naugatuck, Connecticut. Included evaluation of hydraulic and geochemical relationship of aquifer system and Naugatuck River.
- Principal-in-Charge/Project Manager for a soil and groundwater investigation at a tool and die manufacturer in Greenfield, Massachusetts. Project included delineation of TCE contamination in soils surrounding a closed dry well. Soils remediation completed through excavation and off-site disposal. Mapped TCE plume on-site and 4,000 feet off-site. Development of regulatory strategy/regulatory negotiation.
- Principal-in-Charge for a soil investigation/removal action and groundwater investigation at a Hicksville, New York State-lead CERCLA site. Project included delineation of TCE/PCE plume in the Upper Glacial Aquifer. Key issues included differentiation of on-site solvent sources from upgradient and downgradient plumes of similar contaminants.
- Project Manager for a soil and groundwater investigation at a solvent recovery facility in Linden, New Jersey. Project included delineation of significant on-site soil contamination from a wide variety of chlorinated and nonchlorinated solvents.

Craig A. Werle, P.G.

Principal Hydrogeologist/National Client Manager

- Project manager for installation of groundwater monitoring network at Acabonac Road Landfill, East Hampton, New York.
- Project Manager for an expedited investigation of a TCE plume migrating through fractured bedrock toward the only on-site source of potable water at a major industrial facility in western New Jersey.
- Principal-in-Charge/Project Manager for the investigation of TCE contamination in groundwater at a Farmingdale, New York manufacturing facility. Project included development and negotiation of a work plan with NYSDEC. Groundwater modeling of potential off-site plume migration was responsible for delisting of the facility.
- Principal/Project Manager for a soil and groundwater investigation at a chemical distribution facility in Norwalk, Connecticut. Project included removal of buried drums and soil containing solvents and waste oils, identification of on-site source areas, delineation of solvent plume in glacial sediments and shoreline deposits adjacent to Long Island Sound. Negotiation of project scope and approach with CTDEP.
- Principal-in-Charge for investigation of a million gallon gasoline spill in a complex glacial environment. Delineation of free phase gasoline plume and multiple dissolved phase plumes, including the installation of 250 monitoring wells. Design/installation/operation of a remedial pumping system responsible for the recovery of over 460,000 gallons of gasoline. Primary technical representative for regulatory, community and media interaction. Installation and routine sampling of vapor well monitoring network to evaluate residential vapor impacts.
- Principal-in-Charge for detailed baseline assessments of six oil terminals in the northeastern United States prior to divestiture by a major U.S. oil company. Assessments included evaluation of compliance issues and implementation of soil and groundwater sampling plans and development of quantitative remedial cost estimates.
- Principal-in-Charge of detailed pre-acquisition environmental assessments of the Come-by-Chance Refinery in Newfoundland and the BORCO Refinery in Grand Bahama Island. Projects included evaluation of compliance and remedial issues based on both local and U.S. regulations and the development of remedial cost estimates.
- Principal-in-Charge of the remediation and divestiture of 28 service stations in New York for an independent petroleum company. This multi-year project included the design/installation/operation of remedial systems including free product recovery; dissolved phase recovery/treatment; and soil vapor extraction/air sparging. Use of risk-based corrective action (RBCA) and intrinsic bioremediation strategies resulted in No Further Action closures of many stations.
- Principal for the design and construction of a 7-acre impermeable cap over an inactive pharmaceutical waste landfill. Through construction of the cap, the landfill was closed in accordance with CTDEP Solid Waste Management regulations. The cap consisted of a 6-inch gas venting/bedding layer; 40-mil HDPE impermeable layer; 18-inch sand drainage layer and 9-inch vegetative layer. Stormwater runoff was collected in a series of riprap drainage swales and a culvert, discharging to a retention basin. The cap construction was completed within the allotted timeframe and budget.
- Principal-in-Charge for the investigation and remediation of a large gasoline leak at a terminal overlying Long Island's sole source aquifer. Project included the delineation of the 11-acre free phase product plume and the 3,000 foot long dissolved phase plume. Design/construction/operation of a 10 well, 800 gpm recovery system. Over 150,000 gallons of free phase product recovered. Remediation of the dissolved product plume was successfully completed and approved by NYSDEC and the system was dismantled. Design/implementation of a 90-day SVE/AS pilot test. Development of regulatory strategy, regulatory negotiations. Technical representation with the community, media, surrounding landowners and political officials.
- Development and implementation of an underground storage tank management plan for major chemical facilities in West Virginia and New Jersey.
- Principal-in-Charge of a site investigation and remediation project in southern New Jersey conducted under the NJDEP voluntary cleanup program.
- Principal-in-Charge for a groundwater investigation at a major petroleum transshipment terminal on Bonaire. Project included installation of 22 monitoring wells, evaluation of geologic and hydrogeologic setting, determination of groundwater quality and distribution of petroleum in the subsurface.
- Principal-in-Charge for the development of a quantitative environmental baseline assessment at a portion of the former Exxon Lago Refinery in Aruba. Project included installation of monitoring wells, collection and analysis of priority pollutant soil and groundwater samples. Evaluation of contaminant distribution within all environmental media was the basis of establishing remedial responsibility with the Aruban government for new site ownership.
- Principal in Charge of RI/IRM at former dry cleaning facility in Glen Cove, New York. Including negotiation of work plan with NYSDEC and New York State Attorney General's office, delineation of residual DNAPL, PCE plume in groundwater and PCE in soil
- Management of an ISRA project at a plastic injection molding faciltiy in Randolph, New Jersey. Issues include TCE contamination in soil and groundwater and hydrocarbon contamination from an UST release.
- ISRA project at a former fabric dyeing facility in Haledon, New Jersey Including delineation of chlorinated solvents and petroleum in soils and groundwater. Remediation includes soil removal and engineering controls and deed notice.

Litigation Support / Expert Witness

- Expert witness for Wiley Rein & Fielding and Melito & Adolfsen, PC for Glidden Company v. Aetna Casualty & Surety Company, et al. Included preparation of expert report for three Glidden facilities and deposition testimony. Report and testimony related to timing and nature of contaminant releases and reasonability of past costs.
- Claim evaluation for Mendes & Mount and London Market Insurers for Harsco Corporation facility in Fayetteville, New York. Evaluation related to insured's contribution to contamination at a site with sequential ownership.

Craig A. Werle, P.G.

Principal Hydrogeologist/National Client Manager

Also, evaluation of timing of releases, and relative importance of various source areas.

- Expert witness for Cuyler Burk, LLP in Selective Insurance Co. v. Parsippany-Troy Hills (Sharkey Landfill site). Included preparation of expert report related to the timing of contamination and the insured's understanding of environmental conditions.
- Claim evaluation for Mendes & Mount, LLP and London Market Insurers for five sites owned by Federal Pacific Electric Corp. and Cornell Dubilier Electric Company. The report evaluated sources of contamination, reasonability of past costs and potential future costs.
- Claim evaluation for Hardin, Kundla, McKeon, Polletto & Polifroni and the Royal Insurance Company for two Mark IV Industries, Inc. (former Rexon Technology Corp.) facilities in New Jersey. The primary issues evaluated were sources of contamination relative to owned property concerns, critical review of past costs and a projection of future costs.
- Claim evaluation for Jackson& Campbell and AIG for two RSR Corporation sites including a battery recycling/secondary lead smelting facility in West Dallas, Texas and a multiparty site on Harbor Island in Seattle, Washington. Both sites are on the National Priority List. The evaluation examined contaminant sources, owned property issues and past and future costs.
- Expert witness for Hardin, Kundla, McKeon, Polletto & Polifroni and CNA on a residential petroleum spill in Saddle Brook, New Jersey. The expert report evaluated timing of the release, remedial costs and selection of remedial technologies.
- Expert witness in a tax certiorari case at a service station site in Farmingdale, New York. Provided expert testimony related to petroleum release, groundwater impact and remediation costs.
- Fact witness and Principal-in-Charge for an oil company client being sued by a developer related to diminished property value resulting from dissolved phase migration. Provided court testimony related to the nature of the release, migration of free/dissolved phase contaminants, hydrogeologic setting and remedial strategy and efficacy of remedial system operation.
- Fact witness and Principal-in-Charge for an Insured seeking recovery of costs from insurance company at a site in Bay Shore, New York. Provided deposition testimony related to on-site and off-site hydrogeologic investigation, remedial strategy, and off-site recovery system design.
- Fact witness and Principal-in-Charge for a property owner suing a major oil company relative to unremediated environmental impacts from significant gasoline releases at a long term service station lease site.
- Expert witness for The Hartford and Melito & Adolfsen in Gould Electronics, Inc. v. Aetna. Included preparation of expert report and deposition testimony. Expert opinion offered on trichloroethylene contamination of soils and groundwater, DNAPL mechanics and volume
- Expert witness for London Market and Mendes & Mount in TRW Corp. v. London Market Insurers. Included preparation of expert report and deposition testimony. Expert opinion offered on trichloroethylene disposal procedures and state of knowledge concerning TCE toxicity
- Expert witness for Leodori and Napierkowski in Leisure Time Tours v. Continental Insurance Co., et al. Included preparation of expert report related to investigation and remediation of free phase hydrocarbons.
- Expert witness for Rogers Towers Bailey Jones & Gray in Petroleum Products Corp. v. Insurance Company of North America. Included preparation of expert report and deposition testimony related to investigation and remediation of hydrocarbon and PCB contamination
- Principal in Charge of claim evaluation services for Kodak Insurance Defense Group. Includes review and evaluation of environmental reports and invoices related to $298 million claim.
- Claim evaluation for Garrity Graham Favetta & Flinn and Utica Insurance Co. related to North Burlington Regional School District claim. Critical evaluation of documentation for the investigation and remediation of a hydrocarbon release from multiple sources.

ROUX

Professional Profile

Kathryn Sommo, CPESC, ISA Arborist
Senior Scientist
Islandia, NY

Technical Specialties:
Soil, Sediment, Groundwater and Soil Vapor Investigation Sediment Characterization for Ecological Impacts, Waste Management, Construction Management, Wetland Mitigation and Restoration, Sensitive Area Monitoring Well Installation, Hydrologic Studies, Wetland Delineation, Wetland and SPDES Permitting, Constructed Treatment Wetland (CTW) System Design Management, Wetland Assessments, Habitat Evaluations, Rare, Threatened & Endangered (RTE) Species Surveys, Litigation Support and Phytoremediation.

Experience Summary:
Fourteen years of experience with Roux Associates.
Five years' experience as Biologist with U.S. Forest Service, Colorado Division of Wildlife, and Colorado Natural Heritage Program.

Credentials:
B.S. Fishery Biology, Colorado State University, 1998
Wetland Delineation Certification, Richard Chinn Environmental Training, 2000
Winter Plant Identification Certification, Rutgers University, 2011.
RTE Species of New Jersey, Rutgers University, 2012
International Society of Arboriculture (ISA) Certified Arborist
Certified Professional in Erosion and Sediment Control (CPESC)
OSHA 40-Hour Health and Safety Course

Professional Affiliations:
Society of Wetland Scientists, Society for Ecological Restoration, Xerces Society for Invertebrate Conservation, ISA New York Chapter

Key Projects:

- Project Manager for benthic community evaluation for waterfront redevelopment site located within an inlet of the East River and greater NYC harbor area. Completed benthic, sediment and surface water sampling to evaluate the effects of the contaminated sediment on the benthic community. Work performed in support of the creation of tidal marshes, provision of benthic habitat structures, and the partial removal of a bulkhead to provide public access to the created water feature.
- Project Manager for wetland delineation, sediment sampling and characterization, and assessment of wetland vegetative communities present within a two mile stretch of the Peconic River in Brookhaven, New York. The project included sediment removal and wetland restoration for the remediation of metal contaminated sediments in the emergent marsh and forested riparian wetland system. Project manager for the restoration monitoring, supplemental planting, and invasive species control activities.
- Field Manager for sediment investigation and wetland vegetation encroachment control at a former petroleum bulk storage facility in Staten Island, New York. Wetland investigation, remediation and restoration project for a 440-acre former Major Oil Storage Facility containing approximately 95 acres of tidal and freshwater wetlands. As part of a Consent Order between the client and the NYSDEC, Roux developed and implemented a remedial design that minimized impacts to the wetlands while ensuring the protection of human health, wildlife and the surrounding environment. The remedial design included excavation and offsite disposal of 21,000 CY of sediment over 10 acres of wetlands.Achieved regulatory closure of the wetland restoration within two years of monitoring.
- Field Manager for landfill leachate investigation in Holtsville, New York. Downgradient pond and surface water tributary impacted from landfill leachate. Investigation activities included oversight of well installation, well development, the collection of groundwater, surface water and sediment samples, staff gauge installation piezometer installation and stream flow readings. Completed inventory of soils and vegetation within the landfill. Designed planting plan for pond restoration and completed permit application for restoration of the pond and surrounding uplands.
- Project Manager for post-remediation documentation for a former colorants facility in Rensselaer, New York. Ongoing work activities include, updates to the Site Management Plan for OU-1 and OU-2, periodic review reporting for the groundwater monitoring, groundwater treatment system, soil vapor barrier and landfill cap.
- Project Manager for remedial investigatin at a former aerospace manufacturing facility located in Wallingford, CT. Site contamination included chlorinated hydrocarbons petroleum related VOCS and metals in soils and groundwater An air/sparge soil vapor extraction (AS/SVE) system was installed to address soil and groundwater contamination from the flow meter testing area.. Work activities have included: quarterly groundwater monitoring, writing and implementation of subsurface investigation Work Plans, review and analysis of laboratory analytical data, and reporting of investigation results, completion of a Sensitive Receptor Survey, Water Supply Well Survey, Ecological Scoping Checklist, RCRA Corrective Action Forms (Current Human Exposures Under Control -CA-725 & Migration of Contaminated Groundwater Under Control - CA750) and the Conceptual Site Model.
- Field Manager for coastal shoreline stabilization and grassland mitigation of an 80 acre island located off the coast of Brooklyn, NY. The island formally served as a municipal landfill and due to erosion forces the landfill waste became exposed. The design provided slope stabilization improvements and the creation of warm season maritime grasslands to provide foraging, cover and nesting habitat for birds. An inventory of the island vegetation was completed as well as soil, sediment and surface water samples to fully characterize the nature and depth to the landfill waste. Wetland permitting was completed to mitigate for the impacts to the wetland and adjacent areas.
- Field manager for a former petroleum bulk storage facility in Greenport, New York. Work activities included soil and groundwater sampling, creation of groundwater flow maps, soil and monitoring well profiles.
- Project Manager for benthic community evaluation for waterfront redevelopment site located within an inlet of the East River and greater NYC harbor area. Completed benthic, sediment and surface water sampling to evaluate the effects of the contaminated sediment on the benthic community. Work performed in support of the creation of tidal marshes, provision of benthic habitat structures, and the partial removal of a bulkhead to provide public access to the created water feature.
- Project Manager for feasibility study and engineering design to reroute additional stormwater to constructed treatment wetland (CTW) system in Portsmouth, Virginia. Zinc and copper were the primary constituents targeted for treatment in the CTW system. Components of the work included, stormwater runoff modeling analysis, mass loading calculations, constructed treatment wetland performance and life expectancy calculations and alternatives analysis.

Yixian Zhang, Ph.D

Senior Scientist

Technical Specialties:

More than 10 years of experience in environmental chemistry with extensive experience in assessment and remediation of sediments contaminated with PCBs, PAHs, and petroleum hydrocarbons. Designed, implemented, and managed data collection programs including field, laboratory, and data interpretation components to study transport, fate, and effects of organic and inorganic contaminants in terrestrial and marine environments. Specialized in environmental forensic techniques including advanced chemical fingerprinting for source identification and timing of releases. Expertise in contaminant partitioning in aqueous, solid, and biota phases and implications to contaminant bioavailability. Significant experience in research and development of new analytical methods including *in situ* chemical sensors, field-screening techniques and fixed laboratory methods. Strong knowledge in toxicity and bioaccumulation testing of contaminated sediments and sediment quality triad assessment. Additional area of expertise includes quality assurance/quality control (QA/QC) plan development and implementation and data quality evaluation.

Experience Summary:

Senior Scientist, Roux Associates (2009 – present)

Principal Research Scientist, Battelle (2005 – 2009)

Environmental Scientist, Tetra Tech ECI (formerly Foster Wheeler Environmental Corp) (2001-2005)

Research Assistant, University of Massachusetts, Boston (1995-2001)

Environmental Scientist, Shanghai Environmental Monitoring Center (1991-1995)

Credentials:

B.S. Environmental Sciences, East China Normal University, Shanghai, China, 1991

Ph.D. Environmental Sciences (Concentration on Environmental Geochemistry), University of Massachusetts, Boston, 2003

Publications:

Wang, X., Y. Zhang, and R. F. Chen. 2001. Distribution and Partitioning of Polycyclic Aromatic Hydrocarbons (PAHs) in Different Size Fractions in Sediments from Boston Harbor, United States. *Marine Pollution Bulletin.* 42 (11): 1139-1149.

Chen R.F., Y. Zhang, P. Vlahos, and S. M. Rudnick. 2002. The Fluorescence of Dissolved Organic Matter in the Mid-Atlantic Bight. *Deep Sea Research.* 49 (20): 4439-4459.

Presentations:

Zhang, Y. and Chen, R. F. Determination of PAHs and DOC in Sediment Porewater Using TR-LIF. Fifth International Conference on Remediation of Contaminated Sediments, Jacksonville, Florida. February 2009. Session E3.

Burgess, R.M.; Zhang, Y.; McKee, M.P.; Lohmann, R.; Luey, P.J.; Friedman, C.L.; Schubauer-Berigan, J.P. and Lefkovitz, L. Evaluating PCB Bioavailability Using Passive Samplers and Mussels at a Contaminated Sediment Site. Fifth International Conference on Remediation of Contaminated Sediments, Jacksonville, Florida. February 2009. Session C4.

Burgess, R.M.; Zhang, Y,; McKee, M. P.; Lohmann, R.; Luey, P.J.; Friedman, C.L.; Schubauer-Berigan, J.P. and Lefkovitz, L. Comparison of Passive Sampling Devices for Measuring Dissolved PCBs in the Water Column of a Marine Superfund Site. North American Society of Environmental Toxicology and Chemistry (SETAC) National meeting, Tampa Bay, Florida. November 2008. Session TP73.

Zhang, Y.; Chen, R. F. and Wang, X. Laser-Induced Fluorescence Measurements of Natural and Anthropogenic Organic Compounds in Coastal Marine Sediments. American Geophysical Union, 2002 Ocean Sciences Meeting, Honolulu, Hawaii. February 2002. Session OS12A.

Chen, R. F.; Gardner. G. B.; Zhang, Y. and Govignon-Berry, A. Chromophoric Dissolved Organic Matter (CDOM) in the Mississippi River Plume. American Geophysical Union, 2002 Ocean Sciences Meeting, Honolulu, Hawaii. February 2002. Session OS01.

Emsbo-Mattingly. S.; Douglas, H.; Beliveau, A.; Wojtas, M.; Zhang, Y. and Ferro, H. The Analysis of PCBs in New Bedford Harbor Sediments: Selecting and Optimizing Immunoassay, GC/ECD, and GC/MS Methods Based on Multiple Site-Specific DQOs. The Annual International Conference on Soils, Sediments, Water, and Energy. Amherst, Massachusetts. October 2001. Environmental Forensics Session.

Chen, R. F.; Zhang, Y.; Vlahos, P. and Rudnick, S. M. The Fluorescence of Dissolved Organic Matter in the Mid-Atlantic Bight. American Society of Limnology and Oceanography, 2001 Aquatic Science Meeting, Albuquerque, New Mexico. February 2001. Session SS06-03.

Chen, R. F.; Gardner. G. B.; Zhang, Y.; Vlahos, P.; Wang, X. and Rudnick, S. M. Chromophoric Dissolved Organic Matter (CDOM) in Four US Estuaries. American Geophysical Union, 2000 Ocean Science Meeting, San Antonio, Texas. January 2000. Session OS21k-03.

Chen, R. F.; Rudnick, S. M. and Zhang, Y. Chromophoric Dissolved Organic Matter in the Chesapeake Bay. American Society of Limnology and Oceanography, 1999 Aquatic Science Meeting, Santa Fe, New Mexico. February 1999. Session SS34TU1130E.

Chen, R. F.; Gardner. G. B.; Rudnick, S. M. and Zhang, Y. High-Resolution, In Situ Optical Measurement of Dissolved Organic Components in Four US Estuaries. American Geophysical Union, 1999 Spring Meeting, Boston, Massachusetts. June 1999. Session OS22D-05.

Chen, R. F.; Jiang, Y.; Johnson, A.; Shull, D.; Siegener, R.; Vlahos, P. and Zhang, Y. Organic Carbon Cycling in Boston Harbor. American Geophysical Union, 1998 Spring Meeting, Boston, Massachusetts. May 1998. Session OS52B-05.

Chen, R. F.; Zhang, Y. and Rudnick, S. M. Optical Properties of Chromophoric Dissolved Organic Matter (CDOM) on the Mid-Atlantic Bight. American Geophysical Union, 1998 Ocean Science Meeting, San Diego, California. February 1998. Session OS21H-10.

Yixian Zhang, Ph.D

Senior Scientist

Zhang, Y. and Chen, R. F. Fluorescence Measurements of Coastal Marine Sediments. American Geophysical Union, 1998 Ocean Science Meeting, San Diego, California. February 1998. Session OS42N-11.

Zhang, Y. and Chen, R. F. Chromophoric Dissolved Organic Matter (CDOM) in the Mid-Atlantic Bight Measured by Absorption and Fluorescence. American Geophysical Union, 1996 Fall Meeting, San Francisco, California. December 1996. Session OC72B-10.

Key Projects:

- Task Manager/Project Scientist, Remedial Investigation and Clean-up, New Bedford Harbor Superfund Site, MA: More than 7 years of experience with the investigation and remediation of PCB-contaminated sediments at the site: 2001-2005 at Tetra Tech and 2006 - 2009 at Battelle. Responsibilities included providing technical expertise and oversight for multidisciplinary tasks, preparing and reviewing workplans, field sampling plans (FSPs), and quality assurance project plans (QAPPs), performing data interpretation to evaluate the effectiveness of various contaminant mitigation (e.g., dredging, capping) and source control measures, and preparing technical reports on study findings. Experience highlights included developing and comparing various field-screening, on-site, and off-site laboratory analytical approaches for obtaining fast-turnaround and cost-effective data, leading a sediment trap study to evaluate sediment transport due to natural processes and remediation activities, performing advanced fingerprinting and other environmental forensic techniques to determining the sources of re-deposited sediments, and participating in a study design to determine facilitated migration of PCBs through groundwater pathway into the harbor due to the co-presence of chlorinated solvents in the contamination source area.
- Project/Task Manager, Evaluation of Contaminant Release from Sediments, New Bedford Harbor Superfund Site, MA: The objectives of this multi-year research project were to better understand the release of PCBs from sediments into the water column under field conditions during active remedial dredging and non-dredging periods. Responsible for providing project/task management and overall scientific oversight. Prepared the project workplan and QAPP, coordinated field investigation activities, developed new analytical methods for C18 and solid phase microextraction (SPME) techniques in the laboratory, and evaluated the use of sediment traps, passive samplers including semipermeable membrane devices (SPMDs), SPME, and polyethylene devices (PEDs), as well as biomonitoring organisms (e.g. blue mussels) to measure sediment resuspension, transport, and release of bioavailable PCBs in the water column.
- Project Manager, Sediment Innovative Treatment Demonstration Project, Long Island Sound, NY: Managed testing of treated sediments to determine the feasibility and cost-effectiveness of using treated sediment for one or more beneficial uses (e.g., soil or aggregate manufacturing process). Responsibilities included Sampling and Analysis Plan (SAP) preparation, field sampling and analytical task management, and subcontractor coordination for this multi-phase project. Prepared final reports that summarized bulk chemistry of the treated sediments to evaluate direct exposure concerns and leachability testing results to determine contaminant mobility potential.
- Project/Task Manager, Dredged Material Testing, Various Locations in New England States: Managed physical, chemical, and biological testing of dredged material from various New England locations to evaluate potential environmental impacts as a result of ocean disposal of dredged material. Responsibilities included preparing project SAPs, managing analyses of water, sediment, and biological tissue samples for pesticides, PCBs, and PAHs in the laboratory, coordinating other physical, chemical, and biological testing tasks such as grain size and TOC measurements, trace metal analysis, acute and chronic bioassay and bioaccumulation tests, performing data interpretation, and preparing reports. The testing and data interpretation followed EPA/USACE guidance *"Evaluation of Dredged Material Proposed for Ocean Disposal—Testing Manual" (the "Green Book").*
- Project Manager, Analytical Chemistry, Bioaccumulation, and Benthic Infauna Community Analysis Support for Naval Station Sediment Total Maximum Daily Load (TMDL) Assessment, San Diego, CA: Managed the chemical analysis of water, sediment, and biota samples, sediment bioaccumulation tests, and benthic infauna community analysis. The final report incorporated sediment chemistry and benthic infauna results to assess sediment quality using statistical tools such as cluster and ordination analysis, principal components analysis (PCA), and multiple regression analysis.
- Technical Support, Ashtabula River Contaminated Sediment Remediation Dredging, OH: Served as technical expert for the extensive monitoring effort during the pre- and post-dredging phases to measure sediment residuals and immediate and long-term impacts of contaminant removal on the ecosystem. Major author of the monitoring program design, QAPP, and data interpretation report regarding the innovative field assessment devices such as SPME, PED, and bio-monitoring techniques.
- Project Manager, Analytical Method Development for Emerging Contaminants: Managed the method development effort in the laboratory for emerging contaminants including pharmaceuticals and personal care products (PPCPs) such as prescription and nonprescription drugs, steroids, and hormones, as well as brominated flame retardants such as polybrominated diphenyl ethers (PBDEs).
- Task Manager/Project Scientist, Navel Weapons Industrial Reserve Plant, MA: An *in situ* thermal treatment system using electrical resistance heating (ERH) technology was implemented to further clean up the residual chlorinated solvents and BETX contamination in soil and groundwater of two areas at the site. Responsibilities included managing project chemistry task and preparing final report to evaluate the ERH treatment efficiency and whether natural attenuation was occurring after the treatment.
- Task Manager/Project Scientist, Navy Tank Farms 1, 2, 4 and 5, RI: Managed chemistry tasks to support on-going investigation and remediation activities including preparing project QA/QC plan, performing field screening tests (using PetroFlag) for rapid qualification of oil contamination in soil, coordinating subcontract labs, and performing data validation. The project was to further define the nature and extent of petroleum hydrocarbon contamination in the soil and groundwater, and to perform necessary clean-up for the purpose of reuse of the area as a golf course.

APPENDIX B

Quality Assurance Glossary

APPENDIX B

Quality Assurance Glossary

"Alteration" means altering a sample collected for analysis in any way other than by adding a preservative, such as nitric acid to lower pH. Examples of alteration include, but are not limited to: filtering, settling and decanting, centrifuging and decanting and acid extracting.

“Analytical Services Protocol” or "ASP" means DEC’s compilation of approved EPA laboratory methods for sample preparation, analysis and data handling procedures.

“Correlation sample” means a sample taken, when using a field-testing technology, to be analyzed by an ELAP-certified laboratory to determine the correlation between the laboratory and field analytical results.

"Effective solubility" means the theoretical aqueous solubility of an organic constituent in groundwater that is in chemical equilibrium with a separate-phase (NAPL) mixed product (product containing several organic chemicals). The effective solubility of a particular organic chemical can be estimated by multiplying its mole fraction in the product mixture by its pure-phase solubility.

“Environmental Laboratory Accreditation Program” or “ELAP” means a program conducted by the NYSDOH which certifies environmental laboratories through on-site inspections and evaluation of principles of credentials and proficiency testing. Information regarding ELAP is available at the NYSDOH Wadsworth Laboratory website.

"Filtration" means the filtering of a groundwater or surface water sample, collected for metals analysis, at the time of collection and prior to preservation. Filtering includes but is not limited to the use of any membrane, fabric, paper or other filter medium, irrespective of pore size, to remove particulates from suspension.

“Final delineation sample” means a sample taken to make a decision regarding the extent of contamination at a site during the investigation and the design of the remedy or confirmation/documentation sampling during remedial construction, which is to be analyzed by an ELAP-certified laboratory.

“Intermediate sample” means a sample taken during the investigation or remediation process that will be followed by another sampling event to confirm that remediation was successful or to confirm that the extent of contamination has been defined to below a level of concern.

"Method detection limit" or "MDL" means the minimum concentration of a substance detected and which can be reported with a reasonable degree of accuracy. It is the lowest concentration that can be measured, a lab-specific number, developed from minimum detection limits, and is also referred to as the practical quantitation limit (PQL).

“Nephelometric Turbidity Unit” or "NTU" is the unit by which turbidity in a sample is measured.

"Preservation" means preventing the degradation of a sample due to precipitation, biological action, or other physical/chemical processes between the time of sample collection and analysis. The most common examples involve refrigeration at 4 degrees Celsius and lowering sample pH by the addition of acid to keep dissolved metals in solution or to reduce the biodegradation of dissolved organic analytes.

"Target analyte list" or "TAL" means the list of inorganic compounds/elements designated for analysis as contained in the version of the EPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration in effect as of the date on which the laboratory is performing the analysis. For the purpose of this chapter, a Target Analyte List scan means the analysis of a sample for Target Analyte List compounds/elements.

"Targeted compound" means a contaminant for which a specific analytical method is designed to detect that potential contaminant both qualitatively and quantitatively.

"Target compound list plus 30" or "TCL+30" means the list of organic compounds designated for analysis (TCL) as contained in the version of the EPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration in effect as of the date on which the laboratory is performing the analysis, and up to 30 non-targeted organic compounds (plus 30) as detected by gas chromatography/mass spectroscopy (GC/MS) analysis.

“Tentatively identified compound or TIC" means a chemical compound that is not on the target compound list but is detected in a sample analyzed by a GC/MS analytical method. TICs are only possible with methods using mass spectrometry as the detection technique. The compound is tentatively identified using a mass spectral instrumental electronic library search and the concentration of the compound estimated.

"Well development" means the application of energy to a newly installed well to establish a good hydraulic connection between the well and the surrounding formation. During development, fine-grained formation material that may have infiltrated the sand pack and/or well during installation is removed, allowing water from the formation to enter the well without becoming turbid and unrepresentative of groundwater in the formation.

APPENDIX E

Site Health and Safety Plan

May 22, 2017

SITE-SPECIFIC HEALTH AND SAFETY PLAN

207th Street/9th Avenue
NYSDEC BCP Site No. C231102
3875 9th Avenue
New York, New York 10034

Prepared for

J.207 ST. LLC and MFC REALTY CORP.
15 Verbena Avenue, 2nd Floor
Floral Park, New York 11001

ROUX ASSOCIATES, INC.

Environmental Consulting & Management

ROUX

209 Shafter Street, Islandia, New York 11749 ♦ 631-232-2600

TABLE OF CONTENTS

APPROVALS iv

1.0 INTRODUCTION 1
1.1 Scope of Work 1

2.0 EMERGENCY INFORMATION AND NOTIFICATION 2
2.1 Notification 2

3.0 HEALTH AND SAFETY PERSONNEL 4

4.0 SITE LOCATION, DESCRIPTION, AND HISTORY 6
4.1 Property Location and Description 6

5.0 WASTE DESCRIPTION/CHARACTERIZATION 7
5.1 General 7
5.2 Chemical Data Sheets 7
5.2.1 Contaminants of Concern 7

6.0 HAZARD ASSESSMENT 8
6.1 Chemical Hazards 8
6.1.1 Exposure Pathways 8
6.1.2 Operational Action Levels 9
6.1.3 Additional Precautions 9
6.2 Physical Hazards 9
6.2.1 Heat Stress 9
6.2.2 Cold Stress 11
6.3 Biological Hazards 11
6.3.1 Insect Stings 12
6.3.2 Animals and Animal Wastes 12
6.3.3 Bloodborne Pathogens 12
6.4 Hazard Assessment 14

7.0 TRAINING 15
7.1 General Health and Safety Training 15
7.2 Annual Eight-Hour Refresher Training 15
7.3 Site-Specific Training 15
7.4 Onsite Safety Meetings 16
7.5 First Aid and CPR 16
7.6 Additional Training / Procedures 16

8.0 MEDICAL SURVEILLANCE PROCEDURES 17
8.1 General 17

9.0 SITE CONTROL, PERSONAL PROTECTIVE EQUIPMENT, AND COMMUNICATIONS 18
9.1 Site Control 18
9.1.1 Support Zone 18
9.1.2 Contamination Reduction Zone 18
9.1.3 Exclusion Zone 19
9.2 Personal Protective Equipment 19
9.2.1 Personal Protective Equipment Specifications 19

TABLE OF CONTENTS

(Continued)

9.2.2 Site Specific Levels of Protection....21
9.3 Communications....22

10.0 MONITORING PROCEDURES....23
10.1 General....23
10.2 Instrumentation....23
10.3 Action Levels....24

11.0 SAFETY CONSIDERATIONS....25
11.1 General....25
11.2 Sample Handling....26

12.0 DECONTAMINATION AND DISPOSAL PROCEDURES....27
12.1 Contamination Prevention....27
12.2 Personnel Decontamination....27
12.3 Equipment Decontamination....27
12.4 Decontamination during Medical Emergencies....28
12.5 Disposal Procedures....28

13.0 EMERGENCY PLAN....29
13.1 Evacuation....29
13.2 Personnel Injury....30
13.3 Accident/Incident Reporting....31
13.4 Personnel Exposure....31
13.5 Adverse Weather Conditions....32
13.5.1 Electrical Storm Guidelines....32

14.0 LOGS, REPORTS AND RECORD KEEPING....33
14.1 Medical and Training Records....33
14.2 Onsite Log....33
14.3 Exposure Records....33
14.4 Health and Safety Lessons Learned Reports....33
14.5 Accident/Incident Reports....33
14.6 OSHA Form 300....34
14.7 Daily Health and Safety Briefing....34

15.0 FIELD TEAM REVIEW....35

TABLES

1. Toxicological, Physical and Chemical Properties of Compounds Potentially Present at the Site
2. Action Levels for Worker Breathing Zone

FIGURES

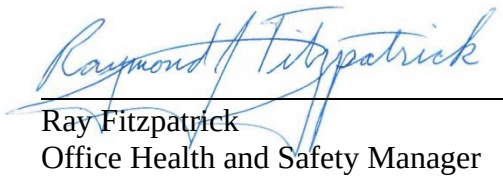
1. Site Location Map
2. Hospital Route Map
3. Health Clinic Route Map

APPENDICES

A. Job Safety and Health (OSHA) Poster
B. Material Safety Data Sheets (MSDS)
C. Job Safety Analysis
D. Heat and Cold Stress Guidelines
E. Health and Safety Briefing/Tailgate Meeting Form
F. Medical Data Form
G. Generic Community Air Monitoring Plan
H. Carbon Monoxide Guidance
I. Utility Clearance
J. Heavy Equipment Exclusion Zone
K. Accident Report and Investigation Form
L. Acord Automobile Loss Form
M. Health & Safety Lessons Learned Form
N. OSHA Log of Occupational Injuries and Illnesses

APPROVALS

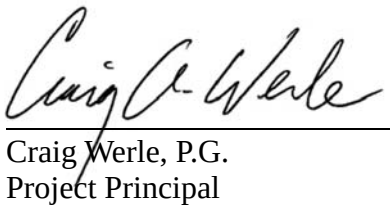
By their signature, the undersigned certify that this Health and Safety Plan (HASP) is approved and will be utilized at the project site located at 3875 9th Avenue, New York, New York 10034.



February 5, 2016

Ray Fitzpatrick
Office Health and Safety Manager
Roux Associates, Inc.

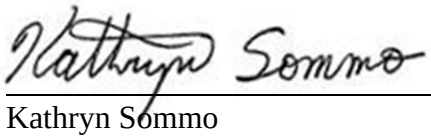
Date



February 5, 2016

Craig Werle, P.G.
Project Principal
Roux Associates, Inc.

Date



February 5, 2016

Kathryn Sommo
Project Manager/SHSO
Roux Associates, Inc.

Date

1.0 INTRODUCTION

This Site-specific Health and Safety Plan (HASP) has been prepared in accordance with 29 CFR 1910.120 Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) and Roux Associates, Inc. (Roux Associates) Standard Operating Procedures (SOPs) and other OSHA requirements for job safety and health protection (Appendix A). It addresses all activities described below that are associated with the property located at 3875 9th Avenue, New York, New York (Site). The location of the Site is presented in Figure 1. The HASP will be implemented by the designated Site Health and Safety Officer (SSO) during work at the Site. The HASP attempts to identify all potential hazards at the Site; however, Site conditions are dynamic and new hazards may appear constantly. Personnel must remain alert to existing and potential hazards as Site conditions change and protect themselves accordingly.

Compliance with this HASP is required of all persons and subcontractors who perform fieldwork or enter the Site. The contents of this HASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the technical scope of work. Any changes proposed must be reviewed and approved by the Office Health and Safety Manager (OHSM), with the SSO implementing the changes to the HASP.

Prior to performing work each task should be evaluated to determine the appropriate procedures that need to be followed.

1.1 Scope of Work

In general, the tasks will include the following:

- Implementation of Remedial Investigation (RI) activities consisting of monitoring well installation, groundwater sampling, soil vapor sampling, and soil borings/sampling.

Any change in scope will require a revision of this HASP to address any new hazards.

2.0 EMERGENCY INFORMATION AND NOTIFICATION

Multiple emergency services may be obtained by calling 911. More specific numbers for local services are listed below.

Emergency Medical Service 911

Police: New York City Police Department 911

Fire: NYC Fire Department 911

CityMD Occupational Health Center 866-819-1071

Hospital: New York Hospital Queens 212-932-4000

National Response Center 800-424-8802

Poison Control Center 800-222-1222

CHEMTREC 800-262-8200

Center for Disease Control 800-311-3435

USEPA (Region II) 212-637-5000

NYSDEC Emergency Spill Response 800-457-7362

AllOne Health Care Management 800-350-4511
(For all medical services)

Directions and maps to the Hospital and the Clinic are provided in Figures 2 and 3, respectively.

2.1 Notification

As soon as first aid and/or emergency response needs have been met, the following parties are to be contacted by telephone: (Direct contact, no phone messages).

		Office:	**Cell:**
1. Project Principal:	Craig Werle	(631) 232-2600	(631) 793-1535
2. Project Manager/SHSO:	Kathryn Sommo	(631) 232-2600	(631) 445-0585
3. Field Manager:	Kathryn Sommo	(631) 232-2600	(631) 445-0585
4. Office Health and Safety Manager:	Ray Fitzpatrick	(631) 232-2600	(631) 484-1168
5. Corporate Health & Safety Manager:	Joseph Gentile	(856) 832-3768	(610) 844-6911
4. Office Manager:	Brian Morrissey	(631) 232-2600	(631) 921-6355

Call AllOne Health at 1-800-350-4511, Press 1 to report an injury. Follow the instructions as outlined in the AllOne Health Poster (attached with Figure 3). Accident reporting guidelines are outlined in section 13.5 of this HASP.

3.0 HEALTH AND SAFETY PERSONNEL

This section briefly describes all Site personnel and their health and safety responsibilities for the RI work to be implemented at the Site. All personnel are responsible for ensuring compliance with the HASP.

Project Principal (PP) – Craig Werle – Roux Associates

- Has the overall responsibility for the health and safety of Site personnel.
- Ensures that adequate resources are provided to the field health and safety staff to carry out their responsibilities as outlined below.

Office Health and Safety Manager (OHSM) – Ray Fitzpatrick – Roux Associates

- Implements the HASP.
- Performs or oversees site-specific training and approves revised or new safety protocols or field operations.
- Coordinates revisions of this HASP with Project Principal.
- Responsible for the development of new task safety protocols and procedures and resolution of any outstanding safety issues which may arise during the performance of site work.
- Review and approve all health and safety training and medical surveillance records for personnel and subcontractors.

Site Safety and Health Officer (SSO) – Kathryn Sommo – Roux Associates

- Directs and coordinates health and safety monitoring activities.
- Ensures that field teams utilize proper personal protective equipment.
- Conducts initial onsite specific training prior to personnel and/or subcontractors commencing work.
- Conducts and documents daily pre-job safety briefings.
- Ensures that field team members comply with this HASP.
- Completes and maintains all accident investigation and reporting forms.
- Notifies PP, PM and OHSM of all accidents/incidents.

- Notifies PP of daily field operations and work progress, who will then communicate at the end of the day to the designated representative the following:
    1. End of day tasks completed
    2. Next day's planned activities
    3. Third party issues
    4. Change of Plans – approvals
- Determines upgrade or downgrade of personal protective equipment (PPE) based on Site conditions and/or real time monitoring results.
- Ensures that monitoring instruments are calibrated daily or as manufacturers suggested instructions determine.
- Submits and maintains health and safety field log books, daily safety logs, training logs, air monitoring result reports, weekly safety report.

Field Personnel and Subcontractors

- Report any unsafe or potentially hazardous conditions to the SSO.
- Maintain knowledge of the information, instructions, and emergency response actions contained in the HASP.
- Comply with rules, regulations, and procedures as set forth in this HASP and any revisions, which are instituted.
- Prevent admittance to work Site by unauthorized personnel.

In the case that there is a change in any of the above personnel, all onsite personnel will be notified of the change. The new responsible party shall review and sign that they have been given a documented verbal full HASP review by Roux Associates and are aware of their responsibilities as outlined in this HASP.

4.0 SITE LOCATION, DESCRIPTION, AND HISTORY

Descriptions of the Site and surrounding property usage are included in the following sections. The location of the Site is presented in Figure 1.

4.1 Property Location and Description

The Site is identified as Block 2188, Lots 1 and 10 on the New York City tax maps. The Site is located at 3875 9th Avenue in the Inwood section of Manhattan, New York.

The Site is currently used as a (attended pay-to-park) parking lot. The development project consists of a newly constructed multi-story building which will house residential units (affordable housing), community/ facility center, retail space, and parking. The development project consists of new construction of three buildings as a slab on grade with no cellar. The estimated construction is grade beams on piles and the grade beams are expected to be four feet deep below the slab.

Based upon the Phase I ESA, potential recognized environmental conditions (REC) on site consist of:

- An auto repair garage with potential for undocumented underground storage tanks located in the southwestern section of Lot 1 and auto wrecking in the northwestern section of Lot 1 from 1930's to at least the 1950's. Other Site uses included: houseboat mooring; trailer parking; dumping; and vacant land.
- The eastern portion of the property was part of the Harlem River until filling activities occurred between 1951 and 1968. The fill material was of unknown origin and the former Harlem River bed may contain hazardous materials.
- The surrounding area historically included a laundry and cleaner (which may have used petroleum based solvents based on their age), a carpet cleaner (which may have used chlorinated solvents based on its age), a boat works, filling stations, garages with gasoline USTs, auto repair shops, and factories. A large rail yard was constructed north and northwest of the Property across 9th Avenue between 1922 and 1928.

5.0 WASTE DESCRIPTION/CHARACTERIZATION

5.1 General

The following information is presented in order to identify the types of materials that may be encountered at the Site. The detailed information on these materials was obtained from:

- Sax's Dangerous Properties of Industrial Materials – Lewis Twelfth Edition
- Chemical Hazards of the Workplace – Proctor/Hughes
- Condensed Chemical Dictionary – Hawley
- Rapid Guide to Hazardous Chemical in the Workplace – Lewis 1990
- NIOSH Pocket Guide to Chemical Hazards – 2005
- ACGIH TLV Values and Biological Exposure Indices
- OSHA 29 CFR 1910.1000

5.2 Chemical Data Sheets

Several chemicals that may potentially be present in soils and groundwater at the Site, will be determined based upon Phase II investigation work through soil, soil vapor and groundwater sampling results and historic operations conducted at the Site. The Summary of Toxicological Data is found in Table 1 and is provided for review of chemicals that may be encountered. The Summary of Toxicological Data Sheets provides information such as the chemicals characteristics, health hazards, protection, and exposure limits. Material Safety Data Sheets (MSDSs) for products that have been identified at the Site are available for review by project personnel (Appendix B).

5.2.1 Contaminants of Concern

Soil and groundwater contaminants that may be encountered during drilling and sampling activities include both organic and inorganic compounds. Investigations at the Site may indicate the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/PCBs, and filtered and unfiltered metals in soil. The toxicological, physical, and chemical properties of potential contaminants are presented in Table 1, and identified contaminants are presented in Appendix B.

6.0 HAZARD ASSESSMENT

The potential to encounter chemical hazards is dependent upon the work activity performed (intrusive versus non-intrusive) and the duration and location of the work activity. Such hazards could include inhalation and/or skin contact with chemicals/gases that could cause: dermatitis, skin burns, being overcome by vapors or asphyxiation.

Physical hazards that may be encountered during Site work include heat and cold stress, being crushed, head injuries, punctures, cuts, falls, electrocution, bruises and other physical hazards due to motor vehicle operation, equipment use and power tools

Biological hazards may exist during Site activities. These hazards include exposure to insect bites/stings, animals and animal wastes, mold and blood borne pathogens.

Prior to the beginning of each new phase of work, a job safety analysis (JSA) (Appendix C) will be prepared by the SSO with assistance from the OHSM. The analysis will address the hazards for each activity performed in the phase and will present the procedures and safeguards necessary to eliminate the hazards or reduce the risk. JSAs for each task will be reviewed with onsite personnel at each morning tailgate meeting and as tasks change throughout the day.

6.1 Chemical Hazards

The potential for personnel and subcontractors to come in contact with chemical hazards may occur during the following tasks:

- Installation and sampling of soil borings.
- Installation, gauging, purging and sampling of temporary monitoring wells.
- Installation and sampling of soil vapor points.

For chronic and acute toxicity data, refer to Summary of Toxicological Data Sheets (Table 1) and MSDSs (Appendix B) for further details on compound characteristics.

6.1.1 Exposure Pathways

Exposure to these compounds during ongoing activities may occur through inhalation of contaminated dust particles, inhalation of VOCs and SVOCs, dermal absorption, and accidental ingestion of the contaminant by either direct or indirect cross-contamination activities.

6.1.2 Operational Action Levels

A decision-making protocol for an upgrade in levels of protection and/or withdrawal of personnel from an area based on exposure levels is outlined in Table 2.

6.1.3 Additional Precautions

Dermal absorption or skin contact with chemical compounds is possible during intrusive activities and while gauging, purging or sampling a monitoring well at the Site. The use of PPE in accordance with Section 8.2 and strict adherence to proper decontamination procedures should significantly reduce the risk of skin contact.

The potential for accidental ingestion of potentially hazardous chemicals is expected to be remote, when good hygiene practices are used.

6.2 Physical Hazards

A variety of physical hazards may be present during Site activities. These hazards are similar to those associated with any construction-type project and include equipment operation and hazardous walking and working surfaces. The referenced hazards are not unique and are generally familiar to most hazardous waste site workers at construction sites. Task-specific safety requirements for each phase will be covered during safety briefings.

6.2.1 Heat Stress

Heat stress is a significant potential hazard, associated with the use of protective equipment in a hot weather environment. The human body is designed to function at a certain internal temperature. When metabolism or external sources (fire or hot summer day) cause the body temperature to rise, the body seeks to protect itself by triggering cooling mechanisms. The SSO will monitor the air temperature (as described later in this section) to determine potential adverse effects the weather can cause onsite personnel. Excess heat is dissipated by two means:

- Changes in blood flow to dissipate heat by convection, which can be seen as "flushing" or reddening of the skin in extreme cases.
- Perspiration, the release of water through skin and sweat glands. While working in hot environments, evaporation of perspiration is the primary cooling mechanism.

Protective clothing worn to guard against chemical contact effectively stops the evaporation of perspiration. Thus the use of protective clothing increases heat stress problems.

The major disorders due to heat stress are heat cramps, heat exhaustion, and heat stroke. Heat cramps are painful spasms, which occur in the skeletal muscles of workers who sweat profusely in the heat and drink large quantities of water, but fail to replace the bodies lost salts or electrolytes. Drinking water while continuing to lose salt tends to dilute the body's extracellular fluids. Soon water seeps by osmosis into active muscles and causes pain. Muscles fatigued from work are usually most susceptible to cramps.

Extreme weakness or fatigue, dizziness, nausea, and headache characterize heat exhaustion. In serious cases, a person may vomit or lose consciousness. The skin is clammy and moist, complexion pale or flushed, and body temperature normal or slightly higher than normal. Treatment is rest in a cool place and replacement of body water lost by perspiration. Mild cases may recover spontaneously with this treatment; severe cases may require care for several days. There are no permanent effects. As first aid treatment, the person shall be moved to a cool place. Body heat should be reduced artificially, but not too rapidly, by soaking the person's clothes in water and fanning them.

Heat stroke is considered a medical emergency and is caused by the breakdown of the body's regulating mechanisms. The skin is very dry and hot with red mottled or bluish appearance. Unconsciousness, mental confusion, or convulsions may occur. Without quick and adequate treatment, the result can be death or permanent brain damage.

Steps that can be taken to reduce heat stress are:

- Acclimate the body. Allow a period of adjustment to make further heat exposure endurable.
- Drink more liquids to replace the body water lost during sweating.
- Rest is necessary and should be conducted under the direction of the SSO.
- Wear personal cooling devices. These are two basic designs; units with pockets for holding frozen packets and units that circulate fluid from a reservoir through tubes to different parts of the body. Both designs can be in the form of a vest, jacket, or coverall. Some circulating units also have a cap for cooling the head.

Heat stress is a significant hazard associated with using protective equipment in hot weather environments. Local weather conditions may produce conditions, which will require restricted work schedules in order to protect employees.

Appendix D contains procedures for heat stress; these will be used as a guideline and to provide additional information.

6.2.2 Cold Stress

Cold temperatures are a significant potential hazard. Examples of cold temperature hazards are frostbite and hypothermia.

Frostbite is the most common injury resulting from exposure to cold. The extremities of the body are most often affected. The signs of frostbite are:

- The skin turns white or grayish-yellow.
- Pain is sometimes felt early but subsides later. Often there is no pain.
- The affected parts feel intensely cold and numb.

Hypothermia is characterized by shivering, numbness, drowsiness, muscular weakness, and a low internal body temperature when the body feels extremely warm. This can lead to unconsciousness and death. With both frostbite and hypothermia, the affected areas need to be warmed quickly. Immersion in warm water is an effective means of warming the affected areas quickly. In such cases, medical assistance will be sought.

To prevent these effects from occurring, persons working in the cold shall wear adequate clothing and reduce the time spent in the cold area. The field SSO is responsible for determining appropriate time personnel shall spend in adverse weather conditions and will monitor this.

Appendix D, which contains the Heat and Cold Stress Guidelines, provides additional information.

6.3 Biological Hazards

The biological hazards, which have the potential to cause adverse health effects, are from exposure to domestic flies, mosquitoes, insects, animals and animal wastes, mold and bloodborne pathogens.

6.3.1 Insect Stings

Stings from insects are often painful, cause swelling and can be fatal if a severe allergic reaction such as anaphylactic shock occurs. If a sting occurs, the stinger should be scraped out of the skin, opposite of the sting direction. The area should be washed with soap and water followed by application of an ice pack.

If the victim has a history of allergic reaction, he shall be taken to the nearest medical facility. If the victim has medication to reverse the effects of the sting, it should be taken immediately.

If the victim experiences a severe reaction, a constricting band should be placed between the sting and the heart. The bitten area should be kept below the heart if possible. A physician shall be contacted immediately for further instructions.

6.3.2 Animals and Animal Wastes

There is the potential for various wildlife at the site, including, but not limited to, pigeons, bats, mice, rats, squirrels, and raccoons. Certain animals can represent significant sources (vectors) of disease transmission. Precautions to avoid or minimize potential contact with (biting) animals (such as some of the above listed) or animal waste and/or deceased animals should be considered prior to all field activities. Rats, squirrels, raccoons, and other wild animals can inflict painful bites which can also cause disease (as in the case of rabid animals). Site personnel should avoid contact with any of the above.

If contact occurs, be sure to clean the area thoroughly with soap and water as soon as possible. If a bite occurs, the area shall be cleaned thoroughly immediately with soap and water and medical attention shall be sought.

6.3.3 Bloodborne Pathogens

The majority of the occupational tasks onsite will not involve a significant risk of exposure to blood, blood components, or body fluids. The highest risk of acquiring any bloodborne pathogen for onsite employees will be following an injury. When administering first aid care, there are potential hazards associated with bloodborne pathogens that cause diseases such as Human Immunodeficiency Virus (HIV), Hepatitis B (HBV), Hepatitis A (HAV), Hepatitis C (HCV), or the

Herpes Simplex Virus (HSV). An employee who has not received the appropriate certification should never execute first aid and/or CPR.

In order to minimize any potential pathogen exposure, all employees should use the hand washing facilities on a regular basis. Additionally, the following universal precautions shall be followed to prevent further potential risk:

- Direct skin or mucous membrane contact with blood shall be avoided.
- Open skin cuts or sores shall be covered to prevent contamination from infectious agents.
- Body parts shall be washed immediately after contact with blood or body fluids that might contain blood, even when gloves or other barriers have been used.
- Gloves and disposable materials used to clean spilled blood shall be properly disposed of in an approved hazardous waste container.
- First aid responders shall wear latex or thin mil nitrile gloves when performing any procedure risking contact with blood or body substances.
- Safety glasses with attached side shields will be worn to protect the eyes from splashing or aerosolization of body fluids.
- A CPR mask will be worn when performing CPR to avoid mouth-to-mouth contact.
- Appropriate work gloves will be worn to minimize the risk of injury to the hands and fingers when working on all equipment with sharp or rough edges.
- Never pick up broken glass or possible contaminated material with your unprotected hands.
- Never handle wildlife (living or deceased) encountered onsite.

6.4 Hazard Assessment

Task	Hazards	Risk of Exposure
Installation, gauging, purging and sampling of Temporary Monitoring Wells	Inhalation/Skin Contact	Moderate/High
	Heat Stress/Cold Stress	Moderate
	Physical Injury	Moderate
Installation and sampling of Soil Borings	Inhalation/Skin Contact	Moderate/High
	Heat Stress/Cold Stress	Moderate
	Physical Injury	Moderate
Installation and sampling of Soil Vapor Points	Inhalation	Moderate/High
	Heat Stress/Cold Stress	Moderate
	Physical Injury	Moderate

7.0 TRAINING

7.1 General Health and Safety Training

In accordance with Roux Associates' corporate policies, and pursuant to 29 CFR 1910.120, hazardous waste site workers shall, at the time of the job assignment, have received a minimum of 40 hours of initial health and safety training for hazardous waste site operations. As a minimum, the training shall have consisted of instruction in the topics outlined in the above reference. Personnel who have not met the requirements for initial training will not be allowed to work in any Site activities in which they may be exposed to hazards (chemical or physical).

Completion of a 40-hour Health and Safety Training Course for Hazardous Waste Operations or an approved equivalent will fulfill the requirements of this section.

Roux Associates' SSO has the responsibility of ensuring that personnel assigned to this project comply with these requirements.

7.2 Annual Eight-Hour Refresher Training

Current, annual 8-hour refresher training will be required of all hazardous waste site field personnel in order to maintain their qualifications for fieldwork. The following topics will be reviewed; toxicology, respiratory protection, medical surveillance, decontamination procedures, and personal protective clothing. In addition, topics deemed necessary by Roux Associates' Health and Safety Director may be added to the above list.

7.3 Site-Specific Training

Site personnel will receive documented training that will specifically address the activities, procedures, monitoring and equipment for Site operations. It will include Site and facility layout, hazards, first aid equipment locations and emergency services at the Site, and will highlight all provisions contained within this HASP. This training will also allow field workers to clarify anything they do not understand and to reinforce their responsibilities regarding safety and operations for their particular activity.

7.4 Onsite Safety Meetings

Daily-documented (Appendix E) pre-work safety meetings will be presented each morning to discuss the scope-of-work for that day, potential safety concerns and control measures for those identified safety hazards as per the JSAs (Appendix C) for the upcoming activities.

The briefings will also provide a forum to facilitate conformance with safety requirements and to identify performance deficiencies related to safety during daily activities or as a result of safety audits by Roux Associates or other involved parties.

7.5 First Aid and CPR

The SSO will identify those individuals having first aid and CPR training in order to ensure that emergency medical treatment is available during field activities. The training will be consistent with the requirements of the American Red Cross Association and, as applicable, the American Heart Association. Certification and appropriate training documentation will be kept with the Site personnel records.

7.6 Additional Training / Procedures

The OHSM may require additional or specialized training throughout the project. Such training shall be in the safe operation of heavy or power tool equipment or hazard communication training or other topic deemed Site appropriate.

8.0 MEDICAL SURVEILLANCE PROCEDURES

8.1 General

A Medical Surveillance Program has been established as part of this plan and is included in Appendix F. Roux Associates and subcontractor personnel performing field work at the Site are required to have passed a complete medical surveillance examination in accordance with 29 CFR 1910.120(f). A physician's medical release for work will be confirmed by the SSO before an employee can begin Site activities. Such examinations shall include a statement as to the worker's present health status, the ability to work in a hazardous environment (including any required PPE, which may be used during temperature extremes), and the worker's ability to wear respiratory protection.

In the event that personal medical information is needed for emergency treatment, information will be made available to the treating health care professional through Roux Associates' Human Resources Department and the OHSM.

9.0 SITE CONTROL, PERSONAL PROTECTIVE EQUIPMENT, AND COMMUNICATIONS

A modified Site control approach may be utilized since activities will be limited to site inspection and groundwater sampling. If additional work is necessary, the following four-zone approach will be used in order to prevent the spread of contamination from the disturbed areas onsite.

9.1 Site Control

If remedial activities are necessary, a four-zone approach will be employed. The four zones include: the Exclusion Zone (EZ), the Contamination Reduction Zone (CRZ), Contamination Reduction Corridor (CRC) and the Support Zone (SZ). A stepped remedial approach will be managed and the zones modified as the work progresses. Each of the areas will be defined through the use of control barricades and/or construction/hazard fencing. A clearly marked delineation between the SZ and the remaining three zones, the CRZ, CRC and EZ, will be maintained. The preferred method will utilize high visibility orange fencing and hand-driven metal posts, or orange cones. Signage will be posted to further identify and delineate these areas.

9.1.1 Support Zone

The Support Zone (SZ) is an uncontaminated area that will be the field support area for the Site operations. The SZ will contain the temporary project trailers and provides for field team communications and staging for emergency response. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated personnel or materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples. Meteorological conditions will be observed and noted from this zone, as well as those factors pertinent to heat and cold stress.

9.1.2 Contamination Reduction Zone

A Contamination Reduction Zone (CRZ) is established between the exclusion zone and the support zone. The CRZ contains the Contamination Reduction Corridor (CRC) and provides an area for decontamination of personnel and equipment. The CRZ will be used for general Site entry and egress in addition to access for heavy equipment and emergency support services. Personnel are not allowed in the CRZ without:

- A buddy (co-worker);
- Appropriate PPE;

- Medical authorization;
- Training certification; and
- A need to be in the zone.

9.1.3 Exclusion Zone

The area where contamination exists is considered to be the Exclusion Zone (EZ). All areas where excavation and handling of contaminated materials take place are considered the EZ. This zone will be clearly delineated by orange high visibility fencing. Safety tape may be used as a secondary delineation within the EZ. The zone delineation markings may be opened in areas for varying lengths of time to accommodate equipment operation or specific construction activities. The SSO may establish more than one EZ where different levels of protection may be employed or where different hazards exist. Personnel are not allowed in the EZ without:

- A buddy (co-worker);
- Required minimum-level PPE;
- Medical authorization;
- Training certification; and
- A need to be in the zone.

9.2 Personal Protective Equipment

The level of protection worn by field personnel will be enforced by the SSO. Levels of protection for general operations are provided below and are defined in this section. Levels of protection may be upgraded at the discretion of the SSO. All decisions on the level of protection will be based upon a conservative interpretation by the SSO of the information provided by air monitoring results, environmental results and other appropriate information. Any changes in the level of protection shall be recorded in the health and safety field logbook.

9.2.1 Personal Protective Equipment Specifications

The initial level of personal protective equipment is Level D. It is not anticipated that either Level B or Level C protection will be necessary.

The Minimum level of PPE for entry onto the Site is Level D PPE. The following equipment shall be used:

- Work uniform (long pants, sleeved shirt)
- Hard hat
- Steel toe work boots
- Safety glasses with attached side shields
- Boot covers (as needed)
- Hearing protection (as needed)
- High visibility clothing (shirt or vest)

Modified Level D PPE consists of the following:

- Regular Tyvek coveralls (Poly-coated Tyvek as required)
- Outer gloves: cut-resistant, leather, cotton (as required)
- Inner gloves: latex or nitrile (doubled) as required
- Chemical resistant boots over work boots (as required)
- Steel toe work boots
- Hard hat Safety glasses with attached side shields
- Hearing protection as needed

High visibility clothing (shirt or vest). Although not anticipated, any tasks requiring Level B personal protective equipment (PPE) will utilize the following equipment:

- Positive pressure, full facepiece, self-contained breathing apparatus (SCBA) or positive pressure, supplied air respirator with escape SCBA (NIOSH approved)
- Disposable coveralls (Tyvek, Poly-coated Tyvek, or Saranex)
- Gloves, inner: latex or nitrile
- Gloves, outer: cut-resistant
- Chemical resistant boots over the work boots
- Steel toe work boots

- Hard hat
- Hearing protection (as needed)
- Boot cover (as needed)

High visibility clothing (shirt or vest). For tasks requiring Level C PPE, the following equipment may be used in any combination:

- Full-face, air purifying, canister-equipped respirators (NIOSH approved) utilizing Organic Vapor/Acid Gas and P-100 filters (half-face if approved by SSO)
- Disposable coveralls (Tyvek) as required
- Gloves, inner: latex or nitrile as required
- Gloves, outer: cut-resistant
- Chemical resistant boots over the work boots as required
- Steel toe work boots
- Hard hat
- Hearing protection (as needed)
- Safety glasses with attached side shields (if half-mask is utilized)
- Boot covers (as needed)
- High visibility clothing (shirt or vest)

9.2.2 Site Specific Levels of Protection

Levels of protection for the proposed scope of work may be upgraded or downgraded depending on direct-reading instruments or personnel monitoring. The following are the initial levels of protection that shall be used for each planned field activity:

Activity	Initial Level of PPE
Installation, Gauging, Purging and Sampling of Temporary Monitoring Wells	D
Installation and sampling of Soil Borings	D
Installation and sampling of Soil Vapor Points	D

9.3 Communications

If working in level C/B respiratory protection is required, personnel may find that communication becomes a more difficult task and process to accomplish. Distance and space further complicate this. In order to address this problem, electronic instruments, mechanical devices, or hand signals will be used as follows:

Telephones – Mobile telephones will be carried by designated personnel for communication with emergency support services/facilities.

Radios – Two-way radios will be utilized onsite for communications between field personnel in areas where visual contact cannot be maintained and where hand signals cannot be employed.

Hand Signals – This communication method will be employed by members of the field team along with use of the buddy system. Signals become especially important when in the vicinity of heavy moving equipment and when using Level B respiratory equipment. The signals shall become familiar to the entire field team before Site operations commence, and will be reinforced and reviewed during site-specific training.

Signal	**Meaning**
Hand gripping throat	Out of air; can't breathe
Grip partner's wrist	Leave area immediately; no debate
Hands on top of head	Need assistance
Thumbs up	OK; I'm all right; I understand
Thumbs down	No; unable to understand you, I'm not all right

10.0 MONITORING PROCEDURES

10.1 General

Monitoring will be performed as necessary to verify the adequacy of respiratory protection, to aid in Site layout, and to document worker exposure. If real-time breathing zone air monitoring in these areas indicates the presence of potentially hazardous materials in exceedances of the Action Levels for Worker Breathing Zone (Table 2), the OHSM will be contacted and a plan for implementing appropriate control measures will be developed. A documented safety briefing to communicate the new procedures to onsite personnel will be conducted. All monitoring instruments shall be operated by qualified personnel only and will be calibrated daily prior to use or, more often, as necessary. Additional monitoring may be required if exclusion zones are employed for specific site activities. General air monitoring will be performed in accordance with the Generic Community Air Monitoring Plan included in Appendix G during intrusive Site activities.

10.2 Instrumentation

The following monitoring instruments will be available for use during field operations as necessary. There will be a minimum of one of each piece of equipment on the Site at all times during intrusive activities:

- Photoionization Detector (PID) with 10.6 EV probe or Flame Ionization Detector (FID) or equivalent.
- Dust/Particulate Monitor (DM), MIE Miniram, or equivalent.

A PID will be used to monitor VOCs in active work areas during intrusive activities. VOCs shall also be measured upwind of the work areas to determine background concentrations.

A particulate monitor shall be used to measure concentrations of dust and particulate matter.

When deemed necessary, a CGI/O_2/CO (or equivalent) meter shall be used to monitor for combustible gases, oxygen content and/ or carbon monoxide during confined space entry or when operating in areas with poor ventilation as the HSO deems necessary. Due to the high-frequency of heavy equipment use during site operations, the effect of carbon monoxide (CO) generation in breathing spaces can potentially be hazardous to Site personnel. As such, an assessment of health

hazards associated with CO, routes of exposure, symptoms of exposure, effects on human physiology, air concentration Action Levels and corresponding measures to mitigate exposure, and CO has been included in the toxicological Table 1 and Appendix H.

Calibration records shall be documented and recorded daily and included in the daily air monitoring report. This report will be specific to work area monitoring. All instruments shall be calibrated before and after each daily use in accordance with manufacturer's procedures.

10.3 Action Levels

Action levels for the upgrading of PPE requirements in the HASP will apply to all Site work during investigation and remediation activities at the Site. Action levels are for known contaminants using direct reading instruments in the Breathing Zone (BZ) for VOCs and particulates, and at the source for combustible gases. The BZ will be determined by the SSO, but is typically 4 to 5 feet above the work area surface or elevation. The action levels to be utilized for the Site are found in Table 2.

11.0 SAFETY CONSIDERATIONS

11.1 General

In addition to the specific requirements of this HASP, common sense should be used at all times.

The following general safety rules and practices will be in effect at the site.

- Ignition sources within 35 feet of potentially flammable or contaminated material are strictly prohibited.

- Movement of vehicles and equipment, and other activities will be planned and performed with consideration for the location, height, and relative position of aboveground utilities and fixtures, including signs; lights; canopies; buildings and other structures and construction; and natural features such as trees, boulders, bodies of water, and terrain.

- The protocol for exercises to be conducted prior to and during ground disturbance activities is explained in the Subsurface Structures Identification Procedure (included in Appendix I). The objective of the procedure is to prevent damage to subsurface structures during drilling, auguring, excavation, earthmoving, sampling, or other ground penetrating, intrusive, advancement operations. The proximity of chemical, water, sewer, and electrical lines will be identified by a utility mark-out service before any subsurface activity or sampling is attempted.

- The Roux Associates' Heavy Equipment Exclusion Zone (HEEZ) Policy is enclosed in Appendix J. Exclusion zones must be established and maintained during activities involving the movement/operation of heavy equipment. The purpose of the HEEZ is to establish the minimum clearance and delineate the distance that must be maintained between workers and the heavy equipment while the equipment is in operation (i.e. engaged or moving). The HEEZ policy applies to all personnel on the Site, but is primarily focused on those personnel who are required to be working in the vicinity of the equipment.

- Approved and appropriate safety equipment (as specified in this HASP), such as eye protection, hard hats, hand protection (nitrile, leather and/or cut resistant gloves as necessary), foot protection, and respirators, must be worn in areas where required.

- No eating, chewing tobacco, gum chewing or drinking will be allowed outside the SZ.

- Contaminated tools and hands must be kept away from the face.

- Personnel must use personal hygiene safe guards (washing up via hand towelettes or potable water) at the end of the shift.

- Each sample must be treated and handled as though it were contaminated.

- Persons with long hair and/or loose-fitting clothing that could become entangled in equipment (e.g., pumps, etc.) must take adequate precautions.

- Horseplay is prohibited in the work area.

- Work while under the influence of intoxicants, narcotics, or controlled substances is strictly prohibited.

11.2 Sample Handling

Personnel responsible for handling of samples will wear the prescribed modified Level D protection. Samples are to be identified as to their hazard and packaged as to prevent spillage or breakage. Any unusual sample conditions shall be noted. Laboratory personnel and all field personnel shall be advised of sample hazard levels and the potential contaminants present. This can be accomplished by a phone call to the lab coordinator and/or including a written statement with the samples reviewing lab safety procedures in handling in order to assure that the practices are appropriate for the suspected contaminants in the sample.

12.0 DECONTAMINATION AND DISPOSAL PROCEDURES

12.1 Contamination Prevention

Contamination prevention should minimize worker exposure and help ensure valid sample results by precluding cross-contamination. Procedures for contamination avoidance include:

Personnel

- Do not walk through areas of obvious or known contamination.
- Do not directly handle or touch contaminated materials.
- Make sure that there are no cuts or tears on PPE.
- Fasten all closures in suits; cover with tape, if necessary.
- Particular care should be taken to protect any skin injuries.
- Stay upwind of airborne contaminants.
- Do not carry cigarettes, cosmetics, gum, etc., into contaminated areas.

Sampling/Monitoring

- When required by the SSO, cover instruments with clear plastic, leaving openings for sampling ports and air exhaust.

12.2 Personnel Decontamination

If an exclusion zone (EZ) is employed at the site, a field wash for equipment and PPE shall be set up and maintained for all persons exiting the EZ. The system will include a gross wash and rinse for all disposable clothing and boots worn in the EZ. As necessary, equipment and facilities will be available for personnel to wash their hands, arms, neck, and face.

12.3 Equipment Decontamination

All potentially contaminated equipment used at the Site will be decontaminated to prevent contaminants from leaving the Site. The decontamination area will provide for the containment of all wastewater from the decontamination process. Respirators and any other PPE that comes in contact with contaminated materials shall pass through a field wash in the decontamination area, and a thorough decontamination at the end of the day. All decontamination rinse water will be collected and managed in accordance with all applicable regulations.

12.4 Decontamination during Medical Emergencies

If emergency life-saving first aid and/or medical treatment are required, normal decontamination procedures may need to be abbreviated or omitted. The Site SSO or designee will accompany contaminated victims to the medical facility to advise on matters involving decontamination, when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment, or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed, a plastic barrier between the individual and clean surfaces should be used to help prevent contaminating the inside of ambulances and/or medical personnel. Outer garments are then removed at the medical facility. Attempt to wash or rinse the victim if it is known that the individual has been contaminated with an extremely toxic or corrosive material, which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems (ambulatory) or injuries, the normal decontamination procedures will be followed. Note that heat stroke requires prompt treatment to prevent irreversible damage or death. Protective clothing must be promptly removed. Less serious forms of heat stress also require prompt attention and removal of protective clothing immediately. Unless the victim is obviously contaminated, decontamination should be omitted or minimized, and treatment begun immediately.

12.5 Disposal Procedures

A system of segregating all waste will be developed by the SSO.

All discarded materials, waste materials, or other objects shall be handled in such a way as to preclude the potential for spreading contamination, creating a sanitary hazard, or causing litter to be left onsite. All potentially contaminated materials (e.g., clothing, gloves, etc.,) will be bagged or drummed as necessary, labeled and segregated for disposal. All non-contaminated materials shall be collected, bagged and labeled for appropriate disposal as domestic waste. All waste materials will be staged at the site.

13.0 EMERGENCY PLAN

Should an emergency situation occur, the emergency plan, outlined in this section, shall be known by all onsite personnel prior to the start of work. The emergency plan will be available for use at all times during Site work. The plan provides the phone numbers for the fire, police, ambulance, hospital, poison control centers, and directions to the hospital from the Site. This information is to be found in Section 2 of this HASP.

Various individual Site characteristics will determine preliminary actions taken to assure that this emergency plan is successfully implemented in the event of a Site emergency. Careful consideration must be given to the proximity of neighborhood housing or places of employment, and to the relative possibility of Site release of vapors, which could affect the surrounding community.

The emergency coordinator shall implement the contingency plan whenever conditions at the Site warrant such action. The coordinator will be responsible for coordination of the evacuation, emergency treatment, and transport of Site personnel as necessary, and notification of emergency response units and the appropriate management staff.

In cases where the project principal or project manager is not available, the SSO shall serve as the alternate emergency coordinator.

The SSO during an emergency will perform air monitoring as needed, as well as lend assistance and provide health and safety information to responding emergency personnel.

Site Personnel will endeavor to keep non-essential personnel away from the incident until the appropriate emergency resources arrive. At that time the responders will take control of the Site. Site personnel may be asked to lend assistance to emergency personnel such as during evacuations, help with the injured, etc.

13.1 Evacuation

Evacuation procedures will be discussed prior to the start of work and periodically during safety meetings. In the event of an emergency situation, such as fire, or explosion, an air horn,

automobile horn, or other appropriate device will be sounded for three (3) sharp blasts indicating the initiation of evacuation procedures. The emergency evacuation route shall be known by all site workers. Under no circumstances will incoming personnel or visitors be allowed to proceed into the area once the emergency signal has been given. The SSO or project manager must ensure that access for emergency equipment is provided and that all combustion apparatuses have been shut down once the alarm has been sounded. All Site personnel will assemble in the designated nearest safe location. Once the safety of all personnel is established, the fire department and other emergency response groups will be notified by telephone of the emergency.

13.2 Personnel Injury

In the event of work-related injury or illness, employees are required to follow procedures outlined in Roux Associates' Corporate Standard Operating Procedure (SOP) 1.7 regarding the Medical Surveillance Program. All work-place injury and illness situations require Roux's Project and Corporate Management Team to be notified when and injury / illness incident occurs, and communication with the contracted Occupational Health Care Management Provider, AllOne Health, be initiated. AllOne Health (AOH) interactive communications process flow, which details both Roux Employee and AOH responsibilities, is provided with Figure 3.

If onsite personnel require any medical treatment, the following steps will be taken:

a. Notify Roux's Project and Corporate Management Team for any work-related injury and/or illness occurrence, and communicate with the contracted Occupational Health Care Management Provider, AllOne Health, immediately following the notification. AOH interactive communications process flow, detailing both the employee and AOH responsibilities, is provided with Figure 3.

b. Based on discussions with the Incident Management Team and AOH evaluation, of medical care beyond onsite First Aid is warranted transport the injured / ill person (IP) to Urgent Care Center, or notify the Fire Department or Ambulance Emergency service and request an ambulance or transport the victim to the hospital, and continue communications.

c. Decontaminate to the extent possible prior to administration of first aid or movement to medical or emergency facilities.

d. Medical support will be provided by onsite personnel trained and certified in First Aid, Cardio Pulmonary Resuscitation (CPR), Automatic External Defibrillation (AED), and Blood-Borne Pathogens (BBP) Awareness, until relieved by emergency medical services (EMS).

e. The SHO and Project Manager will perform a Loss Investigation (LI) and complete an Accident Report Form (ARF) which is attached as Appendix K. If a Roux employee is involved in a vehicular incident, the employee must also complete the Acord form Appendix L.

13.3 Accident/Incident Reporting

As soon as first aid and/or emergency response needs have been met, the following parties are to be contacted by telephone: (Direct contact, no phone messages).

		Office:	Cell:
1. Corporate Health & Safety Manager:	**Joseph Gentile**	**(856) 832-3768**	**(610) 844-6911**
2. Project Principal:	Craig Werle	(631) 232-2600	(631) 793-1535
3. Project Manager/SHSO:	Kathryn Sommo	(631) 232-2600	(631) 445-0585
4. Office Health and Safety Manager:	Ray Fitzpatrick	(631)-232-2600	(631) 484-1168

Written confirmations of verbal reports are to be submitted within 24 hours. The report form entitled "Accident Report and Investigation Form" (Appendix K) is to be used for this purpose. All representatives contacted by telephone are to receive a copy of this report. In addition to filling out the Accident Report and Investigation Form, if a Roux employee is involved in a motor vehicle accident, the employee must also complete the Acord form (Appendix L).

For reporting purposes, the term accident refers to fatalities, lost time injuries, spill or exposure to hazardous materials (radioactive materials, toxic materials, explosive or flammable materials), fire, explosion, property damage, or potential occurrence (i.e., near miss) of the above.

Any information released from the health care provider, which is not deemed confidential patient information, is to be attached to the appropriate form. Any medical information, which is released by patient consent, is to be filed in the individual's medical record and treated as confidential.

13.4 Personnel Exposure

Skin Contact:	Use copious amounts of soap and water. Wash/rinse affected area thoroughly, then provide appropriate medical attention. Eyes should be rinsed for 15 minutes upon chemical contamination.
Inhalation:	Move to fresh air and/or, if necessary, decontaminate/transport to hospital.

Ingestion: Decontamination and transport to emergency medical facility.

Puncture Wound or Laceration: Decontamination and transport to emergency medical facility.

13.5 Adverse Weather Conditions

In the event of adverse weather conditions, the SSO or project manager will determine if work can continue without sacrificing the health and safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related conditions.
- Limited visibility.
- Electrical storm potential.

Site activities will be limited to daylight hours and acceptable weather conditions. Inclement working conditions include heavy rain, fog, high winds, and lightning. Observe daily weather reports and evacuate if necessary in case of inclement weather conditions.

13.5.1 Electrical Storm Guidelines

In the event that lightning and/or thunder are observed while working onsite, all onsite activities shall stop and personnel shall seek proper shelter (e.g., substantial building, enclosed vehicle, etc.). Work shall not resume until the threat of lighting has subsided and no lightning or thunder has been observed for 30 minutes. If the possibility of lightning is forecast for the day, advise the onsite personnel or the risks and proper procedure at the pre-work safety briefing. Continuously monitor for changing weather conditions and allow enough time to properly stop work if lightning if forecast.

14.0 LOGS, REPORTS AND RECORD KEEPING

The following is a summary of required health and safety logs, reports, and record keeping for this project.

14.1 Medical and Training Records

The employer keeps medical and training records. The subcontractor employer must provide verification of training and medical qualifications to the SSO. The SSO will keep a log of personnel meeting appropriate training and medical qualifications for Site work. The log will be kept in the project file. Roux Associates will maintain medical records in accordance with 29 CFR 1910.20.

14.2 Onsite Log

The SSO or project manager will keep a log of onsite personnel daily in the designated field book.

14.3 Exposure Records

Applicable personal monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be kept by Roux Associates in accordance with 29 CFR 1910.20.

14.4 Health and Safety Lessons Learned Reports

A near loss report must be completed following procedures given in Appendix M. The originals will be sent to Roux Associates for maintenance. Copies will be distributed as stated. A copy of the forms will be kept in the project file.

14.5 Accident/Incident Reports

For any injury (OSHA Recordable or not), including "FYI" injuries (injuries where pain was felt, but not even first aid treatment was needed), and illnesses, all work on the activity where the injury/illness occurred will be stopped. An accident/incident report must be completed following procedures given in Appendix K. The originals will be sent to Roux Associates for maintenance. Copies will be distributed as stated. A copy of the forms will be kept in the project file.

14.6 OSHA Form 300

An OSHA Form 300 (Log of Occupational Injuries and Illnesses) (Appendix N) will be kept at the Site. All reportable injuries or illnesses will be recorded on this form. At the end of the project, the original will be sent to Roux Associates for maintenance.

14.7 Daily Health and Safety Briefing

The Daily Health and Safety Briefing form in Appendix E will be completed daily by the SSO and submitted to the project manager.

15.0 FIELD TEAM REVIEW

Each Roux Associates employee or subcontractor shall sign this section after site-specific training is completed and before being permitted to work at the Site.

I have read and had Roux Associates verbally review this Health and Safety Plan prepared for this Site with me. I understand and will comply with the provisions contained therein.

Site/Project: 3875 9th Avenue, New York, New York 10034

Date	Name	Signature	Company

TABLES

1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at the Site
2. Action Levels for Worker Breathing Zone

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 3875 9th Avenue, New York, New York.

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
1,2,4-Trimethylbenzene	95-63-6	None established	TWA 25 ppm (125mg/m^3)	None established	N.D.	Inhalation; ingestion; skin and/or eye contact	Eye, skin, nose, and throat, resp syst irritation; bronchitis; hypochromic anemia; headache, drowsiness, weakness, dizziness, nausea, incoordination, vomit, confusion; chemical pneumonitis	Eyes, skin, resp sys, CNS, blood	Clear, colorless liquid with a distinctive, aromatic odor BP: 337°F FL.P: 112°F UEL: 6.4% LEL: 0.9% Class II Flammable liquid
1,2,4-Trimethylbenzene	95-63-6	TWA 25 ppm (125 mg/r	TWA 25 ppm (125 mg/m^3)	None established	N.D.	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, fatigue, dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eyes, skin, respiratory system, central nervous system, blood	Clear, colorless liquid with a distinctive, aromatic odor. BP: 337°F Fl.P: 112°F UEL: 6.4% LEL: 0.9% Class II Flammable Liquid
1,2-Dichlorobenzene	95-50-1	TWA 25 ppm STEL 50 ppm	C 50 ppm (300 mg/m^3)	C 50 ppm (300 mg/m^3)	200 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; liver, kidney damage; skin blisters	Eyes, skin, respiratory system, liver, kidneys	Colorless to pale-yellow liquid with a pleasant, aromatic odor. [herbicide] BP: 357°F Fl.P: 151°F UEL: 9.2% LEL: 2.2% Class IIIA Combustible Liquid
1,3,5-Trimethylbenzene	108-67-8	None established	TWA 25 ppm (125mg/m^3)	None established	N.D.	Inhalation; ingestion; skin and/or eye contact	Eye, skin, nose, and throat, resp syst irritation; bronchitis; hypochromic anemia; headache, drowsiness, weakness, dizziness, nausea, incoordination, vomit, confusion; chemical pneumonitis	Eyes, skin, resp sys, CNS, blood	Clear, colorless liquid with a distinctive, aromatic odor BP: 329°F FL.P: 122°F Class II Flammable liquid
1,3,5-Trimethylbenzene	108-67-8	TWA 25 ppm (125 mg/r	TWA 25 ppm (125 mg/m^3)	None established	N.D	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eyes, skin, respiratory system, central nervous system, blood	Clear, colorless liquid with a distinctive, aromatic odor. BP: 329°F Fl.P: 122°F Class II Flammable Liquid
1,4-Dichlorobenzene	106-46-7	TWA 10 ppm	Ca	TWA 75 ppm (450 mg/m^3)	Ca [150 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Eye irritation, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Liver, respiratory system, eyes, kidneys, skin	Colorless or white crystalline solid with a mothball-like odor. [insecticide] BP: 345°F Fl.P: 150°F LEL: 2.5% Combustible Solid
2-Butanone (MEK)	78-93-3	TWA 200 ppm (590 mg/m^3) STEL 300 ppm (885 mg/m^3)	TWA 200 ppm (590 mg/m^3) STEL 300 ppm (885 mg/m^3)	TWA 200 ppm (590 mg/m^3)	3000 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose; headache; dizziness; vomiting; dermatitis	Eyes, skin, respiratory system, central nervous system	Colorless liquid with a moderately sharp, fragrant, mint- or acetone-like odor. BP: 175°F Fl.P: 16°F UEL(200°F): 11.4% LEL(200°F): 1.4% Class IB Flammable Liquid

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 3875 9th Avenue, New York, New York.

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Acenaphthene	83-32-9	None established	None established	None established	None established	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory system	Eyes, skin, respiratory system	Brown solid
Acetone	67-64-1	TWA 250 ppm STEL 500 ppm	TWA 250 ppm (590 mg/m^3)	TWA 1000 ppm (2400 mg/m^3)	2500 ppm [10%LEL]	inhalation, ingestion, skin and/or eye contact	Irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis	Eyes, skin, respiratory system, central nervous system	Colorless liquid with a fragrant, mint-like odor BP: 133°F Fl.P: 0°F UEL: 12.8% LEL: 2.5% Class IB Flammable Liquid
Anthracene	65996-93-2	TWA 0.2 mg/m^3	Ca TWA 0.1 mg/m^3 (cyclohexane-extractable fraction)	TWA 0.2 mg/m^3 (benzene-soluble fraction)	Ca [80 mg/m^3]	inhalation, skin and/or eye contact	Dermatitis, bronchitis, [potential occupational carcinogen]	respiratory system, skin, bladder, kidneys	Black or dark-brown amorphous residue. Combustible Solids
Antimony	7440-36-0	TWA 0.5 mg/m^3	TWA 0.5 mg/m^3	TWA 0.5 mg/m^3	50 mg/m^3 (as Sb)	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, mouth; cough; dizziness; headache; nausea, vomiting, diarrhea; stomach cramps; insomnia; anorexia; unable to smell properly	Eyes, skin, respiratory system, cardiovascular system	Silver-white, lustrous, hard, brittle solid; scale-like crystals; or a dark-gray, lustrous powder. BP: 2975°F
Arsenic (inorganic)	7440-38-2 (metal)	TWA 0.01 mg/m3	Ca C 0.002 mg/m3 [15-min]	TWA 0.010 mg/m3	Ca [5 mg/m3 (as As)]	Inhalation; ingestion; skin absorption; skin and/or eye contact	Ulceration of nasal septum, dermatitis, GI disturbances, peripheral neuropathy, resp irritation, hyperpigmentation of skin, [potential occupational carcinogen]	Liver, kidneys, skin, lungs, lymphatic sys	Metal: sliver-gray or tin-white, brittle, odorless solid BP: sublimes
Asbestos	1332-21-4	TWA 0.1 f/cc	Ca 100,000 fibers/m3	TWA 0.1 fiber/cm3	Ca [IDLH value has not been determined]	Inhalation; ingestion; skin and/or eye contact	Asbestosis (chronic exposure), dyspnea, interstitial fibrosis, restricted pulmonary function, finger clubbing, irritation eyes, [potential occupational carcinogen]	Respiratory system, eyes,	White or greenish (chrysotile), blue (crocidolite), or gray-green (amosite), fibrous, odorless solids. BP: decomposes
Asphalt fumes	8052-42-4	TWA 0.5 mg/m^3(fumes)	Ca C 5 mg/m3 [15 min]	None established	Ca [IDLH value has not been determined]	Skin absorption; inhalation; skin and/or eye contact	Irritation eyes, resp sys	Eyes, respiratory system	Black or dark brown cement-like substance Combustible solid

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 3875 9th Avenue, New York, New York.

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Barium	7440-39-3	TWA 0.5 mg/m3	None established	TWA 0.5 mg/m3	None established	Inhalation, ingestion, skin contact	Irritation skin, respiratory system, dig	Skin, eyes, respiratory system	Yellow white powder BP: 1640 C
Benzene	71-43-2	TWA 0.5 ppm STEL 2.5 ppm	Ca TWA 0.1 ppm STEL 1 ppm	TWA 1 ppm STEL 5 ppm	Ca [500 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen]	Eyes, skin, respiratory system, blood, central nervous system, bone marrow	Colorless to light yellow liquid with an aromatic odor [Note: Solid below 42 °F] BP: 176°F Fl.Pt = 12°F LEL: 1.2% UEL: 7.8% Class B Flammable liquid
Butane	106-97-8	TWA 1000 ppm	TWA 800 ppm (1900 mg/m^3)	None established	None established	inhalation, skin and/or eye contact (liquid)	Drowsiness, narcosis, asphyxia; liquid: frostbite	central nervous system	Colorless gas with a gasoline-like or natural gas odor. BP: 31°F
Cadmium	7440-43-9 (metal)	TWA 0.01 mg/m^3	Ca	TWA 0.005 mg/m^3	Ca [9 mg/m^3 (as Cd)]	inhalation, ingestion	Pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	respiratory system, kidneys, prostate, blood	Metal: Silver-white, blue-tinged lustrous, odorless solid. BP: 1409°F
Chlorobenzene	108-90-7	TWA 10 ppm	None established	TWA 75 ppm (350 mg/m^3)	1000 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose; drowsiness, incoordination; central nervous system depression; in animals: liver, lung, kidney injury	Eyes, skin, respiratory system, central nervous system, liver	Colorless liquid with an almond-like odor BP: 270°F Fl.P: 82°F UEL: 9.6% LEL: 1.3%
Copper	7440-50-8	TWA 0.2mg/m^3 (fume) 1 mg/m^3 (dusts and mists)	TWA 1 mg/m^3	TWA 1 mg/m^3	100 mg/m^3 (as Cu)	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, respiratory system; cough, dyspnea (breathing difficulty), wheezing	Eyes, skin, respiratory system, liver, kidneys (increase(d) risk with Wilson's disease)	Noncombustible Solid in bulk form, but powdered form may ignite. BP: 4703°F
Dibenzo[a,h]anthracene	53-70-3	None established	None established	None established	None established	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin	Eyes, skin; skin photosensitization.	Colorless crystalline powder BP: 524°C
Diesel Fuel #2	68476-34-6	None established	None established	Designated as an OSHA Select Carcinogen	None established	ingestion, skin and/or eye contact	Kidney damage; potential lung damage; suspected carcinogen; irritation of eyes, skin, respiratory tract; dizziness, headache, nausea; chemical pneumonitis (from aspiration of liquid); dry, red skin; irritant contact dermatitis; eye redness, pain.	Eyes, skin, kidneys	Clear yellow brown combustible liquid; floats on water; distinct diesel petroleum hydrocarbon odor. BP: 356-716°F Fl.P: 154.4-165.2°F LEL: 0.6% UEL: 7.0%
Ethylbenzene	100-41-4	TWA 100 ppm STEL 125 ppm	TWA 100 ppm (435 mg/m^3) STEL 125 ppm (545 mg/m^3)	TWA 100 ppm (435 mg/m^3)	800 ppm [10%LEL]	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eyes, skin, respiratory system, central nervous system	Colorless liquid with an aromatic odor. BP: 277°F Fl.P: 55°F UEL: 6.7% LEL: 0.8% Class IB Flammable Liquid

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 3875 9th Avenue, New York, New York.

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Fluoranthene	206-44-0	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible burns; heart and liver injury, pulmonary edema, respiratory arrest, gastrointestinal disturbances.	Heart, liver, lungs.	Yellow needles.
Fuel Oil #2	68476-30-2	TWA 100mg/m^3 (aerosol and vapor, as total hydrocarbons)	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; CNS effects; nausea, vomiting, headache, cramping, dizziness, weakness, loss of coordination,, drowsiness; kidney, liver damage	Eyes, skin, CNS	Clear or yellow to red oily liquid, kerosene-like odor BP: 347 - 689 °F UEL:5-6% LEL: 0.7-1.0%
Gasoline	8006-61-9	TWA 300 ppm STEL 500 ppm	Carcinogen	None established	Ca [IDLH value has not been determined]	Skin absorption; inhalation; ingestion; skin and/or eye contact	Eyes and skin irritation, mucous membrane; dermatitis; headache; listlessness, blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis; possible liver, kidney damage [Potential occupational carcinogen]	Eyes, skin, respiratory system, CNS, Liver, Kidneys	Clear liquid with a characteristic odor, aromatic Fl.Pt = -45°F LEL = 1.4% UEL = 7.6% Class 1B Flammable Liquid
Indeno[1,2,3-cd]pyrene	193-39-5	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible human carcinogen (skin); weakness; affect liver, lung tissue, renal tissue; impairment of blood forming tissue	Skin	Fluorescent green-yellow crystalline solid BP: 536 C
Indeno[1,2,3-cd]pyrene	193-39-5	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible human carcinogen (skin); weakness; affect liver, lung tissue, renal tissue; impairment of blood forming tissue	Skin	Yellowish crystal solid BP: 536 C
Isopropylbenzene	98-82-8	TWA 50 ppm	TWA 50 ppm (245 mg/m^3) [skin]	TWA 50 ppm (245 mg/m^3) [skin]	900 ppm [10%LEL]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; dermatitis; headache, narcosis, coma	Eyes, skin, respiratory system, central nervous system	Colorless liquid with a sharp, penetrating, aromatic odor. BP: 306°F Fl.P: 96°F UEL: 6.5% LEL: 0.9%
Lead	7439-92-1	TWA 0.05 mg/m^3	TWA (8-hour) 0.050 mg/m^3	TWA 0.050 mg/m^3	100 mg/m^3 (as Pb)	inhalation, ingestion, skin and/or eye contact	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension	Eyes, gastrointestinal tract, central nervous system, kidneys, blood, gingival tissue	A heavy, ductile, soft, gray solid. BP: 3164°F Noncombustible Solid in bulk form
Mercury (organo) alkyl compounds (as Hg)	7439-97-6	TWA 0.01 mg/m^3 STEL 0.03 mg/m^3 [skin]	TWA 0.01 mg/m^3 STEL 0.03 mg/m^3 [skin]	TWA 0.01 mg/m^3 C 0.04 mg/m^3	2 mg/m^3 (as Hg)	inhalation, skin absorption, ingestion, skin and/or eye contact	Paresthesia; ataxia, dysarthria; vision, hearing disturbance; spasticity, jerking limbs; dizziness; salivation; lacrimation (discharge of tears); nausea, vomiting, diarrhea, constipation; skin burns; emotional disturbance; kidney injury; possible teratogenic effects	Eyes, skin, central nervous system, peripheral nervous system, kidneys	Appearance and odor vary depending upon the specific (organo) alkyl mercury compound

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 3875 9th Avenue, New York, New York.

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Mercury compounds [except (organo) alkyls] (as Hg) Mercury	7439-97-6	TWA 0.025 mg/m^3 (elemental and inorganic forms)	Hg Vapor: TWA 0.05 mg/m^3 [skin] Other: C 0.1 mg/m3 [skin]	TWA 0.1 mg/m^3	10 mg/m^3 (as Hg)	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eyes, skin, respiratory system, central nervous system, kidneys	Metal: Silver-white, heavy, odorless liquid. [Note: "Other" Hg compounds include all inorganic & aryl Hg compounds except (organo) alkyls.] BP: 674°F
Methyl tert-butyl ether (MTBE)	1634-04-4	TWA 50 ppm	No established REL	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, mucous membrane, respiratory; dizziness, nausea, headache, intoxication	Eyes, skin, mucous membrane, respiratory system, central nervous system	Colorless liquid BP: 55.2 C
n-Butylbenzene	104-51-8	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; CNS depression, lung damage; nausea, vomiting, headache, dizziness, weakness, loss of coordination, blurred vision, drowsiness, confusion, disorientation	Eyes, skin, respiratory system, central nervous system	Colorless liquid with a sweet odor BP: 183 C Fl.P: 59 C UEL: 5.8% LEL: 0.8%
Nitrobenzene	98-95-3	TWA 1 ppm	TWA 1 ppm (5 mg/m^3) [skin]	TWA 1 ppm (5 mg/m^3) [skin]	200 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; anoxia; dermatitis; anemia; methemoglobinemia; in animals: liver, kidney damage; testicular effects	Eyes, skin, blood, liver, kidneys, cardiovascular system, reproductive system	Yellow, oily liquid with a pungent odor like paste shoe polish. BP: 411°F Fl.P: 190°F LEL(200°F): 1.8%
n-Propylbenzene	103-65-1	None established	None established	None established	None established	inhalation, ingestion, skin and/or eye contact	Harmful if swallowed, Irritation eyes, skin, digestive tract, respiratory tract, central nervous system	Eyes, skin, central nervous system, respiratory system	colorless or light yellow liquid BP: 159 C Fl.P: 47 C UEL: 6% LEL: 0.8%
Petroleum hydrocarbons(Petroleum distillates)	8002-05-9	None established	TWA 350 mg/m^3 C 1800 mg/m^3 [15 min]	TWA 500 ppm (2000 mg/m^3)	1,100 [10% LEL]	Inhalation; ingestion; skin and/or eye contact	Irritation eyes, skin, nose, throat; dizziness, drowsiness, headache, nausea; dried/cracked skin; chemical pneumonitis	CNS, eyes, respiratory system, skin	Colorless liquid with a gasoline or kerosene-like odor BP: 86-460°F Fl. Pt = -40 to -86°F UEL: 5.9% LEL: 1.1% Flammable liquid
sec-Butylbenzene	135-98-8	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, upper airway; central nervous system, headache, dizziness; gastrointestinal disturbance	Respiratory system, central nervous system, eyes, skin;	Colorless liquid BP: 344°F Fl.P: 126 °F UEL: 6.9% LEL: 0.8% Combustible liquid
Slop Oil	69029-75-0	None established	None established	None established	None established	Inhalation; ingestion	Irritation eyes, skin, gastrointestinal tract	Eyes, skin, gastrointestinal tract	Clear light to dark amber liquid, with mild hydrocarbon odor. BP: >500°F Fl.P : 250°F
tert-Butylbenzene	98-06-6	None established	None established	None established	None established	inhalation, skin absorption, ingestion,	Eye and respiratory irritant; CNS depression; liver or kidney damage	Respiratory system, central nervous system, eyes, liver, kidney	Colorless liquid with an aromatic odor BP: 168 - 169 C Fl.P: 34 C UEL:5.6 % LEL: 0.8 %

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at 3875 9th Avenue, New York, New York.

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Toluene	108-88-3	TWA 20 ppm	TWA 100 ppm (375 mg/m^3) STEL 150 ppm (560 mg/m^3)	TWA 200 ppm C 300 ppm 500 ppm (10-minute maximum peak)	500 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage	Eyes, skin, respiratory system, central nervous system, liver, kidneys	Colorless liquid with a sweet, pungent, benzene-like odor. BP: 232°F Fl.P: 40°F UEL: 7.1% LEL: 1.1% Class IB Flammable Liquid
Xylene (m, o & p isomers)	108-38-3, 95-47-6, 106-42-3	TWA 100 ppm (435 mg/m^3) STEL 150 ppm	TWA 100 ppm (435 mg/m^3)	TWA 100 ppm (435 mg/m^3)	900 ppm	Skin absorption, inhalation, ingestion, skin, and/or eye contact	Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis	Eyes, skin, respiratory system, central nervous system, gastrointestinal tract, blood, liver, kidneys	Colorless liquid with an aromatic odor BP: 282°F, 292°F, 281°F Fl. Pt. 82°F, 90°F, 81°F LEL: 1.1%, 0.9%, 1.1% UEL: 7.0%, 6.7%, 7.0% Classs C Flammable Liquid

TABLE 2

ACTION LEVELS FOR WORKER BREATHING ZONE

Instrument	Action Level *	Level of Respiratory Protection/Action
PID	0 to <5 ppm (one minute sustained)	Level D *
	>5 to <50 ppm (one minute sustained)	Utilize APR (Level C)
	>50 to <100 ppm (one minute sustained)	Level B
	>100 ppm	Stop work** (ventilate, apply foam)
CGI/H_2S Sensor	<5 ppm	Level D
	>5% to <25 ppm	Level B
	>25 ppm	Stop work**
CGI/CO Sensor	>25 ppm	Level B
	>50 ppm	Stop work** (ventilate area)
CGI/ LEL Sensor	<10% LEL, in excavation	Level D
	>10% LEL, in excavation	Allow to vent, apply foam**
CGI/O2 Meter	19.5% oxygen – 23.5%	Level D
	<19.5% or >23.5% oxygen	Stop work, Oxygen Deficient or Enriched ATM**

Note:

Action levels are based on above background levels.

* Instrument readings will be taken in the breathing zone of the workers, unless otherwise indicated.

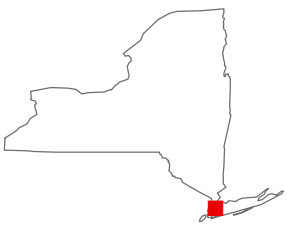
** Suspend work in immediate area. Conduct air monitoring periodically to determine when work can continue. Implement mitigative measures.

FIGURES

1. Site Location Map
2. Hospital Route Map
3. Health Clinic Route Map



QUADRANGLE LOCATION



N

1,000 0 1,000 2,000 Feet

Title:

SITE LOCATION MAP

3875 9TH AVENUE, NEW YORK, NY

Prepared For:

J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 18MAY17	FIGURE 1
Prepared by: M.R.	Scale: AS SHOWN	
Project Mgr: K.S.	Project: 2699.0001Y002	
File: 2699.0001Y101.1.mxd		

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Directions to New York-Presbyterian/The Allen Hospital

1. Head West on W. 207th Street toward 10th Avenue.
2. Make a Right onto 10th Avenue (1st cross street).
3. Slight Right onto U.S. 9N/Broadway (0.5 miles).
4. Make a U-turn at W.228th St (0.4 miles).
5. Hospital will be on the right (0.3 miles).

INITIAL COMMUNICATION TO:
ALLONE HEALTH CARE MANAGEMENT - PH: (800) 350-4511

Title:

HOSPITAL ROUTE MAP

3875 9TH AVENUE, NEW YORK, NY

Prepared For:

J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 18MAY17
Prepared by: M.R.	Scale: AS SHOWN
Project Mgr: K.S.	Project: 2699.0001Y002
File: 2699.0001Y101.2.mxd	

FIGURE 2

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Directions to CityMD-Riverdale/Kingsbridge

1. Head East on W. 207th Street toward University Heights Bridge.
2. Get on I-87N and follow to Van Cortlandt Park S. Take exit 11 (2.0 miles).
3. Contine on Van Cortlandt Park S. Make Left on Brodway follow to W. 237th Street (0.4 miles).
4. Make Left on W. 237th Street, City MD is on the Left.

INITIAL COMMUNICATION TO:
ALLONE HEALTH CARE MANAGEMENT - PH: (800) 350-4511

N

Title:

URGENT CARE ROUTE MAP

3875 9TH AVENUE, NEW YORK, NY

Prepared For:

J.207 ST. LLC AND MFC REALTY CORP.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: K.S.	Date: 18MAY17	FIGURE 3
Prepared by: M.R.	Scale: AS SHOWN	
Project Mgr: K.S.	Project: 2699.0001Y002	
File: 2699.0001Y101.3.mxd		

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ALLONE HEALTH

ROUX

REPORT WORK-RELATED INJURIES OR A NEW ILLNESS TO ALLONE HEALTH (AOH) IMMEDIATELY!

Employee Responsibilities

1. **Report the injury to your supervisor/manager**
2. **Call AllOne Health at 1.800.350.4511, PRESS 1 to report an injury for Roux Associates, Inc.** The nurses will help determine the best type of care needed for the immediate situation, where to go for treatment, and work with you and providers on an ongoing basis.
3. **Be ready to supply**:
   - ✓ Your name & contact information, including mobile phone
   - ✓ Your location (nearest city, town or area)
   - ✓ Supervisor/Manager name & contact information
   - ✓ Description of the injury, details of incident, and any existing medical conditions the nurse should be aware of (e.g., allergies, pacemaker…)
4. **Follow AllOne Health instructions (e.g., first aid, go to urgent care center, or other)**
5. **Immediately after your visit, contact the AllOne Health Nurse Care Manager at 1.800.350.4511 (press 1)** or the direct number provided by the nurse to discuss your condition, treatment and any next steps.
6. **Follow the company protocols as communicated to you by your supervisor, CHSM or OHSM.**
7. **Contact the AllOne Health Nurse with any questions or concerns about your condition.**
8. **Communicate with your AllOne Health Nurse Care Manager about ALL further treatment relating to this case.** They are available to assist you in your recovery and make sure you receive the proper medical care you need!

In case of serious injury, call 911 or head to the nearest emergency center, calling AOH along the way!

AllOne Health Responsibilities

1. **AOH Nurse speaks to supervisor (if available) to gather information about employee and injury**
2. **AOH Nurse speaks to employee about incident, level of pain, and any other medical conditions that could impact treatment**
3. **AOH Nurse provides first aid measures to the injured employee**
4. **When a medical evaluation is recommended, AOH calls the Roux Associates, Inc. identified facility to advise them the employee is coming and why, and faxes a release form and return-to-work form to the facility. After the visit, the Nurse reaches out to the facility to obtain the diagnosis and information on any treatment that was received and/or recommended.**
5. **AOH Nurse contacts the employee within 24 hours to assess their condition and answer any questions**
6. **Care management will continue until the employee returns to full duty or the care management is turned over to the Workers' Compensation provider.**
7. **Throughout the process, AOH will communicate with the employee and his/her providers, and provide Roux Associates, Inc. management with email updates.**

APPENDICES

A. Job Safety and Health (OSHA) Poster
B. Material Safety Data Sheets (MSDS)
C. Job Safety Analysis
D. Heat and Cold Stress Guidelines
E. Health and Safety Briefing/Tailgate Meeting Form
F. Medical Data Form
G. Generic Community Air Monitoring Plan
H. Carbon Monoxide Guidance
I. Utility Clearance
J. Heavy Equipment Exclusion Zone
K. Accident Report and Investigation Form
L. Acord Automobile Loss Form
M. Health & Safety Lessons Learned Form
N. OSHA Log of Occupational Injuries and Illnesses

APPENDIX A

Job Safety and Health (OSHA) Poster

You Have a Right to a Safe and Healthful Workplace.

IT'S THE LAW!

- You have the right to notify your employer or OSHA about workplace hazards. You may ask OSHA to keep your name confidential.
- You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in the inspection.
- You can file a complaint with OSHA within 30 days of discrimination by your employer for making safety and health complaints or for exercising your rights under the *OSH Act*.
- You have a right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violation.
- Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- You have the right to copies of your medical records or records of your exposure to toxic and harmful substances or conditions.
- Your employer must post this notice in your workplace.



The *Occupational Safety and Health Act of 1970 (OSH Act)*, P.L. 91-596, assures safe and healthful working conditions for working men and women throughout the Nation. The Occupational Safety and Health Administration, in the U.S. Department of Labor, has the primary responsibility for administering the *OSH Act*. The rights listed here may vary depending on the particular circumstances. To file a complaint, report an emergency, or seek OSHA advice, assistance, or products, call 1-800-321-OSHA or your nearest OSHA office: • Atlanta (404) 562-2300 • Boston (617) 565-9860 • Chicago (312) 353-2220 • Dallas (214) 767-4731 • Denver (303) 844-1600 • Kansas City (816) 426-5861 • New York (212) 337-2378 • Philadelphia (215) 861-4900 • San Francisco (415) 975-4310 • Seattle (206) 553-5930. Teletypewriter (TTY) number is 1-877-889-5627. To file a complaint online or obtain more information on OSHA federal and state programs, visit OSHA's website at **www.osha.gov**. If your workplace is in a state operating under an OSHA-approved plan, your employer must post the required state equivalent of this poster.

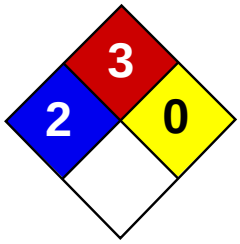
1-800-321-OSHA
www.osha.gov

U.S. Department of Labor • **Occupational Safety and Health Administration** • **OSHA 3165**

APPENDIX B

Material Safety Data Sheets (MSDS)







Material Safety Data Sheet
Benzene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Benzene

Catalog Codes: SLB1564, SLB3055, SLB2881

CAS#: 71-43-2

RTECS: CY1400000

TSCA: TSCA 8(b) inventory: Benzene

CI#: Not available.

Synonym: Benzol; Benzine

Chemical Name: Benzene

Chemical Formula: C6-H6

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Benzene	71-43-2	100

Toxicological Data on Ingredients: Benzene: ORAL (LD50): Acute: 930 mg/kg [Rat]. 4700 mg/kg [Mouse]. DERMAL (LD50): Acute: >9400 mg/kg [Rabbit]. VAPOR (LC50): Acute: 10000 ppm 7 hours [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of eye contact (irritant), of inhalation. Hazardous in case of skin contact (irritant, permeator), of ingestion. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC. MUTAGENIC EFFECTS: Classified POSSIBLE for human. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. The substance is toxic to blood, bone marrow, central nervous system (CNS). The substance may be toxic to liver, Urinary System. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention immediately.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 497.78°C (928°F)

Flash Points: CLOSED CUP: -11.1°C (12°F). (Setaflash)

Flammable Limits: LOWER: 1.2% UPPER: 7.8%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Highly flammable in presence of open flames and sparks, of heat. Slightly flammable to flammable in presence of oxidizing materials. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Explosive in presence of oxidizing materials, of acids.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:
Extremely flammable liquid and vapor. Vapor may cause flash fire. Reacts on contact with iodine heptafluoride gas. Dioxygenyl tetrafluoroborate is as very powferful oxidant. The addition of a small particle to small samples of benzene, at ambient temperature, causes ignition. Contact with sodium peroxide with benzene causes ignition. Benzene ignites in contact with powdered chromic anhydride. Virgorous or incandescent reaction with hydrogen + Raney nickel (above 210 C) and bromine trifluoride.

Special Remarks on Explosion Hazards:
Benzene vapors + chlorine and light causes explosion. Reacts explosively with bromine pentafluoride, chlorine, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen, ozone, silver perchlorate. Benzene + pentafluoride and methoxide (from arsenic pentafluoride and potassium methoxide) in trichlorotrifluoroethane causes explosion. Interaction

of nitryl perchlorate with benzene gave a slight explosion and flash. The solution of permanganic acid (or its explosive anhydride, dimaganese heptoxide) produced by interaction of permanganates and sulfuric acid will explode on contact with benzene. Peroxodisulfuric acid is a very powferful oxidant. Uncontrolled contact with benzene may cause explosion. Mixtures of peroxomonsulfuric acid with benzene explodes.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.5 STEL: 2.5 (ppm) from ACGIH (TLV) [United States] TWA: 1.6 STEL: 8 (mg/m3) from ACGIH (TLV) [United States] TWA: 0.1 STEL: 1 from NIOSH TWA: 1 STEL: 5 (ppm) from OSHA (PEL) [United States] TWA: 10 (ppm) from OSHA (PEL) [United States] TWA: 3 (ppm) [United Kingdom (UK)] TWA: 1.6 (mg/m3) [United Kingdom (UK)] TWA: 1 (ppm) [Canada] TWA: 3.2 (mg/m3) [Canada] TWA: 0.5 (ppm) [Canada]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor:
Aromatic. Gasoline-like, rather pleasant. (Strong.)

Taste: Not available.

Molecular Weight: 78.11 g/mole

Color: Clear Colorless. Colorless to light yellow.

pH (1% soln/water): Not available.

Boiling Point: 80.1 (176.2°F)

Melting Point: 5.5°C (41.9°F)

Critical Temperature: 288.9°C (552°F)

Specific Gravity: 0.8787 @ 15 C (Water = 1)

Vapor Pressure: 10 kPa (@ 20°C)

Vapor Density: 2.8 (Air = 1)

Volatility: Not available.

Odor Threshold: 4.68 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 2.1

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:
Miscible in alcohol, chloroform, carbon disulfide oils, carbon tetrachloride, glacial acetic acid, diethyl ether, acetone. Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatibles.

Incompatibility with various substances: Highly reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Benzene vapors + chlorine and light causes explosion. Reacts explosively with bromine pentafluoride, chlorine, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen, ozone, silver perchlorate. Benzene + pentafluoride and methoxide (from arsenic pentafluoride and potassium methoxide) in trichlorotrifluoroethane causes explosion. Interaction of nitryl perchlorate with benzene gave a slight explosion and flash. The solution of permanganic acid (or its explosive anhydride, dimaganese heptoxide) produced by interaction of permanganates and sulfuric acid will explode on contact with benzene. Peroxodisulfuric acid is a very powferful oxidant. Uncontrolled contact with benzene may cause explosion. Mixtures of peroxomonsulfuric acid with benzene explodes.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 930 mg/kg [Rat]. Acute dermal toxicity (LD50): >9400 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 10000 7 hours [Rat].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC. MUTAGENIC EFFECTS: Classified POSSIBLE for human. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. Causes damage to the following organs: blood, bone marrow, central nervous system (CNS). May cause damage to the following organs: liver, Urinary System.

Other Toxic Effects on Humans:
Very hazardous in case of inhalation. Hazardous in case of skin contact (irritant, permeator), of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects (female fertility, Embryotoxic and/or foetotoxic in animal) and birth defects. May affect genetic material (mutagenic). May cause cancer (tumorigenic, leukemia)) Human: passes the placental barrier, detected in maternal milk.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation. It can be absorbed through intact skin and affect the liver, blood, metabolism,and urinary system. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract and mucous membrane irritation. Can be absorbed through the lungs. May affect behavior/Central and Peripheral nervous systems (somnolence, muscle weakness, general anesthetic, and other symptoms similar to ingestion), gastrointestinal tract (nausea), blood metabolism, urinary system. Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation including vomiting. May affect behavior/Central and Peripheral nervous systems (convulsions, seizures, tremor, irritability, initial CNS stimulation followed by depression, loss of coordination, dizziness, headache, weakness, pallor, flushing), respiration (breathlessness and chest constriction), cardiovascular system, (shallow/rapid pulse), and blood.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Benzene UNNA: 1114 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzene California prop. 65 (no significant risk level): Benzene: 0.007 mg/day (value) California prop. 65: This product contains the following ingredients

for which the State of California has found to cause cancer which would require a warning under the statute: Benzene Connecticut carcinogen reporting list.: Benzene Connecticut hazardous material survey.: Benzene Illinois toxic substances disclosure to employee act: Benzene Illinois chemical safety act: Benzene New York release reporting list: Benzene Rhode Island RTK hazardous substances: Benzene Pennsylvania RTK: Benzene Minnesota: Benzene Michigan critical material: Benzene Massachusetts RTK: Benzene Massachusetts spill list: Benzene New Jersey: Benzene New Jersey spill list: Benzene Louisiana spill reporting: Benzene California Director's list of Hazardous Substances: Benzene TSCA 8(b) inventory: Benzene SARA 313 toxic chemical notification and release reporting: Benzene CERCLA: Hazardous substances.: Benzene: 10 lbs. (4.536 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R11- Highly flammable. R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes. R45- May cause cancer. R62- Possible risk of impaired fertility. S2- Keep out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S46- If swallowed, seek medical advice immediately and show this container or label. S53- Avoid exposure - obtain special instructions before use.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

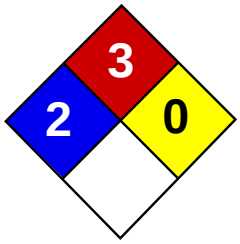
Other Special Considerations: Not available.

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Material Safety Data Sheet
Toluene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Toluene

Catalog Codes: SLT2857, SLT3277

CAS#: 108-88-3

RTECS: XS5250000

TSCA: TSCA 8(b) inventory: Toluene

CI#: Not available.

Synonym: Toluol, Tolu-Sol; Methylbenzene; Methacide; Phenylmethane; Methylbenzol

Chemical Name: Toluene

Chemical Formula: C6-H5-CH3 or C7-H8

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Toluene	108-88-3	100

Toxicological Data on Ingredients: Toluene: ORAL (LD50): Acute: 636 mg/kg [Rat]. DERMAL (LD50): Acute: 14100 mg/kg [Rabbit]. VAPOR (LC50): Acute: 49000 mg/m 4 hours [Rat]. 440 ppm 24 hours [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, the nervous system, liver, brain, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 480°C (896°F)

Flash Points: CLOSED CUP: 4.4444°C (40°F). (Setaflash) OPEN CUP: 16°C (60.8°F).

Flammable Limits: LOWER: 1.1% UPPER: 7.1%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards:
Toluene forms explosive reaction with 1,3-dichloro-5,5-dimethyl-2,4-imidazolididione; dinitrogen tetraoxide; concentrated nitric acid, sulfuric acid + nitric acid; N2O4; AgClO4; BrF3; Uranium hexafluoride; sulfur dichloride. Also forms an explosive mixture with tetranitromethane.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Toxic flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 200 STEL: 500 CEIL: 300 (ppm) from OSHA (PEL) [United States] TWA: 50 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 100 STEL: 150 from NIOSH [United States] TWA: 375 STEL: 560 (mg/m3) from NIOSH [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Sweet, pungent, Benzene-like.

Taste: Not available.

Molecular Weight: 92.14 g/mole

Color: Colorless.

pH (1% soln/water): Not applicable.

Boiling Point: 110.6°C (231.1°F)

Melting Point: -95°C (-139°F)

Critical Temperature: 318.6°C (605.5°F)

Specific Gravity: 0.8636 (Water = 1)

Vapor Pressure: 3.8 kPa (@ 25°C)

Vapor Density: 3.1 (Air = 1)

Volatility: Not available.

Odor Threshold: 1.6 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 2.7

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:
Soluble in diethyl ether, acetone. Practically insoluble in cold water. Soluble in ethanol, benzene, chloroform, glacial acetic acid, carbon disulfide. Solubility in water: 0.561 g/l @ 25 deg. C.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources (flames, sparks, static), incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Incompatible with strong oxidizers, silver perchlorate, sodium difluoride, Tetranitromethane, Uranium Hexafluoride. Frozen Bromine Trifluoride reacts violently with Toluene at -80 deg. C. Reacts chemically with nitrogen oxides, or halogens to form nitrotoluene, nitrobenzene, and nitrophenol and halogenated products, respectively.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 636 mg/kg [Rat]. Acute dermal toxicity (LD50): 14100 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 440 24 hours [Mouse].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: blood, kidneys, the nervous system, liver, brain, central nervous system (CNS).

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals:
Lowest Published Lethal Dose: LDL [Human] - Route: Oral; Dose: 50 mg/kg LCL [Rabbit] - Route: Inhalation; Dose: 55000 ppm/40min

Special Remarks on Chronic Effects on Humans:
Detected in maternal milk in human. Passes through the placental barrier in human. Embryotoxic and/or foetotoxic in animal. May cause adverse reproductive effects and birth defects (teratogenic). May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes mild to moderate skin irritation. It can be absorbed to some extent through the skin. Eyes: Cauess mild to moderate eye irritation with a burning sensation. Splash contact with eyes also causes conjunctivitis, blepharospasm, corneal edema, corneal abraisons. This usually resolves in 2 days. Inhalation: Inhalation of vapor may cause respiratory tract irritation causing coughing and wheezing, and nasal discharge. Inhalation of high concentrations may affect behavior and cause central nervous system effects characterized by nausea, headache, dizziness, tremors, restlessness, lightheadedness, exhilaration, memory loss, insomnia, impaired reaction time, drowsiness, ataxia, hallucinations, somnolence, muscle contraction or spasticity, unconsciousness and coma. Inhalation of high concentration of vapor may also affect the cardiovascular system (rapid heart beat, heart palpitations, increased or decreased blood pressure, dysrhythmia,), respiration (acute pulmonary edema, respiratory depression, apnea, asphyxia), cause vision disturbances and dilated pupils, and cause loss of appetite. Ingestion: Aspiration hazard. Aspiration of Toluene into the lungs may cause chemical pneumonitis. May cause irritation of the digestive tract with nausea, vomiting, pain. May have effects similar to that of acute inhalation. Chronic Potential Health Effects: Inhalation and Ingestion: Prolonged or repeated exposure via inhalation may cause central nervous system and cardiovascular symptoms similar to that of acute inhalation and ingestion as well liver damage/failure, kidney damage/failure (with hematuria, proteinuria, oliguria, renal tubular acidosis), brain damage, weight loss, blood (pigmented or nucleated red blood cells, changes in white blood cell count), bone marrow changes, electrolyte imbalances (Hypokalemia, Hypophostatemia), severe, muscle weakness and Rhabdomyolysis. Skin: Repeated or prolonged skin contact may cause defatting dermatitis.

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 313 mg/l 48 hours [Daphnia (daphnia)]. 17 mg/l 24 hours [Fish (Blue Gill)]. 13 mg/l 96 hours [Fish (Blue Gill)]. 56 mg/l 24 hours [Fish (Fathead minnow)]. 34 mg/l 96 hours [Fish (Fathead minnow)]. 56.8 ppm any hours [Fish (Goldfish)].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Toluene UNNA: 1294 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Toluene California prop. 65 (no significant risk level): Toluene: 7 mg/day (value) California prop. 65 (acceptable daily intake level): Toluene: 7 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene Connecticut hazardous material survey.: Toluene Illinois

toxic substances disclosure to employee act: Toluene Illinois chemical safety act: Toluene New York release reporting list: Toluene Rhode Island RTK hazardous substances: Toluene Pennsylvania RTK: Toluene Florida: Toluene Minnesota: Toluene Michigan critical material: Toluene Massachusetts RTK: Toluene Massachusetts spill list: Toluene New Jersey: Toluene New Jersey spill list: Toluene Louisiana spill reporting: Toluene California Director's List of Hazardous Substances.: Toluene TSCA 8(b) inventory: Toluene TSCA 8(d) H and S data reporting: Toluene: Effective date: 10/04/82; Sunset Date: 10/0/92 SARA 313 toxic chemical notification and release reporting: Toluene CERCLA: Hazardous substances.: Toluene: 1000 lbs. (453.6 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R11- Highly flammable. R20- Harmful by inhalation. S16- Keep away from sources of ignition - No smoking. S25- Avoid contact with eyes. S29- Do not empty into drains. S33- Take precautionary measures against static discharges.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

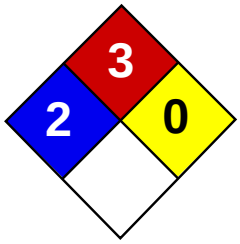
Other Special Considerations: Not available.

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Material Safety Data Sheet
Ethylbenzene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Ethylbenzene

Catalog Codes: SLE2044

CAS#: 100-41-4

RTECS: DA0700000

TSCA: TSCA 8(b) inventory: Ethylbenzene

CI#: Not available.

Synonym: Ethyl Benzene; Ethylbenzol; Phenylethane

Chemical Name: Ethylbenzene

Chemical Formula: C8H10

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Ethylbenzene	100-41-4	100

Toxicological Data on Ingredients: Ethylbenzene: ORAL (LD50): Acute: 3500 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Potential Chronic Health Effects:
Slightly hazardous in case of skin contact (irritant, sensitizer). CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 432°C (809.6°F)

Flash Points:
CLOSED CUP: 15°C (59°F). (Tagliabue.) OPEN CUP: 26.667°C (80°F) (Cleveland) (CHRIS, 2001) CLOSED CUP: 12.8 C (55 F) (Bingham et al, 2001; NIOSH, 2001) CLOSED CUP: 21 C (70 F) (NFPA)

Flammable Limits: LOWER: 0.8% - 1.6%UPPER: 6.7% - 7%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of heat.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:
Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. When heated to decomposition it emits acrid smoke and irritating fumes.

Special Remarks on Explosion Hazards: Vapors may form explosive mixtures in air.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 100 STEL: 125 (ppm) from OSHA (PEL) [United States] TWA: 435 STEL: 545 from OSHA (PEL) [United States] TWA: 435 STEL: 545 (mg/m3) from NIOSH [United States] TWA: 100 STEL: 125 (ppm) from NIOSH [United States] TWA: 100 STEL: 125 (ppm) from ACGIH (TLV) [United States] TWA: 100 STEL: 125 (ppm) [United Kingdom (UK)] TWA: 100 STEL: 125 (ppm) [Belgium] TWA: 100 STEL: 125 (ppm) [Finland] TWA: 50 (ppm) [Norway] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Sweetish. Gasoline-like. Aromatic.

Taste: Not available.

Molecular Weight: 106.16 g/mole

Color: Colorless.

pH (1% soln/water): Not available.

Boiling Point: 136°C (276.8°F)

Melting Point: -94.9 (-138.8°F)

Critical Temperature: 617.15°C (1142.9°F)

Specific Gravity: 0.867 (Water = 1)

Vapor Pressure: 0.9 kPa (@ 20°C)

Vapor Density: 3.66 (Air = 1)

Volatility: 100% (v/v).

Odor Threshold: 140 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 3.1

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether.

Solubility:
Easily soluble in diethyl ether. Very slightly soluble in cold water or practically insoluble in water. Soluble in all proportions in Ethyl alcohol. Soluble in Carbon tetrachloride, Benzene. Insoluble in Ammonia. Slightly soluble in Chloroform. Solubility in Water: 169 mg/l @ 25 deg. C.; 0.014 g/100 ml @ 15 deg. C.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ingnition sources (flames, sparks, static), incompatible materials, light

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity:
Can react vigorously with oxidizing materials. Sensitive to light.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation.

Toxicity to Animals: Acute oral toxicity (LD50): 3500 mg/kg [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: central nervous system (CNS).

Other Toxic Effects on Humans:
Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals:
Lethal Dose/Conc 50% Kill: LD50 [Rabbit] - Route: Skin; Dose: 17800 ul/kg Lowest Published Lethal Dose/Conc: LDL[Rat] - Route: Inhalation (vapor); Dose: 4000 ppm/4 H

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May cause cancer based on animals data. IARC evidence for carcinogenicity in animals is sufficient. IARC evidence of carcinogenicity in humans inadequate. May affect genetic material (mutagenic).

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Can cause mild skin irritation. It can be absorbed through intact skin. Eyes: Contact with vapor or liquid can cause severe eye irritation depending on concentration. It may also cause conjunctivitis. At a vapor exposure level of 85 - 200 ppm , it is mildly and transiently irritating to the eyes; 1000 ppm causes further irritation and tearing; 2000 ppm results in immediate and severe irritation and tearing; 5,000 ppm is intolerable (ACGIH, 1991; Clayton and Clayton, 1994). Standard draize test for eye irritation using 500 mg resulted in severe irritation (RTECS) Inhalation: Exposure to high concentrations can cause nasal, mucous membrane and respiratory tract irritation and can also result in chest constriction and, trouble breathing, respiratory failure, and even death. It can also affect behavior/Central Nervous System. The effective dose for CNS depression in experimental animals was 10,000 ppm (ACGIH, 1991). Symptoms of CNS depression include

headache, nausea, weakness, dizziness, vertigo, irritability, fatigue, lightheadedness, sleepiness, tremor, loss of coordination, judgement and conciousness, coma, and death. It can also cause pulmonary edema. Inhalation of 85 ppm can produce fatigue, insomnia, headache, and mild irritation of the respiratory tract (Haley & Berndt, 1987). Ingestion: Do not drink, pipet or siphon by mouth. May cause gastroinestinal/digestive tract irritation with Abdominal pain, nausea, vomiting. Ethylbenzene is a pulmonary aspiration hazard. Pulmonary aspiration of even small amounts of the liquid may cause fatal pneumonitis. It may also affect behavior/central nervous system with

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 14 mg/l 96 hours [Fish (Trout)] (static). 12.1 mg/l 96 hours [Fish (Fathead Minnow)] (flow-through)]. 150 mg/l 96 hours [Fish (Blue Gill/Sunfish)] (static). 275 mg/l 96 hours [Fish (Sheepshead Minnow)]. 42.3 mg/l 96 hours [Fish (Fathead Minnow)](soft water). 87.6mg/l 96 hours [Shrimp].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Ethylbenzene UNNA: 1175 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Ethylbenzene Illinois toxic substances disclosure to employee act: Ethylbenzene Illinois chemical safety act: Ethylbenzene New York release reporting list: Ethylbenzene Rhode Island RTK hazardous substances: Ethylbenzene Pennsylvania RTK: Ethylbenzene Minnesota: Ethylbenzene Massachusetts RTK: Ethylbenzene Massachusetts spill list: Ethylbenzene New Jersey: Ethylbenzene New Jersey spill list: Ethylbenzene Louisiana spill reporting: Ethylbenzene California Director's List of Hazardous Substances: Ethylbenzene TSCA 8(b) inventory: Ethylbenzene TSCA 4(a) proposed test rules: Ethylbenzene TSCA 8(d) H and S data reporting: Ethylbenzene: Effective Date: 6/19/87; Sunset Date: 6/19/97 SARA 313 toxic chemical notification and release reporting: Ethylbenzene

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASSE D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R11- Highly flammable. R20- Harmful by inhalation. S16- Keep away from sources of ignition - No smoking. S24/25- Avoid contact with skin and eyes. S29- Do not empty into drains.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References:
-Manufacturer's Material Safety Data Sheet. -Fire Protection Guide to Hazardous Materials, 13th ed., National Fire Protection Association (NFPA) -Registry of Toxic Effects of Chemical Substances (RTECS) -Chemical Hazard Response Information System (CHRIS) -Hazardous Substance Data Bank (HSDB) -New Jersey Hazardous Substance Fact Sheet -Ariel Global View -Reprotext System

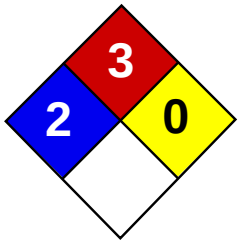
Other Special Considerations: Not available.

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Last Updated: 11/06/2008 12:00 PM

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Material Safety Data Sheet
Xylenes MSDS

Section 1: Chemical Product and Company Identification

Product Name: Xylenes

Catalog Codes: SLX1075, SLX1129, SLX1042, SLX1096

CAS#: 1330-20-7

RTECS: ZE2100000

TSCA: TSCA 8(b) inventory: Xylenes

CI#: Not available.

Synonym: Xylenes; Dimethylbenzene; xylol; methyltoluene

Chemical Name: Xylenes (o-, m-, p- isomers)

Chemical Formula: C6H4(CH3)2

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Xylenes	1330-20-7	100

Toxicological Data on Ingredients: Xylenes: ORAL (LD50): Acute: 4300 mg/kg [Rat]. 2119 mg/kg [Mouse]. DERMAL (LD50): Acute: >1700 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 464°C (867.2°F)

Flash Points: CLOSED CUP: 24°C (75.2°F). (Tagliabue.) OPEN CUP: 37.8°C (100°F).

Flammable Limits: LOWER: 1% UPPER: 7%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Highly flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks, of heat.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Vapors may travel to source of ignition and flash back.

Special Remarks on Explosion Hazards:
Vapors may form explosive mixtures with air. Containers may explode when heated. May polymerize explosively when heated. An attempt to chlorinate xylene with 1,3-Dichloro-5,5-dimethyl-2,4-imidazolidindione (dichlorohydrantoin) caused a violent explosion

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined

areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 100 (ppm) [Canada] TWA: 435 (mg/m3) [Canada] TWA: 434 STEL: 651 (mg/m3) from ACGIH (TLV) [United States] TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Sweetish.

Taste: Not available.

Molecular Weight: 106.17 g/mole

Color: Colorless. Clear

pH (1% soln/water): Not available.

Boiling Point: 138.5°C (281.3°F)

Melting Point: -47.4°C (-53.3°F)

Critical Temperature: Not available.

Specific Gravity: 0.864 (Water = 1)

Vapor Pressure: 0.9 kPa (@ 20°C)

Vapor Density: 3.7 (Air = 1)

Volatility: Not available.

Odor Threshold: 1 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 3.1

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:
Insoluble in cold water, hot water. Miscible with absolute alcohol, ether, and many other organic liquids.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatibles

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Store away from acetic acid, nitric acid, chlorine, bromine, and fluorine.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2119 mg/kg [Mouse]. Acute dermal toxicity (LD50): >1700 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 5000 4 hours [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals:
Lowest Lethal Dose: LDL [Human] - Route: Oral; Dose: 50 mg/kg LCL [Man] - Route: Oral; Dose: 10000 ppm/6H

Special Remarks on Chronic Effects on Humans:
Detected in maternal milk in human. Passes through the placental barrier in animal. Embryotoxic and/or foetotoxic in animal. May cause adverse reproductive effects (male and femael fertility (spontaneous abortion and fetotoxicity)) and birth defects based animal data.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation. Can be absorbed through skin. Eyes: Causes eye irritation. Inhalation: Vapor causes respiratory tract and mucous membrane irritation. May affect central nervous system and behavior (General anesthetic/CNS depressant with effects including headache, weakness, memory loss, irritability, dizziness, giddiness, loss of coordination and judgement, respiratory depression/arrest or difficulty breathing, loss of appetite, nausea, vomiting, shivering, and possible coma and death). May also affects blood, sense organs, liver, and peripheral nerves. Ingestion: May cause gastrointestinal irritation including abdominal pain, vomiting, and nausea. May also affect liver and urinary system/ kidneys. May cause effects similar to those of acute inhalation. Chronic Potential Health Effects: Chronic inhalation may affect the urinary system (kidneys) blood (anemia), bone marrow (hyperplasia of bone marrow) brain/behavior/Central Nervous system. Chronic inhalation may alsocause mucosal bleeding. Chronic ingestion may affect the liver and metabolism (loss of appetite) and may affect urinary system (kidney damage)

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Xylenes UNNA: 1307 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Xylenes Illinois chemical safety act: Xylenes New York acutely hazardous substances: Xylenes Rhode Island RTK hazardous substances: Xylenes Pennsylvania RTK: Xylenes Minnesota: Xylenes Michigan critical material: Xylenes Massachusetts RTK: Xylenes Massachusetts spill list: Xylenes New Jersey: Xylenes New Jersey spill list: Xylenes Louisiana spill reporting: Xylenes California Director's List of Hazardous Substances: Xylenes TSCA 8(b) inventory: Xylenes SARA 302/304/311/312 hazardous chemicals: Xylenes SARA 313 toxic chemical notification and release reporting: Xylenes CERCLA: Hazardous substances.: Xylenes: 100 lbs. (45.36 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R10- Flammable. R21- Harmful in contact with skin. R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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MATERIAL NAME: MTBE	explorer PIPELINE	MSDS # EPL-9

MATERIAL SAFETY DATA SHEET

SECTION 1 ◆ PRODUCT AND COMPANY IDENTIFICATION

Explorer Pipeline Company 6846 South Canton P.O. Box 2650 Tulsa, Oklahoma 74101	**FOR EMERGENCY SOURCE INFORMATION CONTACT:** ➢ (918) 493 - 5100 ➢ CHEMTREC: (800) 424-9300 (24 hour contact) ➢ CANUTEC: (613) 996-6666 ➢ SETIQ: 91-800-00214

TRADE NAMES/SYNONYMS: Methyl Tertiary Butyl Ether, Methyl Ether, Butyl Ether, or MTBE	**CHEMICAL FAMILY:** Alkyl Ethyl	**EPL Code:** 17

This material safety data sheet represents the composite characteristics and properties of fungible petroleum hydrocarbons and other related substances transported by explorer pipeline company. The information presented was compiled from one or more product shipper sources and is intended to provide health and safety guidance for these fungible products. Individual shipper and manufacturer MSDSs are available at Explorer Pipeline Company's, Tulsa, Oklahoma, offices.

SECTION 2 ✷ HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! EXTREMELY FLAMMABLE LIQUID

- Clear, colorless liquid with ether-like odor;
- Eye and mucous membrane irritant - effects central Nervous system - harmful or fatal if swallowed - aspiration hazard;
- High fire hazard. Keep away from heat, spark, open flame, and other ignition sources;
- Contact may cause eye, skin and mucous membrane irritation. Avoid prolonged breathing of vapors or mists;
- Inhalation may cause irritation, anesthetic effects (dizziness, nausea, headache, intoxication), and respiratory system effects;
- If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs); and
- Obtain prompt medical attention. Keep Out of Reach of Children!

SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENTAGE (%)
Methyl Tertiary Butyl Ether	1634-04-4	97+%

ACUTE

GETTING IT IN YOUR EYE...

- May cause minor eye irritation.

GETTING IT ON YOUR SKIN...

- No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin absorption exposure.
- May produce skin irritation.

SWALLOWING IT...

- The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

BREATHING IT...

- Excessive exposure may cause irritation to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

CHRONIC

- Medical information regarding special health effects is not conclusive.

CANCER, REPRODUCTIVE AND GENETIC EFFECTS

- This product has produced cancer, developmental and systemic toxicity in laboratory animals following repeated exposure. The significance of these results to human exposures has not been determined.

See Toxicological Information (Section 11) For More Information

SECTION 4 ✣ FIRST AID MEASURES

EYES: In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persist.

SKIN: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first.

INGESTION: If large quantity swallowed, give lukewarm water (pint) if victim completely conscious/alert. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

INHALATION: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY

SECTION 5 ⌘ FIRE FIGHTING MEASURES

Releases flammable vapors below normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Flammable vapors may be heavier than air. May travel long distances along ground before igniting/flashing back to vapor source.

FLASH POINT:(Method Used) -30°F	**FLAMMABLE LIMITS:** LEL: 1.0% UEL: 8.0%

AUTOIGNITION TEMPERATURE: 797°F

EXTINGUISHING MEDIA: Dry Chemical, CO_2, Foam for Alcohols, Water spray, and fog to cool exposures

HAZARDOUS REACTIONS/DECOMPOSITION: Combustion may produce carbon monoxide, carbon dioxide, and acrid fumes. Incomplete combustion generates highly poisonous carbon monoxide and perhaps other toxic gases.

SPECIAL INSTRUCTIONS: Do not enter fire area without proper protection. Decomposition products possible. Fight fires from safe distance/protected location. Heat may build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective due to low flash point. Even if material is water soluble, may not be practicable to extinguish fire by water dilution. Apply water spray/fog for cooling. Notify authorities if liquid enters sewer/public waters.

SECTION 6 ❖ ACCIDENTAL RELEASE MEASURES

- Flammable liquid. Release can cause fire/explosion. Liquids/vapors may ignite. Evacuate/limit access. Equip responders with proper protection. Kill all ignition sources. Stop release. Prevent flow to sewers/public waters. Notify fire/environmental authorities. Blanket with firefighting foam. Restrict water use for cleanup. Impound/recover large land spill. Soak up small spill with inert solids. Use suitable disposal containers. On water material partially soluble/may float or sink. Contain/minimize dispersion/collect. Disperse residue to reduce aquatic harm.

SECTION 7 ⌘ HANDLING AND STORAGE

Prior to working with this product workers should be trained on its proper handling and storage

- Store in tightly closed/properly vented containers away from heat/sparks/open flame/strong oxidizers. Use only non-sparking tools. Store drums with bung in up position. Carefully vent internal pressure before removing closure. Containers must be grounded before transfer. Electrical equipment should conform to National Electric Code. Handle used containers with care; residue may be flammable/explosive, unless blanketed with inert gas.
- Isolate, vent, drain, wash, and purge equipment before maintenance. Remove all ignition sources, check atmosphere for explosiveness and oxygen deficiencies. Use adequate personal protective equipment. Observe precautions pertaining to confined space entry.

SECTION 8 ⊕ EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is usually required beyond that needed for normal comfort control.

OTHER HYGIENIC AND WORK PRACTICES: Emergency eye wash fountains and safety showers should be available in the immediate vicinity or any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

EXPOSURE LIMITS

OSHA PEL		ACGIH TLV (2005)	
METHYL TERT BUTYL ETHER			
TWA	STEL	TWA	STEL
Not Applicable (N.A.)	N.A.	50 ppm	N.A.

PERSONAL PROTECTIVE EQUIPMENT

- **EYES:** Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.
- **SKIN:** Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.
- **RESPIRATORY PROTECTION:** No occupational exposure standards have been developed for this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection is recommended.

SECTION 9 ϟ PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (760 MM HG): 131°F	**PERCENT VOLATILE BY VOLUME:** 100%
SPECIFIC GRAVITY (H_2O = 1): 0.74 @ 68°F	**VISCOSITY UNITS, TEMP:** No Data
FREEZING POINT: -164°F	**VAPOR DENSITY (AIR =1):** 3.1
VAPOR PRESSURE AT 68°F: 75 mm Hg	**SOLUBILITY IN WATER:** Approximately 4% to 5%
APPEARANCE AND ODOR: Clear, colorless liquid with ether-like odor.	

SECTION 10 ¤ STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: High temperature, open flame or spark.

OTHER PHYSICAL AND CHEMICAL PROPERTIES: No Data

MATERIALS TO AVOID: Strong oxidizing agents, ungrounded electrical equipment, open flames and spark.

HAZARDOUS POLYMERIZATION: Not Expected to Occur

SECTION 11 ֍ TOXICOLOGICAL INFORMATION

METHYL TERT BUTYL ETHER (MTBE)

Acute symptoms associated with human exposure to MTBE appear to be mild and transient. Breathing small amounts of MTBE for short periods may cause nose and throat irritation. In laboratory studies, rodents exposed to high doses of MTBE exhibited blood chemistry changes and liver and kidney abnormalities.

TOXICITY

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
$LD_{50(oral)}$	Mouse	3,500 mg/kg	$LC_{50(inh)}$	Mouse	35,000 ppm	$LD_{LO(oral)}$	Human	No Data Available

CARCINOGENICITY

IARC	Sufficient evidence in animals	Inadequate evidence in humans	Group 3: Possible human carcinogen
NTP	Not identified as a Know Carcinogen or Anticipated Human Carcinogen		

California (Prop 65): Listed as carcinogen	NIOSH: Not Listed	ACGIH: A3 – Confirmed Animal	OSHA: not classifiable as a human carcinogen

MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS

In laboratory studies, MTBE vapor exposure at the high dose concentration was associated with an increased incidence of liver tumors in female mice. Also, at high dose concentration exposures, MTBE was associated with an increased incidence of kidney and testicular (Leydig cell) tumors in male rats. There is no evidence that MTBE causes cancer in humans.

SECTION 12 ❋ ECOLOGICAL INFORMATION

ACUTE EFFECTS: MTBE is considered moderately toxicity to aquatic life. Insufficient data are available to evaluate or predict the short-term effects to birds or land animals.

CHRONIC EFFECTS: MTBE is considered moderately toxicity to aquatic life. Insufficient data are available to evaluate or predict the long-term effects to birds or land animals.

DISTRIBUTION AND PERSISTENCE IN THE ENVIRONMENT: MTBE evaporates when exposed to air. It dissolves when mixed with water. Most direct releases of MTBE to the environment are to air. MTBE also evaporates from water and soil exposed to air. Once in air, it is expected to break down to other chemicals. Because it is a liquid that does not bind well to soil, MTBE that makes its way into the ground can move through the ground and enter groundwater. Plants and animals are not likely to store methyl tertiary-butyl ether..

SECTION 13 ✣ DISPOSAL CONSIDERATIONS

Contaminated product/soil/water may be RCRA/OSHA hazardous waste due to low flash point. Use registered transporters. Dilute aqueous waste may biodegrade.

SECTION 14 ★ TRANSPORTATION INFORMATION

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations

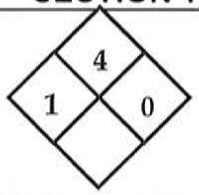
Agency	Shipping Name	Packing Group	Hazard Class	UN/NA #
U.S. DOT	Methyl tert-butyl ether	II	Flammable Liquid	UN 2398

SECTION 15 ☽ REGULATORY INFORMATION

CERCLA RQ's (40 CFR Part 302)	MTBE - 1,000 pounds
RCRA	Not Listed
SARA (40 CFR Part 355) TPQ's	None of the ingredients are listed
SARA Title III Section 313	All ingredients listed
California's Prop 65	All ingredients listed
OSHA	All ingredients are listed as hazardous under 29 CFR 1910.1200

SECTION 16 ❁ OTHER INFORMATION

NFPA 704 LABEL:



HMIS LABEL

1-4-0

MSDS REVISIONS: Change in Format and update of Information

MSDS CREATION DATE: July 1997 **REVISION #1:** 01/03/06

DISCLAIMER

The information in this MSDS was obtained from sources which we believe are reliable. **HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS ACCURACY.** Some conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. **FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.** All product measurements such as flash point, *etc.* are considered approximate values. All data provided by Explorer Pipeline Company.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, such as refined petroleum hydrocarbon mixtures, this MSDS information may not be applicable.

MSDS DEVELOPER: Cass Willard

Cass Willard, CIH

DATE: 01/03/06

APPENDIX C

Job Safety Analysis

JOB SAFETY ANALYSIS	Cntrl. No.	DATE:	☒ NEW ☐ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY **GENERIC**	WORK TYPE	WORK ACTIVITY (Description)	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☐ GLOVES:
☐ HARD HAT	☐ FACE SHIELD		☐ OTHER
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☐ SUPPLIED RESPIRATOR	
☐ SAFETY GLASSES	☐ SAFETY SHOES	☐ PPE CLOTHING:	

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment:

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A _ foot exclusion zone will be maintained around (indicate equipment).

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. [INSERT JOB STEP]	**1a. CONTACT:** [INSERT HAZARD]	1a.
	1b. CAUGHT: [INSERT HAZARD]	1b.
	1c. FALL: [INSERT HAZARD]	1c.
	1d. EXPOSURE: [INSERT HAZARD]	1d.
	1e. EXERTION: [INSERT HAZARD]	1e.
	1f. ENERGY SOURCE: [INSERT HAZARD]	1f.
2. [INSERT JOB STEP]	**2a. CONTACT:** [INSERT HAZARD]	2a.
	2b. CAUGHT: [INSERT HAZARD]	2b.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

	2c. FALL: [INSERT HAZARD]	2c.
	2d. EXPOSURE: [INSERT HAZARD]	2d.
	2e. EXERTION: [INSERT HAZARD]	2e.
	2f. ENERGY SOURCE: [INSERT HAZARD]	2f.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	Cntrl. No. GEN-011	DATE: 1/18/2015	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Site Recon**	**Site Walk and Inspection**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Anthony Giannetti	Staff Geologist	Daniel Abberton	SHSM
		Mike Ritorto	Project Hydrogeologist
		Joe Gentile	CHSM

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather/cut-resistant/chemical resistant
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: tyvek and rubber boots as necessary, dust mask as necessary
☐ LIFELINE / BODY HARNESS	☒ HEARING PROTECTION: ear plugs as necessary	☒ PPE CLOTHING: High-visibility vest or high-vis outerwear, sleeved shirt	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel or composite toed		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Site map and/or guide familiar with Site, operating cell phone or walkie-talkie if Site allows.

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE (EZ): A minimum 10' exclusion zone will be maintained around equipment.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Check in with Site manager.	**1a. CONTACT/EXPOSURE/FALL:** Lack of communication could result in H&S incident.	1a. Inform Site personnel of work scope, timeline and location(s). 1a. Inquire about hazards and other activities taking place at the Site. 1a. Discuss emergency evacuation procedures and muster points with Site manager..
2. Traversing the Site and setting up at work locations.	**2a. CONTACT:** Property damage and personal injury caused by obstructions/vehicles or unauthorized personnel at remote Sites.	2a. Maintain speed limit of 5 mph on-site. 2a. All equipment must be stowed and secured prior to moving. Use wheel chocks on all construction vehicles when not in motion. 2a. Drive on established roadways. 2a. Yield to all pedestrians. 2a. Do not back up vehicle without spotter where visibility is limited; use pull-through spots or back into parking spots; use an audible signal (horn/back-up alarm) when backing up vehicles. 2a. Wear high visibility clothing/safety vest. If working at remote Site, add orange accessories during hunting season.
	2b. FALL: Uneven terrain and weather conditions. Overgrown shrubs and vines. Equipment in the work zone.	2b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 2b. Use established pathways and walk on stable, secure ground. 2b. Communicate traversing hazards with others
	2c. OVEREXERTION: Muscle strain while carrying equipment.	2c. When carrying equipment to/from work area, use proper lifting techniques; keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Use mechanical assistance or make multiple trips to carry equipment. 2c. Two people or a mechanical lifting device are required when lifting objects over 50 lbs or when the shape makes the object difficult to lift.
	2d. EXPOSURE: Biological hazards - ticks, bees/wasps, poison ivy, insects, etc. (Ticks are most active any time the temperature is above freezing, typically from March to November.)	2d. Inspect area to avoid contact with biological hazards. 2d. Ticks: • Treat outer clothing including pants, shirts, socks, boots and hats the evening before use with Permethrin (allowing at least two hours before use). • Apply DEET to exposed skin before travelling to the Site and reapply after two hours. • Check for ticks during and after work. 2d. Bees: Use bee spray to remove nests. Protect exposed skin with insect repellent. 2d. Poison Ivy: • Identify areas of poison ivy and spray with weed killer. Don Tyvek and rubber boots while traversing poison ivy areas. • If skin comes in contact with poison ivy, wash skin thoroughly with soap and water.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.
[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

	2e. EXPOSURE: Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.	2e. Wear sunscreen with SPF 15 or greater on exposed skin whenever 30 minutes or more of sun exposure is expected. 2e. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 2e. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 2e. Wear appropriate rain gear as needed. 2e. Take frequent breaks if tired, wet, or cold/hot. Drink water. 2e. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.
3. Define and secure the work area.	**3a. CONTACT:** Personal injury or property damage from other vehicles on-site.	3a. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route. 3a. Look both ways in high traffic areas. 3a. Position vehicle to protect against oncoming traffic. 3a. Use 42" traffic cone and caution tape to delineate work area. Use a spotter in high traffic areas. 3a. Wear high visibility clothing/safety vest.
4. Walking near heavy equipment and machinery.	**4a. CONTACT:** Personal injury from Site and roadway traffic. Personal injury from flying debris.	4a. See 3a. 4a. Place traffic cones to re-direct traffic flow around work area and to alert others as to activity taking place. Evaluate possible need for police detail and request as needed. 4a. Maintain a minimum exclusion zone of 10 feet from all equipment. Task specific JSAs should be referenced to determine the actual exclusion zone for the piece of equipment being used. 4a. Keep body parts out of the line of fire of pinch points. 4a. Routinely inspect work area and be aware of location of all Site personnel. Make eye contact with spotter, if provided, or operator prior to entering the work area. 4a. Wear safety glasses at all times.
	4b. OVEREXERTION: Personal injury from lifting/moving/rotating equipment.	4b. See 2c.
	4c. EXPOSURE: Hearing damage from excavation activities. Inhalation/exposure to hazardous vapors and or dust.	4c. Monitor air quality with multi-gas meter and dust meter, if necessary. Use water to suppress dust, if necessary. Wear dust mask, if necessary. 4c. Wear hearing protection if >85 dBA. 4c. Always wear leather gloves when handling any tools or equipment. Wear cut-resistant gloves (Kevlar or similar) when handling sharp objects, glassware or cutting tools.
	4d. EXPOSURE: Working in a remote area.	4d. Use the "buddy system" whenever possible. If working alone, contact PM upon arrival/departure, as well as during work activities prior to commencing work. 4d. Always carry a communication (i.e., cell phone, walkie-talkie) or directional (i.e., map, compass, etc.) device when traversing remote areas.
5. Working in adverse weather conditions.	**5a. EXPOSURE:** Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.	5a. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 5a. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 5a. Wear appropriate rain gear as needed. 5a. Take frequent breaks if tired, wet, or cold/hot. Drink water. 5a. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.
6. Departing Site.	**6a. EXPOSURE:** Exposure to unnecessary hazards should personnel believe Roux is on-Site during an emergency and conduct a search.	6a. Sign out or notify Site personnel of your departure.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	Cntrl. No. GEN-010	DATE: 1/15/2014	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Site Recon**	**Mobilization/Demobilization**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Jared Lefkowitz	Staff Assistant Scientist	Daniel Abberton	SHSM
John Williams	OHSM	Mike Ritorto	Project Hydrogeologist
		Joe Gentile	CHSM

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION (as needed) ☒ SAFETY SHOES: Steel Toe or composite toe	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest of high-visibility clothing; sleeved shirt; long pants	☒ GLOVES: Leather, nitrile, and cut resistant (as needed) ☐ OTHER

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: None

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A minimum exclusion zone of 10' will be maintained around moving equipment (if heavy equipment is utilized)

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilize/demobilize and establish work area	**1a. FALL:** Slip/trips/falls from obstructions, uneven terrain, weather conditions, heavy loads, and/or poor housekeeping.	1a. Use 3 points-of-contact/ensure secure footing when entering and exiting vehicle. 1a. Inspect walking path for uneven terrain, steep hills, obstructions, and/or weather-related hazards (i.e., ice, snow, and puddles) prior to mobilizing equipment. Use established pathways. Walk on stable/secure ground. 1a. Do not climb over stored materials/equipment; walk around. Practice good housekeeping; organize and store equipment neatly in one area. 1a. Wear boots with adequate treads. 1a. Delineate unsafe areas with 42" cones, caution tape and/or flagging.
	1b. CONTACT: Personal injury and/or property damage caused by being struck by Site traffic or equipment used in Site activities.	1b. Observe and maintain the posted speed limits. 1b. When first arriving onsite, park vehicles in designated parking space and/or out of the way locations. Use parking brake on all vehicles and tire chocks on work trucks and trailers. 1b. Check in with Site Manager/Supervisor to ensure coordination with other Site activities and to discuss any special hazards. Ensure that short-service employees (SSE) are identified. 1b. Identify potential traffic sources. 1b. Wear PPE including high visibility clothing or reflective vest. 1b. Use a spotter while moving work vehicles; plan ahead to avoid backing whenever possible. 1b. Maintain a minimum 10' exclusion zone when vehicles are in motion. When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. 1b. Delineate work area with 42" cones, flags, caution tape, and/or other barriers. 1b. Position "Work Area" signs at Site entrances, if possible, or at either side of work area. 1b. Position largest vehicle to protect against oncoming traffic. 1b. Face traffic, maintain eye contact with oncoming vehicles, use a spotter, and establish a safe exit route. 1b. Observe potential overhead and ground surface features that may interfere with moving equipment. Clear the path of physical hazards prior initiating mobilization.
	1c. CAUGHT: Personal injury from pinch points and being in line-of-fire of vehicle and/or equipment.	1c. Make sure driver has engaged parking brake and placed wheel chocks in a position to prevent movement. Be sure that vehicle is parked in front/down gradient of work area. 1c. Wear leather gloves when handling any tools or equipment. Wear cut-resistant gloves (Kevlar or similar) when handling sharp objects/cutting tools/glass. 1c. Keep body parts away from line-of-fire of equipment. 1c. Always carry tools by the handles and/or designated carrier. Ensure sharp-edged tools are sheathed/secure.

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[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

		1c. Remove any loose jewelry. Avoid wearing loose clothing and/or ensure loose clothing is secure. 1c. Secure all items on the equipment, tighten up any items or features that have potential to shift or break during mobilization.
	1d. OVEREXERTION: Muscle strains while lifting/carrying equipment.	1d. Use body positioning and lifting techniques that avoid muscle strain; keep back straight, lift with legs, keep load close to body, and never reach with a load. 1d. Ensure that loads are balanced. Use assistance (mechanical or additional person) to carry equipment that is either unwieldy or over 50 lbs.
	1e. EXPOSURE: Personal injury from exposure to biological and environmental hazards.	1e. Inspect area to avoid contact with biological hazards (i.e. poisonous plants, stinging insects, ticks, etc.). 1e. Wear long sleeved clothes treated with Permethrin, apply insect repellant containing DEET to exposed skin, and inspect clothes and skin for ticks during and after work. 1e. Apply sunscreen (SPF 15+) if exposure to sun for 30 minutes or more is expected.
	1f. EXPOSURE: Heat and cold related injuries.	1f. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 1f. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 1f. Wear clothing appropriate for weather and temperature conditions (e.g., rain jackets, snow pants, multiple layers). 1f. If lightning is observed, wait 30 minutes in a sheltered location (car is acceptable) before resuming work.
	1g. EXPOSURE: Personal injury from noise hazards.	1g. Wear hearing protection if sound levels exceed 85 dBA (if you must raise your voice for normal conversation).

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[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – electricity, pressure, compression/tension.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	Cntrl. No. GEN-009	DATE: 2/11/2015	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Hand Tools**	**Pre-Clearing activities, including Air Knifing and Soil Vacuuming**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Alyssa Lau	Staff Engineer	Daniel Abberton	SHSM
		Mike Ritorto	Senior Hydrogeologist
		Laura Jensen	Staff Hydrogeologist

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☒ FACE SHIELD (while air knifing) ☒ HEARING PROTECTION (as needed) ☒ SAFETY SHOES: Steel or composite toed	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ GLOVES: Nitrile and cut resistant ☒ OTHER: Dust mask (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Air Knife, Vactor Truck (Vac Truck), Compressor, Hand Tools, Circular Saw, Dust Mask, Photoionization Detector, Multi-Gas Meter, Traffic Cones, Rigid Barrier, Caution Tape, 20 lb. Fire Extinguisher, "Work Area" and/or "Exclusion Zone" Signs

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A 10 foot exclusion zone will be maintained around air knife and/or soil vacuum operations.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Verify pre-clearance protocol.	1a. **CONTACT**: Underground utility damage; property damage; personal injury. See Site Walk Inspection JSA for potential hazards.	1a. Confirm that local utility companies were contacted prior to drilling. 1a. Walk the Site to evaluate utility markings and review maps (**See Site Walk Inspection JSA for critical actions**). 1a. Review pre-clearing checklist form and sub-surface clearance form. Pre-clearing protocol indicates that clearance must be conducted to a minimum of 5 vertical feet below ground surface or 8 vertical feet below ground surface in the critical zone using hand tools.
2. Mobilize/demobilize and establish work area.	2a. **See Mobilization / Demobilization JSA for potential hazards.**	2a. **See Mobilization / Demobilization JSA for critical actions.**
3. Pre-clear with air knife, water lance, and soil vacuum, and/or clearance with hand tools	3a. **CONTACT**: Flying debris striking face or body	3a. **Maintain 10 foot exclusion zone.** Only (air knife/vac truck) operator and designated helper shall remain within exclusion zone while air knife/vac truck is active. Use the required PPE, including (at a minimum), cut resistant gloves, safety glasses with side shields, and long sleeved shirt. 3a. Wear a face shield to protect face from flying debris when using air knife. 3a. Aim air knife tip away from self and others, so to avoid line-of-fire hazards. 3a. Use anti-whip devices on compressor hoses.
	3b. **EXPOSURE/ENERGY SOURCE**: Inhalation/exposure to hazardous vapors; inhalation/exposure to dust; electrocution.	3b. Monitor breathing zone with a calibrated PID and multi-gas meter. If vapors sustain levels > 5 ppm, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux Project Manager of the condition. The Roux Project Manager will then recommend additional precautions. 3b. Wear dust masks as needed 3b. Ensure no open flames/heat sources are present within the work area. 3b. No open flames/heat sources. 3b. Ensure vac truck is properly grounded prior to use. 3b. Do not use metal dig bar; use fiberglass or equivalent.
	3c. **CONTACT:** Damage to unknown/known utility with air knife.	3c. Avoid contacting utilities directly with the high pressure air stream and using the air knife tip as a physical digging tool. 3c. Keep the air knife tip constantly moving to reduce direct pressure on a potential utility. 3c. increase the distance between air knife tip and soil/utility. 3c. Continually remove soil slurry from hole with vacuum, which may have an abrasive effect on utility casings.
	3d. **ERGONOMICS** Poor body positioning when handling equipment and materials.	3d. Use proper body positioning and lifting techniques that minimizes muscle strain; keep back straight, lift with legs, keep load close to body, and never reach with a load.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Pre-clearing with air knife and soil vacuum, and/or clearance with hand tools (continued)	3d. **ERGONOMICS**: (continued) Poor body positioning when handling equipment and materials.	3d. Ensure that loads are balanced to reduce the potential for muscle strain. 3d. Two people or a mechanical lifting aid are required when lifting objects over 50 lb. or when the shape makes the object difficult to lift.
	3e. **FALL**: Tripping/falling due to uneven terrain, weather conditions, and materials/equipment stored at the Site.	3e. Inspect walking path for uneven terrain, weather-related hazards (e.g., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 3e. Walk around any stored materials/equipment; do not climb over. Practice good housekeeping. 3e. Use established pathways and walk on stable, secure ground. 3e. Equipment and tools will be stored at the lowest point of potential energy and out of the walkway and immediate work area (i.e., tools should not be propped against walls or nearby equipment or vehicles). 3e. Equipment and tools that are not anticipated to be used will be returned to a storage area that is out of the immediate work area. 3e. Ensure power cords/hoses are grouped when used within the work area. Mark out cords/hoses that cross pathways with traffic cones. 3e. Ensure all Site personnel and equipment stay a minimum of 2 feet from an open hole. Mark out open holes with traffic cones/caution tape, etc. 3e. Pre-cleared location will be finished flush to grade as to prevent a slip/trip hazard.
	3f. **CAUGHT**: Pinch points or amputation points associated with the equipment and vacuum hose.	3f. Always wear cut-resistant gloves when making connections and using hand tools. 3f. Inspect the equipment prior to use for potential pinch points. 3f. Test all emergency shutdown devices prior to using equipment. 3f. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3f. **All non-essential personnel shall maintain a 10 foot exclusion zone**; position body out of the line-of-fire. 3f. **Drillers and helpers will understand and use the "Show Me Your Hands Policy".**
	3g. **EXPOSURE**: Noise from vac truck and/or air compressor.	3g. Wear hearing protection when vac truck and air compressor are in operation. Otherwise, if sound levels exceed 85 dB, don hearing protection.
4. Move drum to staging area using drum cart.	4a. **EXPOSURE/CONTACT**: Contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, soil).	4a. Wear chemically resistant gloves (i.e., Nitrile; worn in addition to cut resistant gloves). 4a. Do not overfill drums. Ensure that the drum lids are attached securely. 4a. Stage all drums in the designated storage area (per Roux Project Manager) and ensure they are labeled.
	4b. **ERGONOMICS**: Muscle strain while maneuvering drums with drum cart/lift gate.	4b. See 3d. Do not overfill drums. Use lift gate on back of truck to load and unload drums or drum cart to transport drums.
	4c. **CAUGHT**: Pinch points or amputation points associated with handling drum lid.	4c. Ensure that fingers are not placed under the lid of the drum. Wear cut-resistant gloves. Use 15/16" ratchet while sealing drum lid.
5. Decontaminate equipment and tools.	5a. **EXPOSURE/CONTACT**: To contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, vapors).	5a. See 4a. 5a. Contain decontamination water (closed lid) so that it does not spill. 5a. Use an absorbent pad to clean spills, if necessary. 5a. Store all impacted materials/PPE in a designated storage container (per Roux Project Manager) and ensure the container is labeled.
	5b. **EXPOSURE**: To chemicals in cleaning solution.	5b. See 4a.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-004	DATE 1/8/2015	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
Generic	**Drilling**	**Direct Push Soil Borings / Well Installation**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Jeffrey Wills	Project Hydrogeologist	Laura Jensen	Staff Hydrogeologist
		Dan Abberton	Health and Safety Officer
		Michael Ritorto	Senior Hydrogeologist

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION: (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing, Sleeved Shirt	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Geoprobe or Truck-Mounted Direct Push Drill Rig, Hand Tools, Photoionization Detector, Multi-Gas Meter (or equivalent), Macrocore liners, Liner Opening Tool, 20 lb. Fire Extinguisher, 42" Cones & Flags, "Work Area" Signs, Water

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Exclusion Zone Policy – All non-essential personnel will maintain a distance of 10 feet from drilling equipment while moving/engaged.

"SHOW ME YOUR HANDS"
Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization of drilling rig (ensure the Subsurface Clearance Protocol and Drill Rig Checklist are completed)	1a. **CONTACT**: Equipment/property damage.	1a. The drill rig's tower/derrick will be lowered and secured prior to mobilization. 1a. A spotter should be utilized while moving the drill rig. If personnel move into the path of the drill rig, the drill rig will be stopped until the path is again clear. Use a spotter for all required backing operations. 1a. Set-up the work area and position equipment in a manner that eliminates or reduces the need for backing of support trucks and trailers. 1a. When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. 1a. Inspect the driving path for uneven terrain. Level or avoid if needed. 1a. Drill rig should have a minimum **exclusion zone of 10 feet** for non-essential personnel (i.e., driller helper, geologist) when the rig is moving/ in operation.
	1b. **FALL**: Slip/trip/fall hazards.	1b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 1b. Use established pathways and walk on stable, secure ground.
2. Raising tower/derrick of drill rig	2a. **CONTACT**: Overhead hazards.	2a. Prior to raising the tower/derrick, the area above the drilling rig will be inspected for wires, tree limbs, piping, or other structures, that could come in contact with the rig's tower and/or drilling rods or tools. 2a. Maintain a safe distance of 10' from overhead structures.
	2b. **CONTACT**: Pinch Points/Amputation Points when raising the rig and instability of rig	2b. Inspect the equipment prior to use and avoid pinch/amputation points. 2b. Lower out riggers on rig to ensure stability prior to raising rig tower/derrick. 2b. If the rig needs to be mounted, be sure to use three points of contact.
3. Advancement of drilling equipment and well installation	3a. **CONTACT**: Flying debris	3a. Be aware of and avoid potential lines of fire and wear required PPE such as eye, ear, and hand protection.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Advancement of drilling equipment and well installation (Continued)	3b. **EXPOSURE**: Noise and dust.	3b. Wet borehole area with sprayer to minimize dust. 3b. Stand upwind and keep body away from rig. 3b. Dust mask should be worn if conditions warrant. 3b. Wear hearing protection when the drill rig is in operation.
	3c. **CAUGHT**: Limb/extremity pinching; abrasion/crushing.	3c. Always wear leather gloves when making connections and using hand tools; wear cut-resistant (i.e., Kevlar) gloves when handling cutting tools. 3c. Inspect the equipment prior to use for potential pinch/amputation points. Keep hands away from being between pinch/amputation points and use of tools is preferable compared to fingers and hands. 3c. Inspect drill head for worn surface or missing teeth; replace if damaged or blunt. 3c. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3c. All non-essential personnel should stay away from the immediate work area; position body out of the line-of-fire of equipment. 3c. Drillers and helpers will understand and use the “Show Me Your Hands” Policy. 3c. Spinning rods/casing have an **exclusion zone of 10 feet** while in operation.
	3d. **CONTACT**: Equipment imbalance during advancement of drill equipment.	3d. Drillers will advance the borehole with caution to avoid causing the rig to become imbalanced and/or tip. 3d. The blocking and leveling devices used to secure the rig will be inspected by drillers and Roux personnel regularly to see if shifting has occurred. 3d. In addition, personnel and equipment that are non-essential to the advancement of the borehole will be positioned away from the rig at a distance that is at least as far as the boom is high (**minimum exclusion zone of 10 feet**).
	3e. **EXPOSURE**: Inhalation of contamination/vapors.	3e. Air monitoring using a calibrated photoionization detector (PID) will be used to periodically to monitor the breathing zone of the work area. 3e. If a reading of >5ppm is recorded, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux PM of the condition. The Roux PM will then recommend additional precautions in accordance with the site specific health and safety plan.
	3f. **FALL**: Slip/trip/fall hazards.	3f. Contain drill cuttings and drilling water to prevent fall hazards from developing in work area. 3f. See 1b.
	3g. **EXERTION**: Potential for muscle strain/injury while lifting and installing well casings, lifting sand bags, and/or lifting rods.	3g. Keep back straight and bend at the knees. 3g. Utilize team lifting for objects over 50lbs. 3g. Use mechanical lifting device for odd shaped objects.
4. Decontaminate equipment.	4a. **EXPOSURE/CONTACT**: To contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, vapors).	4a. Wear chemical-resistant disposable gloves and safety glasses. 4a. Contain decontamination water so that it does not spill. 4a. Use an absorbent pad to clean spills, if necessary. 4a. See 3b.
	4b. **EXPOSURE:** To chemicals in cleaning solution including ammonia.	4b. See 4a. Review SDS to ensure appropriate precautions are taken and understood.

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JOB SAFETY ANALYSIS	Ctrl. No.	DATE 1/23/2015	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
Generic	**Drilling**	**Hollow Stem Auger Soil Borings /Well Installation**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Gina Vanderlin	Project Scientist	Joseph Gentile	CSHM

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION: (as needed) ☒ SAFETY SHOES steel or composite toe	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: fluorescent sleeved shirt or sleeved shirt and reflective safety vest.	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Truck-Mounted Drilling Rig or Track Rig, Saw, Hand Tools, Photoionization Detector, Multi-Gas Meter (or equivalent), Interface Probe, 20 lb. Fire Extinguisher, 42" Cones & Flags, "Work Area" Signs

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE POLICY – All non-essential personnel shall maintain a **10 foot** exclusion zone while drill rig is engaged

"SHOW ME YOUR HANDS"
Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization of drilling rig	1a. **CONTACT**: Equipment or property damage.	1a. The drill rig's tower/derrick will be lowered and secured prior to mobilization. 1a. A spotter should be utilized while moving or backing the drill rig. If personnel move into the path of the drilling rig, the drilling rig will be stopped until the path is again clear. 1a. Set-up the work area / position equipment in a manner that eliminates or reduces the need for backing of trucks and trailers. 1a. When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. 1a. Inspect the driving path for uneven terrain. Level or avoid if needed.
	1b. **FALL**: Slip/trip/fall hazards.	1b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 1b. Use established pathways and walk on stable, secure ground. 1b. Use three points of contact when mounting or dismounting the rig.
2. Raising tower/derrick of drilling rig	2a. **CONTACT**: Overhead hazards.	2a. Prior to raising the tower/derrick, area above the drilling rig will be inspected for overhead hazards (wires, tree limbs, piping, or other structures) that may be contacted by the rig's tower or drilling rods. 2a. The tower/derrick must not be raised beneath overhead power lines unless approved by both the ExxonMobil and Roux PMs. 2a. Maintain at a minimum 10' from overhead structures. 2a. Do not move the rig while the tower/derrick is raised.
	2b. **CONTACT**: Pinch points when raising the rig; crushing hazard with stability of rig during set-up	2b. Inspect the equipment prior to use and avoid placing hands near pinch points. 2b. Lower out riggers on rig to ensure stability prior to raising rig tower derrick. 2b. Inspect the set-up location for uneven terrain. Level or avoid area if needed.
3. Advancement of augers for soil borings and well material installation.	3a. **CONTACT:** Flying / spraying debris.	3a. Wear minimum level D PPE 3a. Be aware of and avoid potential lines of fire.
	3b. **EXPOSURE:** Noise and dust.	3b. Wet borehole area with sprayer to minimize dust. Stand upwind and keep body positioned away from rig. 3b. Wear hearing protection while drill rig is operating/or the noise levels exceed 85dBA.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
4. Advancement of augers for soil borings, and well material installation (Continued).	4c. **CAUGHT**: Limb/extremity pinching, abrasion, and crushing.	4c. Always wear leather gloves when making connections and using hand tools; wear cut-resistant (i.e., Kevlar) gloves when handling cutting tools. 4c. Test all emergency shutdown devices prior to drilling. 4c. Inspect drill head for worn surface or missing teeth; replace if damaged or blunt. 4c. Inspect augers; do not use if auger flight if damaged or bent. 4c. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 4c. All non-essential personnel should stay away from the immediate work area; position body out of the line-of-fire of equipment particularly when installing auger flights. 4c. Drillers and helpers will understand and use the "Show Me Your Hands" Policy. 4c. Spinning augers should have an **exclusion zone of 20 feet** when in operation.
	4d. **CONTACT**: Equipment imbalance during advancement of drill equipment.	4d. Drillers will advance the borehole with caution to avoid causing the rig to become imbalanced and/or tip. 4d. The blocking and leveling devices used to secure the rig will be inspected by drillers and Roux personnel regularly to see if shifting has occurred.
	4e. **EXPOSURE**: Inhalation of contamination/vapors.	4e. Air monitoring using a calibrated photoionization detector (PID) will be used to periodically monitor the breathing zone of the work area. 4e. The Action Level for breathing zone air is five parts per million (sustained) as detected by the PID. 4e. If a reading of >5ppm is recorded, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux PM of the condition. The Roux PM will then recommend additional appropriate precautions in accordance with the site specific health and safety plan.
	4f. **FALL**: Slip/trip/fall hazards.	4f. See 1b. 4f. Remove soil cuttings to avoid a tripping hazard from developing near augers.
	4g. **EXERTION**: Installing well casings and lifting augers.	4g. Keep back straight and bend at the knees. 4g. Utilize team lifting for objects over 50lbs. 4g. Use mechanical lifting device for odd shaped objects.
	4h. **CONTACT**: Using hand tools to install well casings and materials	4h. Wear cut resistant and leather gloves. 4h, Secure materials on a level surface before cutting 4h. Place hands out of the line of fire 4h. Inspect all tools prior to use and remove damaged tools from service
5. Cleaning the auger flights	5a. **CONTACT:** Cuts/scrapes or puncture wound from contacting rotating auger.	5a. Follow "No Hands" Procedure and make sure auger is out of gear before contacting auger with hands or tool. 5b. When using a cleaning tool, pull across your body with handle away from body; do not push toward the auger. 5b. Do not clean more than ¾ turn around the auger at a time. 5b. Wear cut resistant and leather gloves. 5b. Always use two hands when operating cleaning tool. 5b. Inspect any tool before use and remove from service if handle or metal are cracked/fatigued. 5b. Stand out of the line of fire.
6. Decontaminate equipment.	6a. **EXPOSURE/CONTACT:** To contamination (e.g., contaminated groundwater, vapors). 6b. **EXPOSURE**: To chemicals in cleaning solution (including ammonia)	6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Contain decontamination water so that it does not spill. 6a. Use an absorbent pad to clean spills, if necessary. 6b. See 5a.

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JOB SAFETY ANALYSIS Cntrl. No. GEN-012	DATE: 2/3/2015	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY: **GENERIC**	WORK TYPE: **Gauging & Sampling**	WORK ACTIVITY (Description): **Soil Sampling**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Michael Hodess	Staff Environmental Scientist	Mike Ritorto	Senior Hydrogeologist
		Leo Kurylo	IL-OHSM

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES ☒ FLAME RESISTANT CLOTHING (as needed)	☐ GOGGLES ☐ FACE SHIELD: ☒ HEARING PROTECTION: (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Recommended Equipment: 42" traffic cones, caution tape, trowel

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A minimum 10' exclusion zone will be maintained around moving equipment, if present.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Secure location	1a. **CONTACT:** Personnel and vehicular traffic may enter the work area.	1a. If in an area with foot or vehicle traffic, delineate the work area with 42" traffic cones and/or caution tape to prevent exposure to traffic and inform others of work activity. 1a. Wear reflective vest and/or high visibility clothing. 1a. Face the direction of any vehicular traffic. Position vehicle to protect worker from traffic. 1a. Communicate work activity with adjacent work areas.
	1b. **FALL:** Tripping/falling due to uneven terrain or entry/exit from excavations.	1b. Inspect pathways and work area for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions. 1b. Use established pathways and walk on stable, secure ground. 1b. Stage equipment and tools in a convenient, stable, and orderlymanner. Store equipment at lowest potential energy. 1b. Roux employees should stay 5 feet from in-progress excavations and trenches. Should entry to an excavation be appropriate (when stabilization is complete), ladders must be employed for steep embankments, excavations, pits, and trenches.
	1c. **EXPOSURE:** Exposure to sun and excessive heat, possibly causing sunburn, heat exhaustion or heat stroke. Exposure to cold temperatures possibly causing cold stress. Skin burn as a result of fire, if applicable. Exposure to explosive vapors due to tank farm operations, Biological hazards - ticks, bees/wasps, poison ivy, thorns, insects, etc.	1c. Wear sunscreen with an SPF 15 or greater whenever 30 minutes or more of exposure is expected. 1c. Use a tent to shade the work area from direct sunlight particularly when warm temperatures are expected. 1c. Be aware of the location of all Site personnel. 1c. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). 1c. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). 1c. Take breaks for rest and water as necessary. Move to an area that is well shaded or a climate controlled area (i.e., car, site trailer, etc.). 1c. No open flames/heat sources. 1c. Flame resistant clothing must be worn when specified by Site policy. 1c. Cell phones should be disabled when specified by Site policy. 1c. Pre-treat field clothing with Permethrin prior to site visit to kill/repel ticks and insects. 1c. Wear long sleeved shirts and tuck in (or tape) pant legs into socks or boots to prevent ticks from reaching skin. 1c. Spray insect repellant containing DEET on exposed skin when working in overgrown areas of the Site. 1c. Inspect area to avoid contact with biological hazards. 1c. Wear cut-resistant gloves when handling branches, shrubs, etc. that may lie within the walking path. 1c. Personnel shall examine themselves and co-worker's outer clothing for ticks periodically when onsite. 1c. If skin comes in contact with poison ivy, wash skin thoroughly with soap and water. If rash persists after washing, immediately notify your supervisor and the CHSM for possible consultation with a physician at an approved Occupational Health Clinic.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
2. Collect Soil Sample	2a. **CONTACT:** Personal injury from pinch points, cuts, and abrasions from sampling equipment tools, and material within soil sample. Personal injury from contact with moving equipment while sampling.	2a. Wear cut-resistant (i.e., Kevlar) gloves under chemical-resistant disposable gloves when handling soil samples and sampling jars. 2a. Where possible, use trowel or equivalent tool to avoid contact with soil. 2a. If sampling from bucket of heavy equipment, ensure all equipment is off and operator utilizes the "show me your hands" policy. 2a. See 1a.
	2b. EXPOSURE: Exposure to contamination (impacted soil) and/or lab preservatives.	2b. Wear chemical-resistant disposable gloves over cut resistant gloves to protect hands when handling samples; use containment material or plastic sheeting to protect surrounding areas. 2b. When collecting soil sample from hand auger, put large zip lock bag over entire auger to prevent spillage of soil on to the ground. 2b. Open sample jars slowly and fill carefully to avoid contact with preservatives.
3. Decontaminate equipment	3a. **EXPOSURE/CONTACT:** Contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated vapors and/or soil).	3a. Wear chemical-resistant disposable gloves and safety glasses. 3a. Use an absorbent pad to clean spills. 3a. Properly dispose of used materials/PPE in provided drums in designated drum storage area. 3a. Remain upwind of sample and avoid breathing contaminant vapors, if they are present.
	3b. **EXPOSURE:** Chemicals in cleaning solution including ammonia.	3b. Wear chemical-resistant disposable gloves and safety glasses. 3b. Work on the upwind side of decon. area. 3b. Use an absorbent pad to clean spills. 3b. Properly dispose of used materials/PPE in provided drums in designated drum storage area.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	Ctrl. No. GEN 007	DATE: 2/3/2015	☐ NEW ☒ REVISED	PAGE 1 of 1
JSA TYPE CATEGORY **Generic**	WORK TYPE **O&M**	WORK ACTIVITY (Description) **Movement of 55-Gallon Drums/Drum Handling with Mobile Carrier**		

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Michael Smith	Senior Technician	Daniel Abberton	SHSM
		Ray Greenidge	Project Engineer

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant gloves
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER:
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent sleeved shirt or sleeved shirt and reflective safety vest.	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel or composite toe		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Mobile Drum Carrier, safety cones, and caution tape

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A 10' exclusion zone will be maintained around forklift.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Secure Work Area, Inspect 55-gal drums for proper condition, labeling, check drum ring and bolts for tightness, inspect mobile drum carrier.	1a. **FALL:** Tripping/falling due to uneven surface terrain	1a. Inspect walking path for uneven terrain, weather-related hazards (i.e. debris, puddles, ice, etc.), and other obstructions prior to accessing work area. 1a. Use established pathways and walk on stable, secure ground. 1a. Secure work area and coordinate and communicate the planned work activities with other personnel working in the area. 1a. Delineate work area with 42" safety cones.
	1b. **CONTACT/EXPOSURE:** Drums could potentially be damaged and contain hazardous material. Mobil drum carrier could potentially not be in good working condition causing malfunctioning during operation.	1b. Prior to inspecting drums don cut-resistant gloves. If drum is not properly labeled, do not open and cease all drum transport activities. Immediately contact project manager and inform him/her of drum situation. 1b. Do not continue drum transport activities until further actions are determined by the project manager. 1b. If the drum is properly labeled, but leaking, improperly sealed or in poor condition, place drum in an over-pack drum. 1b. Inspect mobile drum carrier to ensure the overall integrity of the carrier. Look for rust marks or potential weak points where the drum carrier could malfunction. Inspect the wheels to ensure that they easily turn and nothing is impeding their movement.
	1c. **EXERTION/CAUGHT:** Potential pinching/exertion hazards while securing ring/ tightening bolts	1c. Keep back straight and knees slightly bent while securing drum ring/tightening bolt. Wear cut-resistant gloves.
2. Position drum clamp in between drum ribs, securing drum clamp to drum with chain	2. **CAUGHT:** Pinching fingers between drum clamp and handle/chain.	2. Attach drum clamp with chain and tighten until snug. Do not place hands between drum clamp and drum as the chain is tightened; wear cut resistant gloves.
3. Disengage safety latches on handle, pull handle down until drum is lifted off ground and safety latches are reengaged; slightly suspending drum off of the ground	3a. **EXERTION/ CONTACT:** Potential muscle strain associated with lifting/engaging drum/handle. Drum could shift/slip downward and crush toes.	3a. Ascertain whether the drum is overweight; if it is, then two people are needed to lower handle while drum is secured with clamp so that safety latches can be engaged. Keep body out of the line of fire of the handle (do not position head above handle) as it is being pushed down. Do not allow feet/toes to be positioned under the drum as it is being lifted; wear steel/composite toe boots.
	3b. **CAUGHT:** Fingers could be pinched while engaging/disengaging safety latches on handle	3b. Wear cut-resistant gloves while disengaging/reengaging safety latches.
4. Transport drums to designated location and disengage drum clamp (repeat Step 3 in reverse order)	4a. **FALL:** Tripping/ falling due to obstructions and uneven terrain. Potential for drum to fall during transport.	4a. Ensure transport path is free of potential obstructions that may cause the drum/carrier to become unstable. Position drum clamp between the ribs on the drum to prevent possible slipping.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

JOB SAFETY ANALYSIS	Cntrl#: GEN-015	DATE 1/27/15	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
GENERIC	**Drilling**	**Monitoring and Recovery Well Development**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Amy Hoffman	Staff Geologist	Mike Ritorto	Senior Hydrogeologist
Ron Lombino	Staff Geologist	Daniel Abberton	

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment as needed: Truck Rig or support truck, Trailer, 42 inch Safety cones and flags, Caution Tape, Interface Probe, Power Source, Submercible Pump, Surge Block/Plunger, 20 lb. Fire Extinguisher, Holding Tanks and/or Buckets, Tools as needed: Socket and Pipe Wrench, Screw Driver, Pry Bar, Ratchet, Vault Key.

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Maintain a 20 Foot Exclusion Zone During Development Activities

"SHOW ME YOUR HANDS"
Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization / Demobilization (**Review Mobilization and Demobilization JSA**)	1a. **CONTACT:** Equipment/property damage.	1a. The truck rig's tower/derrick will be lowered and secured prior to mobilization. 1a. Set-up the work area / position equipment in a manner that eliminates or reduces the need for backing of trucks and trailers. 1a. All non-essential personnel should **maintain an exclusion zone of 20 feet**. 1a. Beep horn twice before backing up. 1a. When backing up with an attached trailer use a spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. Stay away from the line-of-fire. 1a. Inspect the driving path for uneven terrain. Level or avoid if needed.
	1b. **FALL:** Slip/trip/fall hazards.	1b Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Store equipment at lowest potential energy.
2. Open/close well.	2a. **OVEREXERTION:** Muscle strain (some wells have large vault covers).	2a. Keep back straight, lift with legs, keep load close to body, and never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Two people are required when lifting objects over 50 lbs or when the shape makes the object difficult to lift.
	2b. **CAUGHT:** Pinch points associated with removing/replacing manholes and working with hand tools.	2b. Wear leather gloves when working with well vault/cover and hand tools. Do not put fingers under well vault/cover. 2b. Use ratchet and pry bar for well cover and inspect before use.
	2c. **EXPOSURE:** Potentially hazardous vapors.	2c. No open flames/heat sources. 2c. Allow well to vent after opening it and before starting development activities to minimize exposure to vapors. Air monitoring must be performed prior to set up and during the well development activities. Work on upwind side of well.
	2d. **CONTACT:** Traffic.	2d. Wear required PPE including high visibility clothing or reflective vest. 2d. Delineate work area with 42" safety cones and/or other barriers. Position vehicle to protect against oncoming traffic. 2d. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Develop well (mechanical surging).	3a. **CAUGHT:** Cut hazards and finger pinch points.	3a See 2b. 3a. Use required PPE including leather/cut-resistant gloves when handling development equipment. Identify finger/hand pinch points. Keep hands away from active surge equipment. 3a. All non-essential personnel should **maintain an exclusion zone of 20 feet**.
	3b. **CONTACT/EXPOSURE:** Contamination (e.g., SPH, contaminated groundwater, vapors).	3b. See 2c. 3b. Wear Nitrile gloves and safety glasses. Insert and remove surge block/plunger and line/cable slowly to avoid splashing at the surface. 3b. Use an absorbent pad to clean any spills.
	3c. **OVEREXERTION:** Muscle strain from lifting equipment.	3c. See 2a. 3c. Use mechanical device to insert and remove surge block/plunger if greater than 50lb.
	3d. **CONTACT:** Injury while handling wench line/cable, or with active surging equipment	3d. If using a drill rig, inspect all wench lines/cables for any kinks or if frayed prior to use. Replace any damaged lines/cables. Review **Drill Rig checklist prior to development activities**. 3d. See 3a.
4. Purging well (pumping water to holding tanks/drums/buckets).	4a. **CAUGHT:** Pinch points associated with connecting hose to tank. Pinch points associated with handling pump and hoses.	4a. See 3a. 4a. Ensure that fingers are not placed near coupling when attaching and securing hose(s). Do not place fingers under pump/hoses. Wear leather or cut-resistant gloves when handling pump/hose(s). 4a. Keep hands clear from any line of fire.
	4b. **FALL:** Using side mounted ladder when attaching hose to tank. Slip, trip, fall from lines/hoses	4b. Inspect ladder steps to make sure steps are not bent/damaged and free of debris/fluid. 4b. Use three points of contact at all times when using ladder. 4b. Utilize anti-whip cords on all compressed hoses. Keep hoses and lines coiled and organized out of designated walking paths around the work zone.
	4c. **CONTACT:** Contamination (e.g., SPH, contaminated groundwater).	4c. Secure water hose. 4c. Do not overfill tanks, and purge/transfer liquids in such a manner that they do not splash. (See 3b). 4c. Dispose of used materials/PPE in the designated impacted PPE container.
	4d. **EXERTION:** Muscle strain from lifting/carrying equipment.	4d. See 2a.
	4e.**FALL:** Spilled purge water.	4e. Clean up any spills using absorbent pads or spill kits.
5. Decontaminate equipment	5a. **CONTACT/EXPOSURE:** Contamination (e.g., SPH, contaminated groundwater, vapors).	5a. See 3b.
	5b. **EXPOSURE/CONTACT:** Chemicals in cleaning solution	5b. Decontaminate equipment in well-ventilated area. Wear nitrile gloves to avoid skin contact with cleaning solutions.

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JOB SAFETY ANALYSIS Ctrl. No. GEN-005	DATE 2/4/2015	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE:	WORK ACTIVITY (Description):
Generic	**Gauging and Sampling**	**Gauging and Sampling**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Gina Masciello	Project Scientist	Joe Gentile	Corp H&S Mgr
Louis Goldstein	Staff Engineer	Michael Ritorto	Project Hydrogeologist
		Louis Goldstein *(as part of annual review)*	Staff Engineer

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☒ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☐ HEARING PROTECTION ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Knee pads, Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

42-inch Safety Cones, Caution Tape, Interface Probe and/or Water Level Meter, 20-lb., Type ABC Fire Extinguisher, Buckets. Tools as needed: Socket Wrench, Screw Driver, Crow Bar, Mallet, and Wire Brush.

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization to monitoring well(s).	1a. **FALL:** Personal injury from slip/trip/fall due to uneven terrain and/or obstructions.	1a. Inspect pathway and plan for most suitable designated pathway prior to mobilization. 1a. Use established pathways, walk and/or drive on stable, secure ground and avoid steep hills or uneven terrain. 1a. If working near open water with an unguarded edge, wear life vest.
	1b. **CONTACT:** With traffic/third parties.	1b. Identify potential traffic sources and delineate work area with 42-inch traffic safety cones. Position vehicle to protect against oncoming traffic. Use caution tape to provide a more visible delineation of the work area if necessary. 1b. Wear appropriate PPE including high visibility clothing or reflective vest. 1b. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route.
	1c. **EXPOSURE:** To biological hazards.	1c. Inspect work area for bees and insects. 1c. Use insect/tick repellent as necessary.
2. Open/close well.	2a. **ERGNOMICS:** Muscle strain.	2a. Use proper lifting techniques; keep back straight, lift with legs and bend knees when reaching to open/close well.
	2b. **CAUGHT:** Pinch/crush points associated with removing/replacing manholes and working with hand tools.	2b. Wear leather gloves or cut resistant gloves when working with well cover and hand tools. 2b. Use proper tools (ratchet and pry bar for well cover) and inspect before use. 2b. Do not put fingers under well cover.
	2c. **CAUGHT:** Pinch points associated with placing J-plug back onto PVC pipe.	2c. See 2b. 2c. Keep fingers out of line-of-fire when securing cap
	2d. **EXPOSURE:** To potential hazardous vapors.	2d. No open flames/heat sources. 2d. To minimize exposure to vapors allow well to vent after opening it and before sampling activities begin. 2d. Stand up-wind, if possible, to avoid vapors.
3. Gauge well.	3a. **CONTACT:** With contamination (e.g. contaminated groundwater).	3a. Wear chemical-resistant disposable gloves (over cut-resistant gloves) and safety glasses when gauging well. 3a. Insert and remove probe slowly to avoid splashing. 3a. Use an absorbent pad to clean probe.
	3b. **CONTACT:** With traffic.	3b. See 1b.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
4. Purge and sample well.	4a. **EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors) and/or sample preservatives.	4a. Open and fill sample jars slowly to avoid splashing and contact with preservatives. 4a. Wear cut-resistant gloves and chemical-resistant disposable gloves when sampling. 4a. Fill sample containers over purge container to avoid spilling water onto the ground. 4a. Use an absorbent pad to clean spills. 4a. When using a bailer to purge a well, pull the bailer slowly from the well to avoid splash hazards. 4a. When sampling or purging the water using a bailer, pour out water slowly to reduce the potential for splash hazards with groundwater. 4a. When using a tubing valve always remove the valve slowly after sample collection to release any pressure and avoid pressurized splash hazards 4a. When collecting a groundwater sample always point sampling apparatus (tubing, bailer, etc.) away from face and body.
4. Purge and sample well (Continued).	4b. **CONTACT:** Personal injury from cuts, abrasions, or punctures by glassware or sharp objects. 4c. **ERGONOMICS:** Muscle strain while carrying equipment. 4d. **CONTACT:** With traffic. 4e. **CONTACT**: Pinch points with groundwater pump components (i.e. wheel, line, clamps) 4f. **ERGONOMICS**: Muscle strain from repetitive motion of bailing and sampling a well	4b. To avoid spills or breakage, place sample ware on even surface. 4b. Do not over tighten caps on glass sample ware. 4b. Wear chemical-resistant nitrile disposable gloves over cut-resistant (i.e. Kevlar) gloves when sampling and handling glassware (i.e., VOA vials) or when using cutting tools. 4c. Use proper lifting techniques when handling/moving equipment; bend knees and keep back straight. 4c. Use mechanical assistance or team lifting techniques when equipment is 50 lbs. or heavier. 4c. Make multiple trips to carry equipment. 4d. See 1b. 4e. Wear leather gloves when working with groundwater pumps 4e. Never place hands on or near pinch points such as the wheel, clamps or other moving parts during pump operations 4e. Use correct the correct mechanisms, such as a pump reel, to lower pump into well 4e. Never attempt to manually stop any moving part of equipment including hose reels and/or tubing. 4f. See 4c. 4f. Include a stretch break when repetitive motions are part of the task.
5. Management of purge water.	5a. **EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors). 5b. **ERGONOMICS:** Muscle strain from lifting/carrying and moving containers.	5a. Do not overfill container and pour liquids slowly so that they do not splash. 5a. Properly dispose of used materials/PPE in appropriate container in designated storage area. 5b. Use proper lifting techniques when lifting / carrying or moving container(s) (see 4c.). 5b. Do not overfill container(s).
6. Decontaminate equipment.	6a. **EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors). 6b. **CAUGHT:** Pinch points associated with handling hand tools	6a. Work on the upwind side, where possible, of decon area. 6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Use an absorbent pad to clean spills. 6b. See 2b. 6b. Inspect hand tools for sharp edges before decontaminating

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-013	DATE: 01/16/2015	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Gauging and Sampling**	**Soil Vapor Sampling (Permanent Monitoring Points)**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Jeff Wills	Project Hydrogeologist	Daniel Abberton	SHSM
		Mike Ritorto	Senior Hydrogeologist
		Julie Moriarity	Staff Scientist

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant & Nitriles
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: Bug Spray, Sun Screen, Knee Pads or kneeling pad
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel-toe boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

9/16" Socket and Wrench, Non-Toxic Clay, Teflon-Lined Tubing, Masterflex Tubing, 3-Way Stopcock, Air Pump with Low Flow, Dry Cal, Enclosure (Bucket with 2 holes), Helium Gas Canister, Summa Canisters and Flow Controllers, MultiRae Gas Meters, CO2/O2 Meters, Helium Detector, Tubing Cutter, 42-inch Safety Cones, Caution Tape or Retractable Cone Bars

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Exclusion Zone: Maintain a 5-Foot Exclusion Zone for Non-Essential Personnel

ACCESS [1]JOB STEPS	ANALYZE [2]POTENTIAL HAZARDS	ACT [3]CRITICAL ACTIONS
1. Define and secure work area.	1a. **FALL:** Potential tripping hazards.	1a. Ensure work area is secure and inform others (third party) of work activity. 1a. Remove tripping hazards and inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment.
	1b. **CONTACT:** Potential contact with moving vehicles or pedestrians.	1b. If working alongside roads, look both ways before entering roadways, face traffic, and utilize work vehicle to protect employees. 1b. Delineate work area (including vehicles) with traffic safety cones and caution tape or retractable cone bars. 1b. Maintain a 5 foot exclusion zone. 1b. Wear high visibility clothing or reflective safety vest.
	1c. **OVEREXERTION:** Muscle strain while lifting and carrying equipment.	1c. When carrying equipment to/from work area, keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced. Use mechanical assistance/make multiple trips to carry equipment.
2. Remove well cover / close well cover.	2a. **CONTACT/CAUGHT:** Pinch points and scrapes associated with hand tools and well covers.	2a. Keep hands away from pinch points. 2a. Use hand tools with extensions to remove and replace well covers. 2a. Wear cut-resistant gloves. 2a. Use knee pads or kneeling mat when repetitive kneeling on rough ground is anticipated.
	2b. **FALL:** Potential tripping hazards associated with installing bolts.	2b. Place security bolts in secure location so not to create tripping hazards. Replace security bolts so that they fit flush with monitoring well covers.
	2c. **OVEREXERTION:** Physical exertion to remove bolts that were over torque or stripped.	2c. Replace any security bolts that show signs of stripping. Do not over tighten. 2c. Use body positioning and bending techniques that minimize muscle strain; keep back straight, bend at the knees. 2c. See 2a.
3. Remove / replace brass caps at the end of the sample tubing.	3a. **CONTACT:** Pinch points associated with hand tools and brass caps.	3a. Use wrench to remove and replace brass caps. 3a. Wear cut-resistant gloves to protect against pinch points and scrapes.
	3b. **EXPOSURE:** Potential pathway for vapors to migrate to land surface.	3b. Replace brass caps immediately upon completion to avoid soil vapors migrating to the surface through sample tubing. 3b. Stand up wind of sample point location.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

ACCESS [1]JOB STEPS	ANALYZE [2]POTENTIAL HAZARDS	ACT [3]CRITICAL ACTIONS
4. Set up soil vapor sampling equipment and calibration of meters.	4a. **FALL:** Potential tripping hazards associated with equipment and tubing.	4a. Place equipment in one area close to the sampling location. 4a. Keep tubing slack to a minimum and locate the summa canister as close to the sampling location as possible. 4a. Avoid stepping over equipment and tubing.
	4b. **CONTACT:** Pinch points associated with handling equipment.	4b. Do not place fingers/hands under sampling equipment. 4b. Make multiple trips when unloading equipment in work area. 4b. Wear cut-resistant gloves to protect against pinch points while handling sampling equipment.
	4c. **EXPOSURE:** Inhalation of calibration gas and helium.	4c. Review SDS for each type of calibration gas used before calibrating. 4c. Calibrate meters in a well vented area and keep air flow regulator away from face. 4c. Close valve on canisters after use to avoid inhalation of excess helium or calibration gas. 4c. Stand up wind of bucket during helium tracer gas test.
5. Screen sample tubing with multiple gas and CO_2/O_2 meters.	5a. **FALL:** Potential tripping hazards associated with equipment.	5a. See 4a 5a. Identify area where equipment is to be stored within the work area (away from main walking path). 5a. Don't leave equipment on the ground. Return equipment to storage area between uses.
	5b. **EXPOSURE:** Inhalation of soil vapor	5b. See 3b. 5b. Use master flex to connect tubing to meter. 5b. Stand on opposite side of meter vent and upwind of soil vapor point during screening activities.
6. Cleaning Work Area.	6a. **FALL:** Potential tripping hazards associated with equipment and tubing.	6a. See 4a. 6a. See 5a.
	6b. **CONTACT:** Storing and transport of equipment in car.	6b. Ensure that equipment is placed securely in the vehicle. Do not stack equipment on top of each other. Secure equipment so that it will not slide while being transported. 6b. Wear cut-resistant gloves while handling/loading equipment.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – Electricity, pressure, tension/compression, torque.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	Ctrl. No. GEN-006	DATE 1/22/2016	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**Surveying**	**Elevation Surveying**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Mark M Emmons	Project Engineer	Daniel Abberton	Health and Safety Officer
Bjorn Wespestad	Senior Engineer	Michael Ritorto	Project Hydrogeologist

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant or leather
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: Long sleeve Shirt
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel-toe boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Surveying equipment (i.e., leveling rod/measuring ruler, tripod and scope).

COMMITMENT TO LPS - All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Check in with Site manager/ property owner.	**1a. CONTACT/EXPOSURE/FALL:** Lack of communication could result in H&S incident.	1a. Inform Site personnel of work scope, timeline and location(s). 1a. Inquire about other activities taking place at the Site. 1a. If applicable, obtain General Work permit for the day.
2. Locate surveying position for instrument and rod and set-up work area	2a. **FALL:** Slip/trip hazards.	2a. Inspect area for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to setting up at the survey location. Keep eyes engaged with walking surface while in movement. Remember " Walking is Working" 2a. Conduct housekeeping and maintain clear paths to walk in and remove debris as required.
	2b. **CONTACT:** Traffic (surveying locations could potentially be located in parking areas and sidewalks).	2b. Be aware of oncoming traffic. Utilize a flagman / spotter for locations in streets or high-traffic areas. 2b. Place 42 inch cones around the work area, and delineate work zone with caution tape ,snow fencing or safety bars, if necessary. 2b. Wear appropriate PPE including long sleeve high visibility clothing and or reflective safety vest. 2b. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route.
	2c. **OVEREXERTION:** Hazard due to carrying, lifting, and bending while transporting equipment.	2c. Use proper body positioning and lifting techniques; keep back straight, lift with legs, keep load close to body, and never reach with a load. 2c. Avoid carrying too much equipment at one time and team-lift equipment that is more than 50 lb.
	2d. **CAUGHT/CONTACT:** Pinch Points / sharp edges associated with setting up the tripod.	2d. Wear cut resistant gloves when handling the tripod and keep fingers away from pinch points located near moving parts of the tripod. Don't carry tripod by the pointed ends.
3. Open / close manhole cover to well that is being surveyed (if necessary).	3a. **OVEREXERTION:** Muscle strain	3a. See 1c. Bend knees when reaching to open well. Use manhole lifting hook or pry bar to avoid bending.
	3b. **CAUGHT:** Pinch points associated with removing / replacing manholes and working with hand tools.	3b. Wear leather gloves or cut resistant gloves when working with well cover and hand tools. 3b. Use proper tools (ratchet and crowbar or pry bar for well cover) and inspect before use. 3b. Do not put fingers under well cover.
	3c. **EXPOSURE:** To potentially hazardous vapors. To biological hazards.	3c. No open flames/heat sources. 3c. To minimize exposure to vapors allow well to vent after opening it and before survey activities begin. 3c. Work on the upwind side of manhole/well. 3.c Use caution while opening up lids to inspect work area for bees and insects inside of covers. 3c. Use insect/tick repellent as necessary.
	3d. **CONTACT:** With traffic.	3d. See 2b.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
4. Perform survey.	4a. **FALL:** Slip/trip hazards 4b. **CONTACT:** Traffic (surveying locations could be potentially located in parking areas and sidewalks)	4a. See 2a. 4b. See 2b. 4b. Personnel using the scope will be devoting most of their attention to the surveying activity and shall be aware of vehicular and pedestrian traffic. Personnel holding the measuring stick should be extra vigilant of survey personnel and communicate any potential hazards to the instrument person via handheld radio or similar means. Ensure reflective safety vest is worn.
5. Break down work area.	5a. **CONTACT:** Traffic (surveying locations can potentially be located in parking areas and sidewalks). 5b. **EXERTION:** Hazard due to carrying, lifting, and bending while transporting equipment	5a. See 2b. 5b. See 2c.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – electricity, pressure, compression/tension.

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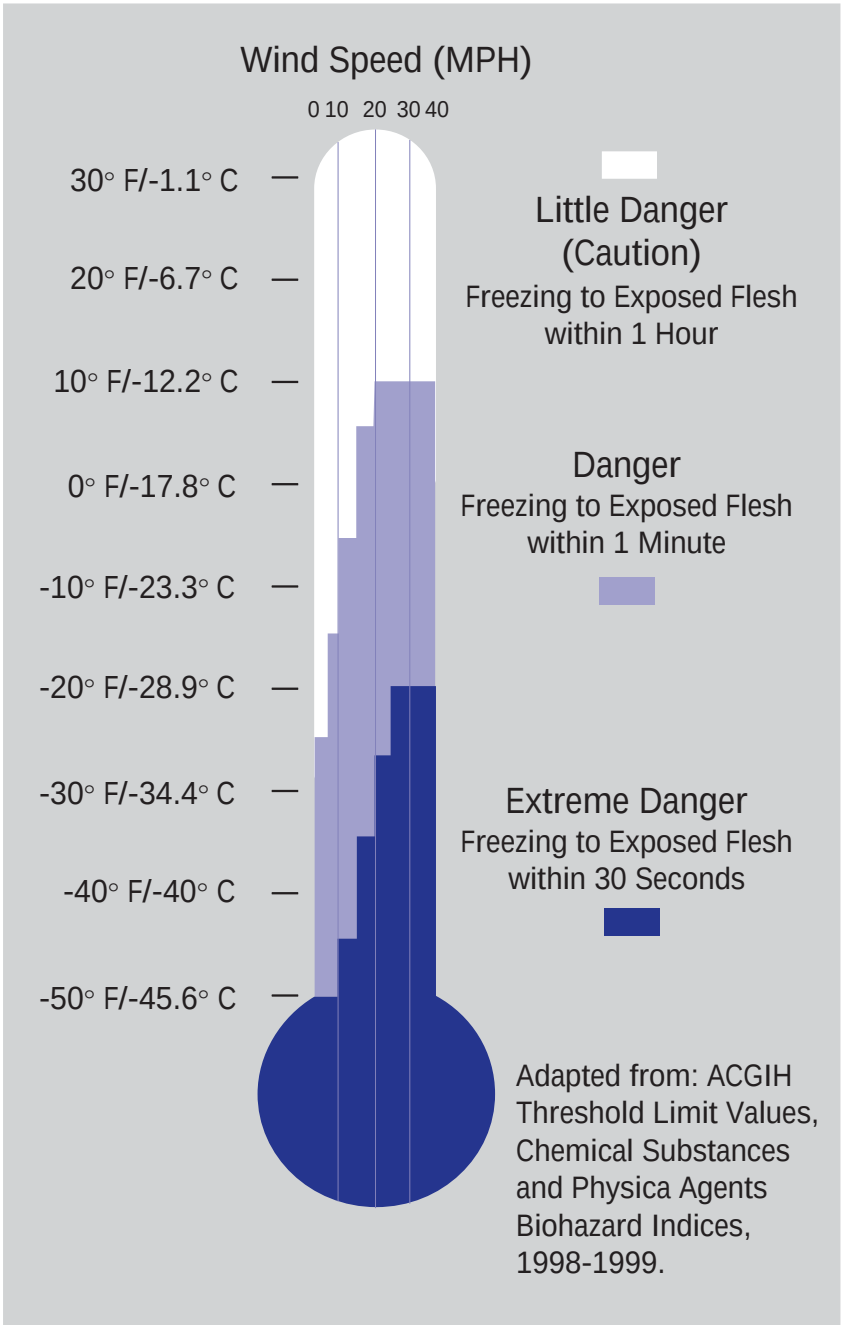
APPENDIX D

Heat and Cold Stress Guidelines

THE COLD STRESS EQUATION

LOW TEMPERATURE + WIND SPEED + WETNESS = INJURIES & ILLNESS

When the body is unable to warm itself, serious cold-related illnesses and injuries may occur, and permanent tissue damage and death may result. **Hypothermia** can occur when *land temperatures* are **above** freezing or *water temperatures* are below 98.6°F/37°C. Cold-related illnesses can slowly overcome a person who has been chilled by low temperatures, brisk winds, or wet clothing.



U.S. Department of Labor
Occupational Safety and Health Administration

OSHA 3156
1998

FROST BITE

What Happens to the Body:

FREEZING IN DEEP LAYERS OF SKIN AND TISSUE; PALE, WAXY-WHITE SKIN COLOR; SKIN BECOMES HARD and NUMB; USUALLY AFFECTS THE FINGERS, HANDS, TOES, FEET, EARS, and NOSE.

What Should Be Done: (land temperatures)

- Move the person to a warm dry area. Don't leave the person alone.
- Remove any wet or tight clothing that may cut off blood flow to the affected area.
- **DO NOT** rub the affected area, because rubbing causes damage to the skin and tissue.
- **Gently** place the affected area in a warm (105°F) water bath and monitor the water temperature to **slowly** warm the tissue. Don't pour warm water directly on the affected area because it will warm the tissue too fast causing tissue damage. Warming takes about 25-40 minutes.
- After the affected area has been warmed, it may become puffy and blister. The affected area may have a burning feeling or numbness. When normal feeling, movement, and skin color have returned, the affected area should be dried and wrapped to keep it warm. **NOTE:** If there is a chance the affected area may get cold again, do not warm the skin. If the skin is warmed and then becomes cold again, it will cause severe tissue damage.
- Seek medical attention as soon as possible.

HYPOTHERMIA - (Medical Emergency)

What Happens to the Body:

NORMAL BODY TEMPERATURE (98.6° F/37°C) DROPS TO OR BELOW 95°F (35^0 C); FATIGUE OR DROWSINESS; UNCONTROLLED SHIVERING; COOL BLUISH SKIN; SLURRED SPEECH; CLUMSY MOVEMENTS; IRRITABLE, IRRATIONAL OR CONFUSED BEHAVIOR.

What Should Be Done: (land temperatures)

- Call for emergency help (i.e., Ambulance or Call 911).
- Move the person to a warm, dry area. Don't leave the person alone. Remove any wet clothing and replace with warm, dry clothing or wrap the person in blankets.
- Have the person drink warm, sweet drinks (sugar water or sports-type drinks) if they are alert. **Avoid drinks with caffeine** (coffee, tea, or hot chocolate) or alcohol.
- Have the person move their arms and legs to create muscle heat. If they are unable to do this, place warm bottles or hot packs in the arm pits, groin, neck, and head areas. **DO NOT** rub the person's body or place them in warm water bath. This may stop their heart.

What Should Be Done: (water temperatures)

- Call for emergency help (Ambulance or Call 911). Body heat is lost up to 25 times faster in water.
- **DO NOT** remove any clothing. Button, buckle, zip, and tighten any collars, cuffs, shoes, and hoods because the layer of trapped water closest to the body provides a layer of insulation that slows the loss of heat. Keep the head out of the water and put on a hat or hood.
- Get out of the water as quickly as possible or climb on anything floating. **DO NOT** attempt to swim unless a floating object or another person can be reached because swimming or other physical activity uses the body's heat and reduces survival time by about 50 percent.
- If getting out of the water is not possible, wait quietly and conserve body heat by folding arms across the chest, keeping thighs together, bending knees, and crossing ankles. If another person is in the water, huddle together with chests held closely.

How to Protect Workers

- Recognize the environmental and workplace conditions that lead to potential cold-induced illnesses and injuries.
- Learn the signs and symptoms of cold-induced illnesses/injuries and what to do to help the worker.
- Train the workforce about cold-induced illnesses and injuries.
- Select proper clothing for cold, wet, and windy conditions. Layer clothing to adjust to changing environmental temperatures. Wear a hat and gloves, in addition to underwear that will keep water away from the skin (polypropylene).
- Take frequent short breaks in warm dry shelters to allow the body to warm up.
- Perform work during the warmest part of the day.
- Avoid exhaustion or fatigue because energy is needed to keep muscles warm.
- Use the buddy system (work in pairs).
- Drink warm, sweet beverages (sugar water, sports-type drinks). Avoid drinks with caffeine (coffee, tea, or hot chocolate) or alcohol.
- Eat warm, high-calorie foods like hot pasta dishes.

Workers Are at Increased Risk When…

- They have predisposing health conditions such as cardiovascular disease, diabetes, and hypertension.
- They take certain medication (check with your doctor, nurse, or pharmacy and ask if any medicines you are taking affect you while working in cold environments).
- They are in poor physical condition, have a poor diet, or are older.

OSHA® QUICK CARD™

Protecting Workers from Heat Stress

Heat Illness

Exposure to heat can cause illness and death. The most serious heat illness is heat stroke. Other heat illnesses, such as heat exhaustion, heat cramps and heat rash, should also be avoided.

There are precautions your employer should take any time temperatures are high and the job involves physical work.

Risk Factors for Heat Illness

- High temperature and humidity, direct sun exposure, no breeze or wind
- Low liquid intake; previous heat illnesses
- Heavy physical labor
- Waterproof clothing
- No recent exposure to hot workplaces

Symptoms of Heat Exhaustion

- Headache, dizziness, or fainting
- Weakness and wet skin
- Irritability or confusion
- Thirst, nausea, or vomiting

Symptoms of Heat Stroke

- May be confused, unable to think clearly, pass out, collapse, or have seizures (fits)
- May stop sweating

To Prevent Heat Illness, Your Employer Should

- Provide training about the hazards leading to heat stress and how to prevent them.
- Provide a lot of cool water to workers close to the work area. At least one pint of water per hour is needed.



For more complete information:

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor

www.osha.gov (800) 321-OSHA

OSHA 3154-08-10R v2

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- Schedule frequent rest periods with water breaks in shaded or air-conditioned areas.
- Routinely check workers who are at risk of heat stress due to protective clothing and high temperature.
- Consider protective clothing that provides cooling.

How You Can Protect Yourself and Others



- Know signs/symptoms of heat illnesses; monitor yourself; use a buddy system.
- Block out direct sun and other heat sources.
- Drink plenty of fluids. Drink often and BEFORE you are thirsty.
- Avoid beverages containing alcohol or caffeine.
- Wear lightweight, light colored, loose-fitting clothes.



- Be aware that poor physical condition, some health problems (such as high blood pressure or diabetes), pregnancy, colds and flu, and some medications can increase your personal risk. If you are under treatment, ask your healthcare provider.

What to Do When a Worker is Ill from the Heat

- Call a supervisor for help. If the supervisor is not available, call 911.
- Have someone stay with the worker until help arrives.
- Move the worker to a cooler/shaded area.
- Remove outer clothing.
- Fan and mist the worker with water; apply ice (ice bags or ice towels).
- Provide cool drinking water, if able to drink.

IF THE WORKER IS NOT ALERT or seems confused, this may be a heat stroke. CALL 911 IMMEDIATELY and apply ice as soon as possible.

If you have any questions or concerns, call OSHA at 1-800-321-OSHA.

For more complete information:

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor

www.osha.gov (800) 321-OSHA

UNITED STATES DEPARTMENT OF LABOR

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<<< Back to OSHA Technical Manual (OTM) Table of Contents

Printing Instructions

OSHA Technical Manual

TABLE OF CONTENTS NEXT CHAPTER

Directive Number: TED 01-00-015
Effective Date: 1/20/1999

SECTION III: CHAPTER 4

HEAT STRESS

Contents:

I. **Introduction**
II. **Heat Disorders and Health Effects**
III. **Investigation Guidelines**
IV. **Sampling Methods**
V. **Control**
VI. **Personal Protective Equipment**
VII. **Bibliography**

Appendix III:4-1 Heat Stress: General Workplace Review
Appendix III:4-2 Heat Stress-Related Illness/Accident Follow-Up
Appendix III:4-3 Measurement of Wet Bulb Globe Temperature

For problems with accessibility in using figures and illustrations in this document, please contact the Office of Science and Technology Assessment at (202) 693-2095 .

I. INTRODUCTION.

Operations involving high air temperatures, radiant heat sources, high humidity, direct physical contact with hot objects, or strenuous physical activities have a high potential for inducing heat stress in employees engaged in such operations. Such places include: iron and steel foundries, nonferrous foundries, brick-firing and ceramic plants, glass products facilities, rubber products factories, electrical utilities (particularly boiler rooms), bakeries, confectioneries, commercial kitchens, laundries, food canneries, chemical plants, mining sites, smelters, and steam tunnels.

Outdoor operations conducted in hot weather, such as construction, refining, asbestos removal, and hazardous waste site activities, especially those that require workers to wear semipermeable or impermeable protective clothing, are also likely to cause heat stress among exposed workers.

A. CAUSAL FACTORS.

1. Age, weight, degree of physical fitness, degree of acclimatization, metabolism, use of alcohol or drugs, and a variety of medical conditions such as hypertension all affect a person's sensitivity to heat. However, even the type of clothing worn must be considered. Prior heat injury predisposes an individual to additional injury.

2. It is difficult to predict just who will be affected and when, because individual susceptibility varies. In addition, environmental factors include more than the ambient air temperature. Radiant heat, air movement, conduction, and relative humidity all affect an individual's response to heat.

B. DEFINITIONS.

1. The American Conference of Governmental Industrial Hygienists (1992) states that workers should not be permitted to work when their deep body temperature exceeds 38°C (100.4°F).

2. **Heat** is a measure of energy in terms of quantity.

3. A **calorie** is the amount of heat required to raise 1 gram of water 1°C (based on a standard temperature of 16.5 to 17.5°C).

4. **Conduction** is the transfer of heat between materials that contact each other. Heat passes from the warmer material to the cooler material. For example, a worker's skin can transfer heat to a contacting surface if that surface is cooler, and vice versa.

5. **Convection** is the transfer of heat in a moving fluid. Air flowing past the body can cool the body if the air temperature is cool. On the other hand, air that exceeds 35°C (95°F) can increase the heat load on the body.

6. **Evaporative cooling** takes place when sweat evaporates from the skin. High humidity reduces the rate of evaporation and thus reduces the effectiveness of the body's primary cooling mechanism.

7. **Radiation** is the transfer of heat energy through space. A worker whose body temperature is greater than the temperature of the surrounding surfaces radiates heat to these surfaces. Hot surfaces and infrared light sources radiate heat that can increase the body's heat load.

8. **Globe temperature** is the temperature inside a blackened, hollow, thin copper globe.

9. **Metabolic heat** is a by-product of the body's activity.

10. **Natural wet bulb (NWB) temperature** is measured by exposing a wet sensor, such as a wet cotton wick fitted over the bulb of a thermometer, to the effects of evaporation and convection. The term natural refers to the movement of air around the sensor.

11. **Dry bulb (DB) temperature** is measured by a thermal sensor, such as an ordinary mercury-in-glass thermometer, that is shielded from direct radiant energy sources.

II. HEAT DISORDERS AND HEALTH EFFECTS.

A. **HEAT STROKE** occurs when the body's system of temperature regulation fails and body temperature rises to critical levels. This condition is caused by a combination of highly variable factors, and its occurrence is difficult to predict. Heat stroke is a medical emergency. The primary signs and symptoms of heat stroke are confusion; irrational behavior; loss of consciousness; convulsions; a lack of sweating (usually); hot, dry skin; and an abnormally high body temperature, e.g., a rectal temperature of 41°C (105.8°F). If body temperature is too high, it causes death. The elevated metabolic temperatures caused by a combination of work load and environmental heat load, both of which contribute to heat stroke, are also highly variable and difficult to predict.

If a worker shows signs of possible heat stroke, professional medical treatment should be obtained immediately. The worker should be placed in a shady area and the outer clothing should be removed. The worker's skin should be wetted and air movement around the worker should be increased to improve evaporative cooling until professional methods of cooling are initiated and the seriousness of the condition can be assessed. Fluids should be replaced as soon as possible. The medical outcome of an episode of heat stroke depends on the victim's physical fitness and the timing and effectiveness of first aid treatment.

Regardless of the worker's protests, no employee suspected of being ill from heat stroke should be sent home or left unattended unless a physician has specifically approved such an order.

B. **HEAT EXHAUSTION**. The signs and symptoms of heat exhaustion are headache, nausea, vertigo, weakness, thirst, and giddiness. Fortunately, this condition responds readily to prompt treatment. Heat exhaustion should not be dismissed lightly, however, for several reasons. One is that the fainting associated with heat exhaustion can be dangerous because the victim may be operating machinery or controlling an operation that should not be left unattended; moreover, the victim may be injured when he or she faints. Also, the signs and symptoms seen in heat exhaustion are similar to those of heat stroke, a medical emergency.

Workers suffering from heat exhaustion should be removed from the hot environment and given fluid replacement. They should also be encouraged to get adequate rest.

C. **HEAT CRAMPS** are usually caused by performing hard physical labor in a hot environment. These cramps have been attributed to an electrolyte imbalance caused by sweating. It is important to understand that cramps can be caused by both too much and too little salt. Cramps appear to be caused by the lack of water replenishment. Because sweat is a hypotonic solution (±0.3% NaCl), excess salt can build up in the body if the water lost through sweating is not replaced. Thirst cannot be relied on as a guide to the need for water; instead, water must be taken every 15 to 20 minutes in hot environments.

Under extreme conditions, such as working for 6 to 8 hours in heavy protective gear, a loss of sodium may occur. Recent studies have shown that drinking commercially available carbohydrate-electrolyte replacement liquids is effective in minimizing physiological disturbances during recovery.

D. **HEAT COLLAPSE** ("Fainting"). In heat collapse, the brain does not receive enough oxygen because blood pools in the extremities. As a result, the exposed individual may lose consciousness. This reaction is similar to that of heat exhaustion and does not affect the body's heat balance. However, the onset of heat collapse is rapid and unpredictable. To prevent heat collapse, the worker should gradually become acclimatized to the hot environment.

E. **HEAT RASHES** are the most common problem in hot work environments. Prickly heat is manifested as red papules and usually appears in areas where the clothing is restrictive. As sweating increases, these papules give rise to a prickling sensation. Prickly heat occurs in skin that is persistently wetted by unevaporated sweat, and heat rash papules may become infected if they are not treated. In most cases, heat rashes will disappear when the affected individual returns to a cool environment.

F. **HEAT FATIGUE.** A factor that predisposes an individual to heat fatigue is lack of acclimatization. The use of a program of acclimatization and training for work in hot environments is advisable. The signs and symptoms of heat fatigue include impaired performance of skilled sensorimotor, mental, or vigilance jobs. There is no treatment for heat fatigue except to remove the heat stress before a more serious heat-related condition develops.

III. INVESTIGATION GUIDELINES.

These guidelines for evaluating employee heat stress approximate those found in the 1992-1993 ACGIH publication, *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.*

A. EMPLOYER AND EMPLOYEE INTERVIEWS.

1. The inspector will review the OSHA 200 Log and, if possible, the OSHA 101 forms for indications of prior heat stress problems.

2. Following are some questions for employer interviews: What type of action, if any, has the employer taken to prevent heat stress problems? What are the potential sources of heat? What employee complaints have been made?

3. Following are some questions for employee interviews: What heat stress problems have been experienced? What type of action has the employee taken to minimize heat stress? What is the employer's involvement, i.e., does employee training include information on heat stress? (Appendix III:4-1 lists factors to be evaluated when reviewing a heat stress situation, and Appendix III:4-2 contains a follow-up checklist.)

B. **WALKAROUND INSPECTION.** During the walkaround inspection, the investigator will: determine building and operation characteristics; determine whether engineering controls are functioning properly; verify information obtained from the employer and employee interviews; and perform temperature measurements and make other determinations to identify potential sources of heat stress. Investigators may wish to discuss any operations that have the potential to cause heat stress with engineers and other knowledgeable personnel. The walkaround inspection should cover all affected areas. Heat sources, such as furnaces, ovens, and boilers, and relative heat load per employee should be noted.

C. WORK-LOAD ASSESSMENT.

1. Under conditions of high temperature and heavy workload, the CSHO should determine the work-load category of each job (Table III:4-1 and Figure III:4-1). Work-load category is determined by averaging metabolic rates for the tasks and then ranking them:

    1. Light work: up to 200 kcal/hour
    2. Medium work: 200-350 kcal/hour
    3. Heavy work: 350-500 kcal/hour

2. *Cool Rest Area:* Where heat conditions in the rest area are different from those in the work area, the metabolic rate (M) should be calculated using a time-weighted average, as follows:

    Equation III: 4-1. Average Metabolic Rate

$$Average_M = \frac{(M_1)(t_1)+(M_2)(t_2)+\ldots+(M_n)(t_n)}{(t_1)+(t_2)+\ldots(t_n)}$$

    where: M = metabolic rate

    t = time in minutes

    In some cases, a videotape is helpful in evaluating work practices and metabolic load.

FIGURE III:4-1. ACTIVITY EXAMPLES

- Light hand work: writing, hand knitting
- Heavy hand work: typewriting
- Heavy work with one arm: hammering in nails (shoemaker, upholsterer)
- Light work with two arms: filing metal, planing wood, raking the garden
- Moderate work with the body: cleaning a floor, beating a carpet
- Heavy work with the body: railroad track laying, digging, barking trees

Sample Calculation: Assembly line work using a heavy hand tool

Walking along	2.0 kcal/min
Intermediate value between heavy work with two arms and light work with the body	3.0 kcal/min
Add for basal metabolism	1.0 kcal/min
Total:	6.0 kcal/min

Source: ACGIH 1992.

TABLE III:4-1. ASSESSMENT OF WORK

Body position and movement	***kcal/min****
Sitting	0.3
Standing	0.6
Walking	2.0-3.0
Walking uphill	add 0.8 for every meter (yard) rise

Type of work	***Average kcal/min***	***Range kcal/min***
Hand work		
Light	0.4	0.2-1.2
Heavy	0.9	
Work: One arm		
Light	1.0	0.7-2.5
Heavy	1.7	
Work: Both arms		
Light	1.5	1.0-3.5
Heavy	2.5	
Work: Whole body		
Light	3.5	2.5-15.0
Moderate	5.0	
Heavy	7.0	
Very heavy	9.0	

* For a "standard" worker of 70 kg body weight (154 lbs) and 1.8m^2 body surface (19.4 ft^2).

Source: ACGIH 1992.

IV. **SAMPLING METHODS.**

A. **BODY TEMPERATURE MEASUREMENTS.** Although instruments are available to estimate deep body temperature by measuring the temperature in the ear canal or on the skin, these instruments are not sufficiently reliable to use in compliance evaluations.

B. **ENVIRONMENTAL MEASUREMENTS.** Environmental heat measurements should be made at, or as close as possible to, the specific work area where the worker is exposed. When a worker is not continuously exposed in a single hot area but moves between two or more areas having different levels of environmental heat, or when the environmental heat varies substantially at a single hot area, environmental heat exposures should be measured for each area and for each level of environmental heat to which employees are exposed.

C. **WET BULB GLOBE TEMPERATURE INDEX.**

1. Wet Bulb Globe Temperature (WBGT) should be calculated using the appropriate formula in Appendix III:4-2. The

WBGT for continuous all-day or several hour exposures should be averaged over a 60-minute period. Intermittent exposures should be averaged over a 120-minute period. These averages should be calculated using the following formula:

Equation III:4-2. Average Web Bulb Globe Temperature (WBGT)

$$Average_{WBGT} = \frac{(WBGT_1)(t_1)+(WBGT_2)(t_2)+...+(WBGT_n)(t_n)}{(t_1)+(t_2)+...(t_n)}$$

For indoor and outdoor conditions with no solar load, WBGT is calculated as:

$$WBGT = 0.7NWB + 0.3GT$$

For outdoors with a solar load, WBGT is calculated as

$$WBGT = 0.7NWB + 0.2GT + 0.1DB$$

where: WBGT = Wet Bulb Globe Temperature Index
NWB = Nature Wet-Bulb Temperature
DB = Dry-Bulb Temperature
GT = Globe Temperature

2. The exposure limits in Table III:4-2 are valid for employees wearing light clothing. They must be adjusted for the insulation from clothing that impedes sweat evaporation and other body cooling mechanisms. Use Table III:4-3 to correct Table III:4-2 for various kinds of clothing.

3. Use of Table III:4-2 requires knowledge of the WBGT and approximate workload. Workload can be estimated using the data in Table III:4-1, and sample calculations are presented in Figure III:4-1.

D. **MEASUREMENT**. Portable heat stress meters or monitors are used to measure heat conditions. These instruments can calculate both the indoor and outdoor WBGT index according to established ACGIH Threshold Limit Value equations. With this information and information on the type of work being performed, heat stress meters can determine how long a person can safely work or remain in a particular hot environment. See Appendix III:4-2 for an alternate method of calculation.

TABLE III:4-2. PERMISSIBLE HEAT EXPOSURE THRESHOLD LIMIT VALUE

	---------- Work Load* ----------		
Work/rest regimen	**Light**	**Moderate**	**Heavy**
Continuous work	30.0°C (86°F)	26.7°C (80°F)	25.0°C (77°F)
75% Work, 25% rest, each hour	30.6°C (87°F)	28.0°C (82°F)	25.9°C (78°F)
50% Work, 50% rest, each hour	31.4°C (89°F)	29.4°C (85°F)	27.9°C (82°F)
25% Work, 75% rest, each hour	32.2°C (90°F)	31.1°C (88°F)	30.0°C (86°F)

*Values are in °C and °F, WBGT.

These TLV's are based on the assumption that nearly all acclimatized, fully clothed workers with adequate water and salt intake should be able to function effectively under the given working conditions without exceeding a deep body temperature of 38°C (100.4° F). They are also based on the assumption that the WBGT of the resting place is the same or very close to that of the workplace. Where the WBGT of the work area is different from that of the rest area, a time-weighted average should be used (consult the ACGIH *1992-1993 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices* (1992).

These TLV's apply to physically fit and acclimatized individuals wearing light summer clothing. If heavier clothing that impedes sweat or has a higher insulation value is required, the permissible heat exposure TLV's in Table III:4-2 must be reduced by the corrections shown in Table III:4-3.

Source: ACGIH 1992.

E. **OTHER THERMAL STRESS INDICES.**

1. The Effective Temperature index (ET) combines the temperature, the humidity of the air, and air velocity. This index has been used extensively in the field of comfort ventilation and air-conditioning. ET remains a useful measurement technique in mines and other places where humidity is high and radiant heat is low.

2. The Heat-Stress Index (HSI) was developed by Belding and Hatch in 1965. Although the HSI considers all environmental factors and work rate, it is not completely satisfactory for determining an individual worker's heat stress and is also difficult to use.

TABLE III:4-3. WBGT CORRECTION FACTORS IN °C

Clothing type	Clo* value	WBGT correction
Summer lightweight working clothing	0.6	0
Cotton coveralls	1.0	-2
Winter work clothing	1.4	-4
Water barrier, permeable	1.2	-6

*Clo: Insulation value of clothing. One clo = 5.55 kcal/m^2/hr of heat exchange by radiation and convection for each degree °C difference in temperature between the skin and the adjusted dry bulb temperature.

Note: Deleted from the previous version are trade names and "fully encapsulating suit, gloves, boots and hood" including its clo value of 1.2 and WBGT correction of -10.

Source: ACGIH 1992.

V. **CONTROL.**

Ventilation, air cooling, fans, shielding, and insulation are the five major types of engineering controls used to reduce heat stress in hot work environments. Heat reduction can also be achieved by using power assists and tools that reduce the physical demands placed on a worker.

However, for this approach to be successful, the metabolic effort required for the worker to use or operate these devices must be less than the effort required without them. Another method is to reduce the effort necessary to operate power assists. The worker should be allowed to take frequent rest breaks in a cooler environment.

A. **ACCLIMATIZATION.**

1. The human body can adapt to heat exposure to some extent. This physiological adaptation is called acclimatization. After a period of acclimatization, the same activity will produce fewer cardiovascular demands. The worker will sweat more efficiently (causing better evaporative cooling), and thus will more easily be able to maintain normal body temperatures.

2. A properly designed and applied acclimatization program decreases the risk of heat-related illnesses. Such a program basically involves exposing employees to work in a hot environment for progressively longer periods. NIOSH (1986) says that, for workers who have had previous experience in jobs where heat levels are high enough to produce heat stress, the regimen should be 50% exposure on day one, 60% on day two, 80% on day three, and 100% on day four. For new workers who will be similarly exposed, the regimen should be 20% on day one, with a 20% increase in exposure each additional day.

B. **FLUID REPLACEMENT**. Cool (50°-60°F) water or any cool liquid (except alcoholic beverages) should be made available to workers to encourage them to drink small amounts frequently, e.g., one cup every 20 minutes. Ample supplies of liquids should be placed close to the work area. Although some commercial replacement drinks contain salt, this is not necessary for acclimatized individuals because most people add enough salt to their summer diets.

C. **ENGINEERING CONTROLS.**

1. **General ventilation** is used to dilute hot air with cooler air (generally cooler air that is brought in from the outside). This technique clearly works better in cooler climates than in hot ones. A permanently installed ventilation system usually handles large areas or entire buildings. Portable or local exhaust systems may be more effective or practical in smaller areas.

2. **Air treatment/air cooling** differs from ventilation because it reduces the temperature of the air by removing heat (and sometimes humidity) from the air.

3. **Air conditioning** is a method of air cooling, but it is expensive to install and operate. An alternative to air conditioning is the use of chillers to circulate cool water through heat exchangers over which air from the ventilation system is then passed; chillers are more efficient in cooler climates or in dry climates where

evaporative cooling can be used.

4. **Local air cooling** can be effective in reducing air temperature in specific areas. Two methods have been used successfully in industrial settings. One type, cool rooms, can be used to enclose a specific workplace or to offer a recovery area near hot jobs. The second type is a portable blower with built-in air chiller. The main advantage of a blower, aside from portability, is minimal set-up time.

5. Another way to reduce heat stress is to increase the air flow or **convection** using fans, etc. in the work area (as long as the air temperature is less than the worker's skin temperature). Changes in air speed can help workers stay cooler by increasing both the convective heat exchange (the exchange between the skin surface and the surrounding air) and the rate of evaporation. Because this method does not actually cool the air, any increases in air speed must impact the worker directly to be effective.

   If the dry bulb temperature is higher than 35°C (95°F), the hot air passing over the skin can actually make the worker hotter. When the temperature is more than 35°C and the air is dry, evaporative cooling may be improved by air movement, although this improvement will be offset by the convective heat. When the temperature exceeds 35°C and the relative humidity is 100%, air movement will make the worker hotter. Increases in air speed have no effect on the body temperature of workers wearing vapor-barrier clothing.

6. **Heat conduction** methods include insulating the hot surface that generates the heat and changing the surface itself.

7. Simple engineering controls, such as shields, can be used to reduce radiant **heat,** i.e. heat coming from hot surfaces within the worker's line of sight. Surfaces that exceed 35°C (95°F) are sources of infrared radiation that can add to the worker's heat load. Flat black surfaces absorb heat more than smooth, polished ones. Having cooler surfaces surrounding the worker assists in cooling because the worker's body radiates heat toward them.

   With some sources of radiation, such as heating pipes, it is possible to use both insulation and surface modifications to achieve a substantial reduction in radiant heat. Instead of reducing radiation from the source, shielding can be used to interrupt the path between the source and the worker. Polished surfaces make the best barriers, although special glass or metal mesh surfaces can be used if visibility is a problem.

   Shields should be located so that they do not interfere with air flow, unless they are also being used to reduce convective heating. The reflective surface of the shield should be kept clean to maintain its effectiveness.

D. **ADMINISTRATIVE CONTROLS AND WORK PRACTICES.**

1. Training is the key to good work practices. Unless all employees understand the reasons for using new, or changing old, work practices, the chances of such a program succeeding are greatly reduced.

2. NIOSH (1986) states that a good heat stress training program should include at least the following components:

   - Knowledge of the hazards of heat stress;
   - Recognition of predisposing factors, danger signs, and symptoms;
   - Awareness of first-aid procedures for, and the potential health effects of, heat stroke;
   - Employee responsibilities in avoiding heat stress;
   - Dangers of using drugs, including therapeutic ones, and alcohol in hot work environments;
   - Use of protective clothing and equipment; and
   - Purpose and coverage of environmental and medical surveillance programs and the advantages of worker participation in such programs.

3. Hot jobs should be scheduled for the cooler part of the day, and routine maintenance and repair work in hot areas should be scheduled for the cooler seasons of the year.

E. **WORKER MONITORING PROGRAMS.**

1. Every worker who works in extraordinary conditions that increase the risk of heat stress should be personally monitored. These conditions include wearing semipermeable or impermeable clothing when the temperature exceeds 21°C (69.8°F), working at extreme metabolic loads (greater than 500 kcal/hour), etc.

2. Personal monitoring can be done by checking the heart rate, recovery heart rate, oral temperature, or extent of body water loss.

3. To check the heart rate, count the radial pulse for 30 seconds at the beginning of the rest period. If the heart rate exceeds 110 beats per minute, shorten the next work period by one third and maintain the same rest period.

4. The recovery heart rate can be checked by comparing the pulse rate taken at 30 seconds (P_1) with the pulse rate taken at 2.5 minutes (P_3) after the rest break starts. The two pulse rates can be interpreted using Table III:4-4.

5. Oral temperature can be checked with a clinical thermometer after work but before the employee drinks water. If the oral temperature taken under the tongue exceeds 37.6°C, shorten the next work cycle by one third.

6. Body water loss can be measured by weighing the worker on a scale at the beginning and end of each work day.

The worker's weight loss should not exceed 1.5% of total body weight in a work day. If a weight loss exceeding this amount is observed, fluid intake should increase.

F. **OTHER ADMINISTRATIVE CONTROLS.** The following administrative controls can be used to reduce heat stress:

- Reduce the physical demands of work, e.g., excessive lifting or digging with heavy objects;
- Provide recovery areas, e.g., air-conditioned enclosures and rooms;
- Use shifts, e.g., early morning, cool part of the day, or night work;
- Use intermittent rest periods with water breaks;
- Use relief workers;
- Use worker pacing; and
- Assign extra workers and limit worker occupancy, or the number of workers present, especially in confined or enclosed spaces.

TABLE III:4-4. HEART RATE RECOVERY CRITERIA

Heart rate recovery pattern	P_3	Difference between P_1 and P_3
Satisfactory recovery	<90	--
High recovery (Conditions may require further study)	90	10
No recovery (May indicate too much stress)	90	<10

VI. **PERSONAL PROTECTIVE EQUIPMENT.**

A. **REFLECTIVE CLOTHING,** which can vary from aprons and jackets to suits that completely enclose the worker from neck to feet, can stop the skin from absorbing radiant heat. However, since most reflective clothing does not allow air exchange through the garment, the reduction of radiant heat must more than offset the corresponding loss in evaporative cooling. For this reason, reflective clothing should be worn as loosely as possible. In situations where radiant heat is high, auxiliary cooling systems can be used under the reflective clothing.

B. **AUXILIARY BODY COOLING.**

1. Commercially available **ice vests,** though heavy, may accommodate as many as 72 ice packets, which are usually filled with water. Carbon dioxide (dry ice) can also be used as a coolant. The cooling offered by ice packets lasts only 2 to 4 hours at moderate to heavy heat loads, and frequent replacement is necessary. However, ice vests do not encumber the worker and thus permit maximum mobility. Cooling with ice is also relatively inexpensive.

2. **Wetted clothing** is another simple and inexpensive personal cooling technique. It is effective when reflective or other impermeable protective clothing is worn. The clothing may be wetted terry cloth coveralls or wetted two-piece, whole-body cotton suits. This approach to auxiliary cooling can be quite effective under conditions of high temperature and low humidity, where evaporation from the wetted garment is not restricted.

3. **Water-cooled garments** range from a hood, which cools only the head, to vests and "long johns," which offer partial or complete body cooling. Use of this equipment requires a battery-driven circulating pump, liquid-ice coolant, and a container.

   Although this system has the advantage of allowing wearer mobility, the weight of the components limits the amount of ice that can be carried and thus reduces the effective use time. The heat transfer rate in liquid cooling systems may limit their use to low-activity jobs; even in such jobs, their service time is only about 20 minutes per pound of cooling ice. To keep outside heat from melting the ice, an outer insulating jacket should be an integral part of these systems.

4. **Circulating air** is the most highly effective, as well as the most complicated, personal cooling system. By directing compressed air around the body from a supplied air system, both evaporative and convective cooling are improved. The greatest advantage occurs when circulating air is used with impermeable garments or double cotton overalls.

   One type, used when respiratory protection is also necessary, forces exhaust air from a supplied-air hood ("bubble hood") around the neck and down inside an impermeable suit. The air then escapes through openings in the suit. Air can also be supplied directly to the suit without using a hood in three ways:

   - by a single inlet;
   - by a distribution tree; or
   - by a perforated vest.

   In addition, a vortex tube can be used to reduce the temperature of circulating air. The cooled air from this tube can be introduced either under the clothing or into a bubble hood. The use of a vortex tube separates the air stream into a hot and cold stream; these tubes also can be used to supply heat in cold climates. Circulating air, however, is noisy and requires a constant source of compressed air supplied through an attached air hose.

One problem with this system is the limited mobility of workers whose suits are attached to an air hose. Another is that of getting air to the work area itself. These systems should therefore be used in work areas where workers are not required to move around much or to climb. Another concern with these systems is that they can lead to dehydration. The cool, dry air feels comfortable and the worker may not realize that it is important to drink liquids frequently.

C. **RESPIRATOR USAGE.** The weight of a self-contained breathing apparatus (SCBA) increases stress on a worker, and this stress contributes to overall heat stress. Chemical protective clothing such as totally encapsulating chemical protection suits will also add to the heat stress problem.

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APPENDIX III:4-1. HEAT STRESS: GENERAL WORKPLACE REVIEW.

NOTE: Listed below are sample questions that the Compliance Officer may wish to consider when investigating heat stress in the workplace.

WORKPLACE DESCRIPTION.

A. Type of business
B. Heat-producing equipment or processes used
C. Previous history (if any) of heat-related problems
D. At "hot" spots:

- Is the heat steady or intermittent?
- Number of employees exposed?
- For how many hours per day?
- Is potable water available?
- Are supervisors trained to detect/evaluate heat stress symptoms?

ARE EXPOSURES TYPICAL FOR A WORKPLACE IN THIS INDUSTRY?

A. Weather at Time of Review
B. Temperature
C. Humidity
D. Air velocity
E. Is Day Typical of Recent Weather Conditions?
(Get information from the Weather Bureau)
F. Heat-Reducing Engineering Controls

G. Ventilation in place?
H. Ventilation operating?
I. Air conditioning in place?
J. Air conditioning operating?
K. Fans in place?
L. Fans operating?
M. Shields or insulation between sources and employees?
N. Are reflective faces of shields clean?

WORK PRACTICES TO DETECT, EVALUATE, AND PREVENT OR REDUCE HEAT STRESS.

A. Training program?
B. Content?
C. Where given?
D. For whom?
E. Liquid replacement program?
F. Acclimatization program?
G. Work/rest schedule?
H. Scheduling of work (during cooler parts of shift, cleaning and maintenance during shut-downs, etc.)
I. Cool rest areas (including shelter at outdoor work sites)?
J. Heat monitoring program?
K. Personal Protective Equipment
L. Reflective clothing in use?
M. Ice and/or water-cooled garments in use?
N. Wetted undergarments (used with reflective or impermeable clothing) in use?
O. Circulating air systems in use?
P. First Aid Program
Q. Trained personnel?
R. Provision for rapid cool-down?
S. Procedures for getting medical attention?
T. Transportation to medical facilities readily available for heat stroke victims?
U. Medical Screening and Surveillance Program
V. Content?
W. Who manages program?
X. Additional Comments

(Use additional pages as needed.)

APPENDIX III: 4-2. HEAT STRESS-RELATED ILLNESS OR ACCIDENT FOLLOW-UP.

A. Describe events leading up to the episode.
B. Evaluation/comments by other workers at the scene.
C. Work at time of episode (heavy, medium, light)?
D. How long was affected employee working at site prior to episode?
E. Medical history of affected worker, if known.
F. Appropriate engineering controls in place?
G. Appropriate engineering controls in operation?
H. Appropriate work practices used by affected employee(s)?
I. Appropriate personal protective equipment available?
J. Appropriate personal protective equipment in use?
K. Medical screening for heat stress and continued surveillance for signs of heat stress given other employees?
L. Additional comments regarding specific episode(s): (Use additional pages as needed.)

APPENDIX III: 4-3. MEASUREMENT OF WET BULB GLOBE TEMPERATURE.

Measurement is often required of those environmental factors that most nearly correlate with deep body temperature and other physiological responses to heat. At the present time, the Wet Bulb Globe Temperature Index (WBGT) is the most used technique to measure these environmental factors. WBGT values are calculated by the following equations:

Equation III:4-4. Indoor or Outdoor Wet Bulb Globe Temperature Indexes (WBGI) Indoor or outdoors with no solar load

$$WBGT = 0.7NWB + 0.3GT$$

Outdoors with solar load

$$WBGT = 0.7NWB + 0.2GT + 0.1DB$$

where: WBGT = Wet Bulb Globe Temperature Index
NWB = Natural Wet-Bulb Temperature
DB = Dry-Bulb (air) Temperature
GT = Globe Thermometer Temperature

The determination of WBGT requires the use of a black globe thermometer, a natural (static) wet-bulb thermometer, and a dry-bulb thermometer. The measurement of environmental factors shall be performed as follows:

1. The range of the dry and the natural wet-bulb thermometers should be -5°C to +50°C, with an accuracy of ±0.5°C. The dry bulb thermometer must be shielded from the sun and the other radiant surfaces of the environment without restricting the airflow around the bulb. The wick of the natural wet bulb thermometer should be kept wet with distilled water for at least one-half hour before the temperature reading is made. It is not enough to immerse the other end of the wick into a reservoir of distilled water and wait until the whole wick becomes wet by capillarity. The wick must be wetted by direct application of water from a syringe one-half hour before each reading. The wick must cover the bulb of the thermometer and an equal length of additional wick must cover the stem above the bulb. The wick should always be clean, and new wicks should be washed before using.

2. A globe thermometer, consisting of a 15 cm (6-inch) in diameter hollow copper sphere painted on the outside with a matte black finish, or equivalent, must be used. The bulb or sensor of a thermometer (range -5°C to +100°C with an accuracy of ±0.5°C) must be fixed in the center of the sphere. The globe thermometer should be exposed at least 25 minutes before it is read.

3. A stand should be used to suspend the three thermometers so that they do not restrict free air flow around the bulbs and the wet-bulb and globe thermometer are not shaded.

4. It is permissible to use any other type of temperature sensor that gives a reading similar to that of a mercury thermometer under the same conditions.

5. The thermometers must be placed so that the readings are representative of the employee's work or rest areas, as appropriate.

Once the WBGT has been estimated, employers can estimate workers' metabolic heat load (see Tables III:4-1 and III:4-2) and use the ACGIH method to determine the appropriate work/rest regimen, clothing, and equipment to use to control the heat exposures of workers in their facilities.

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APPENDIX E

Health and Safety Briefing/Tailgate Meeting Form

DAILY SITE SAFETY CHECKLIST

Job Name: _____ **Date(s)** _____

Location: _____ **Client Site #** _____

Weather: **M-** **T-** **W-** **TR-** **F-**

•"On the Job" interactive meeting held before work starts	•Provide details of work planned for the day
•Conducted at least once per day	•Review the Job Safety Analysis (JSA) and work hazards
•Involves everyone working at the Site	•Required PPE for the planned work
•Should familiarize everyone with work area & vicinity	•SPSAs are discussed
•Work permit procedures	•HASP is reviewed
•Emergency access/exits & "rally" point	•Ensure safety equipment is on Site
•Emergency contacts/phone #s, hospital route	•Test required safety equipment (such as emergency stop controls)
•Should be interactive	•Can also include inspection of tools and equipment to be used

Instructions: Please only use form for Monday through Friday of one calander week. All attending must initial in boxes below.

#	CHECKLIST ITEM	DATE				
		M-	T-	W-	TR-	F-
1	The HASP (including emergency phone #s) has been reviewed & signed by Roux staff & subcontractors.					
2	Personnel are LPS and OSHA-40 (as applicable) trained and SSE are identified and have an on-site mentor.					
3	Emergency meeting point known, First Care facility and ER identified.					
4	Applicable JSAs have been identified and approved by Roux management. (JSAs Reviewed?)					
5	Roux personnel & subcontractors have discussed hazards associated with Site-specific work.					
6	Any potential slips, trips or fall hazards have been identified.					
7	All workers have appropriate PPE, including long sleeves and have signed in for the day (2nd Page).					
8	No person on-Site has the appearance of being under the influence of motor skill altering substances and are familiar with D&A policy.					
9	Critical equipment on-Site is noted and is in safe working order.					
10	Site control has been established and exclusion zone is identified (using safety cones or barricades to mark out work area).					
11	Appropriate permits has been obtained and potential ignition sources were identified if applicable for Hot Permits					
12	If applicable, all third party permits to construct are on hand and access is permissible.					
13	Lock Out / Tag Out procedures have been followed where applicable, for electric and water.					
14	Electrical power operated tools shall be properly grounded and used with a GFCI.					
15	Traffic Safety Control measures have been put in place where applicable.					
16	All vessels containing flammable/corrosive material are labeled and MSDSs are available for all chemicals.					
17	Subsurface work : Drilling, trenching, etc. conducted according to required Protocol, including pre-field preparations, utility mark-out and "hand" clearing					
18	Excavated soils are properly stored; excavations are properly shored/sloped and barricaded.					
19	Good housekeeping procedures are meet; food and beverages are consumed outside of the work area.					
20	A first aid kit, eye wash bottle/station, and fire extinguishers are available for use.					
21	No smoking signs are visibly posted in areas of potential flammable vapors.					
Initial on right to verify that these actions have taken place						

Comments and Exceptions _____

_____

NOTE: THIS IS A TWO-SIDED FORM; PLEASE COMPLETE BOTH SIDES

DAILY TAILGATE HEALTH & SAFETY MEETING LOG

Job Name _____ **Date(s)** _____

Location: _____ **Client Site #** _____

SUBCONTRACTOR: _____

Activities Planned _____

_____

_____

JSAs Utilized	

Potential Hazards *NOT IN JSA*	Mitigative Measures
LPO Scheduled for:	

PLEASE COMPLETE BOTH SIDES

Meeting Attendance

Name	Company	Mon.	Tue.	Wed.	Thur.	Fri.

Initial in Boxes

APPENDIX F

Medical Data Form

MEDICAL DATA SHEET

This form must be completed by all on-site personnel prior to the commencement of activities, and shall be kept by the Site Health and Safety Officer during site activities. This form must be delivered to any attending physician when medical assistance is needed.

(This form should be typed or printed legibly.)

Site: _____

Name: _____ Home Telephone: _____
(Area Code/Telephone Number)

Address: _____

Date of Birth: _____ Height: _____ Weight: _____

Emergency Contact: _____ Telephone: _____
(Area Code/Telephone Number)

Drug Allergies or Other Allergies: _____

_____

Previous Illnesses or Exposures to Hazardous Substances: _____

_____

_____

Current Medication (Prescription and Non-Prescription): _____

_____

_____

Medical Restrictions: _____

_____

Name, Address and Telephone Number of Person Physician: _____

_____

APPENDIX G

Generic Community Air Monitoring Plan

APPENDIX G

New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing

monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring

particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

APPENDIX H

Carbon Monoxide Guidance

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES INC
209 SHAFTER STREET
ISLANDIA, NEW YORK 11749
TEL 631-232-2600 FAX 631-232-9898

ROUX MEMORANDUM

TO: ExxonMobil Greenpoint Petroleum Remediation Project Staff
FROM: Ray Fitzpatrick
CC: Joseph Gentile
DATE: August 5, 2013
RE: Addendum to Health and Safety Plan to include Carbon Monoxide Guidance

The following Carbon Monoxide Guidance information is incorporated into the ExxonMobil Greenpoint Petroleum Remediation Project (Site) Health and Safety Plan (HASP) Revision Date: June 27, 2013. It provides an overview of potential Carbon Monoxide (CO) sources and guidance regarding potential exposures during Site operations. It includes an assessment of health hazards associated with CO, routes of exposure, symptoms of exposure, effects on human physiology, air concentration Action Levels and corresponding measures to mitigate exposure, and a line item for addition to toxicological Table 1.

Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless, and toxic gas, which is predominately produced by incomplete combustion of carbon-containing materials. Incomplete combustion occurs when insufficient oxygen is used in the fuel (hydrocarbon) burning process. Common sources of CO may include: motor vehicle exhausts, fuel burning[1] furnaces, coal burning power plants, small gasoline engines including electric generators, demolition equipment, chain saws, lawn mowers and power washers, marine engines, fuel powered forklifts, propane or kerosene-powered heaters, and fuel burning water heaters.

Exposure to CO impedes the blood's ability to carry oxygen to body tissues and vital organs. When CO is inhaled, it combines with hemoglobin (an iron-protein component of red blood cells), producing carboxyhemoglobin, which greatly diminishes hemoglobin's oxygen-carrying capacity. **Hemoglobin's binding affinity for CO is 300 times greater than its affinity for oxygen**. As a result, small amounts of CO can dramatically reduce hemoglobin's ability to transport oxygen.

Common symptoms of CO exposure are headache, nausea, rapid breathing (i.e., shortness of breath), weakness, exhaustion, dizziness, and confusion (i.e., light headedness). Hypoxia (severe oxygen deficiency) due to acute CO poisoning may result in reversible neurological effects, or it

[1] Fuel burning may include natural gas, propane, fuel oil, kerosene, gasoline, coal or other carbon-based items.

may result in long-term (and possibly delayed) irreversible neurological (brain damage) or cardiological (heart damage) effects.

CO exposure can be dangerous during pregnancy for both the mother and the developing fetus. Please contact CDC-INFO (800-232-4636) if you have any questions regarding CO exposure during pregnancy.

At work areas where carbon-containing fuels are used, such as in internal combustion engines and generators, the exhausts from these units can contain significant concentrations of CO. In situations where the exhausts create exposure to CO, the exhausts of these units should be extended via appropriate hoses/piping to well ventilated exterior areas (i.e., outside and downwind of structures). Where the concentrations of CO exceed the following "action levels", notify the Project Manager and immediately implement the corresponding actions to mitigate exposure.

Action Levels Table (CO)

Carbon Monoxide (CO) Action Levels[2]	
Concentration of CO in air	*Action*
< 25 ppm	Inspect equipment exhaust systems for leaks, and investigate for other sources of CO. Monitor initially and every 15-minutes during use of CO-generating equipment.
25 – 50 ppm	Ventilate area. Monitor continuously and record measurements.
> 50 ppm	Stop work activities. Ventilate area.

Carbon Monoxide Addition to Toxicological Table

Compound	CAS #	ACGIH TLV®	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/ Chemical Properties
Carbon Monoxide	630-08-0	TWA 25 ppm	TWA 35 ppm C 200ppm	TWA 50 ppm	1,200 ppm	Inhalation	Carboxyhemo-gloemia	Blood	Colorless, odorless gas

TWA – Time Weighted Average - concentrations for OSHA PELs must not be exceeded during any 8-hour work shift of a 40-hour workweek
C – Ceiling - must not be exceeded during any part of the workday

[2] Based upon The American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) of 25 ppm as an 8-hour time-weighted average (TWA) [ACGIH 1994, p. 15] and OSHA's Permissible Exposure Limit (PEL) of 50 ppm as an 8-hour TWA concentration [29 CFR Table Z-1].

APPENDIX I

Utility Clearance

STANDARD OPERATING PROCEDURE 1.17

SUBSURFACE UTILITY CLEARANCE

CORPORATE HEALTH AND SAFETY MANAGER	:	Joseph W. Gentile
EFFECTIVE DATE	:	2/04/15
REVISION NUMBER	:	0

TABLE OF CONTENTS

1.0 PURPOSE 1

2.0 SCOPE AND APPLICABILITY 2

3.0 DEFINITIONS 3

4.0 RESPONSIBILITIES 4
- 4.1 Corporate Health and Safety Manager (CHSM) 4
- 4.2 Office Manager (OM) 4
- 4.3 Project Principals (PPs) 4
- 4.4 Project Manager (PM) 5
- 4.5 Office Health and Safety Manager (OHSM) 5
- 4.6 All Personnel 5

5.0 PROCEDURES 6
- 5.1 Before Intrusive Activities 6
- 5.2 During Intrusive Activities 7

6.0 APPENDICES 8
- A. Example of a Completed One-Call Report
- B. Roux Subsurface Utility Clearance Checklist and Utility Verification / Site Walkthrough Record

1.0 PURPOSE

Roux Associates, Inc. (Roux Associates) has instituted the following Standard Operating Procedure (SOP) for completing proper utility mark-outs and for conducting subsurface clearance activities. The SOP establishes a method to ensure, to the greatest extent possible, that utilities have been identified and contact and/or damage to underground utilities and other subsurface structures will be avoided.

2.0 SCOPE AND APPLICABILITY

This SOP applies to all Roux Associates employees, its contractors and subcontractors. Employees are expected to follow the SOP for all intrusive work involving Roux Associates or other personnel (e.g., contractors/subcontractors) working for Roux Associates unless the client's requirements are more stringent. Deviation from the SOP regardless of the specific work activity or work location must be pre-approved per Section 4.3 of this SOP.

3.0 DEFINITIONS

Intrusive Work Activities	All activities such as digging or scraping the surface, including but not limited to, excavation, test pitting or trenching, soil vapor sampling or the installation of soil borings, soil vapor monitoring points and wells, or monitoring wells, and drilling within the basement slab of a recently demolished building.
Mark-out / Stake Out	The process of contracting with a competent and qualified company to confirm the presence or absence of underground utilities and structures. This process will clearly mark-out and delineate utilities that are identified so that intrusive work activities can be performed without causing disturbance or damage to the subsurface utilities and structures. After utility mark-outs are completed the soft digging will be completed prior to intrusive work.
Tolerance Zone	Defined as two feet on either side of the designated centerline of an identified utility, plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct backs and other non-cylindrical utilities) of that utility and two feet from the outside edge of any subsurface structure.
Structure	For the purpose of this SOP a structure is defined as any underground feature that may present potential source(s) of energy such as, but not limited to, utility vaults, bunkers, piping, electrical boxes, wires, conduits, culverts, utility lines, underground tanks and ducts.
Soft Digging	The safest way to remove material from unknown obstructions or services is by using tools such as a vactor or air knife, non-mechanical tools, or hand tools. The methods are clean and non-evasive and used for uncovering and exposing buried services and excavating and for providing a quick method of soil removal from sensitive areas.
Verification	Exploratory test-hole dug with hand tools within the Tolerance Zone to expose and verify the location, type, size, direction-of-run and depth of a utility or subsurface structure. Vacuum excavation (soft dig) methods can further facilitate exposure of a subsurface utility and accurately provide its location ad identification prior to intrusive work approaching the Tolerance Zone.

4.0 RESPONSIBILITIES

It shall be the responsibility of all Roux Associates employees who oversee or perform intrusive field activities to ensure adequate mark-outs of underground utilities and structures have been provided, reviewed and discussed with the field team. This includes documenting that the mark-out was correctly performed by completing the Mark-out / Stake-out Request Information Sheet (Appendix A) and using the Roux Subsurface Clearance Checklist (Appendix B). Additionally the following personnel have specific responsibilities for implementing this SOP.

4.1 Corporate Health and Safety Manager (CHSM)

- The CHSM has the responsibility of ensuring that a program has been established and is in place to provide guidance for performing adequate utility mark-outs and subsurface utility clearance activities.

- The CHSM has the overall responsibility of implementing this SOP and communicating the contents of this SOP to Office Managers (OMs) and Office Health and Safety Managers (OHSMs).

- The CHSM will periodically, quarterly at a minimum, communicate learnings from mark-outs and subsurface utility clearance incidents and follow-up actions taken to all personnel via Clarity®.

- The CHSM will periodically review and evaluate the effectiveness of this SOP on a quarterly basis.

4.2 Office Manager (OM)

- Each OM will designate an individual to serve as the respective office's OHSM. The OHSM will be vested with the responsibility of assisting in implementation of this SOP's requirements.

- Each OM will ensure that their respective office's staff are made aware of and abide by the requirements of this SOP.

4.3 Project Principals (PPs)

- PPs are responsible for ensuring this SOP is followed for intrusive work performed at their sites. This SOP recognizes that Roux may only be in the position of suggesting, discussing and requesting that this SOP be implemented to our clients.

- PPs have the authority to consider exceptions to this SOP based on their client's site knowledge, site experience and the client's willingness for the use of this SOP. Any and all exceptions, however, will be documented and pre-approved by the OM.

4.4 Project Manager (PM)

- It shall be the PM's responsibility to ensure this SOP is properly implemented. The PM has the responsibility for sharing all Lessons Learned from subsurface utility clearance incidents with the project team.

- The PM has the responsibility of reviewing and editing draft reports of subsurface utility clearance incidents and for filing the finalized reports in the appropriate project files.

4.5 Office Health and Safety Manager (OHSM)

- Each OHSM will ensure that their respective office's staff is trained in this SOP.

- It is the responsibility of the OHSM to review Lessons Learned and Accident Reporting Forms (existing Roux forms) for utility mark-outs and subsurface utility clearance incidents and to assist project teams in finalizing reports.

- The OHSM will review final draft incident reports of subsurface utility clearance incidents, ensure they are finalized and provide the finalized report to the CHSM, OM and the PM for inclusion in the project files as appropriate.

- The OHSM will track all subsurface utility clearance incidents until completed.

- The OHSM will provide the CHSM with all finalized reports of subsurface utility clearance incidents containing follow-up actions for sharing throughout the firm

4.6 All Personnel

- All personnel are responsible for ensuring Public Utility Mark-outs were requested by the subcontractor, performed for all known or suspected utility types and document the process by completion of Roux Subsurface Utility Clearance Checklist and Utility Verification / Site Walkthrough Record.

5.0 PROCEDURES

5.1 Before Intrusive Activities

During the project kick-off meeting for intrusive activities the PM will review the Roux Subsurface Utility Clearance Checklist and Utility Verification / Site Walkthrough Record (Appendix B) and the below bullet points with the project field team:

(Please note that these are intended as general reminders only and should not be solely relied upon.)

- Ensure the Mark-out / Stake-out Request Information Sheet (or one-call report is complete and accurate for the site including address and cross streets) is completed and review for missing utilities (note utility mark-out organizations do not have contracts with all utilities and it is often necessary to contact certain utilities separately such as the local water and sewer authorities).

- Have written confirmation prior to mobilizing to the site that the firm or Roux personnel performing the intrusive activity has correctly completed the mark-out notification process including requesting mark-outs, waiting for mark-outs to be applied to ground surfaces at the site, and receiving written confirmation of findings (via fax or email) from utility operators for all known or suspected utilities in the proposed area of intrusive activity, and provided utility owner written confirmation to Roux Associates personnel for review and project files documentation.

- Do not begin any intrusive activity until any utilities mark-out has been completed (i.e., did all utilities mark-out the site?) and any unresolved mark-out issues are finalized. Perform a site walk to review the existing utilities and determine if said utilities have been located by the utility locators.
  - (Note: The Tolerance Zone is defined as two feet plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct banks and other non-cylindrical utilities) of a utility and two feet from the outside edge of any subsurface structure.)

- Install Pre-Clearance exploratory test holes (e.g., hand-dug test holes or other soft digging techniques) for the first 5-ft below land surface (BLS) at each location prior to conducting mechanized intrusive activities. The size of the pre-clearance exploratory test hole should be at a minimum twice the diameter of any downhole tool or boring device. (Note: Pre-Clearance exploratory test holes should be defined in the SOW/proposal as being provided to the client to prevent project delays and to allow adequate time for PM and PP to evaluate alternative approaches for the project. Alternative approaches will need to be pre-approved by the OM.

- For excavations, all utilities need to be marked and then exposed by hand following the protocols in this SOP. Pre-clearing for excavations may be performed by the "moat" technique (i.e., soft digging around the perimeter). In these cases, dig in small lifts (<12" for first 5 feet) using a dedicated spotter.) For Tolerance Zone work, unless

otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of hand-dug test holes performed to expose the utility. Once structures have been verified a minimum clearance of two feet must be maintained between the utility and any powered equipment.

- In addition, the following activities should be conducted:
  - Review the work scope to be performed with the site owner/tenant to determine if it may impact any utilities,
  - Attempt to procure any utility maps or historic drawings of subsurface conditions of the site,
  - **Determine the need for utility owner companies to be contacted or to have their representatives on site**,
  - Where mark-outs terminate at the property boundary, consider the use of private utility locating / GPR / Geophysical-type services which may be helpful in locating utilities. Use of private utility locating firms, however, does not eliminate the legal requirement for the Excavator firm to submit a request for Public Utility Mark-outs. Also, the information provided by the service may be inaccurate and unable to locate subsurface utilities and structures in urban areas, landfills, urban fill areas and below reinforced slabs, etc. They should not be relied upon as the only means of performing utility clearance.

5.2 During Intrusive Activities

The PM, field team lead or personnel performing oversight is to:

- Ensure the mark-out remains valid. (In certain states there are limits regarding the duration of time after the mark-out was applied to the ground surface work can be started or interrupted.) Additionally, the mark-outs must be maintained, documented, and in many cases refreshed periodically to be considered valid.
- Ensure intrusive activities are only performed within the safe boundaries of the mark-out as detailed in the One-Call Report.
- Halt all work if intrusive activities must take place outside of the safe boundaries of a mark-out and only proceed after new mark-outs are performed.
- Halt the intrusive activities and immediately consult with the PP if an unmarked utility is encountered.
- Completing any subsurface utility clearance incident reports that are necessary.

6.0 APPENDICES

- Example Completed One-Call Report (Appendix A)
- Roux Subsurface Clearance Checklist and Utility Verification / Site Walkthrough Record (Appendix B)

APPENDIX A

Example Completed One-Call Report

New York 811

Send To: C_EMAIL Seq No: 744

Ticket No: 133451007 ROUTINE

Start Date: 12/16/13 Time: 7:00 AM Lead Time: 20

State: NY County: QUEENS Place: QUEENS
Dig Street: 46TH AVE Address:
Nearest Intersecting Street: VERNON BLVD
Second Intersecting Street: 11TH ST

Type of Work : SOIL BORINGS
Type of Equipment : GEOPROBE
Work Being Done For: ROUX

In Street: X On Sidewalk: X Private Property: Other:
On Property Location if Private: Front: Rear: Side:

Location of Work: MARK THE ENTIRE NORTH SIDE OF THE STREET AND SIDEWALK OF:
46TH AVE BETWEEN VERNON BLVD AND 11TH STREET

Remarks:

Nad: Lat: Lon: Zone:
ExCoord NW Lat: 40.7475399 Lon: -73.9534811 SE Lat: 40.7457406 Lon: -73.9493680

Company : ZEBRA ENVIROMENTAL Best Time: 6AM-5PM
Contact Name : DAVID VINES Phone: (516)596-6300
Field Contact : DAVID VINES Phone: (516)596-6300
Caller Address: 30 N PROSPECT AVE Fax Phone: (516)596-4422
LYNBROOK, NY 11563
Email Address : david@zebraenv.com

Additional Operators Notified:
ATTNY01 AT&T CORPORATION (903)753-3145
CEQ CONSOLIDATED EDISON CO. OF N.Y (800)778-9140
MCINY01 MCI (800)289-3427
PANYNJ01 PORT AUTHORITY OF NY & NJ (201)595-4841
VZQ VERIZON COMMUNICATIONS (516)297-1602

Link to Map for C_EMAIL: http://ny.itic.occinc.com/XGMZ-DF2-L23-YAY

Original Call Date: 12/11/13 Time: 1:15 PM Op: webusr
IMPORTANT NOTE: YOU MUST CONTACT ANY OTHER UTILITIES DIRECTLY.

APPENDIX B

Roux Subsurface Utility Clearance Checklist

Date of Revision – 12/3/14

Work site set-up and work execution

ACTIVITY	Yes	No	N/A	COMMENTS INCLUDING JUSTIFICATION IF RESPONSE IS NO OR NOT APPLICABLE
Daily site safety meeting conducted, SPSAs performed, JSAs reviewed, appropriate work permits obtained				
HASP is available and reviewed by site workers / visitors				
Subsurface Utility Clearance Procedure has been reviewed with all site workers				
Work area secured; traffic control established as needed. Emergency shut-off switch located. Fire extinguishers / other safety equipment available as needed				
Utility mark-outs (public / private) clear and visible. Provide Excavator's Stake-Out Reference Number / Request Date / Time				
Tolerance zone work identified				
Work execution plan reviewed and adhered to (ground disturbance methods, clearance depths, any special utility protection requirements, or any other execution requirements; especially for Tolerance Zone work)				
Verbal endorsement received from Roux PM for any required field deviations to work execution plan				

Key reminders for execution:

The Subsurface Utility Clearance Protocol should be referenced to determine all requirements while executing subsurface work. The bullet points below are intended as general reminders only and should not be solely relied upon.

- Tolerance zone is defined as two feet plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct banks and other non-cylindrical utilities) of a utility and two feet from the outside of any subsurface structure.
- Install Pre-Clearance exploratory test holes (e.g., hand-dug test holes or vacuum excavation) must be performed for the first five feet below land surface (BLS) at each location prior to conducting mechanized intrusive activities. The size of the pre-clearance exploratory test hole

should be at a minimum twice the diameter of any downhole tool or boring device. (Note: Pre-clearance exploratory test holes should be defined in the SOW/proposal as being provided to the client to prevent project delays and to allow adequate time for PM and PP to evaluate alternative approaches for the project. Alternate approaches will need to be pre-approved by the OM.

- For excavations, all utilities need to be marked and then exposed by hand following the protocols in this SOP. Pre-clearing for excavations may be performed by the "moat" technique (i.e., soft digging around the perimeter). In these cases, dig in small lifts (<12" for first five feet) using a dedicated spotter.) For Tolerance Zone work, unless otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of hand-dug test holes to expose the utility. Once structures have been verified a minimum clearance of two feet must be maintained between the utility and any powered equipment.

Utility Verification / Site Walkthrough Record

Employee Name: _____

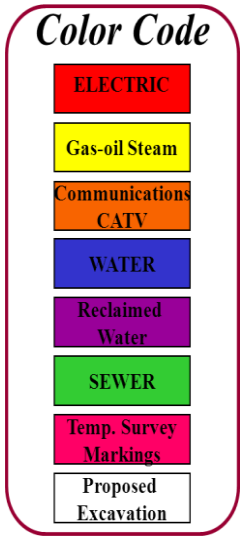
Date: _____

Instructions: For each utility suspected at the job site, indicate location on the job site, approximate burial depth, and means of detecting the utility. Leave blank if that utility is not believed to be present.

Utility	Description of Utility Location Identified On-site	Approx. Depth (bls)	Method / Instrumentation used to determine Utility Location	Utility Owner Response (Date/Time)	Mark Out Indicates (Clear / Conflict)
Electrical Lines					
Gas Lines					
Pipelines					
Steam Lines					
Water Lines					
Sanitary & Storm-water Sewer lines					
Pressured Air-Lines					
Tank Vent Lines					
Fiber Optic Lines					
Underground Storage Tanks					
Phone Lines/ Other					

bls - Below land surface

Site Sketch Showing Utilities:



Other Comments / Findings:

Completed by: _____

Signature: _____ Date: _____

APPENDIX J

Heavy Equipment Exclusion Zone

FINAL

STANDARD OPERATING PROCEDURE 1.13

HEAVY EQUIPMENT EXCLUSION ZONE POLICY

CORPORATE HEALTH AND SAFETY MANAGER	:	Joseph W. Gentile
EFFECTIVE DATE	:	February 2014
REVISION NUMBER	:	1

Objective

The purpose of the Exclusion Zone Policy is to establish the minimum clearance distance that must be maintained between workers and heavy equipment while equipment is in operation (i.e., engaged or moving). The intent is to have no personnel or other equipment entering the Exclusion Zone while the equipment is in operation/moving to ensure that Roux and Subcontractor employees are not unnecessarily exposed to the hazards of the equipment.

A. Definition

For the purpose of this policy, heavy equipment includes, but is not necessarily limited to: excavation equipment, drill rigs, vacuum trucks, forklifts, lull telehandlers, man lifts, bobcats, delivery trucks, etc.

B. Requirements

1. Exclusion Zones must be established and maintained during activities involving the movement/operation of heavy equipment. The Exclusion Zone requirements apply to all personnel on the site but are primarily focused on those personnel who are required to be working in the vicinity of the equipment. The exclusion zone is in effect when heavy equipment is moving or engaged (ex. movement of an arm or bucket of an excavator, rotation of an auger, lifting of a load with a forklift, raising/lowering of a man lift, etc.).

2. The Exclusion Zone must meet the following minimum requirements:

- A minimum distance of 10 feet from all heavy equipment and loads being moved by the equipment; and
- Greater than the swing/reach radius of any moving part on the heavy equipment (i.e., for large equipment this may mean an exclusion zone distance larger than 20 feet);
- Greater than the tip-over distance of the heavy equipment; and
- Greater than the radius of blind spots.

3. The size of the Exclusion Zone will need to be determined on a task-specific basis considering the size of the heavy equipment in use and the task being performed. Prior to all heavy equipment operations, the Exclusion Zone(s) distance must be specifically identified in the Job Safety Analysis (JSA).

4. The spotter (or another individual) should be assigned responsibility for enforcing the Exclusion Zone. This spotter should be positioned immediately outside of the Exclusion Zone within a clear line of sight of the equipment operator. The spotter must signal the operator to stop work if anyone or anything has the potential to enter or compromise the Exclusion Zone. The operator should stop work if the spotter is not within his/her line of sight. If multiple pieces of equipment are being used, each piece of equipment must have its own Exclusion Zone and spotter. For large excavation and demolition projects the spotter should be in constant radio contact (not cell phone) with the machine driver.

5. If an individual must enter the Exclusion Zone, the designated Spotter must signal the Equipment Operator to stop the equipment. Once the equipment is no longer moving (ex. movement of an arm of an excavator is STOPPED, lifting of a load with a forklift STOPPED, raising/lowering of a man lift is STOPPED, etc.), the operator must **DISENGAGE THE CONTROLS and STOP and SIGNAL BY "SHOWING HIS HANDS"**. This signal will indicate that it is safe for the personnel to enter the limits of the Exclusion Zone to perform the required activity. The

equipment must remain completely stopped/disengaged until all personnel have exited the limits of the Exclusion Zone and the designated Spotter has signaled by "SHOWING HIS HANDS" to the Equipment Operator that it is safe to resume.

6. When entering the limits of the Exclusion Zone, personnel must at a minimum:
   - Establish eye contact with the operator and approach the heavy equipment in a manner that is in direct line of sight to the Equipment Operator;
   - Never walk under any suspended loads or raised booms/arms of the heavy equipment; and
   - Identify a travel path that is free of Slip/Trip/Fall hazards.

7. The Exclusion Zone should be delineated using cones with orange snow fence or solid poles between the cones, barrels, tape or other measures. For work in rights-of-way rigid barriers, such as Jersey barriers or temporary chain link fence should be used. For certain types of wide-spread or moving/mobile equipment operations, such delineation may not be practicable around pieces of equipment or individual work areas. In such instances it is expected that the entire operation will be within a larger secure work area or that additional means will be utilized to ensure security of the work zone.

C. Exceptions

It is recognized that certain heavy equipment activities may require personnel to work within the limits of the Exclusion Zone as specified in this policy. Such activities may include certain excavation clearance tasks, drill crew activities or construction tasks. However, any such activity must be pre-planned with emphasis on limiting the amount and potential exposure of any activity required within the zone. The critical safety steps to mitigate the hazards associated with working within the Exclusion Zone must be defined in the JSA and potentially other project-specific plans (i.e., critical lift plans, etc.), and approved by the Roux Project Principal and client representative, if required, prior to implementation.

D. Responsibilities

1. Corporate Health and Safety Manager

   Overall responsibility for administration, implementation and auditing of this policy.

2. Office Managers

   Responsible for communicating this policy to all of their employees who perform or may perform field work involving heavy equipment.

3. Office Health and Safety Managers

   Providing training to office field staff in this policy.

4. Project Principals

   a. Responsible for ensuring their projects address heavy equipment exclusion zones.

   b. Approving exceptions to this policy.

5. Project Managers

a. Responsible for incorporating this policy into their project HASPs and applicable procedures to include JSAs.

b. Communicating to and enforcing the policy requirements for subcontractors who work on their projects.

6. Field Workers

a. Attending training in the policy.

b. Following the requirements of the policy.

E. Project and Site-Specific Orientation and Training

Many Roux projects have different requirements that are client-specific or site-specific in nature. It is the responsibility of the Project Principal (or Project Manager if delegated this responsibility by the Project Principal) to ensure that the workers assigned to his/her projects are provided orientation and training with respect to these client and/or site-specific requirements.

F. Subcontractors

All subcontractors who provide heavy equipment operations to field projects must implement a policy that meets or exceeds the expectations described above as well as any additional requirements that may be required on a client or site-specific basis.

APPENDIX K

Accident Report and Investigation Form

☐ **Roux Associates, Inc.** ☐ **Remedial Engineering, P.C.**
(Check applicable company name)

ACCIDENT REPORT

Joe Gentile, Corporate Health and Safety Manager
Cell: (610) 844-6911; Office: (856) 423-8800; Office FAX: (856) 423-3220; Home: (484) 373-0953

PART 1: ADMINISTRATIVE INFORMATION

Project #: _____
Project Name: _____
Project Location (street address/city/state)**:**
_____
_____

Client Corporate Name / Contact / Address / Phone #:
_____
_____
_____
_____
_____

Immediate Verbal Notifications Given To:

Corporate Health & Safety	☐Yes	☐No
Office Health & Safety	☐Yes	☐No
Office Manager	☐Yes	☐No
Project Principal	☐Yes	☐No
Project Manager	☐Yes	☐No
Client Contact	☐Yes	☐No

REPORT STATUS (time due):
☐ Initial (24 hr) ☐ Final (5-10 days)
Date: _____ Date: _____

Accident Report Delivered To:

Corporate Health & Safety	☐Yes	☐No
Office Health & Safety	☐Yes	☐No
Office Manager	☐Yes	☐No
Project Principal	☐Yes	☐No
Project Manager	☐Yes	☐No

REPORT TYPE: ☐ Loss ☐ Near Loss Estimated Costs: $ _____

OSHA CASE # Assigned by Corporate Health & Safety if Applicable:

Corporate Health & Safety Confirmed Final Accident Report
☐Yes ☐No

DATE OF INCIDENT: _____

TIME INCIDENT OCCURRED: _____ ☐AM ☐PM

INCIDENT LOCATION – City, State, and Country (If outside U.S.A.)

INCIDENT TYPES: (Select most appropriate if Loss occurred.)
From lists below, please select the option that best categories the incident. When selecting an injury or illness, also indicate the severity level.

☐**INJURY** ☐**ILLNESS**

----------**Severity Level**----------

☐Fatality ☐First Aid ☐Medical
☐Restricted Work ☐Lost Time ☐Treatment

OTHER INCIDENT TYPES

☐Spill / Release
Material involved:_____
Quantity (U.S. Gallons): _____

☐Misdirected Waste ☐Consent Order ☐NOV
☐Property Damage ☐Exceedance
☐Motor Vehicle ☐Fine / Penalty

ACTIVITY TYPE (Check most appropriate one.)

☐Decommissioning	☐Geoprobe	☐Sampling
☐Demolition	☐Motor Vehicle	☐System Start-up
☐Dewatering	☐Operations/	☐Trenching
☐Drilling	Maintenance	☐AST/UST Removal
☐Excavation	☐Pump/Pilot Test	☐Other_____
☐Gauging	☐Rigging/Lifting	

INJURY TYPE (Check all applicable.)

☐Abrasion	☐Occupational Illness
☐Amputation	☐Puncture
☐Burn	☐Rash
☐Cold/Heat Stress	☐Repetitive Motion
☐Inflammation	☐Sprain/Strain
☐Laceration	☐Other_____

BODY PART AFFECTED (Check all applicable.)

☐Respiratory	☐Shoulder	☐Face
☐Neck	☐Arm	☐Leg
☐Chest	☐Wrist	☐Knee
☐Abdomen	☐Hand/Fingers	☐Ankle
☐Groin	☐Eye	☐Foot/Toes
☐Back	☐Head	☐Other_____

I. PERSON(S) DIRECTLY / INDIRECTLY INVOLVED IN INCIDENT (Attach additional information as necessary/applicable.)

Name/Phone # of Each Person Directly/Indirectly Involved in Incident:	Designate: Roux/Remedial Employee; Roux/Remedial Subcontractor; Client Employee; Client Contractor; Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:
1)				
2)				

II. PERSONS INJURED IN INCIDENT (Attach additional information as necessary/applicable.)

Name/Phone # of Each Person Injured in Incident:	Designate: Roux/Remedial Employee; Roux/Remedial Subcontractor; Client Employee; Client Contractor; Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:	Description of Injury:
1)					
2)					

III. PROPERTY DAMAGED IN INCIDENT (Attach additional information as necessary/applicable.)

Property Damaged:	Property Location:	Owner Name, Address & Phone #:	Description of Damage:	Estimated Cost:
1)				

No One Gets Hurt!

2)				$

IV. WITNESSES TO INCIDENT (Attach additional information as necessary/applicable.)

Witness Name:	Address:	Phone #:
1)		
2)		

PART 2: WHAT HAPPENED AND INCIDENT DETAILS

PROVIDE FACTUAL DESCRIPTION OF INCIDENT (e.g., describe loss/near loss, injury, response / treatment).

I. AUTHORITIES/GOVERNMENTAL AGENCIES NOTIFIED (Attach additional information as necessary/applicable.)

Authority/Agency Notified:	Name/Phone #/Fax # of Person Notified:	Address of Person Notified:	Date & Time of Notification:	Exact Information Reported/Provided:

II. PUBLIC RESPONSES TO INCIDENT (if applicable)

Response/Inquiry By: (check one)	Entity Name:	Name/Phone # of Respondent/ Inquirer:	Address of Entity/Person:	Date & Time of Response/Inquiry:
☐Newspaper ☐Television ☐Community Group ☐Neighbors ☐Other _____				

Describe Response/Inquiry:

Roux/Remedial Response:

(Check all that apply.) (Attach photos, drawings, etc. to help illustrate the incident.)

ATTACHED INFORMATION: ☐Photo ☐Sketches ☐Vehicle Acord Form ☐Police Report ☐Other

Name(s) of person(s) who prepared Initial and Final Report:	**Title(s):**	**Phone number(s):**

PART 3: INVESTIGATION TEAM ANALYSIS

CONCLUSION: WHY IT HAPPENED (LIST CAUSAL FACTORS AND CORRESPONDING ROOT CAUSES)

(Root Causes: Lack of knowledge or skill, Doing the task according to procedures or acceptable practices takes more time or effort, Short-cuts or not following acceptable practices is reinforced or tolerated, Not following procedures or acceptable practices did not result in an accident, Lack of or inadequate procedures, Inadequate communications of expectations regarding procedures or acceptable practices, Inadequate tools or equipment, External Factors)

ROOT CAUSE(S) AND SOLUTION(S): HOW TO PREVENT INCIDENT FROM RECURRING

PERSONAL FACTORS:

A. LACK OF SKILL OR KNOWLEDGE

B. DOING THE JOB ACCORDING TO PROCEDURES OR ACCEPTABLE PRACTICES TAKES MORE TIME OR EFFORT

C. SHORT-CUTTING PROCEDURES OR ACCEPTABLE PRACTICES IS POSITIVELY REINFORCED OR TOLERATED

D. IN PAST, DID NOT FOLLOW PROCEDURES OR ACCEPTABLE PRACTICES AND NO INCIDENT OCCURRED

JOB FACTORS:

E. LACK OF OR INADEQUATE PROCEDURES

F. INADEQUATE COMMUNICATION OF EXPECTATIONS REGARDING PROCEDURES OR ACCEPTABLE STANDARDS

G. INADEQUATE TOOLS OR EQUIPMENT (available, maintained, etc.)

CAUSAL FACTOR / BEHAVIOR / CONDITION	ROOT CAUSE	SOLUTION(S) [Must Match Root Cause(s)]		PERSON RESPONSIBLE	AGREED DUE DATE	ACTUAL COMPLETION DATE
		#	Solution(s)			

INVESTIGATION TEAM:

PRINT NAME	JOB POSITION	DATE	SIGNATURE

QUALITY REVIEW Correct root cause(s) identified? Do root cause(s) and solution(s) match? Are solution(s) feasible / maintainable?

Name: **Job Title:**

PART 4: Date Solutions were Implemented & Validated (Were Solutions Effective?)

Date	Solution	Verifier / Validator Name and Job Title	**Details** (of I & V performed)

APPENDIX L

Acord Automobile Loss Form

AUTOMOBILE LOSS NOTICE

DATE (MM/DD/YYYY)

AGENCY	INSURED LOCATION CODE	DATE OF LOSS AND TIME	AM / PM
AJ Gallagher Risk Management Services 377 Oak Street Garden City, NY 11530			
CONTACT NAME: Teresa Garzia PHONE (A/C, No, Ext): (516) 622-2418 FAX (A/C, No): E-MAIL ADDRESS: CODE: SUBCODE: AGENCY CUSTOMER ID: ROUXASS-01	CARRIER: Great Divide Insurance Company		NAIC CODE
	POLICY NUMBER: BAP154979913		
	POLICY TYPE: Commercial Automobile		

INSURED

NAME OF INSURED (First, Middle, Last)	INSURED'S MAILING ADDRESS
Roux Associates, Inc.	209 Shafter Street Islandia, NY 11749
DATE OF BIRTH: / FEIN (if applicable): 11-2579482 / MARITAL STATUS / CIVIL UNION (if applicable):	
PRIMARY PHONE # ☐ HOME ☒ BUS ☐ CELL: (631) 232-2600 SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL:	PRIMARY E-MAIL ADDRESS: legaldept@rouxinc.com SECONDARY E-MAIL ADDRESS: Fax Notice of Loss to (631) 232-1525

CONTACT

☐ CONTACT INSURED

NAME OF CONTACT (First, Middle, Last)	CONTACT'S MAILING ADDRESS
Cindy Albanese	Same as above
PRIMARY PHONE # ☐ HOME ☒ BUS ☐ CELL: (631) 630-2376 SECONDARY PHONE # ☐ HOME ☒ BUS ☐ CELL: (631) 232-2600	
WHEN TO CONTACT	PRIMARY E-MAIL ADDRESS: legaldept@rouxinc.com SECONDARY E-MAIL ADDRESS: Fax (631) 232-1525

LOSS

LOCATION OF LOSS STREET:	POLICE OR FIRE DEPARTMENT CONTACTED
CITY, STATE, ZIP:	REPORT NUMBER
COUNTRY:	

DESCRIBE LOCATION OF LOSS IF NOT AT SPECIFIC STREET ADDRESS:

DESCRIPTION OF ACCIDENT (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

INSURED VEHICLE

VEH #	YEAR	MAKE:	BODY TYPE:	PLATE NUMBER	STATE
		MODEL:	V.I.N.:		

OWNER'S NAME AND ADDRESS ☐ (Check if same as insured)	PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL / SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL
	PRIMARY E-MAIL ADDRESS: SECONDARY E-MAIL ADDRESS:
DRIVER'S NAME AND ADDRESS ☐ (Check if same as owner)	PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL / SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL
	PRIMARY E-MAIL ADDRESS: SECONDARY E-MAIL ADDRESS:

RELATION TO INSURED (Employee, family, etc.)	DATE OF BIRTH	DRIVER'S LICENSE NUMBER	STATE	PURPOSE OF USE	USED WITH PERMISSION? (Y/N)

DESCRIBE DAMAGE

1. WAS A STANDARD CHILD PASSENGER RESTRAINT SYSTEM (CHILD SEAT) INSTALLED IN THE VEHICLE AT THE TIME OF THE ACCIDENT?	Y / N
2. WAS THE CHILD PASSENGER RESTRAINT SYSTEM (CHILD SEAT) IN USE BY A CHILD DURING THE TIME OF THE ACCIDENT?	Y / N
3. DID THE CHILD PASSENGER RESTRAINT SYSTEM (CHILD SEAT) SUSTAIN A LOSS AT THE TIME OF THE ACCIDENT?	Y / N

ESTIMATE AMOUNT:	WHERE CAN VEHICLE BE SEEN?:	WHEN CAN VEHICLE BE SEEN?:
OTHER INSURANCE ON VEHICLE - CARRIER:		POLICY NUMBER:

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OTHER VEHICLE / PROPERTY DAMAGED

NON - VEHICLE? ☐

AGENCY CUSTOMER ID: _____

VEH #	YEAR	MAKE:	BODY TYPE:	PLATE NUMBER	STATE
		MODEL:	V.I.N.:		

DESCRIBE PROPERTY (Other Than Vehicle) | OTHER VEH/PROP INS? (Y/N) ☐

CARRIER OR AGENCY NAME | NAIC CODE | POLICY NUMBER

OWNER'S NAME AND ADDRESS | PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL | SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL

PRIMARY E-MAIL ADDRESS:

SECONDARY E-MAIL ADDRESS:

DRIVER'S NAME AND ADDRESS ☐ (Check if same as owner) | PRIMARY PHONE # ☐ HOME ☐ BUS ☐ CELL | SECONDARY PHONE # ☐ HOME ☐ BUS ☐ CELL

PRIMARY E-MAIL ADDRESS:

SECONDARY E-MAIL ADDRESS:

DESCRIBE DAMAGE

ESTIMATE AMOUNT	WHERE CAN DAMAGE BE SEEN?	

INJURED

NAME & ADDRESS	PHONE (A/C, No)	PED	INS VEH	OTH VEH	AGE	EXTENT OF INJURY
		☐	☐	☐		
		☐	☐	☐		
		☐	☐	☐		
		☐	☐	☐		

WITNESSES OR PASSENGERS

NAME & ADDRESS	PHONE (A/C, No)	INS VEH	OTH VEH	OTHER (Specify)
		☐	☐	
		☐	☐	
		☐	☐	

REPORTED BY | REPORTED TO

REMARKS (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

APPLICABLE IN ALABAMA

Any person who knowingly presents a false or fraudulent claim for payment of a loss or benefit or who knowingly presents false information in an application for insurance is guilty of a crime and may be subject to restitution fines or confinement in prison, or any combination thereof.

APPLICABLE IN ALASKA

A person who knowingly and with intent to injure, defraud, or deceive an insurance company files a claim containing false, incomplete, or misleading information may be prosecuted under state law.

APPLICABLE IN ARIZONA

For your protection, Arizona law requires the following statement to appear on this form. Any person who knowingly presents a false or fraudulent claim for payment of a loss is subject to criminal and civil penalties.

APPLICABLE IN ARKANSAS, DELAWARE, KENTUCKY, LOUISIANA, MAINE, MICHIGAN, NEW JERSEY, NEW MEXICO, NORTH DAKOTA, PENNSYLVANIA, RHODE ISLAND, SOUTH DAKOTA, TENNESSEE, TEXAS, VIRGINIA, AND WEST VIRGINIA

Any person who knowingly and with intent to defraud any insurance company or another person, files a statement of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact, material thereto, commits a fraudulent insurance act, which is a crime, subject to criminal prosecution and civil penalties. In LA, ME, TN, and VA, insurance benefits may also be denied.

APPLICABLE IN CALIFORNIA

For your protection, California law requires the following to appear on this form: Any person who knowingly presents a false or fraudulent claim for payment of a loss is guilty of a crime and may be subject to fines and confinement in state prison.

APPLICABLE IN COLORADO

It is unlawful to knowingly provide false, incomplete, or misleading facts or information to an insurance company for the purpose of defrauding or attempting to defraud the company. Penalties may include imprisonment, fines, denial of insurance, and civil damages. Any insurance company or agent of an insurance company who knowingly provides false, incomplete, or misleading facts or information to a policy holder or claimant for the purpose of defrauding or attempting to defraud the policy holder or claimant with regard to a settlement or award payable from insurance proceeds shall be reported to the Colorado Division of Insurance within the Department of Regulatory Agencies.

APPLICABLE IN THE DISTRICT OF COLUMBIA

Warning: It is a crime to provide false or misleading information to an insurer for the purpose of defrauding the insurer or any other person. Penalties include imprisonment and/or fines. In addition, an insurer may deny insurance benefits, if false information materially related to a claim was provided by the applicant.

APPLICABLE IN FLORIDA

Pursuant to S. 817.234, Florida Statutes, any person who, with the intent to injure, defraud, or deceive any insurer or insured, prepares, presents, or causes to be presented a proof of loss or estimate of cost or repair of damaged property in support of a claim under an insurance policy knowing that the proof of loss or estimate of claim or repairs contains any false, incomplete, or misleading information concerning any fact or thing material to the claim commits a felony of the third degree, punishable as provided in S. 775.082, S. 775.083, or S. 775.084, Florida Statutes.

APPLICABLE IN HAWAII

For your protection, Hawaii law requires you to be informed that presenting a fraudulent claim for payment of a loss or benefit is a crime punishable by fines or imprisonment, or both.

APPLICABLE IN IDAHO

Any person who knowingly and with the intent to injure, defraud, or deceive any insurance company files a statement of claim containing any false, incomplete or misleading information is guilty of a felony.

APPLICABLE IN INDIANA

A person who knowingly and with intent to defraud an insurer files a statement of claim containing any false, incomplete, or misleading information commits a felony.

APPLICABLE IN KANSAS

Any person who, knowingly and with intent to defraud, presents, causes to be presented or prepares with knowledge or belief that it will be presented to or by an insurer, purported insurer, broker or any agent thereof, any written statement as part of, or in support of, an application for the issuance of, or the rating of an insurance policy for personal or commercial insurance, or a claim for payment or other benefit pursuant to an insurance policy for commercial or personal insurance which such person knows to contain materially false information concerning any fact material thereto; or conceals, for the purpose of misleading, information concerning any fact material thereto commits a fraudulent insurance act.

APPLICABLE IN MARYLAND

Any person who knowingly or willfully presents a false or fraudulent claim for payment of a loss or benefit or who knowingly or willfully presents false information in an application for insurance is guilty of a crime and may be subject to fines and confinement in prison.

APPLICABLE IN MINNESOTA

A person who files a claim with intent to defraud or helps commit a fraud against an insurer is guilty of a crime.

APPLICABLE IN NEVADA

Pursuant to NRS 686A.291, any person who knowingly and willfully files a statement of claim that contains any false, incomplete or misleading information concerning a material fact is guilty of a felony.

APPLICABLE IN NEW HAMPSHIRE

Any person who, with purpose to injure, defraud or deceive any insurance company, files a statement of claim containing any false, incomplete or misleading information is subject to prosecution and punishment for insurance fraud, as provided in RSA 638:20.

APPLICABLE IN NEW YORK

Any person who knowingly and with intent to defraud any insurance company or other person files an application for commercial insurance or a statement of claim for any commercial or personal insurance benefits containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, and any person who in connection with such application or claim knowingly makes or knowingly assists, abets, solicits or conspires with another to make a false report of the theft, destruction, damage or conversion of any motor vehicle to a law enforcement agency, the Department of Motor Vehicles or an insurance company, commits a fraudulent insurance act, which is a crime, and shall also be subject to a civil penalty not to exceed five thousand dollars and the value of the subject motor vehicle or stated claim for each violation.

APPLICABLE IN OHIO

Any person who, with intent to defraud or knowing that he/she is facilitating a fraud against an insurer, submits an application or files a claim containing a false or deceptive statement is guilty of insurance fraud.

APPLICABLE IN OKLAHOMA

WARNING: Any person who knowingly and with intent to injure, defraud or deceive any insurer, makes any claim for the proceeds of an insurance policy containing any false, incomplete or misleading information is guilty of a felony.

APPLICABLE IN WASHINGTON

It is a crime to knowingly provide false, incomplete, or misleading information to an insurance company for the purpose of defrauding the company. Penalties include imprisonment, fines and denial of insurance benefits.

APPENDIX M

Health & Safety Lessons Learned Form

HEALTH & SAFETY LESSONS LEARNED
ROUX REPORT FORM

☐ **Roux Associates, Inc.** ☐ **Remedial Engineering, P.C.**
(Check applicable company name)

PART 1: ADMINISTRATIVE INFORMATION

Office: ☐ New York ☐ Massachusetts ☐ New Jersey ☐ Illinois ☐ CA - Los Angeles ☐ CA - Oakland

Project Manager:	**Project Principal:**
Project Name:	**Project Location:**

PART 2: LESSONS LEARNED INCIDENT DETAILS

Date\Time Occurred (MM/DD/YYYY HH:MM)**:**	**Date\Time Submitted** (MM/DD/YYYY HH:MM)**:**

LESSONS LEARNED INCIDENT TYPE - What could have happened? - Select all that apply (1-7)

1. ☐ Fire / Explosion
2. ☐ Injury / Illness
3. ☐ Security (e.g, theft, trespassing, vandalism)
4. ☐ Environmental (spill, permit exceedance, etc.)
5. ☐ Transportation of personnel (vehicle accident)
6. ☐ Property/Equipment Damage
7. ☐ Business Interruption

Event Leading to Potential Injury/Illness:

Job Task*:	**Equipment Involved*:**

WHAT HAPPENED? Do not include individuals' names. Ensure photos, sketches, etc. are not personally identifiable unless written consent has been obtained.

Summary (1-2 sentences. Provide brief description of the incident. Provide facts only, no speculation or opinion)**:**

Incident Details (Brief factual details of what, where, when; include photos, sketches, etc. as attachments)**:**

Immediate Corrective Actions Taken:

SERIOUS INJURY OR FATALITY (SIF): IF AN ACTUAL SIF, USE EXISTING ROUX ACCIDENT REPORTING FORM

Could this have resulted in a SIF? ☐ **Yes** ☐ **No**

A potential SIF is defined as likely to have caused an injury resulting in significant physical body damage with probable long term and/or life altering complications.

INCIDENT INVOLVED:

Roux Employee: ☐ **Yes** ☐ **No** **Subcontractor Company Name:**

INVESTIGATION TEAM

NAME	JOB TITLE	NAME	JOB TITLE

PART 3: INCIDENT INVESTIGATION FINDINGS AND REPORT QUALITY REVIEW

Date Investigation Team Assigned (mm/dd/yyyy):

INVESTIGATION SUMMARY: Determine from list below what behaviors and/or conditions may have contributed to the H&S Lessons Learned Incident. Then, use the "Multiple-Why Technique" for each of these behaviors/conditions; provide a narrative for each that explains how the associated Root Cause(s) was determined. Do not include individuals' names.

ROOT CAUSES: HOW TO REDUCE POSSIBILITY OF INCIDENT RECURRING
Selection of RCs and solutions reflects the analysis of investigation team. It is not meant as a legally binding conclusion as to causal factors and/or solutions.

PERSONAL FACTORS:

A. LACK OF SKILL OR KNOWLEDGE

B. DOING THE JOB ACCORDING TO PROCEDURES OR ACCEPTABLE PRACTICES TAKES MORE TIME OR EFFORT

C. SHORT-CUTTING PROCEDURES OR ACCEPTABLE PRACTICES IS POSITIVELY REINFORCED OR TOLERATED

D. IN PAST, DID NOT FOLLOW PROCEDURES OR ACCEPTABLE PRACTICES AND NO INCIDENT OCCURRED

JOB FACTORS:

E. LACK OF OR INADEQUATE PROCEDURES

F. INADEQUATE COMMUNICATION OF EXPECTATIONS REGARDING PROCEDURES OR ACCEPTABLE STANDARDS

G. INADEQUATE TOOLS OR EQUIPMENT (available, maintained, etc.)

Behavior / Condition	Root Cause	Solution(s) (Must Match Root Cause)	Person Responsible for	Completion Target Date	Completion Actual Date

			Completion		

QUALITY REVIEW Correct root cause(s) identified? Do root cause(s) and solution(s) match? Are solution(s) feasible / maintainable?

Name: **Job Title:**

PART 4: Date Solutions were Implemented & Validated (Were Solutions Effective?)

Date	Solution	Verifier / Validator Name and Job Title	**Details** (of I & V performed)

JOB TASK - Select the most appropriate one (primary job associated with incident-related work activity, avoid "Other" if possible)

1. Carbon Change
2. Construction
3. Demolition
4. Dewatering
5. Drilling (well install)
6. Excavation / Trenching
7. Gauging
8. Geoprobe / Direct Push
9. Mobil Remediation (includes vacuum event and chemical injection)
10. NAPL Recovery
11. O&M (remediation system)
12. Pavement Cutting
13. Pump Test
14. Sampling
15. Site Visit / Survey
16. Subsurface Clearance
17. System Install
18. System Startup
19. UST Removal (includes exposure and backfill)
20. Waste Management
21. Well Abandonment
22. Other:

EQUIPMENT INVOLVED THAT CONTRIBUTED TO H&S LESSONS LEARNED - Select all that apply

1. Air Stripper
2. API Separator
3. Automobile
4. Boom Material
5. Bulldozer
6. Cable
7. Carbon Drum / Vessel
8. Chain Block
9. Compressor, Air
10. Control Panel (local)
11. Crane (mobile)
12. Drill Rig
13. Drilling Equipment, Vacuum
14. Drum, Vertical
15. Dump Truck
16. Electric Heater
17. Electrical Power Supply
18. Engine, Combustion
19. Equipment Safety Grounding
20. Excavator / Power Shovel
21. Exclusion Zone Equipment
22 Fan / Blower
23 Fencing
24 Filter
25. Fire Extinguisher
26. Forklift
27. Front End Loader
28. Grader
29. Hammer
30. Knife
31. Non-Powered Equipment
32. Powered Equipment
33. Drill
34. Grinder
35. Hydraulic Torque Wrench
36. Powered Saw
37. Impact Wrench
38. Saw
39. Screwdriver
40. Shears
41. Shovel
42. Snip
43. Wrench
44. Hoist
45, Hook/Clamp/Buckle, etc.
46. Jack
47. Ladder, Extension
48. Ladder, Platform
49. Ladder, Step
50. Lock Out / Tag Out
51. Maintenance Tool, General
52. Manifold
53, Manlift/Basket/Cherry Picker
54. Motor, Electric
55. Oxidizer
56. Pallet
57. Piping
58. Piping, Hose
59. Piping, Injection/Mixing Point
60. Hydrojet
61. Centrifugal Pump
62. Diaphragm Pump
63. Reciprocating Pump
64. Regenerative Pump
65. Rotary Pump
66. Transfer Pump
67. Submersible Pump
68. Face Shield
69. Fall Protection
70. Gloves
71. Hard Hat / Helmet
72. Hearing Protection
73. Respiratory PPE (Chemical)
74. Respiratory PPE (Particulate)
75. Safety Glasses
76. Safety Goggles
77. Safety Shoes / Boots
78. Safety Vest / Clothing
79. Rope
80. Bailer
81. Geoprobe
82. Hand Auger
83. PID
84. Multi-Gas Meter
85. Sample Container
86. Split-Spoon Sampler
87. Sling
88. Snow Blower
89. Snow Plow
90. Space Heater
91. Air Sparging System
92. Carbon Treatment System
93. Chemical Oxidation System
94. Dual Phase Product Recovery System
95. Groundwater Pump and Treat System
96. POET System
97. Shed or Trailer
98. Vapor Extraction System
99. Vapor-Phase Treatment System
100. Other System, Type:_____
101. Surge Tank
102. Underground Tank
103. Telemetry System
104. Testing Devices
105. Tractor Trailer
106. Truck, Flatbed
107. Truck, Pickup
108. Truck, Tank Truck
109. Truck, Vacuum
110. Safety Valve
111. Block Valve
112. Extraction Well
113. Monitoring Well
114. Recovery Well
115. Winch
116. Wire Rope
117. No Equipment Involved
118. MPT – Traffic Control Devices
118. Not in List (describe):_____

APPENDIX N

OSHA Log of Occupational Injuries and Illnesses

OSHA's Form 300 (Rev. 01/2004)

Log of Work-Related Injuries and Illnesses

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Establishment name _____

City _____ *State* _____

Identify the person			***Describe the case***			***Classify the case*** ***CHECK ONLY ONE box for each case based on the most serious outcome for that case:***				***Enter the number of days the injured or ill worker was:***		***Check the "Injury" column or choose one type of illness:***					
(A) **Case no.**	(B) **Employee's name**	(C) **Job title** (*e.g., Welder*)	(D) **Date of injury or onset of illness**	(E) **Where the event occurred** (*e.g., Loading dock north end*)	(F) **Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill** (*e.g., Second degree burns on right forearm from acetylene torch*)			**Remained at Work**						(M)					
						Death (G)	**Days away from work** (H)	**Job transfer or restriction** (I)	**Other record-able cases** (J)	**Away from work** (K)	**On job transfer or restriction** (L)	**Injury** (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____	_____	_____	___/___ month/day	_____	_____	☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
			Page totals ➤			___	___	___	___	___	___	___	___	___	___	___	___

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)

OSHA's Form 300A (Rev. 01/2004)

Summary of Work-Related Injuries and Illnesses

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
_____	_____	_____	_____
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
_____	_____
(K)	(L)

Injury and Illness Types

Total number of . . .

	(M)		(M)
(1) Injuries	_____	(4) Poisonings	_____
		(5) Hearing loss	_____
(2) Skin disorders	_____	(6) All other illnesses	_____
(3) Respiratory conditions	_____		

Establishment information

Your establishment name _____

Street _____

City _____ State _____ ZIP _____

Industry description (*e.g., Manufacture of motor truck trailers*)

_____

Standard Industrial Classification (SIC), if known (*e.g., 3715*)

____ ____ ____ ____

OR

North American Industrial Classification (NAICS), if known (e.g., 336212)

____ ____ ____ ____ ____ ____

Employment information *(If you don't have these figures, see the Worksheet on the back of this page to estimate.)*

Annual average number of employees _____

Total hours worked by all employees last year _____

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

_____ _____
Company executive Title

( ) - / /
_____ _____
Phone Date

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 50 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Optional

Worksheet to Help You Fill Out the Summary

At the end of the year, OSHA requires you to enter the average number of employees and the total hours worked by your employees on the summary. If you don't have these figures, you can use the information on this page to estimate the numbers you will need to enter on the Summary page at the end of the year.

How to figure the average number of employees who worked for your establishment during the year:

❶ ***Add*** the total number of employees your establishment paid in all pay periods during the year. Include all employees: full-time, part-time, temporary, seasonal, salaried, and hourly.

The number of employees paid in all pay periods = ❶ _____

❷ ***Count*** the number of pay periods your establishment had during the year. Be sure to include any pay periods when you had no employees.

The number of pay periods during the year = ❷ _____

❸ ***Divide*** the number of employees by the number of pay periods.

❶ / ❷ _____ = ❸ _____

❹ ***Round the answer*** to the next highest whole number. Write the rounded number in the blank marked *Annual average number of employees*.

The number rounded = ❹ _____

For example, Acme Construction figured its average employment this way:

For pay period...	Acme paid this number of employees...
1	10
2	0
3	15
4	30
5	40
▼	▼
24	20
25	15
26	+10
	830

Number of employees paid = 830 ❶

Number of pay periods = 26 ❷

830 / 26 = 31.92 ❸

31.92 rounds to 32 ❹

32 is the annual average number of employees

How to figure the total hours worked by all employees:

Include hours worked by salaried, hourly, part-time and seasonal workers, as well as hours worked by other workers subject to day to day supervision by your establishment (e.g., temporary help services workers).

Do not include vacation, sick leave, holidays, or any other non-work time, even if employees were paid for it. If your establishment keeps records of only the hours paid or if you have employees who are not paid by the hour, please estimate the hours that the employees actually worked.

If this number isn't available, you can use this optional worksheet to estimate it.

Optional Worksheet

_____ ***Find*** the number of full-time employees in your establishment for the year.

X _____ ***Multiply*** by the number of work hours for a full-time employee in a year.

_____ This is the number of full-time hours worked.

\+ _____ ***Add*** the number of any overtime hours as well as the hours worked by other employees (part-time, temporary, seasonal)

_____ ***Round*** the answer to the next highest whole number. Write the rounded number in the blank marked *Total hours worked by all employees last year.*

U.S. Department of Labor
Occupational Safety and Health Administration

OSHA's Form 301
Injury and Illness Incident Report

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

This *Injury and Illness Incident Report* is one of the first forms you must fill out when a recordable work-related injury or illness has occurred. Together with the *Log of Work-Related Injuries and Illnesses* and the accompanying *Summary,* these forms help the employer and OSHA develop a picture of the extent and severity of work-related incidents.

Within 7 calendar days after you receive information that a recordable work-related injury or illness has occurred, you must fill out this form or an equivalent. Some state workers' compensation, insurance, or other reports may be acceptable substitutes. To be considered an equivalent form, any substitute must contain all the information asked for on this form.

According to Public Law 91-596 and 29 CFR 1904, OSHA's recordkeeping rule, you must keep this form on file for 5 years following the year to which it pertains.

If you need additional copies of this form, you may photocopy and use as many as you need.

Completed by _____

Title _____

Phone (_____)_____--_____ **Date** ____/ ____/ ____

Information about the employee

1) **Full name** _____

2) **Street** _____

City _____ **State** _____ **ZIP** _____

3) **Date of birth** _____ / _____ / _____

4) **Date hired** _____ / _____ / _____

5) ❒ **Male**
❒ **Female**

Information about the physician or other health care professional

6) **Name of physician or other health care professional** _____

_____

7) **If treatment was given away from the worksite, where was it given?**

Facility _____

Street _____

City _____ **State** _____ **ZIP** _____

8) **Was employee treated in an emergency room?**
❒ **Yes**
❒ **No**

9) **Was employee hospitalized overnight as an in-patient?**
❒ **Yes**
❒ **No**

Information about the case

10) **Case number from the *Log*** _____ *(Transfer the case number from the Log after you record the case.)*

11) **Date of injury or illness** _____ / _____ / _____

12) **Time employee began work** _____ **AM / PM**

13) **Time of event** _____ **AM / PM** ☐ **Check if time cannot be determined**

14) ***What was the employee doing just before the incident occurred?*** **Describe the activity, as well as the tools, equipment, or material the employee was using. Be specific.** ***Examples:*** **"climbing a ladder while carrying roofing materials"; "spraying chlorine from hand sprayer"; "daily computer key-entry."**

15) ***What happened?*** **Tell us how the injury occurred.** ***Examples:*** **"When ladder slipped on wet floor, worker fell 20 feet"; "Worker was sprayed with chlorine when gasket broke during replacement"; "Worker developed soreness in wrist over time."**

16) ***What was the injury or illness?*** **Tell us the part of the body that was affected and how it was affected; be more specific than "hurt," "pain," or sore."** ***Examples:*** **"strained back"; "chemical burn, hand"; "carpal tunnel syndrome."**

17) ***What object or substance directly harmed the employee?*** ***Examples:*** **"concrete floor"; "chlorine"; "radial arm saw."** ***If this question does not apply to the incident, leave it blank.***

18) ***If the employee died, when did death occur?*** **Date of death** _____ / _____ / _____

Public reporting burden for this collection of information is estimated to average 22 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Persons are not required to respond to the collection of information unless it displays a current valid OMB control number. If you have any comments about this estimate or any other aspects of this data collection, including suggestions for reducing this burden, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.