FORMER
GETTY SERVICE STATION #00564

1103-1107 DEKALB AVENUE
BROOKLYN NEW YORK
Block 1600 Lot 28

Final Engineering Report

NYSDEC Site Number: C224176

Prepared For:

1107D LLC
45 North Station Plaza, Suite 315
Great Neck, NY 11021

AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105

DECEMBER 2019

CERTIFICATIONS

I, Ariel Czemerinski certify that I am currently a NYS registered professional engineer, I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Remedial Action Work Plan and Remedial Design were implemented and that all construction activities were completed in substantial conformance with the DER-approved Remedial Action Work Plan and Remedial Design.

I certify that this Final Engineering Report 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).

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan, the Remedial Design and in all applicable statutes and regulations have been achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by Department

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

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

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Ariel Czemerinski, of AMC Engineering, PLLC, am certifying as Owner’s Designated Site Representative and I have been authorized and designated by 1107D LLC to sign this certification for the site.

076508	12/9/2019
NYS Professional Engineer #	Date

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APPENDICES (DIGITAL FILES ON CD WHERE NOTED)

LIST OF ACRONYMS

Acronym	Definition
AMC	AMC Engineering
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
CNS	Clean Native Soil
CQMP	Construction Quality Management Plan
EBC	Environmental Business Consultants
FER	Final Engineering Report
GQS	Groundwater Quality Standard
IRM	Interim Remedial Measure
LPH	Liquid Phase Hydrocarbons
NYC	New York City
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
EP	Environmental Professional
RAO	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RE	Remedial Engineer
RI	Remedial Investigation
SCG	Standards, Criteria, and Guidelines
SCO	Soil Cleanup Objectives
SMMP	Soil/Materials Management Plan
SSO	Site Safety Officer
SWPPP	Stormwater Pollution Prevention Plan
SVOCs	Semi-Volatile Organic Compounds
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

1.0 BACKGROUND AND SITE DESCRIPTION

1.1 SITE BACKGROUND

1107D LLC (the Volunteer) entered into a Brownfield Cleanup Agreement with the New York State Department of Environmental Conservation (NYSDEC) in May 2013 to investigate and remediate a 0.218-acre property located in Brooklyn, Kings County, NY (Site No. C224176). The Site was remediated to restricted residential use and has been redeveloped with a 6-story hotel. An electronic copy of this FER with all supporting documentation is included as **Appendix A**.

1.2 SITE LOCATION

The address for the Site is 1103-1107 DeKalb Avenue, Brooklyn, New York 11221. The Site is located in the City of New York, Borough of Brooklyn (Kings County) as shown on **Figure 1**.

The Site is located on the northeast corner of DeKalb Avenue and Malcolm X Boulevard, Brooklyn, New York, and is designated as Block 1600 Lot 28 by the New York City Department of Assessment. The lot has 75 feet of frontage on DeKalb Avenue and 150 feet of frontage on Malcolm X Boulevard for a total area of 9,498 square feet (see **Figure 2**). The boundaries of the Site are fully described in **Appendix B**: Survey Map, Metes and Bounds.

The property has an elevation of approximately 58 feet above the National Geodetic Vertical Datum (NGVD) feet. The depth to groundwater beneath the Site, as determined from field measurements, is approximately 46 feet below grade. Based on groundwater contour maps, groundwater flow is westerly.

1.3 FORMER SITE USE

The property was previously occupied by auto retail and gasoline retail stations for a period of approximately 80 years from 1931 to approximately 2015.

2.0 SUMMARY OF SITE REMEDY

2.1 REMEDIAL ACTION OBJECTIVES

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

2.1.1 Groundwater

RAOs for Public Health Protection

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

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

2.1.2 Soil

RAOs for Public Health Protection

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

RAOs for Environmental Protection

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

2.1.3 Soil Vapor

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

2.2 DESCRIPTION OF SELECTED REMEDY

The Site was remediated in accordance with the remedy selected by the Remedial Action Work Plan dated August 2014 and the Decision Document dated February 2015. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The remedy achieved a Track 4 Cleanup and included the following elements:

1. Remedial Design

A remedial design program was implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program.

2. Excavation

Excavation of soil/fill exceeding the lower of Track 2 restricted residential use or the applicable protection of groundwater SCOs to a depth up to 15 feet below grade, including contaminant source areas and grossly contaminated soil as defined in 6 NYCRR part 375-1.2(u). Approximately 4,300 cubic yards of soil was be removed from the site. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) was brought in to replace the excavated soil and establish the designed grades at the site.

3. Soil Vapor Extraction (SVE)

Soil vapor extraction (SVE) was implemented to remove contamination from the subsurface soil, below the limits of the excavation called for in item 2, in the area of the former tank field and hot spot areas where the concentration of gasoline-related compounds exceed the protection of groundwater SCOs and also exceed groundwater standards. Volatile Organic Compounds (VOCs) will be physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then treated as necessary prior to being discharged to the atmosphere. The number and location of the SVE wells was determined during the design phase.

4. In-Situ Chemical Oxidation

In-situ chemical oxidation (ISCO) was implemented to treat contaminants in groundwater. A chemical oxidant, sodium persulfate, will be injected into the subsurface via injection wells, placed into the groundwater, to destroy the contaminants in an approximately 3,600-square foot area located in the southern portion of the site, where gasoline-related compounds are at elevated concentrations in the groundwater. The depth of injection will be determined during the remedial design.

5. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property.

6. Site Management Plan

A Site Management Plan is required to ensure long-term management of the engineering controls.

Following implementation of portions of the remedy, it was determined that a Track 2 cleanup could not be achieved. On May 15, 2019 NYSDEC issued an Explanation of Significant Difference (ESD) to document the changes to the selected remedy to achieve a Track 4 restricted residential remedy. The changes included:

- Installation and maintenance of a site cover system to prevent exposure to remaining contaminated soil; and,

- Installation of sub-slab depressurization system (SSDS) piping beneath the building slab to mitigate against soil vapor intrusion into the on-site building. The SSDS will be activated, if necessary, upon determination that the SVE system is no longer needed to remediate remaining VOCs in soil above the water table. Provisions for activating the SSDS are documented in the Site Management Plan.

All responsibilities associated with the Remedial Action, including permitting requirements and pretreatment requirements, were addressed in accordance with all applicable Federal, State and local rules and regulations. Details on each of the remedial elements listed above are provided in Sections 4.3 through 4.7.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this Site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the site were conducted in accordance with the NYSDEC-approved RAWP and the Remedial Design for the former Getty Service Station no. 00564 site (august 2014). All deviations from the RAWP are noted below.

4.1 GOVERNING DOCUMENTS

4.1.1 Site Specific Health & Safety Plan (HASP)

The Health and Safety Plan for the implementation of remedial actions at the Former Getty Service Station #00564 was included as Attachment B of the Remedial Action Work Plan (RAWP) approved by the NYSDEC.

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA. The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

4.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Attachment C of the Remedial Action Work Plan (RAWP) approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Construction Quality Assurance Plan (CQAP)

The Construction Quality Assurance Plan (CQAP) as included in Section 4.1.3 of the RAWP managed performance of the Remedial Action tasks through designed and documented QA/QC methodologies applied in the field and in the lab. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and specifications.

The following organizations and key personnel were involved in the implementation of the remedy:

Name	Title	Organization	Responsibilities
Yossi Kopfstein	Construction Manager	Promont Construction	Scheduling and oversight of subcontractors and for implementation of the construction program.
Kimberly Somers, P.G.	Environmental Project Manager	EBC	Coordination and oversight of day to day field activities, soil disposal, materials importation and UST removal.
Sam Teka, Tom Gallo, Honpong Lau and Kevin Waters	EP / SSO	EBC	On-Site soil screening, health and safety oversight and air monitoring. Preparation of daily and monthly status reports and updates to the RE.
Kevin Brussee	QAO	EBC	Interface with field crew and lab to resolve any data quality problems.
Ariel Czemerinski P.E.	Remedial Engineer	AMC Engineering	Overall responsibility for implementation of the remedial plan.
Charles Sosik P.G.	Project Director	EBC	Overall responsibility for the Project
Sherri Pullar	Project Scientist	KGS	Data Usability Summary Report

All intrusive and soil disturbance activities were monitored by an EP who recorded observations in the Site field book and kept a photographic log of the daily activities. The EP provided daily updates to the Environmental Project Manager and Remedial Engineer (RE) who both made periodic visits to the Site as needed to assure construction quality. Soil samples were collected by the EP who was on-Site daily during all soil disturbance activities. Sample collection, analysis and frequency were made in accordance with the requirements of the disposal facility (Clean Earth of Carteret and Prospect Park). Corrective measures, if required, were to be made in direct consultation with the representative of the selected disposal facility. Project coordination meetings were generally held on Site on a weekly basis and supplemented as conditions required. Meeting attendees over the course of the project varied according to need and may have included the following personnel:

- Construction Manager
- EP/SSO

- Environmental Project Manager
- Environmental Project Director
- Remedial Engineer

Daily status reports were prepared by the Environmental Project Manager in consultation with the EP, and distributed to the project contact list via email. Copies of waste manifests, chain of custody documentation and air monitoring reports were placed in appropriately labeled binders which were kept at the job Site. Photographic documentation was performed on a daily basis and periodically uploaded to the digital project file at the EBC office.

4.1.4 Soil/Materials Management Plan (S/MMP)

A Soil/Materials Management Plan (S/MMP) was included as Section 5.5 in the RAWP for excavation, handling, storage, transport and disposal of all soils/materials that were disturbed at the Site. The S/MMP provided detailed plans for managing all soils/materials that were disturbed at the Site, including excavation, handling, storage, transport and disposal. It also included all of the controls that were applied to these efforts to assure effective, nuisance free performance in compliance with all applicable Federal, State and local laws and regulations. The S/MMP specified the following methods to meet the performance objectives:

- Soil Screening Methods - Visual, olfactory and PID soil screening and assessment was performed by an EP during all remedial and development excavations into known or potentially contaminated material (Residual Contamination Zone).

- Stockpile Methods - Stockpiles were kept covered at all times with appropriately anchored tarps and inspected daily to ensure the covers are maintained and fugitive dust emissions do not occur. Soil was separated into separate piles based on the soil screening performed by the EP. The soil pile classifications included historic fill, petroleum impacted soil and clean native soil. In-Situ waste characterization soil samples were collected for historic fill, petroleum contaminated soil, and native soil prior to excavation and stockpiling, but supplemental waste characterization soil samples were collected from several soil stockpiles in accordance with the frequency and parameters required by

the soil disposal facility and/or NYSDEC DER-10, then covered with appropriately anchored tarps until soil load out or on-Site reuse.

- Materials Excavation and Load Out - The EP under the supervision of the RE was on-Site on a daily basis to oversee all invasive work and the excavation and load-out of all excavated material. Loaded vehicles leaving the Site were appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State and local requirements. A truck pad was located at the egress point of the Site and all outbound trucks were inspected and cleaned, as required to remove loose soil before leaving the Site. The adjacent streets were inspected and cleaned as needed with respect to Site -derived materials.

- Materials Transport Off-Site - All transport of materials was performed by licensed haulers in accordance with appropriate local, State, and Federal regulations. Truck transport routes were determined prior to construction and a map of the route was provided to the trucking company. All trucks loaded with Site materials exited the vicinity of the Site using the approved truck routes. The identified route was selected to limit transport through residential areas and past sensitive sites and comply with City-mapped truck routes.

- Materials Disposal Off-Site - All petroleum contaminated soil and historic fill was treated as a contaminated and regulated material and was disposed in accordance with all local, State and Federal regulations. Non-hazardous waste manifests were used to track and document the off-Site movement of non-hazardous wastes and contaminated soils. Waste characterization was performed for off-Site disposal in accordance with the requirements of the receiving facility and in conformance with applicable permits. Waste characterization data was provided to the receiving facility and approved in writing by the facility prior to off-Site shipment. A summary of off-Site disposal is provided in **Table 2**. A summary of waste characterization sampling is provided in **Table 3.** Summaries of waste characterization results for contaminated soil and historic fill is provided in **Tables 4** through **7**. A summary of waste characterization results for clean native soil is provided in **Tables 8** through **11**. Waste disposal manifests for petroleum

contaminated soil, historic fill and native soils are provided in **Appendix I** and **Appendix L**.

- Fluids Management - Construction wastewater generated from surface runoff was minimized and directed back toward the interior of the Site and the excavation.

- Backfill from Off-Site Sources – Prior to excavation activities, approximately 35 cubic yards of ASTM #57 ¾" virgin stone was imported to the Site from a NYSDEC Active/Registered Construction and Demolition Debris Processing Facility (NY Recycling LLC) for construction of a stabilized construction entrance during Site excavation. This material was eventually excavated and disposed off-site during excavation activities.

  In January 2017, approximately 461.82 tons of crushed virgin blue stone was imported from a NYSDEC Class B Recycling Facility (Impact Environmental) for use as structural backfill in over-excavated areas. The structural fill in hotspots areas was compacted to a thickness of 4 ft with a vibratory soil compactor. Approximately 213.12 tons of the blue stone structural fill was also imported to the Site for backfill behind the western foundation wall.

  Approximately 50.53 tons of ASTM #57 ¾" virgin stone was imported to the Site from a NYSDEC Class B Recycling Facility (Impact Environmental) for backfill purposes in over-excavated areas along the western foundation wall.

  In March 2017, approximately 30.44 tons of recycled concrete aggregate (RCA) was imported to the Site from a NYSDEC Class B Recycling Facility (Impact Environmental) to replenish the stabilized construction entrance. This material was eventually removed from the Site during excavation activities.

  In May 2017, approximately 223.99 tons of ASTM #57 ¾" virgin stone was imported to the Site from a NYSDEC Class B Recycling Facility (Impact Environmental) for the SSDS gravel layer. No other off-Site sources of backfill were utilized for on-Site use.

- After the completion of soil removal and other invasive remedial activities, a land survey was performed by a New York State licensed surveyor. See **Appendix B**.

- Contingency Plan - The contingency plan specified procedures to document and notify NYSDEC in the event that underground tanks or other previously unidentified contaminant sources were found during on-Site remedial excavation or development related construction. During excavation activities, four 550-gallon gasoline underground storage tanks were encountered in the southern portion of the Site. Petroleum contaminated soil was encountered below two of the tanks (see Section 4.3.2 below). The NYSDEC Project Manager was notified and the tanks were removed in accordance with the DER-10 and NYSDEC PBS procedures and protocols. No other previously unidentified contaminant sources were encountered during on-Site remedial excavation or development related construction.

- Odor, Dust and Nuisance Control - Dust control was accomplished by spraying water on exposed soil surfaces to ensure that perimeter action levels established in the CAMP were not exceeded. No work zone or perimeter action level exceedances were detected. Odor control was implemented by applying a chemical odorant (Pinkwater) to exposed petroleum-contaminated soils during excavation.

4.1.5 Erosion and Sediment Control Plan (ESCP)

The ESCP was included as Section4 .3.2 of the RAWP, and addressed requirements of New York State Storm-Water Management Regulations including physical methods to control and/or divert surface water flows and to limit the potential for erosion and migration of Site soils, via wind or water. The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the site-specific Storm Water Pollution Prevention Plan.

Typical measures that were utilized at various stages of the project to limit the potential for erosion and migration of soil included the use of temporary stabilized construction entrances/exits and dust control measures. Shoring consisting of wood lagging, extended around

the front and rear and north side of the property eliminated erosion and migration of soil off-Site. The construction entrance was stabilized with a ¾" virgin blue stone base and sloped back toward the interior of the lot. In this case, all stormwater was retained on Site and directed toward the interior of the Site and allowed to percolate into the ground.

4.1.6 Community Air Monitoring Plan (CAMP)

The Community Air Monitoring Plan (CAMP), which was included as Attachment D in the RAWP, provided measures for the protection of the surrounding and downwind community (i.e., off-Site receptors including residences, businesses, and on-Site workers not directly involved in the remedial work) from potential airborne contaminant releases resulting from remedial activities. The action levels specified required increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that the remedial work did not spread contamination off-Site through the air. The primary concerns for this Site were VOC vapors, nuisance odors and dust particulates.

To comply with the requirements of the CAMP, the project EP performed daily monitoring around the perimeter of the property for volatile organic compounds and dust particulates. Instruments used for CAMP monitoring included an MiniRAE 3000 photo-ionization detector and a MIE pDR-1000 data ram dust meter. No exceedances in CAMP action levels were recorded during the remedial action. Daily CAMP monitoring data sheets are included in **Appendix E**.

4.1.7 Site Operations Plan (SOP)

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

4.1.8 Citizen Participation Plan (CPP)

The approved Citizen Participation Plan for this project specified the following document repositories for all applicable project documents for the duration of the project:

Brooklyn Public Library
Macon Branch
361 Lewis Avenue
Brooklyn, NY 11233
(718) 573-5606

Brooklyn Community Board 3
1360 Fulton Street
Brooklyn, NY 11216
(718) 622-6601

Factsheets notifying the public of project milestones and of the availability of documents for review and comment were sent to the site contact list in accordance with the Citizen Participation requirements of the NYS Brownfield Cleanup Program.

Remaining citizen participation elements will include the distribution of a fact sheet to the site contact list when the Certificate of Completion (COC) is issued.

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

- Promont Construction
  - General Contractor
  - Performed all excavation work
  - Supervised, scheduled and coordinated subcontractors
  - Project Budgeting
- Environmental Business Consultants
  - Environmental Consultant
  - Qualified Environmental Professional
  - Performed Health and Safety and CAMP Monitoring
  - Performed Soil Screening and Waste Characterization Sampling
  - Documented Remedial Program
  - Reporting (Daily, Monthly)
- AMC Engineering
  - Remedial Engineer
  - Performed Periodic Inspections of Work /Methods
  - Certified Compliance with RAWP and Associated Plans

4.2.2 Site Preparation

The Remedial Investigation Workplan prepared for the Site by EBC in December 2013 was formally approved by NYSDEC in a letter dated December 30, 2013. The Remedial Action Work Plan subsequently prepared for the Site was formally approved by NYSDEC in a letter dated February 11, 2015. Documentation of NYSDEC approvals is included in **Appendix C**. Other non-agency permits relating to the remediation project are provided in **Appendix D**. The following permits were issued for this project.

Appendix E IDs	***Permit***	***Permit Number***	***Originating Agency***	***Issued***	***Expires***
1	New Building – Construction Equipment – Fence	320917479-01-EQ-FN	NYCDOB	07/21/2016	07/21/2017
2	Foundation/Earthwork	320917479-01-FO	NYCOER	03/17/2017	03/17/2018
3	New Building	320917479-01-NB	NYCDOB	03/17/2017	03/17/2018
4	Plumbing	320917479-03-PL	NYCDOB	03/08/2017	03/08/2018
5	Alteration Type 3	340427675-01-EQ-SH	NYCDOB	10/12/2016	10/12/2017

All SEQRA/CEQR requirements and all substantive compliance requirements for attainment of applicable permits were achieved during this Remedial Action.

A preconstruction meeting was held with NYSDEC on July 29, 2016. Mobilization for remedial work occurred during the week of August 2, 2016 and included the delivery and set-up of a portable lavatory and the delivery of heavy equipment and job site tools. A NYSDEC-approved project sign was erected at the project entrance and remained in place during all phases of the Remedial Action. Excavation was completed in May 2017. Site preparation began with excavating and capping the sewer lines and water lines in the sidewalks adjacent to the property and erection of a construction fence in preparation for demolition work.

4.2.3 General Site Controls

Security of the Site was maintained by a construction fence erected along the northern, western and southern perimeters of the Site, and a gate at the front entrance/egress point which was locked at the end of each work day. Job site record keeping included a daily sign-in sheet, daily air monitoring logs, waste manifests, accident reports, field notes and photographic documentation. All project forms, logs and reciepts were filed on-Site in dedicated binders kept at the Site. Field notes and observations were recorded in a project-dedicated field book which

remained on-Site. Photogaphic documentation was up-loaded on a daily basis to a laptop computer which remained in the possesion of the EP. The photo log of the remedial activities is included as **Appendix G**.

Erosion and sediment controls included a silt fence stapled to the inside of the construction fence and the truck pad at the entrance of the Site. The truck pad was inspected following useage and storm events and regraded and maintained as needed.

Bulk contamination on equipment (excavators, trucks, trailers) used on-site was removed prior to exiting the Site, and the equipment was further decontaminated (if necessary) on the truck pad. Trucks delivering materials and transporting soil from the property did not enter the Site beyond the truck pad. All trucks were inspected and dry-brushed as needed before leaving the truck pad.

Soil screening was performed by the project EP during excavation of all on-site soil to identify areas of historic fill, petroleum contamination, and native soil to allow for segregation of soil into appropriate stockpiles for waste characterization sampling and/or disposal at separate facilities. Soil stockpiles were covered with appropriately anchored tarps until waste characterization results were obtained (if in-situ sampling was not already performed), disposal facility arrangements were made and soil load out occurred. Soil stockpile covers were inspected daily and after each storm event.

4.2.4 Odor, Dust and Nuisance Control Plan

The S/MMP specified that dust would be controlled by wetting the work area and use of gravel ($^{3}/_{4}$" blue stone) roadways. Dust generation was minimal during most excavation work.

The stabilized construction entrance/egress was maintained by regrading and adding gravel as needed to maintain a clean condition. Since trucks delivering materials to the Site and trasnporting excavated materials from the Site remained on the truck pad, very little tracking of on-Site soil to the truck pads or to street in front of the Site occurred. Nevertheless, these areas were inspected following truck departure and broom swept as needed to maintain a clean condition.

Nuisance odors, primarily related to temporarily stockpiled soils and loading operations, were minimized by covering stockpiled soils when such piles remained overnight or longer and by loading technique which minimized the vertical distance that soil was dumped within the truck bed. To further reduce odors a hydrocarbon mitigation agent (BioSolve Pinkwater) was sprayed on odorous soils.

The selected truck route minimized traffic on neighborhood streets, and followed the NYCDOT-approved truck routes. The truck route map was provided to the trucking company to notify all drivers.

4.2.5 CAMP Results

Air monitoring was performed on a daily basis at the site boundaries for dust and VOCs in accordance with the Community Air Monitoring Plan. No exceedances of the CAMP action levels for either dust or VOCs were reported.

Copies of all field data sheets relating to the CAMP are provided in electronic format in **Appendix E**.

4.2.6 Reporting

In accordance with the approved RAWP, daily status reports were prepared and submitted to the NYSDEC and the project team. Daily reports included a listing of contractors, personnel and equipment on-Site, description of activities performed by contractors, CAMP monitoring results, materials imported/exported to/from the Site and planned activities for the following day.

Monthly project status reports were prepared by the EBC Project Manager and distributed to the NYSDEC and project team. Monthly reports included a summary of the activities performed during the month and those anticipated during the next month, and a summary of sampling results and delays in the schedule. All daily and monthly reports are included in electronic format in **Appendix F**. The digital photo log required by the RAWP is included in electronic format in **Appendix G**.

4.3 MATERIALS REMOVAL

Materials removed from the Site during the remediation project included concrete and brick from walls, footings and structures associated with the former Site building, two fiberglass underground storage tanks and four steel underground storage tanks, petroleum contaminated soil from the source area, historic fill from across the entire Site to depth of up to 10 feet, and native soil from the building's cellar footprint.

The remedy included excavation of all soil to Restricted Residential Use SCOs to a depth of 15 feet with ongoing in-situ remediation of deeper soil acting as a contaminant source to the groundwater. The implemented remedy included the following:

- Excavation of a VOC source area to depths ranging from 11 to 15ft below grade;
- Collection and analysis of endpoint soil samples from the base and sidewalls of petroleum source area excavation and three petroleum hotspots;
- Excavation of soil/fill exceeding Restricted Residential (RR) SCOs across the remainder of the Site to depths as great as 11 feet below grade;
- Collection and analysis of end-point samples across the entire Site to evaluate the performance of the remedy with respect to attainment of RRSCOs;
- Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work;
- Appropriate off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
- Installation of a soil vapor extraction system to remediate petroleum impacted soil within the source area from 14 feet below grade to the water table;
- Installation of ten injection wells and treatment of residual groundwater contamination via injection of chemical oxidants and oxygen release compounds;
- Installation of three monitoring wells and the collection and analysis of post-injection groundwater samples to assess bulk reduction in groundwater contamination and overall efficacy of the remediation;
- Import of materials for use as backfill and cover in compliance with: (1) chemical limits and other specifications included in **Table 1**, (2) all Federal, State and local rules and regulations for handling and transport of material.

A list of the soil cleanup objectives (SCOs) for this project is provided in **Table 1**. An as-built figure showing the location of original sources, including UST locations, and areas where excavations were performed is provided as **Figure 3**.

Excavation and off-Site disposal of the petroleum source down to a depth of approximately 15 feet began on August 19, 2016 and was completed by May 25, 2017. Two 4,000 gallon USTs and four 550-gallon USTs were cut and cleaned on-site and removed off-site on August 19, 2016 and September 20, 2016, respectively. Excavation and off-Site disposal of historic fill present across the Site from grade to approximately 10 feet below grade and native soils was completed on June 6, 2017.

4.3.1 Test Pits and Waste Characterization Sampling

Historic Fill and Clean Native Soil

Test pits were excavated at the Site on August 12, 2014, to collect waste characterization samples. The waste characterization samples were required by soil disposal facilities to obtain soil disposal approval. In order to collect waste characterization soil samples from the Site, EBC collected four 5-point composite soil samples from six test pits performed across the Site. One grab representing the highest PID detection was selected from each interval for VOC analysis.

From each of the six of the test pits, EBC collected one grab soil sample and formed one 5-point composite waste characterization soil samples representing the following interval:

- Historic Fill from 0 to 2 feet across the entire Site;

From five of the six test pits located within the planned cellar level excavation area, EBC collected one grab soil sample and formed one 5-point composite waste characterization soil samples representing the following intervals:

- Historic Fill from 2 to 5 feet;
- Historic Fill from 5 to 8 feet;
- Historic Fill from 8 to 11 feet.

From three of the test pits located within the identified source areas, EBC collected one grab soil sample and formed one 5-point composite waste characterization soil samples representing the following interval:

- Clean Native Soil (CNS) from 11 to 15 feet at source areas.

Soil samples collected for waste characterization were placed in pre-cleaned laboratory supplied glassware and Encore samplers, and placed in a cooler packed with ice for transport to York Analytical Laboratories Inc. (120 Research Drive, Stratford, CT 00615), a New York State ELAP certified environmental laboratory (ELAP Certification No. 10854). Each of the grab samples were submitted for laboratory analysis of VOCs via EPA Method 8260 at the rate of one sample per 800 yd^3. Each of the composite soil samples were submitted for laboratory analysis of the following:

Analysis	**Method**	**Frequency**
Semi-Volatile Organic Compounds (SVOCs)	EPA Method 8270	1 every 800 yd^3
Target Analyte Metals	EPA Method 3050B / 6010	1 every 800 yd^3
TCLP Metals	EPA Method 3010A/1311	1 every 800 yd^3
PCBs/Pesticides/Herbicides	EPA Method 3550C/8151A	1 every 800 yd^3
Extractable Petroleum Hydrocarbons	EPA Method 3545	1 every 800 yd^3
Total Petroleum Hydrocarbons	EPA Method 3550C	1 every 800 yd^3
RCRA Characteristics	EPA 3010A/1311	1 every 800 yd^3
Paint Filter		1 every 800 yd^3

The analytical reports for the waste characterization soil samples are provided in **Appendix H**. A summary of the waste characterization sampling is provided in **Table 3**. **A s**ummary of waste characterization results for historic fill and native soil is provided in **Tables 4** through **11**.

Based on the laboratory results of the waste characterization soil samples, Clean Earth of Carteret accepted soil from the petroleum contaminated source area and all historic fill from across the Site from the intervals 0 to 15 feet below grade. Clean Earth of Carteret (CEC) is located in Carteret, NJ. CEC is a Class B Recycling Center operating under permit No.

CBG150002 issued by the New Jersey Department of Environmental Protection (NJDEP). A copy of the formal soil disposal request letter prepared by EBC, and a copy of the formal soil disposal acceptance letter prepared by Clean Earth Inc. are attached in **Appendix H**.

4.3.2 Excavation and Disposal of Petroleum Contaminated Source Areas

In accordance with the approved RAWP, a stabilized construction entrance was constructed where trucks/equipment entered the Site from DeKalb Avenue. The stabilized construction entrance was constructed of $^{3}/_{4}$" virgin stone and was maintained, as needed, to the edge of the excavation / load-out area to minimize dust generation and the off-Site tracking of Site soil. Two laborers inspected and brushed off the wheels and undercarriage of each truck before it exited the Site and periodically swept the street and the Site ingress/egress. Soil excavated from the petroleum contaminated source area was loaded directly into 10-wheel dump trucks provided by Clean Earth and transported as non-hazardous petroleum impacted soil to Clean Earth of Carteret.

Excavation and off-site disposal of the petroleum source area down to a depth of approximately 14-15 feet began on August 19, 2016 and was completed on June 6, 2017. Three petroleum source areas, associated with former underground storage tanks (USTs), were encountered including the main UST area in the north part of the Site, a waste oil tank area located in the central area of the Site and a third UST area located in the southwest corner of the Site. All three areas were excavated to a depth of approximately 14 to 15 feet below grade. The main UST area was expanded towards the north and south based on laboratory results of sidewall endpoint samples. The approximate area of the main UST source area excavation was 2,120 ft^2. The excavation of the central waste oil UST area covered approximately 100 ft^2. During the general excavation of the site for the cellar level of the new building, four 550-gallon underground gasoline tanks were encountered in the southwestern corner of the Site (**Figure 2**). The excavation of this area was also expanded based on the laboratory results of the sidewall samples. The final measurement of the southwest UST area was approximately 350 ft^2.

Disposal Details – Petroleum Source Area

A total of 1,575 tons of non-hazardous petroleum impacted soil was excavated from the

petroleum source area and loaded into NYSDEC Part 364 Waste Transporter Permitted 10-wheel dump trucks dispatched by Clean Earth to Clean Earth of Carteret. Non-hazardous disposal manifests and associated scale tickets for each truck load are provided as a digital file in **Appendix I.** A summary of the waste streams and their destination is provided in **Table 2**.

4.3.3 Excavation and Disposal of Historic Fill

Soil characterized by EBC personnel as historic fill was found throughout the Site from grade to a depth as great as 10 feet. EBC personnel characterized historic fill as soil that contained materials such as brick, concrete, glass or ceramics, etc. All historic fill was removed from the Site in accordance with the procedures outlined under the approved Remedial Action Work Plan dated August 2014. Excavation and off-Site disposal of historic fill started on August 22, 2016 and was completed on June 5, 2017. Soil excavation was performed with one track-mounted excavator and loaded directly into 10-wheel dump trucks provided by Clean Earth. In accordance with the approved RAWP, a stabilized construction entrance consisting of $^{3}/_{4}$" virgin stone was constructed where trucks/equipment entered the Site from DeKalb Avenue. Truck wheels and undercarriages were inspected and brushed clean before exiting the Site. The Site ingress/egress was periodically swept to remove any such soils coming from the Site.

Disposal Details – Historic Fill

All historic fill/soil excavated for construction of the building was loaded into NYSDEC Part 364 Waste Transporter Permitted 10-wheel dump trucks dispatched by Clean Earth as non-hazardous waste at Clean Earth of Carteret. A total of 6,633.91 tons of non-hazardous fill material was transported to Clean Earth of Carteret for disposal. Non-hazardous disposal manifests and associated scale tickets are provided as a digital file in **Appendix I.** A summary of the waste streams and their destination is provided in **Table 2**.

4.3.4 Excavation and Disposal of Clean Native Soil

Soil characterized by EBC personnel as clean native soil during excavation for the new building was present at approximately 10 ft below grade, below the historic fill layer and outside the petroleum-impacted areas. Clean soil that required excavation for construction of the new building was removed from the Site in accordance with the procedures outlined under the

approved RAWP. Due to the limited quantity of clean native soils to be excavated at the Site, the clean native soil layer was disposed to Clean Earth of Carteret in conjunction with the historic fill material. Excavation of clean soil for construction of the new building began immediately after the historic fill material was removed, and was completed by June 6, 2017. Soil excavation was performed with one mounted excavator and loaded directly into 10-wheel dump trucks provided by Clean Earth. In accordance with the approved RAWP, a stabilized construction entrance was constructed where trucks/equipment entered the Site from DeKalb Avenue.

Disposal Details – Clean Native Soil

All clean native soil excavated for construction of the building was loaded into NYSDEC Part 364 Waste Transporter Permitted 10-wheel dump trucks dispatched by Clean Earth of Carteret. An estimated 310 tons of clean native soil was transported to Clean Earth of Carteret for disposal. Non-hazardous manifests and associated scale tickets for each truck load are provided as a digital file in **Appendix I.** A summary of the waste streams and their destination is provided in **Table 2**.

4.3.5 Underground Storage Tank Removal

Prior to Site excavation, two 4,000-gallon fiberglass USTs were removed from the former tank pad area (**Figure 2**). On August 18, 2016, approximately 1,515 gallons of an oily water mix within the tanks was removed by ABC Tank Repair & Lining, Inc. A copy of the disposal receipt is included in **Appendix J**. Both tanks were then cut and cleaned, and disposed at a metal recycling facility (DBA Standard Scrap Iron and Metal).

During excavation of the historic fill layer, four 550-gallon gasoline underground storage tanks previously abandoned were encountered in the southwestern corner of the Site. The location of the tanks is shown on **Figure 2**. Standing water contained within the tanks was removed by ABC Tank Repair & Lining, Inc. A copy of the disposal receipt is included in **Appendix J**. All four tanks were then cut and cleaned, and disposed at a metal recycling facility (Plakos Scrap Processing, Inc.).

A NYSDEC PBS Application was submitted to the NYSDEC to deregister the two 4,000-gallon underground storage tanks. A printout copy of the NYSDEC PBS online database, which lists the two 4,000-gallon underground storage tanks as Tank Numbers 15 and 16 as closed/removed is attached in **Appendix J**. A NYSDEC PBS Application was also submitted to the NYSDEC to register/deregister the four 550-gallon underground storage tanks. A printout copy of the NYSDEC PBS online database, which lists the underground storage tanks as Tank Numbers 19, 20, 21 and 22 as closed/removed is attached in **Appendix J**. In accordance with New York City regulations, ABC Tank Repair & Lining, Inc. filed a tank removal affidavit for each of the tanks with the New York City Fire Department (FDNY). A copy of each of the FDNY tank removal affidavit is attached in **Appendix J**.

UST Disposal Details

ABC Tank Repair & Lining, Inc. utilized a pump truck to remove the standing liquid contained within all six of the underground storage tanks. A total of approximately 1,515 gallons of oil/water was removed from the two 4,000-gallon USTs and 4,900 gallons of oil/water was removed from the four 550-gallon tanks and transported by ABC Tank Repair & Lining, Inc. (NYSDEC Part 364 Waste Transporter Permit No. 2A-124) for off-Site disposal. A copy of the receipt from ABC Tank Repair & Lining, Inc. is attached in **Appendix J**. Each tank was then loaded onto a truck for disposal at a local metal recycling facility. A copy of the scale ticket is also included in **Appendix J**.

4.3.6 Construction and Demolition Debris Removal

Construction and demolition debris (C&D) consisting of concrete slabs and concrete foundation walls from the Site's former building were encountered during Site excavation. Large pieces of concrete were segregated from historic fill, broken into pieces small enough to load in a truck, and stockpiled to await off-Site disposal. No concrete removed from the ground at the Site exhibited visual or olfactory evidence of contamination (odor, staining, discoloration, excessive paint) and was considered clean concrete.

Twelve truck loads of C&D was transported to Westbury Recycling, Inc. located at 117 Magnolia Avenue, Westbury, NY. Westbury Recycling, Inc. is a Construction and Demolition

Debris Processing Facility registered with NYSDEC (Registration Number 30W34) to accept uncontaminated concrete, rock and soil.

A copy of a print out from the NYSDEC website of permitted construction and demolition debris processing facilities listing the above facilities as Active/Registered is included in **Appendix L**.

4.3.7 Reuse of Soils on Site

No on-site soils were reused on Site.

4.3.8 Disposal Summary

The table provided below shows the total quantities of each category of material removed from the Site and the disposal location.

Off-Site Disposal Summary

Disposal Facility	Construction & Demolition Debris (yd^3)	Petroleum Contaminated Soil (tons)	Historic Fill Soil (tons)	Clean Native Soil (tons)	Waste Oil Oil/Water Mix (gallons)
Westbury Recycling, Inc.	140	-			
Clean Earth of Carteret	-	1,575	6,633.91	310	
New York Oil Recovery, Inc.					1,515
Tradebe Treatment & Recycling LLC					4,900

4.4 REMEDIAL PERFORMANCE SAMPLING

4.4.1 UST Removal Sampling

After the four 550-gallon underground storage tanks were removed, an environmental professional (EP) field screened soil below the tanks for the presence of VOCs using a photo-ionization detector (PID). Odors, staining and elevated PID readings were observed beneath Tank No. 1 and laboratory results of the endpoint sample reported low concentrations of petroleum-related VOCs. No olfactory evidence of a spill was observed below any of the other three tanks. One soil sample was collected from below each tank upon removal. The location of

tanks, and the approximate collection location of each of the four UST bottom soil samples are shown on **Figures 2** and **4.**

All four UST bottom soil samples were submitted to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301) for laboratory for analysis of TCL VOCs according to EPA Method 8260 (CP51 list) and SVOCs according to EPA method 8270 (CP51 list). A copy of each of the laboratory reports is attached in **Appendix J.** The results are summarized and compared to NYSDEC Part 375.6 Unrestricted Use SCOs and Restricted Residential Use SCOs in **Tables 12** and **13**.

No VOCs or SVOCs were detected above Protection of Groundwater Standards or Unrestricted Use SCOs within any of the four UST bottom soil samples.

In accordance with the RAWP, soil from beneath the two 4,000 gallon USTs was excavated to a depth of 15 feet below grade, as part of the petroleum source area excavation. Endpoint soil samples were collected from beneath the former tank locations at a depth of 15 ft below grade (see Section 4.4.2 below).

4.4.2 Source Area Endpoint Sampling

An environmental professional (EP) field screened soil along the sidewalls and across the entire bottom of the source area excavation and also three hotspots for the presence of VOCs using a photo-ionization detector (PID). Elevated PID readings ranging from 10 to 145 ppm were recorded along the sidewalls and 15 ppm from the bottom of the excavation. In accordance with the RAWP, EBC collected post excavation endpoint samples from the petroleum source area and three hotspots. The endpoint verification soil samples included three sidewall soil samples collected from approximately 12 to 15 feet below grade (EP4, EP6 and EP26) and two bottom endpoint soil samples (EP5 and EP25) from the source area; and sidewall samples (EP8, EP9, EP10, EP14 – EP17 and EP19 – EP23) and one bottom sample (EP7, EP13 and EP18) from each of the three hotspots. The approximate collection locations of the sidewall and bottom endpoint soil samples collected from the petroleum source area and hotspots are shown on **Figure 4**.

Each of the post excavation soil samples collected from the petroleum source area and hotspots were submitted to Phoenix laboratory for analysis of TCL VOCs, SVOCs according to EPA methods 8260 and 8270 and lead via EPA method SW6010C with Category B Deliverables.

Several VOCs were detected above applicable Protection of Groundwater SCOs (PGWSCOs) in sidewall samples from the source area excavation and the southernmost petroleum hotspot. The source area excavation was extended approximately 10 feet to the north and south and new sidewall endpoint samples (EP10, EP12 and EP26) were collected. One VOC (ethylbenzene) was detected above the PGWSCO in EP12 collected in the sidewall of the northwestern sidewall of the source area excavation; therefore, the excavation was expanded an additional four feet to the north and a new sidewall endpoint sample (EP12N) was collected. No SVOCs or lead above RRSCOs were detected in the final sidewall samples of the expanded source area excavation. The southernmost hotspot excavation was expanded approximately four feet to the north, east and south and new sidewall endpoint samples were collected (EP21S, EP22E and EP23N). VOCs exceeding PGWSCOs were reported in hotspot sidewall samples EP22E and EP23N. No SVOCs or lead concentrations were reported above RRSCOs for any of the three hotspot sidewall samples of the expanded hotspot. Bottom endpoint samples from the source area (EP5 and EP25) were reported with several gasoline-related VOCs above the PGWSCOs. In addition, the concentration of total xylenes was detected in one of the bottom endpoint samples (EP18) above PGW and RRSCOs. No VOC, SVOC or lead exceedances were reported for any of the other bottom hotspot endpoint samples (EP7 and EP13).

Laboratory reports are attached in **Appendix L.** The results are summarized and compared to Protection of Groundwater SCOs (for VOCs) and Restricted Residential Use SCOs (for all other contaminants) in **Tables 14** through **16**. Data Usability Summary Reports were prepared for all data generated in this remedial performance evaluation program. These DUSRs are included in **Appendix O**.

4.4.3 Building Construction Endpoint Sampling

In accordance with the frequency outlined within the RAWP, EBC collected endpoint verification soil samples from across the entire Site at the final excavation depth required for

building construction to verify that remedial goals had been achieved. The endpoint soil samples collected from the bottom of the excavation were collected at a frequency of one per 900 ft^2 as shown on **Figure 4**.

A total of 12 endpoint soil samples (EP1-EP3, EP11, EP20, EP24 and EP27-EP32) were collected at the Site. Each of the endpoint soil samples were submitted to Phoenix laboratory for analysis of TCL VOCs, SVOCs according to EPA methods 8260 and 8270 and lead via EPA method SW6010C with Category B Deliverables.

Gasoline-related VOCs were reported above PGWSCOs for one endpoint sample (EP27). One endpoint (EP1) collected from the sloped setback from the northeastern property line was reported with one SVOC exceeding the RRSCO.

One VOC was reported above the PGWSCO for endpoint sample EP28, which required an additional 2 ft deep excavation. The follow-up endpoint sample, EP28(2) was reported with one VOC exceeding PGWSCO but below the RRSCO. No SVOCs or lead were detected above RRSCOs within the follow-up sample.

Laboratory reports are attached in **Appendix L.** The results are summarized and compared to NYSDEC Part 375.6 Protection of Groundwater SCOs (for VOCs) and Restricted Residential Use SCOs (for all other contaminants) in **Tables 17** through **19**. Data Usability Summary Reports were prepared for all data generated in this remedial performance evaluation program. These DUSRs are included in **Appendix O**.

4.5 IMPORTED BACKFILL

Approximately 35 cubic yards (yd^3) of ASTM #57 ¾" virgin stone was imported form a NYSDEC Active/Registered Construction and Demolition Debris Processing Facility (NY Recycling LLC, NYSDEC Registration No. 03W87) for construction of a stabilized construction entrance during Site excavation. The ¾" virgin stone used for construction of the stabilized construction entrance was excavated along with on-site fill material and transported to the

designated soil disposal facility. This material was eventually excavated and disposed off-site during excavation activities.

Approximately 461.82 tons of crushed virgin blue stone was imported from a NJDEP Class B Recycling Facility (Impact Environmental) to the Site for use as structural backfill for the source area excavation and three hotspots. An additional 213.12 tons of this material was imported for backfill in over-excavated areas in the western portion of the site. This material was manufactured at the Impact Reuse and Recovery Center, a New Jersey Department of Environmental Protection (NJDEP) Class B Recycling Facility (Permit No. CBG170002) located at 1000 Page Avenue in Lyndhurst, New Jersey and consists of crushed virgin stone. The material was placed in over-excavated areas and compacted with a vibrator compactor. The final thickness of the backfill was 4 ft.

Approximately 50.53 tons of ASTM #57 ¾" virgin stone was imported to the Site from Impact Environmental for backfill purposes in over-excavated areas along the western foundation wall. An additional 223.99 tons of the ¾" virgin blue stone from Impact Environmental was also imported to the Site for the SSDS gravel layer beneath the building's cellar slab.

Approximately 30.44 tons of clean recycled concrete aggregate (RCA) was imported to the Site from Impact Environmental to replenish the stabilized construction entrance.

A copy of a print out from the NJDEP website of Class B permitted facilities is included in **Appendix M**. Copies of each of the truck tickets and each of the facility receipts are attached in **Appendix M**.

A table of all sources of imported backfill with quantities for each source is provided in the table below.

Source	Material Type	Quantity	Area Used
NY Recycling LLC NYSDEC Registration No. 03W87	ASTM #57 ¾" virgin stone	35 yd^3	To install stabilized construction entrance. Later removed with soil to approved disposal facility.

Impact Environmental NJDEP Permit No. CBG170002	Crushed virgin blue stone	674.94 tons	Source area and hotspot over-excavated areas (11-15 ft below grade)
Impact Environmental NJDEP Permit No. CBG170002	ASTM #57 ¾" virgin stone	274.52 tons	Within foundation of buildings below slab
Impact Environmental NJDEP Permit No. CBG170002	Recycled Concrete Aggregate	30.44 tons	Replenishing the stabilized construction entrance. Later removed with soil to approved disposal facility.

4.6 CONTAMINATION REMAINING AT THE SITE

4.6.1 Soil

The entire Site was excavated to a depth of approximately 11 feet below grade, with additional excavations performed to 15 feet below grade within the source area and three petroleum hotspots. Endpoint soil samples collected following excavation indicate soil across the Site to a depth of 15 feet below grade meets Restricted Residential Use SCOs or the applicable Protection of Groundwater SCOs with the exception of two areas within the source area and southernmost hotspot where VOC concentrations exceeded PGWSCOs at 15 ft bg. Deeper VOC contamination from 15 ft to the water table is known to be present from the results of the RI and represents a source of contamination. One SVOC (indeno 1,2,3-cd pyrene) was slightly over the RRSCO in one endpoint sample (EP1) collected at the sloped excavation in the northern portion of the site.

Soil sampling conducted during the Remedial Investigation identified gasoline related VOCs above Protection of Groundwater SCOs within soil immediately above the groundwater table in the source area (RI sample B1308). Impacted soil in the vicinity of the main UST area was found to be at a depth of 13 feet below the surface and ending at a depth of approximately 20 ft below grade. Impacted soil was again encountered at the water table at a depth of approximately 45 ft. Impacted soil is likely present throughout the entire soil column directly beneath the former tank pad. This zone of impacted soil acted as a source of contamination to the groundwater which migrated in the direction of groundwater flow. The two areas of remaining impacted soil are approximately 1,600 ft^2 and 250 $ft^2$and extend from 15 ft below grade to the water table (45 ft below grade), as illustrated in Figure 4. This is estimated based upon sampling results as well as

boring logs/field observations during previous investigations (absence of odor, staining and/or PID readings). Remaining parameters detected above Protection of Groundwater SCOs and Restricted Residential Use SCOs following the excavation and soil removal are provided in **Table 20**.

Figure 4 summarizes the results of all soil samples collected that exceed the Protection of Groundwater SCOs and Restricted Residential Use SCOs at the Site after completion of remedial action. Petroleum contaminated soil may be encountered if excavation is done to a depth greater than 4 feet below the existing cellar slab in the source area as shown on **Figure 4**.

Petroleum contaminated soil in the source area from 15 feet below grade down to the water table is being remediated utilizing a soil vapor extraction system.

4.6.2 Groundwater

Beginning in March 2018, groundwater samples for VOC analysis has been collected on a quarterly basis from three monitoring wells (MW1401-MW1403) located in the sidewalk along Malcolm X Boulevard. To date there have been six rounds of sampling performed following the oxidant injections (**Figures 5**a and **5b**). The results of the quarterly sampling are summarized in the Quarterly Status Reports (EBC 2018 Q1-Q4, 2019 Q1-Q2). The most recent sampling results (Q2-2019) are presented in **Table 21**, and groundwater quality results above standards are posted in **Figure 6**. A figure showing groundwater elevation contours and the estimated flow direction is provided as **Figure 7**.

Laboratory reports of the quarterly groundwater sampling are provided in **Appendix R**. Further discussion of the post injection groundwater sampling is provided in Section 4.72 below.

4.7 ENGINEERING CONTROLS

Since remaining contaminated soil, groundwater, and soil vapor exists beneath the Site, Engineering Controls (EC) are required to protect human health and the environment. The Site has the following primary Engineering Controls, as described in the following subsections.

1. Soil Vapor Extraction System – Installation of a soil vapor extraction (SVE) system to remediate the petroleum contaminated soil within the unsaturated zone.
2. In-Situ Chemical Oxidant Treatment System – Installation of ten injection wells to treat on-Site groundwater contamination.
3. Subslab Depressurization System – Installation of perforated piping beneath the building slab in three separate loops to meet the required soil vapor intrusion evaluation for the new building.
4. Site Cover System – Installation of a concrete building slab across the Site.

4.7.1 Soil Vapor Extraction System

The RI identified petroleum impacted soil within the source area from 13 feet to 20 feet below grade and again at a depth of approximately 45 ft. Since excavation of the source area was performed to a depth of 15 feet below grade, a soil vapor extraction (SVE) system has been installed to remediate the petroleum contaminated soil within the unsaturated zone.

The SVE system consists of two, 2-inch diameter soil vapor extraction wells; VE1 installed within the former tank field area source area at depth immediately above the groundwater interface (approximately 46 feet below grade); and VE2 (identified as MW1401) installed within the sidewalk of Malcolm X Boulevard in the vicinity of the southern petroleum hotspot. Extraction well VE-1 consists of a 20 foot 0.010" slot screened section set immediately above the groundwater table, and riser pipe that extends to the new building's cellar floor. Extraction well VE2 (MW1401) consists of a 25 foot long 0.010" slot screened section set to approximately 55ft below sidewalk grade. A No. 00 morie gravel pack was placed to a depth of approximately 5 feet above each well screen followed by a hydrated bentonite seal.

The soil vapor extraction wells are connected via a 2-inch diameter schedule 40 PVC pipe to a 1.5-hp EN454 Rotron regenerative blower with a particulate filter and vapor trap located in the cellar of the new building. Soil vapor removed from the extraction wells by the blower passes through two vapor-phase granular activated carbon prior to discharge at the roof. The SVE system was started on December 11, 2017 and operates at all times. When balanced between both extraction wells the system was producing 102 CFM (as per blower curve) at 22" H2O of

vacuum at the blower and 5 to 5.8" H2O of vacuum at the wellheads.

Procedures for operating and maintaining the Soil Vapor Extraction system are documented in the Operation and Maintenance Plan (Section 5.0 of the SMP). As built drawings, signed and sealed by a professional engineer, are included in **Appendix S**. **Figure 8** shows the layout of the Soil Vapor Extraction system installed at the Site.

SVE System Sampling and Results

On December 11, 2017 air samples were collected from the SVE system. Air samples collected included one air sample of the effluent before the carbon drums and one air sample after treatment by both carbon drums. Each of the air samples, were collected in tedlar bags and transported to the laboratory by laboratory dispatched courier for analysis of VOCs by EPA Method TO-15. The results indicated a total VOC concentration of 165,732 ug/m^3 in the effluent air prior to carbon treatment and 265 ug/m^3 after treatment. At this concentration the system upon start-up was recovering VOCs at approximately 1.52 lbs / day.

Following the initial startup of the system on December 11, 2017, quarterly sampling of the SVE system influent and effluent was performed on 3/28/18, 6/26/18, 9/18/18, 12/6/18, 3/21/19 and 6/24/19). Each of the air samples was collected in tedlar bags and transported to the laboratory by laboratory dispatched courier for analysis of VOCs by EPA Method TO-15.

Analytical results are summarized in **Table 22**. The results show a steady decline in both BTEX concentrations and total VOC concentrations over time. BTEX concentrations have decreased from 17,197 ug/m^3 during the initial startup of the system in December 2017, to 152 ug/m^3 in June 2019. A 99.1 % reduction. Total VOCs over the same period decreased from 165,731 ug/m^3 to 4, 384 ug/m^3. A 97.3% reduction. Copies of the laboratory reports from the quarterly SVE sampling are included in **Appendix T**.

4.7.2 In-Situ Chemical Oxidant (ISCO) Treatment

Remediation of dissolved phase VOCs in groundwater was performed through a chemical oxidant injection program. The area of injection was within and upgradient of the primary source

area (UST tank field) and a secondary hotspot area located to the south (**Figure 5a**). Injections at these locations deliver oxidant and oxygen release compounds to the subsurface allowing it to flow west with groundwater treating both residual contaminants in soil and the groundwater.

The ISCO treatment program utilizes ten new injections wells (IW1-IW10) for oxidant application. Injection wells IW1 through IW5 were installed in the former tank field; injection wells IW6 through IW8 were installed in the former dispenser island; and IW9 and IW10 were installed in the area of the former gasoline UST located in the southern portion of the Site (see **Figure 5a**). Each of the injection wells are constructed of 1-inch PVC with a 10 ft 0.010-inch slot screened section installed 8 ft below the water table, and 2 ft above the water table. A No. 1 Morie gravel pack was placed around the screen to a depth of approximately 1 ft above the screen followed by a 1 ft hydrated bentonite pellet seal. The injection wells were finished at the surface with a j-plug. Injection wells IW1 through IW10 were installed by C Squared Environmental Corp. in August and September of 2016.

All ten of the injection wells were lost during site excavation and replaced by Coastal Environmental Solutions in March 2017 at the locations shown on **Figure 5b.** Locations of the injection wells were revised based on a reassessment of groundwater flow and the laboratory results of the initial post-injection groundwater sampling. The injection wells were registered with the USEPA as required. The USEPA Inventory of Injection Well Form is provided in **Appendix P.** Injection well construction logs are included in **Appendix Q**. Procedures for operating and maintaining components required for performing chemical oxidant injections are documented in the Operation and Maintenance Plan (Section 5.0 of the SMP).

Effectiveness of the chemical oxidant injection program was assessed by collecting groundwater samples from three new monitoring wells (MW1401 through MW1403). Each of the monitoring wells are constructed of 2-inch pvc with a 10 ft 0.010-inch slot screened section installed 10 ft below the water table, and 5 ft above the water table. A No. 1 Morie gravel pack was placed around the screen to a depth of approximately 1 ft above the screen followed by a 1 ft hydrated bentonite pellet seal. The monitoring wells were finished at the surface with a 5-inch bolt down manhole cover. The monitoring wells were installed by C Squared Environmental Corp. in

August 2016, and are located within the sidewalk of Malcolm X Boulevard, immediately down gradient of the petroleum source area. Two of the monitoring wells (MW1401 and MW1403) were destroyed during site excavation and were replaced in November 2017 by PAL Environmental Services. Monitoring well construction logs are included in **Appendix Q**.

Procedures for monitoring, operating and maintaining the ISCO treatment and groundwater monitoring system are provided in 4.0 of the SMP.

Injection Event #1 (Pre-Excavation) – September 2016

The first phase chemical oxidant injection event was performed in September 2016. The oxidant injection consisted of 100 gallons of a 10 to 30 percent solution of sodium persulfate and chelated iron activator injected into each of the eight injection wells. The chelated iron activator was added at a ratio of 9 lbs of FeEDTA powder to each 55 lb bag of sodium persulfate. The overall oxidant demand, in pounds of activated persulfate was calculated in the Remedial Action Work Plan (AMC, August 2014).

The injection wells were lost during site excavation and replaced in the locations shown on **Figure 5b**. Locations of the injection wells were revised based on a reassessment of groundwater flow and the laboratory results of the initial post-injection groundwater sampling. The new injections wells were installed in March and April 2017 by Coastal Environmental Solutions.

Injection Event #2 (Post Excavation) – May 2017

The second phase of injections utilizing the newly installed injections wells was performed in May 2017. The oxidant injection consisted of 100 gallons of a 10 to 30 percent solution of sodium persulfate and chelated iron activator injected into each of the injection wells. The chelated iron activator was added at a ratio of 9 lbs of FeEDTA powder to each 55 lb bag of sodium persulfate.

Post Injection Groundwater Sampling

In accordance with the Remedial Action Work Plan, three monitoring wells (MW1401 – MW1403) were installed at the Site immediately downgradient of the source area in the sidewalk

of Malcolm X Boulevard. Monitoring wells MW1401 – MW1403 were installed on August 8th and 10th of 2016 by C-Squared Environmental utilizing a Geoprobe. All three monitoring wells were constructed of 2 inch PVC casing with a 10 foot 0.010 screened section set approximately 9 feet below the water table. The wells were completed with a No. 00 morie gravel pack paced to a depth of approximately 5 feet above the screen followed by a hydrated bentonite seal. Groundwater was encountered at a depth of approximately 46 feet below grade. Therefore, all three monitoring wells were installed at a depth of 56 feet, consisting of 10 feet of screen and 46 feet of riser. The three monitoring wells installed within the sidewalk in front of the new building were protected with locking compression-style cap and an 8-inch bolt down manhole cover.

Two of the monitoring wells (MW1401 and MW1403) were destroyed during site excavation and were replaced in November 2017 by PAL Environmental Services. Monitoring well construction logs are included in **Appendix Q** of this document. Note that during replacement MW1401 was moved to a position south of MW1403 at DECs request. The original location of each of the monitoring wells is shown on **Figures 5a**. The replacement locations are shown on **Figure 5b**.

Following installation, each of the monitoring wells was surveyed to determine relative casing elevation to the nearest 0.01 ft and horizontal position to the nearest 0.1 ft. A synoptic round of depth-to-groundwater (DTW) measurements was obtained from the monitoring wells on August 17, 2016, to determine the water table elevation and to calculate the volume of standing water in the well. Groundwater was encountered in each of the monitoring wells at an approximate depth of 45 feet below sidewalk grade. A groundwater contour map showing groundwater flow from east to west is shown in **Figure 7**.

Baseline groundwater sampling from the three monitoring wells was conducted on August 17, 2016. Three volumes of standing water was purged from each monitoring wells using a stainless steel check valve and dedicated polyethylene tubing. Upon completion of purging, a groundwater sample was obtained using a disposable, dedicated polyethylene bailer and string. The groundwater samples, trip blank and duplicate groundwater sample were collected in pre-cleaned laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for

laboratory analysis of VOCs by EPA Method 8260.

Post-chemical injection groundwater sampling was initially performed on November 9, 2016, following the initial injection in September 2016, and on December 2017 following the ISCO injection in May 2017. Quarterly sampling was then performed beginning March 2018 through June 2019.

Post Injection Groundwater Results

Groundwater sample results are summarized in **Table 21**, and groundwater quality standard exceedances from the most recent sampling round are posted on **Figure 6**. Laboratory reports for the quarterly groundwater sampling are provided in **Appendix R**.

Laboratory analytical results of the groundwater samples post-chemical injections showed petroleum-related VOCs at concentrations above the GQS in two of the three monitoring wells (MW1402 and MW1403) during the initial round in November 2016. No VOCs concentrations above GQS were detected in MW1401 during this round. Total BTEX and VOC concentrations were highest in MW1402 at 490 µg/L and 5,529 µg/L, respectively. This represents a slight reduction when compared to the baseline results for this well (590 µg/L and 5,618 µg/L). A more substantial reduction was observed during the second sampling round with BTEX and total VOC concentrations of 420 µg/L and 4,646 µg/L. This represents a 29% reduction in BTEX and a 17% reduction in total VOCs.

The most recent results for MW1402 show a 100% reduction in BTEX and a 99.7% reduction in total VOCs. The recent results for MW1403 show a 98.7 % reduction in BTEX and a 95.5% reduction in total VOCs. MW1401 which was relocated to a different position, currently has the highest concentrations with 554 ug/L for BTEX and 1,368 ug/L for total VOCs.

4.7.3 Subslab Depressurization System Piping

The Decision Document required that all future buildings constructed on the Site be evaluated for the potential for soil vapor intrusion (SVI). The developer has elected to install subslab depressurization (SSD) system piping beneath the cellar slab of the new building which is currently under construction, in the event that an SSDS system is required.

The horizontal subslab piping consists of fabric wrapped, perforated schedule 40 4-inch PVC pipe connected to a 6-inch steel riser pipe. Three SSD system loops were installed within porous granular material. The loops will provide the correct coverage in accordance with USEPA sub-slab depressurization design specifications which recommend a separate vent loop for every 4,000 ft2 of slab area. The loops are each outfitted with a collection point and riser which is capped at the cellar level. The layout of the SSDS piping is shown in **Figure 9**.

Prior to the occupancy of the building being constructed on the Site, an SVI evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the structure. Prior to conducting an SVI investigation, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval under the auspices of the SMP. This work plan will be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York".

Preliminary (unvalidated) SVI sampling data will be forwarded to the NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. If any indoor air test results exceed NYSDOH guidelines, relevant NYSDOH fact sheets will be provided to all tenants and occupants of the property within 15 days of receipt of validated data.

If the SVI evaluation indicates that mitigation is required, a fan will be installed on the SSDS piping to complete an active SSD system. If the system is activated, communication testing and indoor air sampling will be performed in accordance with NYSDOH protocols to demonstrate the effectiveness of the system.

SVI sampling results, evaluations, and follow-up actions will also be summarized in the subsequent Periodic Review Report.

4.7.4 Site Cover System

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. This cover system is comprised of a minimum of an 8" to 14" inch thick concrete building slab. **Figure 10** shows the as-built location of each cover type and cross sections for each remedial cover type used on the site. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Attachment B of the SMP. Procedures for monitoring, operating and maintaining the cover system are provided in the Section 4.0 of the SMP.

4.8 INSTITUTIONAL CONTROLS

The Site remedy requires that an Environmental Easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to Restricted Residential use only.

The Environmental Easement for the Site was executed by the Department on August 7, 2017 and recorded / filed with the Office of the City Register on September 5, 2017. The County Recording Identifier number for this filing is 2017000329643. A copy of the easement and proof of filing is provided in **Appendix B**.

Adherence to these Institutional Controls on the Site is required by the Environmental Easement and will be implemented under this Site Management Plan.

4.9 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

Several deviations from the originally approved Remedial Action Work Plan (RAWP) are as follows:

- Depth of excavation
    - Changes from two feet to 11 feet in the northern portion of the Site previously identified as an outdoor recreational area;
    - Expansion of petroleum source area excavation to the north and south; and of hotspot B1310 to the north, east and south (as per delineation);

  - The addition of 1:1 sloped excavation from the northern, western and southern perimeters to 11ft;

- Frequency of groundwater sampling
  - One round of baseline pre-chemical injection groundwater monitoring was conducted from monitoring wells MW1401 through MW1403 in addition to the post-chemical injection monitoring. Laboratory results of the baseline groundwater sampling are included in **Table 21**.
- Changes to the ISCO Remedial Design
  - Per NYSDEC recommendation, the three monitoring wells (MW1401 through MW1403) were moved from the proposed locations in the western portion of the Site to the adjacent sidewalk along Malcolm X Boulevard.
  - Two chemical oxidant injection events were to be conducted per the RAWP upon completion of redevelopment activities. The first chemical injection event was changed to prior of Site excavation per NYSDEC.
  - Injection wells IW1 through IW10 were relocated (**Figures 5a** and **5b**) after they were destroyed during site excavation activities. These injection wells were relocated to the center of the site at the location of the petroleum source, based on the review of the post-injection groundwater laboratory results of monitoring wells MW1401 through MW1403.
- Installation of a Sub-Slab Depressurization System Piping
  - Per NYSDEC's recommendation, Sub-Slab Depressurization System (SSDS) piping was installed beneath the cellar slab in the event SVI testing indicated that mitigation would be needed to address residual soil vapors. The SSDS consists of three independent loops installed within a six-inch porous granular material (3/4" virgin blue stone) beneath the basement foundation. The loops provide the correct coverage in accordance with USEPA sub-slab depressurization design specifications, which recommend a separate vent loop for every 4,000 ft2 of slab area. Each loop is outfitted with a collection point. The layout plan for the SSDS system piping is provided as **Figure 9**.

TABLES

TABLE 1
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
METALS							
Arsenic	7440-38 -2	16[f]	16[f]	16[f]	16[f]	13[f]	16[f]
Barium	7440-39 -3	350[f]	400	400	10,000 [d]	433	820
Beryllium	7440-41 -7	14	72	590	2,700	10	47
Cadmium	7440-43 -9	2.5[f]	4.3	9.3	60	4	7.5
Chromium, hexavalent [h]	18540-29-9	22	110	400	800	1[e]	19
Chromium, trivalent[h]	16065-83-1	36	180	1,500	6,800	41	NS
Copper	7440-50 -8	270	270	270	10,000 [d]	50	1,720
Total Cyanide [h]		27	27	27	10,000 [d]	NS	40
Lead	7439-92 -1	400	400	1,000	3,900	63[f]	450
Manganese	7439-96 -5	2,000[f]	2,000[f]	10,000 [d]	10,000 [d]	1600[f]	2,000[f]
Total Mercury		0.81[j]	0.81[j]	2.8[j]	5.7[j]	0.18[f]	0.73
Nickel	7440-02 -0	140	310	310	10,000 [d]	30	130
Selenium	7782-49 -2	36	180	1,500	6,800	3.9[f]	4[f]
Silver	7440-22 -4	36	180	1,500	6,800	2	8.3
Zinc	7440-66 -6	2200	10,000 [d]	10,000 [d]	10,000 [d]	109[f]	2,480
PESTICIDES / PCBs							
2,4,5-TP Acid (Silvex)	93-72-1	58	100[a]	500[b]	1,000[c]	NS	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 [e]	17
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 [e]	136
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 [e]	14
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04[g]	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09
Chlordane (alpha)	5103-71 -9	0.91	4.2	24	47	1.3	2.9
delta-BHC	319-86-8	100[a]	100[a]	500[b]	1,000[c]	0.04[g]	0.25
Dibenzofuran	132-64-9	14	59	350	1,000[c]	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan II	33213-65-9	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan sulfate	1031-07 -8	4.8[i]	24[i]	200[i]	920[i]	NS	1,000[c]
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36 -3	1	1	1	25	1	3.2
SEMI-VOLATILES							
Acenaphthene	83-32-9	100[a]	100[a]	500[b]	1,000[c]	20	98
Acenapthylene	208-96-8	100[a]	100[a]	500[b]	1,000[c]	NS	107
Anthracene	120-12-7	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benz(a)anthracene	56-55-3	1[f]	1[f]	5.6	11	NS	1[f]
Benzo(a)pyrene	50-32-8	1[f]	1[f]	1[f]	1.1	2.6	22
Benzo(b) fluoranthene	205-99-2	1[f]	1[f]	5.6	11	NS	1.7
Benzo(g,h,i) perylene	191-24-2	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benzo(k) fluoranthene	207-08-9	1	3.9	56	110	NS	1.7
Chrysene	218-01-9	1[f]	3.9	56	110	NS	1[f]
Dibenz(a,h) anthracene	53-70-3	0.33[e]	0.33[e]	0.56	1.1	NS	1,000[c]
Fluoranthene	206-44-0	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Fluorene	86-73-7	100[a]	100[a]	500[b]	1,000[c]	30	386
Indeno(1,2,3-cd) pyrene	193-39-5	0.5[f]	0.5[f]	5.6	11	NS	8.2
m-Cresol	108-39-4	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
Naphthalene	91-20-3	100[a]	100[a]	500[b]	1,000[c]	NS	12
o-Cresol	95-48-7	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
p-Cresol	106-44-5	34	100[a]	500[b]	1,000[c]	NS	0.33[e]
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8[e]	0.8[e]
Phenanthrene	85-01-8	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Phenol	108-95-2	100[a]	100[a]	500[b]	1,000[c]	30	0.33[e]
Pyrene	129-00-0	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]

TABLE 1
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
VOLATILES							
1,1,1-Trichloroethane	71-55-6	100[a]	100[a]	500[b]	1,000[c]	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100[a]	100[a]	500[b]	1,000[c]	NS	0.33
1,2-Dichlorobenzene	95-50-1	100[a]	100[a]	500[b]	1,000[c]	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02[f]
cis-1,2-Dichloroethene	156-59-2	59	100[a]	500[b]	1,000[c]	NS	0.25
trans-1,2-Dichloroethene	156-60-5	100[a]	100[a]	500[b]	1,000[c]	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1[e]	0.1[e]
Acetone	67-64-1	100[a]	100[b]	500[b]	1,000[c]	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
Butylbenzene	104-51-8	100[a]	100[a]	500[b]	1,000[c]	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100[a]	100[a]	500[b]	1,000[c]	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33[e]	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100[a]	100[a]	500[b]	1,000[c]	100[a]	0.12
Methyl tert-butyl ether	1634-04 -4	62	100[a]	500[b]	1,000[c]	NS	0.93
Methylene chloride	75-09-2	51	100[a]	500[b]	1,000[c]	12	0.05
n-Propylbenzene	103-65-1	100[a]	100[a]	500[b]	1,000[c]	NS	3.9
sec-Butylbenzene	135-98-8	100[a]	100[a]	500[b]	1,000[c]	NS	11
tert-Butylbenzene	98-06-6	100[a]	100[a]	500[b]	1,000[c]	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100[a]	100[a]	500[b]	1,000[c]	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5-Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20 -7	100[a]	100[a]	500[b]	1,000[c]	0.26	1.6

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

b The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

c The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

d The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

e For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

TABLE 2
Off-Site Disposal Summary

Disposal Facility	Construction & Demolition Debris (yd^3)	Petroleum Contaminated Soil (tons)	Historic Fill Soil (tons)	Clean Native Soil (tons)
Westbury Recycling, Inc.	140	-		
Clean Earth of Carteret	-	1,575	6,633.91	310

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Table 3. Waste Characterization Sampling Summary

Soil Sample ID	Date/Time Collected	York Laboratories Sample ID	Type of Sample	Characterization For Excavated Section(s)	Volatile Organic Compounds (VOCs) + 1,4-Dioxane (TCL +10) EPA 8260B	Semi-Volatile Organic Compounds (SVOCs) + Pyridine (TCL +20) EPA 8270C	Pesticides/Herbicides EPA 3550B/8081/1311	PCBs EPA 8082A	Total Analyte List Metals + Cr(VI), Mo, and Cyanide EPA 3050B/6010B	TCLP Metals EPA 1311/7473	RCRA Characteristics	Extracted Petroleum Hydrocarbons (EPH) EPA 8015B	Total Petroleum Hydrocarbons GRO/DRO C44	Paint Filter
5pt COMP (0-2)	8/11/2014	14H0535-01	Composite	FILL		X	X	X	X	X	X	X	X	X
0-2 GRAB	8/11/2014	14H0535-02	Grab	FILL	X									
5pt COMP (2-5)	8/11/2014	14H0535-03	Composite	FILL		X	X	X	X	X	X	X	X	X
2-5 GRAB	8/11/2014	14H0535-04	Grab	FILL	X									
5pt COMP (5-8)	8/11/2014	14H0535-05	Composite	CNS		X	X	X	X	X	X	X	X	X
5-8 GRAB	8/11/2014	14H0535-06	Grab	CNS	X									
5pt COMP (8-11)	8/11/2014	14H0535-07	Composite	CNS		X	X	X	X	X	X	X	X	X
8-11 GRAB	8/11/2014	14H0535-08	Grab	CNS										
5pt COMP (11-15)	8/11/2014	14H0535-09	Composite	CNS		X	X	X	X	X	X	X	X	X
11-15 GRAB	8/11/2014	14H0535-10	Grab	CNS	X									

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TABLE 4. WASTE CHARACTERIZATION ANALYTICAL RESULTS
HISTORIC FILL - VOCs

Volatiles by SW8260C	Units	NY-GWP	NY-RRSCO	14H0535-02 8/11/2014		14H0535-04 8/11/2014		14H0535-06 8/11/2014		14H0535-08 8/11/2014	
				0-2 Grab		2-5 Grab		5-8 Grab		8-11 Grab	
				Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,1,1-Trichloroethane	mg/Kg	0.68	100	0.0034	U	0.0035	U	0.0031	U	0.32	U
1,1,2,2-Tetrachloroethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,1,2-Trichloroethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,1-Dichloroethane	mg/Kg	0.27	2.6	0.0034	U	0.0035	U	0.0031	U	0.32	U
1,1-Dichloroethylene	mg/Kg	0.33	100	0.0034	U	0.0035	U	0.0031	U	0.32	U
1,2,4-Trichlorobenzene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,2,4-Trimethylbenzene	mg/Kg			0.0034	U	0.0048	J	0.039		**48**	D
1,2-Dibromo-3-chloropropane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,2-Dibromoethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,2-Dichlorobenzene	mg/Kg	1.1	100	0.0034	U	0.0035	U	0.0031	U	0.32	U
1,2-Dichloroethane	mg/Kg	0.02	3.1	0.0034	U	0.0035	U	0.0031	U	0.32	U
1,2-Dichloropropane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
1,3,5-Trimethylbenzene	mg/Kg			0.0034	U	0.0035	U	0.013		**4.30**	D
1,3-Dichlorobenzene	mg/Kg	2.4	4.9	0.0034	U	0.0035	U	0.0031	U	0.32	U
1,4-Dichlorobenzene	mg/Kg	1.8	1.3	0.0034	U	0.0035	U	0.0031	U	0.32	U
1,4-Dioxane	mg/Kg	0.1	1.3	0.069	U	0.070	U	0.061	U	6.40	U
2-Butanone	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
2-Hexanone	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
4-Methyl-2-pentanone	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Acetone	mg/Kg	0.05	100	0.0034	U	0.034		0.015		0.32	U
Acrolein	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Acrylonitrile	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Benzene	mg/Kg	0.06	4.8	0.0034	U	0.0035	U	0.0031	U	0.32	U
Bromodichloromethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Bromoform	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Bromomethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Carbon disulfide	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Carbon tetrachloride	mg/Kg	0.76	2.4	0.0034	U	0.0035	U	0.0031	U	0.32	U
Chlorobenzene	mg/Kg	1.1	100	0.0034	U	0.0035	U	0.0031	U	0.32	U
Chloroethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Chloroform	mg/Kg	0.37	4.9	0.0034	U	0.0035	U	0.0031	U	0.32	U
Chloromethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
cis-1,2-Dichloroethylene	mg/Kg	0.25	100	0.0034	U	0.0035	U	0.0031	U	0.32	U
cis-1,3-Dichloropropylene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Dibromochloromethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Dibromomethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Dichlorodifluoromethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Ethyl Benzene	mg/Kg	1	4.1	0.0034	U	0.0035	U	0.027		3.80	D
Hexachlorobutadiene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Isopropylbenzene	mg/Kg			0.0034	U	0.0035	U	0.0072		**2.20**	D
Methyl acetate	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Methyl tert-butyl ether (MTBE)	mg/Kg	0.93	100	0.0034	U	0.0035	U	0.0031	U	0.32	U
Methylene chloride	mg/Kg	0.05	100	0.023	B	0.021		0.019		0.32	U
n-Butylbenzene	mg/Kg			0.0034	U	0.0035	U	0.0057	J	**8.50**	D
n-Propylbenzene	mg/Kg			0.0034	U	0.0035	U	0.012		**10**	D
o-Xylene	mg/Kg			0.0034	U	0.0035	U	0.016		0.32	U
p- & m- Xylenes	mg/Kg			0.0069	U	0.0070	U	0.028		**1.10**	JD
p-Isopropyltoluene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	**1.80**	D
sec-Butylbenzene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	3.10	D
Styrene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
tert-Butyl alcohol (TBA)	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
tert-Butylbenzene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Tetrachloroethylene	mg/Kg	1.3	1.9	0.0034	U	0.0035	U	0.0031	U	0.32	U
Toluene	mg/Kg	0.7	100	0.0034	U	0.0035	U	0.015		0.32	U
trans-1,2-Dichloroethylene	mg/Kg	0.19	100	0.0034	U	0.0035	U	0.0031	U	0.32	U
trans-1,3-Dichloropropylene	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Trichloroethylene	mg/Kg	0.47	2.1	0.0034	U	0.0035	U	0.0031	U	0.32	U
Trichlorofluoromethane	mg/Kg			0.0034	U	0.0035	U	0.0031	U	0.32	U
Vinyl Chloride	mg/Kg	0.02	0.9	0.0034	U	0.0035	U	0.0031	U	0.32	U
Xylenes, Total	mg/Kg	1.6	100	0.010	U	0.011	U	0.044		1.30	JD

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NT=this indicates the analyte was not a target for this sample

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TABLE 5. WASTE CHARACTERIZATION ANALYTICAL RESULTS
HISTORIC FILL - SVOCs

Semivolatiles By SW8270D	Units	NY-GWP	NY-RRSCO	14H0535-01		14H0535-03		14H0535-05		14H0535-07	
				8/11/2014		8/11/2014		8/11/2014		8/11/2014	
				5pt.Comp 0-2		5pt.Comp 2-5		5pt.Comp 5-8		5pt.Comp 8-11	
				Result	Q	Result	Q	Result	Q	Result	Q
1,1'-Biphenyl	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
1,2,4-Trichlorobenzene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
1,2-Dichlorobenzene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
1,2-Diphenylhydrazine (as Azobenzene)	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
1,3-Dichlorobenzene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
1,4-Dichlorobenzene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2,4,5-Trichlorophenol	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2,4,6-Trichlorophenol	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2,4-Dichlorophenol	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
2,4-Dimethylphenol	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2,4-Dinitrophenol	mg/Kg			0.90	U	0.89	U	0.38	U	0.94	U
2,4-Dinitrotoluene	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
2,6-Dinitrotoluene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2-Chloronaphthalene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2-Chlorophenol	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2-Methylnaphthalene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2-Methylphenol	mg/Kg	0.33	100	0.45	U	0.45	U	0.19	U	0.47	U
2-Nitroaniline	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
2-Nitrophenol	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
3- & 4-Methylphenols	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
3,3'-Dichlorobenzidine	mg/Kg			0.90	U	0.89	U	0.38	U	0.94	U
3-Nitroaniline	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
4,6-Dinitro-2-methylphenol	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
4-Bromophenyl phenyl ether	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
4-Chloroaniline	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
4-Chlorophenyl phenyl ether	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
4-Nitroaniline	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
4-Nitrophenol	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
Acenaphthene	mg/Kg	98	100	0.23	U	0.23	U	0.095	U	0.24	U
Acenaphthylene	mg/Kg	107	100	0.23	U	0.23	U	0.095	U	0.24	U
Acetophenone	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Anthracene	mg/Kg	1,000	100	0.23	U	**0.56**	JD	**0.16**	JD	**0.54**	JD
Atrazine	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Benzaldehyde	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Benzidine	mg/Kg			0.90	U	0.89	U	0.38	U	0.94	U
Benzo(a)anthracene	mg/Kg	1	1	**0.33**	JD	**1.32**	D	0.631	D	**1.20**	D
Benzo(a)pyrene	mg/Kg	22	1	0.23	U	**0.69**	JD	0.501	D	**0.43**	JD
Benzo(b)fluoranthene	mg/Kg	2	1	0.23	U	**0.61**	JD	0.37	JD	**0.53**	JD
Benzo(g,h,i)perylene	mg/Kg	1,000	100	0.45	U	0.45	U	0.21	JD	0.47	U
Benzo(k)fluoranthene	mg/Kg	1.7	3.9	**0.23**	JD	**0.67**	JD	**0.49**	D	**0.76**	JD
Benzoic acid	mg/Kg			0.61	U	0.61	U	0.26	U	0.64	U
Benzyl butyl phthalate	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Bis(2-chloroethoxy)methane	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Bis(2-chloroethyl)ether	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Bis(2-chloroisopropyl)ether	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Bis(2-ethylhexyl)phthalate	mg/Kg			0.23	U	0.23	U	**0.15**	JD	0.24	U
Caprolactam	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Carbazole	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Chrysene	mg/Kg	1	3.9	**0.38**	JD	**1.52**	D	**0.71**	D	**1.26**	D
Dibenzo(a,h)anthracene	mg/Kg	1,000	0.33	0.23	U	0.23	U	**0.11**	JD	0.24	U
Dibenzofuran	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Diethyl phthalate	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Dimethyl phthalate	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Di-n-butyl phthalate	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Di-n-octyl phthalate	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Fluoranthene	mg/Kg	1,000	100	**0.65**	JD	**2.47**	D	**1.24**	D	**2.83**	D
Fluorene	mg/Kg	386	100	0.23	U	0.23	U	0.095	U	0.24	U
Hexachlorobenzene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Hexachlorobutadiene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Hexachlorocyclopentadiene	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
Hexachloroethane	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Indeno(1,2,3-cd)pyrene	mg/Kg	8.2	0.5	0.23	U	**0.25**	JD	**0.21**	JD	**0.25**	JD
Isophorone	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Naphthalene	mg/Kg	12	100	0.23	U	0.23	U	0.095	U	0.24	U
Nitrobenzene	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
N-Nitrosodimethylamine	mg/Kg			0.45	U	0.45	U	0.19	U	0.47	U
N-nitroso-di-n-propylamine	mg/Kg			0.23	U	0.23	U	0.09	U	0.24	U
N-Nitrosodiphenylamine	mg/Kg			0.23	U	0.23	U	0.095	U	0.24	U
Pentachlorophenol	mg/Kg	0.8	6.7	0.45	U	0.45	U	0.19	U	0.47	U
Phenanthrene	mg/Kg	1,000	100	**0.39**	JD	**2.35**	D	**0.74**	D	**1.97**	D
Phenol	mg/Kg	3.3	100	0.23	U	0.23	U	0.095	U	0.24	U
Pyrene	mg/Kg	1,000	100	**0.62**	JD	**2.73**	D	**1.17**	D	**2.53**	D

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TABLE 6. WASTE CHARACTERIZATION ANALYTICAL RESULTS
HISTORIC FILL - Pesticides, Herbicides, PCBs

PCBs By SW8082A	Units	NY-GWP	NY-RRSCO	14H0535-01		14H0535-03		14H0535-05		14H0535-07	
				8/11/2014		8/11/2014		8/11/2014		8/11/2014	
				5pt.Comp 0-2		5pt.Comp 2-5		5pt.Comp 5-8		5pt.Comp 8-11	
				Result	Q	Result	Q	Result	Q	Result	Q
Aroclor 1016	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Aroclor 1221	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Aroclor 1232	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Aroclor 1242	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Aroclor 1248	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Aroclor 1254	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Aroclor 1260	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Total PCBs	mg/Kg			0.018	U	0.018	U	0.019	U	0.019	U
Pesticides - Soil by SW8081B											
4,4' -DDD	mg/Kg	14	13	0.0018	U	0.0018	U	0.0019	U	0.0019	U
4,4' -DDE	mg/Kg	17	8.9	0.0018	U	0.0018	U	0.0019	U	0.0019	U
4,4' -DDT	mg/Kg	136	7.9	0.0018	U	0.0018	U	0.0019	U	0.0019	U
a-BHC	mg/Kg	0.02	0.48	0.0018	U	0.0018	U	0.0019	U	0.0019	U
a-Chlordane	mg/Kg	2.9	4.2	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Aldrin	mg/Kg	0.19	0.097	0.0018	U	0.0018	U	0.0019	U	0.0019	U
b-BHC	mg/Kg	0.09	0.36	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Chlordane	mg/Kg			0.0071	U	0.0071	U	0.0074	U	0.0074	U
d-BHC	mg/Kg	0.25	100	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Dieldrin	mg/Kg	0.1	0.2	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Endosulfan I	mg/Kg	102	2.4	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Endosulfan II	mg/Kg	102	2.4	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Endosulfan sulfate	mg/Kg	100	2.4	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Endrin	mg/Kg	0.06	1.1	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Endrin aldehyde	mg/Kg			0.0018	U	0.0018	U	0.0019	U	0.0019	U
Endrin ketone	mg/Kg			0.0018	U	0.0018	U	0.0019	U	0.0019	U
g-BHC	mg/Kg	0.1	1.3	0.0018	U	0.0018	U	0.0019	U	0.0019	U
g-Chlordane	mg/Kg			0.0018	U	0.0018	U	0.0019	U	0.0019	U
Heptachlor	mg/Kg	0.38	2.1	0.0018	U	0.0018	U	0.0019	U	0.0019	U
Heptachlor epoxide	mg/Kg			0.0018	U	0.0018	U	0.0019	U	0.0019	U
Methoxychlor	mg/Kg			0.0089	U	0.0088	U	0.0093	U	0.0093	U
Toxaphene	mg/Kg			0.090	U	0.089	U	0.094	U	0.094	U
Herbicides by SW8151A											
2,4,5-T	mg/Kg			0.022	U	0.021	U	0.023	U	0.022	U
2,4,5-TP (Silvex)	mg/Kg	3.8	100	0.022	U	0.021	U	0.023	U	0.022	U
2,4-D	mg/Kg			0.022	U	0.021	U	0.023	U	0.022	U

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TABLE 7. WASTE CHARACTERIZATION ANALYTICAL RESULTS
HISTORIC FILL - Metals, Misc

Miscellaneous/Inorganics	Units	NY-GWP	NY-RRSCO	14H0535-01		14H0535-03		14H0535-05		14H0535-07	
				8/11/2014		8/11/2014		8/11/2014		8/11/2014	
				5pt.Comp 0-2		5pt.Comp 2-5		5pt.Comp 5-8		5pt.Comp 8-11	
				Result	Q	Result	Q	Result	Q	Result	Q
Percent Solid	%			92.8		93.4		88.7		89.1	
Corrosivity	pH Units			8.85		8.7		8.64		8.56	
Ignitability	Non-Ignit			Non-Ignit		Non-Ignit		Non-Ignit		Non-Ignit	
Reactivity Cyanide	mg/Kg			0.25		0.25		0.25		0.25	
Reactivity Sulfide	mg/Kg			15		15		15		15	
EPH	mg/Kg			181		108		180		520	
TPH	mg/Kg			778		191		229		680	
Paint Filter				No Free Liquid		No Free Liquid		No Free Liquid		No Free Liquid	
Metals, total											
Aluminum	mg/Kg			6,560		6,720		9,880		9,740	
Antimony	mg/Kg			0.54	U	0.54	U	0.56	U	0.56	U
Arsenic	mg/Kg	16	16	3.54		3.13		4.26		3.61	
Barium	mg/Kg	820	400	56.50		46.90		79.40		73.60	
Beryllium	mg/Kg	47	72	0.11	U	0.11	U	0.11	U	0.11	U
Cadmium	mg/Kg	7.5	4.3	0.32	U	0.32	U	0.34	U	0.34	U
Calcium	mg/Kg			14,700		13,300		7,570		4,760	
Chromium	mg/Kg			11.50		13		18.20		16.90	
Cobalt	mg/Kg			5.72		6.06		6.68		6.12	
Copper	mg/kg	1,720	270	28.50		25.30		25.10		10.90	
Iron	mg/Kg			13,800		14,500		23,900		16,900	
Lead	mg/Kg	450	400	96		69.10		139		24.60	
Magnesium	mg/Kg			6,580		6,850		3,420		2,380	
Manganese	mg/Kg	2,000	2,000	242		300		365		374	
Nickel	mg/Kg	130	310	13.30		12.70		16.40		15.60	
Potassium	mg/Kg			644		726		863		680	
Selenium	mg/Kg	4	180	1.08	U	1.71		1.80		1.25	
Silver	mg/Kg	8.3	180	0.54	U	0.54	U	0.56	U	0.56	U
Sodium	mg/Kg			207		231		141		162	
Thallium	mg/Kg			1.08	U	1.07	U	1.13	U	1.12	U
Vanadium	mg/Kg			25.80		23.10		39.40		25	
Zinc	mg/Kg	2,480	10,000	88.90		47.80		123.00		58.70	
Mercury	mg/Kg	0.73	0.81	0.22		0.34		0.34		0.038	
Metals, TCLP RCRA			**40 CFR 261.24**								
Arsenic	mg/L		5	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Barium	mg/L		100	0.52		0.52		0.57		0.38	
Cadmium	mg/L		1	0.0030		0.0030	U	0.0030	U	0.0030	U
Chromium	mg/L		5	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Lead	mg/L		5	0.072		0.20		0.180		0.044	
Selenium	mg/L		0.2	0.010	U	0.010	U	0.010	U	0.010	U
Silver	mg/L		1	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Mercury	mg/L		5	0.0002	U	0.0002	U	0.0002	U	0.0002	U

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TABLE 8. WASTE CHARACTERIZATION ANALYTICAL RESULTS
NATIVE SOILS - VOCs

Volatiles by SW8260C	Units	NY-GWP	NY-RRSCO	14H0535-10	
				8/11/2014	
				Grab (11-15')	
				Result	RL
1,1,1,2-Tetrachloroethane	mg/Kg			0.46	U
1,1,1-Trichloroethane	mg/Kg	0.68	100	0.46	U
1,1,2,2-Tetrachloroethane	mg/Kg			0.46	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	mg/Kg			0.46	U
1,1,2-Trichloroethane	mg/Kg			0.46	U
1,1-Dichloroethane	mg/Kg	0.27	2.6	0.46	U
1,1-Dichloroethylene	mg/Kg	0.33	100	0.46	U
1,2,4-Trichlorobenzene	mg/Kg			0.46	U
1,2,4-Trimethylbenzene	mg/Kg			**4.60**	D
1,2-Dibromo-3-chloropropane	mg/Kg			0.46	U
1,2-Dibromoethane	mg/Kg			0.46	U
1,2-Dichlorobenzene	mg/Kg	1.1	100	0.46	U
1,2-Dichloroethane	mg/Kg	0.02	3.1	0.46	U
1,2-Dichloropropane	mg/Kg			0.46	U
1,3,5-Trimethylbenzene	mg/Kg			0.46	U
1,3-Dichlorobenzene	mg/Kg	2.4	4.9	0.46	U
1,4-Dichlorobenzene	mg/Kg	1.8	1.3	0.46	U
1,4-Dioxane	mg/Kg	0.1	1.3	9.10	U
2-Butanone	mg/Kg			0.46	U
2-Hexanone	mg/Kg			0.46	U
4-Methyl-2-pentanone	mg/Kg			0.46	U
Acetone	mg/Kg	0.05	100	0.46	U
Acrolein	mg/Kg			0.46	U
Acrylonitrile	mg/Kg			0.46	U
Benzene	mg/Kg	0.06	4.8	0.46	U
Bromodichloromethane	mg/Kg			0.46	U
Bromoform	mg/Kg			0.46	U
Bromomethane	mg/Kg			0.46	U
Carbon disulfide	mg/Kg			0.46	U
Carbon tetrachloride	mg/Kg	0.76	2.4	0.46	U
Chlorobenzene	mg/Kg	1.1	100	0.46	U
Chloroethane	mg/Kg			0.46	U
Chloroform	mg/Kg	0.37	4.9	0.46	U
Chloromethane	mg/Kg			0.46	U
cis-1,2-Dichloroethylene	mg/Kg	0.25	100	0.46	U
cis-1,3-Dichloropropylene	mg/Kg			0.46	U
Dibromochloromethane	mg/Kg			0.46	U
Dibromomethane	mg/Kg			0.46	U
Dichlorodifluoromethane	mg/Kg			0.46	U
Ethyl Benzene	mg/Kg	1	4.1	**1.60**	D
Hexachlorobutadiene	mg/Kg			0.46	U
Isopropylbenzene	mg/Kg			0.98	D
Methyl acetate	mg/Kg			0.46	U
Methyl tert-butyl ether (MTBE)	mg/Kg	0.93	100	0.46	U
Methylene chloride	mg/Kg	0.05	100	0.46	U
n-Butylbenzene	mg/Kg			**3.10**	D
n-Propylbenzene	mg/Kg			**4.10**	D
o-Xylene	mg/Kg			0.46	U
p- & m- Xylenes	mg/Kg			0.91	U
p-Isopropyltoluene	mg/Kg			0.46	U
sec-Butylbenzene	mg/Kg			**1.10**	D
Styrene	mg/Kg			0.46	U
tert-Butyl alcohol (TBA)	mg/Kg			0.46	U
tert-Butylbenzene	mg/Kg			0.46	U
Tetrachloroethylene	mg/Kg	1.3	1.9	0.46	U
Toluene	mg/Kg	0.7	100	0.46	U
trans-1,2-Dichloroethylene	mg/Kg	0.19	100	0.46	U
trans-1,3-Dichloropropylene	mg/Kg			0.46	U
Trichloroethylene	mg/Kg	0.47	2.1	0.46	U
Trichlorofluoromethane	mg/Kg			0.46	U
Vinyl Chloride	mg/Kg	0.02	0.9	0.46	U
Xylenes, Total	mg/Kg	1.6	100	1.40	U

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B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

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TABLE 9. WASTE CHARACTERIZATION ANALYTICAL RESULTS
CLEAN NATIVE SOILS - SVOCs

Semivolatiles By SW8270D	Units	NY-GWP	NY-RRSCO	14H0535-09	
				8/11/2014	
				5pt Comp (11-15')	
				Result	RL
1,1'-Biphenyl	mg/Kg			0.046	U
1,2,4-Trichlorobenzene	mg/Kg			0.046	U
1,2-Dichlorobenzene	mg/Kg			0.046	U
1,2-Diphenylhydrazine (as Azobenzene)	mg/Kg			0.046	U
1,3-Dichlorobenzene	mg/Kg			0.046	U
1,4-Dichlorobenzene	mg/Kg			0.046	U
2,4,5-Trichlorophenol	mg/Kg			0.046	U
2,4,6-Trichlorophenol	mg/Kg			0.046	U
2,4-Dichlorophenol	mg/Kg			0.093	U
2,4-Dimethylphenol	mg/Kg			0.046	U
2,4-Dinitrophenol	mg/Kg			0.19	U
2,4-Dinitrotoluene	mg/Kg			0.093	U
2,6-Dinitrotoluene	mg/Kg			0.046	U
2-Chloronaphthalene	mg/Kg			0.046	U
2-Chlorophenol	mg/Kg			0.046	U
2-Methylnaphthalene	mg/Kg			0.96	
2-Methylphenol	mg/Kg	0.33	100	0.093	U
2-Nitroaniline	mg/Kg			0.046	U
2-Nitrophenol	mg/Kg			0.046	U
3- & 4-Methylphenols	mg/Kg			0.093	U
3,3'-Dichlorobenzidine	mg/Kg			0.19	U
3-Nitroaniline	mg/Kg			0.093	U
4,6-Dinitro-2-methylphenol	mg/Kg			0.093	U
4-Bromophenyl phenyl ether	mg/Kg			0.046	U
4-Chloroaniline	mg/Kg			0.093	U
4-Chlorophenyl phenyl ether	mg/Kg			0.046	U
4-Nitroaniline	mg/Kg			0.093	U
4-Nitrophenol	mg/Kg			0.093	U
Acenaphthene	mg/Kg	98	100	0.058	J
Acenaphthylene	mg/Kg	107	100	0.046	U
Acetophenone	mg/Kg			0.046	U
Anthracene	mg/Kg	1,000	100	0.22	
Atrazine	mg/Kg			0.046	U
Benzaldehyde	mg/Kg			0.046	U
Benzidine	mg/Kg			0.19	U
Benzo(a)anthracene	mg/Kg	1	1	0.18	J
Benzo(a)pyrene	mg/Kg	22	1	0.18	J
Benzo(b)fluoranthene	mg/Kg	2	1	0.19	
Benzo(g,h,i)perylene	mg/Kg	1,000	100	0.093	U
Benzo(k)fluoranthene	mg/Kg	1.7	3.9	0.21	
Benzoic acid	mg/Kg			0.13	U
Benzyl butyl phthalate	mg/Kg			0.046	U
Bis(2-chloroethoxy)methane	mg/Kg			0.046	U
Bis(2-chloroethyl)ether	mg/Kg			0.046	U
Bis(2-chloroisopropyl)ether	mg/Kg			0.046	U
Bis(2-ethylhexyl)phthalate	mg/Kg			0.046	U
Caprolactam	mg/Kg			0.046	U
Carbazole	mg/Kg			0.046	U
Chrysene	mg/Kg	1	3.9	0.31	
Dibenzo(a,h)anthracene	mg/Kg	1,000	0.33	0.046	U
Dibenzofuran	mg/Kg			0.057	J
Diethyl phthalate	mg/Kg			0.046	U
Dimethyl phthalate	mg/Kg			0.046	U
Di-n-butyl phthalate	mg/Kg			0.046	U
Di-n-octyl phthalate	mg/Kg			0.046	U
Fluoranthene	mg/Kg	1,000	100	0.70	
Fluorene	mg/Kg	386	100	0.15	J
Hexachlorobenzene	mg/Kg			0.046	U
Hexachlorobutadiene	mg/Kg			0.046	U
Hexachlorocyclopentadiene	mg/Kg			0.093	U
Hexachloroethane	mg/Kg			0.046	U
Indeno(1,2,3-cd)pyrene	mg/Kg	8.2	0.5	0.046	U
Isophorone	mg/Kg			0.046	U
Naphthalene	mg/Kg	12	100	0.32	
Nitrobenzene	mg/Kg			0.046	U
N-Nitrosodimethylamine	mg/Kg			0.093	U
N-nitroso-di-n-propylamine	mg/Kg			0.046	U
N-Nitrosodiphenylamine	mg/Kg			0.046	U
Pentachlorophenol	mg/Kg	0.8	6.7	0.093	U
Phenanthrene	mg/Kg	1,000	100	0.89	
Phenol	mg/Kg	3.3	100	0.046	U
Pyrene	mg/Kg	1,000	100	0.54	

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TABLE 10. WASTE CHARACTERIZATION ANALYTICAL RESULTS
NATIVE SOILS - Pesticides, Herbicies, PCBs

PCBs By SW8082A	Units	NY-GWP	NY-RRSCO	14H0535-09	
				8/11/2014	
				5pt Comp (11-15')	
				Result	RL
Aroclor 1016	mg/Kg			0.018	U
Aroclor 1221	mg/Kg			0.018	U
Aroclor 1232	mg/Kg			0.018	U
Aroclor 1242	mg/Kg			0.018	U
Aroclor 1248	mg/Kg			0.018	U
Aroclor 1254	mg/Kg			0.018	U
Aroclor 1260	mg/Kg			0.018	U
Total PCBs	mg/Kg			0.018	U
Pesticides - Soil by SW8081B					
4,4' -DDD	mg/Kg	14	13	0.0018	U
4,4' -DDE	mg/Kg	17	8.9	0.0018	U
4,4' -DDT	mg/Kg	136	7.9	0.0018	U
a-BHC	mg/Kg	0.02	0.48	0.0018	U
a-Chlordane	mg/Kg	2.9	4.2	0.0018	U
Aldrin	mg/Kg	0.19	0.097	0.0018	U
b-BHC	mg/Kg	0.09	0.36	0.0018	U
Chlordane	mg/Kg			0.0073	U
d-BHC	mg/Kg	0.25	100	0.0018	U
Dieldrin	mg/Kg	0.1	0.2	0.0018	U
Endosulfan I	mg/Kg	102	2.4	0.0018	U
Endosulfan II	mg/Kg	102	2.4	0.0018	U
Endosulfan sulfate	mg/Kg	100	2.4	0.0018	U
Endrin	mg/Kg	0.06	1.1	0.0018	U
Endrin aldehyde	mg/Kg			0.0018	U
Endrin ketone	mg/Kg			0.0018	U
g-BHC	mg/Kg	0.1	1.3	0.0018	U
g-Chlordane	mg/Kg			0.0018	U
Heptachlor	mg/Kg	0.38	2.1	0.0018	U
Heptachlor epoxide	mg/Kg			0.0018	U
Methoxychlor	mg/Kg			0.0091	U
Toxaphene	mg/Kg			0.092	U
Herbicides by SW8151A					
2,4,5-T	mg/Kg			0.022	U
2,4,5-TP (Silvex)	mg/Kg	3.8	100	0.022	U
2,4-D	mg/Kg			0.022	U

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E=result is estimated and cannot be accurately reported due to levels encountered or interferences

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TABLE 11 . WASTE CHARACTERIZATION ANALYTICAL RESULTS
NATIVE SOILS - Metals, Misc

Miscellaneous/Inorganics	Units	NY-GWP	NY-RRSCO	14H0535-09	
				8/11/2014	
				5pt Comp (11-15')	
				Result	RL
Percent Solid	%			90.50	
Corrosivity	pH Units			8.56	
Ignitability	Non-Ignit			Non-Ignit	
Reactivity Cyanide	mg/Kg			0.25	U
Reactivity Sulfide	mg/Kg			15	U
EPH	mg/Kg			520	
TPH	mg/Kg			680	
Paint Filter				No Free Liquid	
Metals, total					
Aluminum	mg/Kg			8,530	
Antimony	mg/Kg			0.55	U
Arsenic	mg/Kg	16	16	2.36	
Barium	mg/Kg	820	400	34.50	
Beryllium	mg/Kg	47	72	0.11	U
Cadmium	mg/Kg	7.5	4.3	0.33	U
Calcium	mg/Kg			1,850	
Chromium	mg/Kg			16.80	
Cobalt	mg/Kg			6.40	
Copper	mg/kg	1,720	270	14.80	
Iron	mg/Kg			20,100	
Lead	mg/Kg	450	400	14.80	
Magnesium	mg/Kg			1,970	
Manganese	mg/Kg	2,000	2,000	277	
Nickel	mg/Kg	130	310	17.40	
Potassium	mg/Kg			780	
Selenium	mg/Kg	4	180	2.19	
Silver	mg/Kg	8.3	180	0.55	U
Sodium	mg/Kg			147	
Thallium	mg/Kg			1.10	U
Vanadium	mg/Kg			25.60	
Zinc	mg/Kg	2,480	10,000	59.10	
Mercury	mg/Kg	0.73	0.81	0.033	U
Metals, TCLP RCRA			**40 CFR 261.24**		
Arsenic	mg/L		5	0.0040	U
Barium	mg/L		100	0.49	
Cadmium	mg/L		1	0.0030	U
Chromium	mg/L		5	0.0050	U
Lead	mg/L		5	0.027	
Selenium	mg/L		0.2	0.010	U
Silver	mg/L		1	0.0050	U
Mercury	mg/L		5	0.0002	U

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

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TABLE 12 - ANALYTICAL RESULTS
UST Endpoint Sample Results - VOCs

Volatiles by SW8260C	Units	NYSDEC Part 375.6 Protection of GW Cleanup Objectives*	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	BV20480		BV20481		BV20482		BV20483		BV20484		BV20485	
					9/20/2016		9/20/2016		9/20/2016		9/20/2016		9/20/2016		9/20/2016	
					TANK 1 BOTTOM		TANK 2 BOTTOM		TANK 3 BOTTOM		TANK 4 BOTTOM		TRIP BLANK HIGH		TRIP BLANK LOW	
					Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4-Trimethylbenzene	ug/Kg	3,600	3,600	52,000	ND	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
1,3,5-Trimethylbenzene	ug/Kg	8,400	8,400	52,000	ND	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
Acetone	ug/Kg	50	50	100,000	ND	550	**4.1**	6.0	ND	6.5	ND	6.4	ND	500	**9.5**	10
Benzene	ug/Kg	60	60	4,800	ND	60	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0
Ethylbenzene	ug/Kg	1,000	1,000	41,000	**310**	110	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0
Isopropylbenzene	ug/Kg				**970**	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
m&p-Xylene	ug/Kg				ND	110	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0
Methyl t-Butyl Ether (MTBE)	ug/Kg	930	930	100,000	ND	110	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0
Naphthalene	ug/Kg				**7,000**	110	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0
n-Butylbenzene	ug/Kg	12,000	12,000	100,000	**2,200**	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
n-Propylbenzene	ug/Kg	3,900	3,900	100,000	**3,100**	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
o-Xylene	ug/Kg				ND	110	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0
p-Isopropyltoluene	ug/Kg				**190**	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
sec-Butylbenzene	ug/Kg	11,000	11,000	100,000	**920**	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
tert-Butylbenzene	ug/Kg	5,900	5,900	100,000	**98**	55	ND	0.60	ND	0.65	ND	0.64	ND	50	ND	1.0
Toluene	ug/Kg	700	700	100,000	ND	110	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0
Total Xylenes	ug/Kg	1,600	260	100,000	ND	110	ND	1.2	ND	1.3	ND	1.3	ND	100	ND	2.0

Notes
ND - Non Detect
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC GWP Guidance Value for VOCs
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

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TABLE 13 - ANALYTICAL RESULTS
UST Endpoint Sample Results - SVOCs

Semivolatiles By SW8270D	Units	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	BV20480		BV20481		BV20482		BV20483	
						9/20/2016		9/20/2016		9/20/2016		9/20/2016	
						TANK 1 BOTTOM		TANK 2 BOTTOM		TANK 3 BOTTOM		TANK 4 BOTTOM	
						Result	RL	Result	RL	Result	RL	Result	RL
Acenaphthene	ug/Kg	98,000	100,000	100,000	20,000	ND	250	ND	250	ND	240	ND	260
Acenaphthylene	ug/Kg	107,000	100,000	100,000	100,000	ND	250	ND	250	ND	240	ND	260
Anthracene	ug/Kg	1,000,000	100,000	100,000	100,000	ND	250	ND	250	ND	240	ND	260
Benz(a)anthracene	ug/Kg	1,000	1,000	1,000	1,000	ND	250	ND	250	ND	240	ND	260
Benzo(a)pyrene	ug/Kg	22,000	1,000	1,000	1,000	ND	250	ND	250	ND	240	ND	260
Benzo(b)fluoranthene	ug/Kg	1,700	1,000	1,000	1,000	ND	250	ND	250	ND	240	ND	260
Benzo(ghi)perylene	ug/Kg	1,000,000	100,000	100,000	100,000	ND	250	ND	250	ND	240	ND	260
Benzo(k)fluoranthene	ug/Kg	1,700	1,000	3,900	800	ND	250	ND	250	ND	240	ND	260
Chrysene	ug/Kg	1,000	1,000	3,900	1,000	ND	250	ND	250	ND	240	ND	260
Dibenz(a,h)anthracene	ug/Kg	1,000,000	330	330	330	ND	250	ND	250	ND	240	ND	260
Fluoranthene	ug/Kg	1,000,000	100,000	100,000	100,000	ND	250	ND	250	ND	240	ND	260
Fluorene	ug/Kg	386,000	100,000	100,000	30,000	ND	250	ND	250	ND	240	ND	260
Indeno(1,2,3-cd)pyrene	ug/Kg	8,200	500	500	500	ND	250	ND	250	ND	240	ND	260
Naphthalene	ug/Kg	12,000	100,000	100,000	12,000	**6,900**	250	ND	250	ND	240	ND	260
Phenanthrene	ug/Kg	1,000,000	100,000	100,000	100,000	**140**	250	ND	250	ND	240	ND	260
Pyrene	ug/Kg	1,000,000	100,000	100,000	100,000	ND	250	ND	250	ND	240	ND	260

Notes
ND - Non Detect
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

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Table 14. Source Area and Hotspot Endpoint Sample Results - Volatile Organic Compounds

VOCs by SW8260C	NYSDEC Part 375.6 Protection of GW Cleanup Objectives*	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP4		EP5		EP6		EP7		EP8		EP9		EP10		EP12	
				15'		15'		15'		15'		14'		14'		14'		14'	
				12/28/2016		12/28/2016		12/28/2016		12/28/2016		12/28/2016		12/28/2016		12/28/2016		12/28/2016	
				µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane				< 970	970	< 1200	1,200	< 1000	1000	< 12	12	< 1200	1,200	< 13	13	< 1100	1,100	< 1300	1300
1,1,1-Trichloroethane	680	680	100,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,1,2,2-Tetrachloroethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,1,2-Trichloroethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,1-Dichloroethane	270	270	26,000	< 240	240	< 270	270	< 250	250	< 2.9	2.9	< 270	270	< 3.3	3.3	< 270	270	< 270	270
1,1-Dichloroethene	330	330	100,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,2,3-Trichlorobenzene				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,2,4-Trichlorobenzene				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,2,4-Trimethylbenzene	3,600	3,600	52,000	**21,000**	250	**32,000**	250	**40,000**	250	**32**	5	**6,200**	290	**17**	5	**21,000**	250	**62,000**	250
1,2-Dibromo-3-chloropropane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,2-Dibromomethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,2-Dichlorobenzene	1,100	1,100	100,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,2-Dichloroethane	20	20	3,100	< 24	24	< 30	30	< 25	25	< 2.9	2.9	< 29	29	< 3.3	3.3	< 27	27	< 33	33
1,2-Dichloropropane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,3,5-Trimethylbenzene	8,400	8,400	52,000	**8,100**	250	**12,000**	250	**17,000**	250	**29**	5	**1900**		**5.2**	5	**6,300**	25	**28,000**	250
1,3-Dichlorobenzene	2,400	2,400	4,900	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,4-Dichlorobenzene	1,800	1,800	13,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
1,4- Dioxane	100	100	9,800	< 1900	1,900	< 2400	2,400	<1,900	1,900	< 44	44	< 2300	2,300	< 49	49	< 2200	2,200		
2-Hexanone (Methyl Butyl Ketone)				< 1200	1,200	< 1500	1,500	< 1300	1300	< 15	15	< 1400	1,400	< 16	16	< 1400	1,400	< 1600	1600
4-Methyl-2-Pentanone				< 1200	1,200	< 1500	1,500	< 1300	1300	< 15	15	< 1400	1,400	< 16	16	< 1400	1,400	< 1600	1600
Acetone	50	50	100,000	< 240	240	< 300	300	< 250	250	< 15	15	< 290	290	**10**	16	< 270	270	< 330	330
Acrolein				< 970	970	< 1200	1,200	< 1000	1000	< 12	12	< 1200	1,200	< 13	13	< 1100	1,100	< 1300	1300
Acrylonitrile				< 970	970	< 1200	1,200	< 1000	1000	< 12	12	< 1200	1,200	< 13	13	< 1100	1,100	< 1300	1300
Benzene	60	60	4,800	**36**	60	< 60	60	**320**	250	< 2.9	2.9	< 60	60	< 3.3	3.3	**75**	60	< 60	60
Bromodichloromethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Bromoform				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Bromomethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Carbon Disulfide				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Carbon tetrachloride	760	760	2,400	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Chlorobenzene	1,100	1,100	100,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Chloroethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Chloroform	370	370	49,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Chloromethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
cis-1,2-Dichloroethene	250	250	100,000	< 240	240	< 250	250	< 250	250	< 2.9	2.9	< 250	250	< 3.3	3.3	< 250	250	< 250	250
cis-1,3-Dichloropropene				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Cyclohexane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	780	330
Dibromochloromethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Dichlorodifluoromethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Ethylbenzene	1,000	1,000	41,000	**8,300**	240	**16,000**	1,000	**40,000**	1000	**77**	260	**2,100**	290	**7.1**	3.3	**13,000**	1,000	**49,000**	1000
Isopropylbenzene				**1,300**	240	**4,000**	3,000	5700	2500	**47**	260	**420**	290	**34**	240	**3,300**	1,400	13000	3300
m&p-Xylenes				**36,000**	2,400	**47,000**	3,000	**110,000**	2500	**36**	2.9	**7,000**	290	**570**	240	**22,000**	1,400	140000	3300
Methyl Ethyl Ketone (2-Butanone)	120	120	100,000	< 240	240	< 300	300	< 250	250	< 18	18	< 290	290	< 20	20	< 270	270	< 330	330
Methyl t-butyl ether (MTBE)	930	930	100,000	< 480	480	< 590	590	< 510	510	< 5.9	5.9	< 580	580	< 6.6	6.6	< 550	550	< 650	650
Methylacetate				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Methylcyclohexane				**2,100**	240	**5,300**	300	**7,900**	250	**22**	2.9	**540**	290	**3.7**	3.3	**4,100**	1,400	16000	3300
Methylene chloride	50	50	100,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
n-Butylbenzene	12,000	12,000	100,000	**1,500**	250	**3,700**	250	**4,300**	12000	<5	5	**430**	250	<5	5	**2,100**	250	**2,100**	250
n-Propylbenzene	3,900	3,900	100,000	**3,800**	250	**9,800**	250	**12,000**	250	<5	5	**1300**	250	<5	5	**6,300**	250	**23,000**	250
o-Xylene				**11,000**	2,400	**11,000**	3,000	**32,000**	2500	**73**	260	**2,400**	290	**6.4**	3.3	**1,800**	1,400	16000	3300
sec-Butylbenzene	11,000	11,000	100,000	**690**	250	**1,800**	250	**1,900**	250	**2**	5	**200**	250	<5	5	**1,100**	250	**3,900**	250
Tetrachloroethene	1,300	1,300	19,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Tert-butyl alcohol				< 4800	4,800	< 5900	5,900	< 5100	5100	< 59	59	< 5800	5,800	< 66	66	< 5500	5,500	< 6500	6500
Toluene	700	700	100,000	**610**	240	**140**	300	**910**	250	**0.55**	2.9	**180**	290	**1.1**	3.3	**68**	270	200	330
Total Xylenes	1,600	260	100,000	**47,000**	2,400	**58,000**	3,000	**142,000**	2500	< 260	260	**9,400**	290	**576**	240	**23,800**	1,400	**156,000**	3300
trans-1,2-Dichloroethene	119	190	100,000	< 190	190	< 190	190	< 190	190	< 2.9	2.9	< 190	190	< 3.3	3.3	< 190	190	< 190	190
trans-1,3-Dichloropropene				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Trichloroethene	470	470	21,000	< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Trichlorofluoromethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Trichlorotrifluoroethane				< 240	240	< 300	300	< 250	250	< 2.9	2.9	< 290	290	< 3.3	3.3	< 270	270	< 330	330
Vinyl Chloride	**20**	20	900	< 24	24	< 30	30	< 25	25	< 2.9	2.9	< 29	29	< 3.3	3.3	< 27	27	< 33	33
Total BTEX Concentration				**55,946.0**		**74,140.0**		**183,230.0**		**186.6**		**11,680.0**		**584.6**		**36,943.0**		**205,200.0**	
Total VOCs Concentration				**94,436.0**		**142,740.0**		**272,030.0**		**287.6**		**20,740.0**		**654.5**		**81,143.0**		**353,980.0**	

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC GWP Guidance Value for VOCs

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 14. Source Area and Hotspot Endpoint Sample Results - Volatile Organic Compounds

VOCs by SW8260C	NYSDEC Part 375.6 Protection of GW Cleanup Objectives*	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP12N		EP13		EP14		EP15		EP16		EP17		EP18		EP19	
				14'		15'		14'		14'		14'		14'		15'		14'	
				1/4/2017		12/30/2016		12/30/2016		12/30/2016		12/30/2016		12/30/2016		12/30/2016		12/30/2016	
				µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane				< 15	15	< 17	17	< 17	17	< 14	14	< 15	15	< 15	15	< 6600	6600	< 1000	1,000
1,1,1-Trichloroethane	680	680	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 680	680	< 260	260
1,1,2,2-Tetrachloroethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,1,2-Trichloroethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,1-Dichloroethane	270	270	26,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 330	330	< 260	260
1,1-Dichloroethene	330	330	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 330	330	< 260	260
1,2,3-Trichlorobenzene				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,2,4-Trichlorobenzene				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,2,4-Trimethylbenzene	3,600	3,600	52,000	**1.1**	5	**2**	5	< 5	5	< 5	5	**2.1**	5	**1.8**	5	**120,000**	1250	**9,900**	250
1,2-Dibromo-3-chloropropane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,2-Dibromomethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,2-Dichlorobenzene	1,100	1,100	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1100	1100	< 260	260
1,2-Dichloroethane	20	20	3,100	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 170	170	< 26	26
1,2-Dichloropropane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,3,5-Trimethylbenzene	8,400	8,400	52,000	< 5	5	< 5	5	< 5	5	< 5	5	< 5	5	< 5	5	**35,000**	1250	**440**	250
1,3-Dichlorobenzene	2,400	2,400	4,900	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,4-Dichlorobenzene	1,800	1,800	13,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
1,4- Dioxane	100	100	9,800	< 56	56	< 65	65	< 63	63	< 54	54	< 57	57	<58	58	<13,000	13000	< 2100	2,100
2-Hexanone (Methyl Butyl Ketone)				< 19	19	< 22	22	< 21	21	< 18	18	< 19	19	< 19	19	< 8300	8300	< 1300	1,300
4-Methyl-2-Pentanone				< 19	19	< 22	22	< 21	21	< 18	18	< 19	19	< 19	19	< 8300	8300	< 1300	1,300
Acetone	50	50	100,000	< 19	19	**7.6**	22	**10**	21	**20**	18	**15**	19	**16**	19	< 1700	1700	< 260	260
Acrolein				< 15	15	< 17	17	< 17	17	< 14	14	< 15	15	< 15	15	< 6600	6600	< 1000	1,000
Acrylonitrile				< 15	15	< 17	17	< 17	17	< 14	14	< 15	15	< 15	15	< 6600	6600	< 1000	1,000
Benzene	60	60	4,800	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 170	170	< 60	60
Bromodichloromethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Bromoform				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Bromomethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Carbon Disulfide				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Carbon tetrachloride	760	760	2,400	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 760	760	< 260	260
Chlorobenzene	1,100	1,100	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1100	1100	< 260	260
Chloroethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Chloroform	370	370	49,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 370	370	< 260	260
Chloromethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
cis-1,2-Dichloroethene	250	250	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 250	250	< 250	250
cis-1,3-Dichloropropene				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Cyclohexane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Dibromochloromethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Dichlorodifluoromethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Ethylbenzene	1,000	1,000	41,000	**0.84**	3.7	**37**	200	**1.9**	4.2	**0.81**	3.6	**2.2**	3.8	**2**	3.8	**30,000**	1000	**760**	260
Isopropylbenzene				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	**6700**	1700	**520**	260
m&p-Xylenes				**2.2**	3.7	**7.2**	4.4	**4.4**	4.2	**1.9**	3.6	**5.8**	3.8	**5.3**	3.8	**100,000**	1700	**560**	260
Methyl Ethyl Ketone (2-Butanone)	120	120	100,000	< 22	22	< 26	26	< 25	25	< 22	22	< 23	23	< 23	23	< 1700	1700	< 260	260
Methyl t-butyl ether (MTBE)	930	930	100,000	< 7.4	7.4	< 8.7	8.7	< 8.3	8.3	< 7.2	7.2	< 7.6	7.6	< 7.7	7.7	< 930	930	< 520	520
Methylacetate				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Methylcyclohexane				**0.88**	3.7	< 4.4	4.4	**1.4**	4.2	**2**	3.6	< 3.8	3.8	< 3.8	3.8	**1800**	1700	**120**	260
Methylene chloride	50	50	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
n-Butylbenzene	12,000	12,000	100,000	<5	5	<5	5	<5	5	<5	5	<5	5	<5	5	**5,700**	1250	**1,500**	250
n-Propylbenzene	3,900	3,900	100,000	<5	5	<5	5	<5	5	<5	5	<5	5	<5	5	**22,000**	1250	**2,000**	250
o-Xylene				< 3.7	3.7	**1.4**	4.4	< 4.2	4.2	< 3.6	3.6	**0.78**	3.8	**1.1**	3.8	**13,000**	1700	< 260	260
sec-Butylbenzene	11,000	11,000	100,000	<5	5	<5	5	<5	5	<5	5	<5	5	<5	5	**2,200**	1250	**510**	250
Tetrachloroethene	1,300	1,300	19,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1300	1300	< 260	260
Tert-butyl alcohol				< 74	74	< 87	87	< 83	83	< 72	72	< 76	76	< 77	77	< 33000	33000	< 5200	5,200
Toluene	700	700	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 700	700	< 260	260
Total Xylenes	1,600	260	100,000	< 3.7	3.7	**8.6**	4.4	**4.4**	4.2	< 3.6	3.6	**6.6**	3.8	**6.4**	3.8	**113,000**	1700	**560**	260
trans-1,2-Dichloroethene	119	190	100,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 190	190	< 190	190
trans-1,3-Dichloropropene				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Trichloroethene	470	470	21,000	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 470	470	< 260	260
Trichlorofluoromethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Trichlorotrifluoroethane				< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 1700	1700	< 260	260
Vinyl Chloride	**20**	20	900	< 3.7	3.7	< 4.4	4.4	< 4.2	4.2	< 3.6	3.6	< 3.8	3.8	< 3.8	3.8	< 170	170	< 26	26
Total BTEX Concentration				**3.0**		**45.6**		**6.3**		**2.7**		**8.8**		**8.4**		**143,000.0**		**1,320.0**	
Total VOCs Concentration				**5.0**		**63.8**		**22.1**		**24.7**		**32.5**		**32.6**		**336,400.0**		**16,310.0**	

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC GWP Guidance Value for VOCs

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 14. Source Area and Hotspot Endpoint Sample Results - Volatile Organic Compounds

VOCs by SW8260C	NYSDEC Part 375.6 Protection of GW Cleanup Objectives*	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP21		EP21S		EP22		EP22E		EP23		EP23N		EP25		EP26	
				14'		14'		14'		14'		14'		14'		15'		11'	
				12/30/2016		1/4/2017		12/30/2016		1/4/2017		12/30/2016		1/4/2017		1/4/2017		12/30/2016	
				µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane				< 1100	1100	< 1300	1,300	< 1300	1300	< 1800	1,800	< 24000	24000	< 2700	2,700	< 6000	6,000	< 14	14
1,1,1-Trichloroethane	680	680	100,000	< 270	270	< 320	320	< 330	330	< 450	450	< 680	680	< 680	680	< 680	680	< 3.6	3.6
1,1,2,2-Tetrachloroethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
1,1,2-Trichloroethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
1,1-Dichloroethane	270	270	26,000	< 270	270	< 270	270	< 270	270	< 270	270	< 1200	1200	< 270	270	< 300	300	< 3.6	3.6
1,1-Dichloroethene	330	330	100,000	< 270	270	< 320	320	< 330	330	< 330	330	< 590	590	< 330	330	< 330	330	< 3.6	3.6
1,2,3-Trichlorobenzene				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
1,2,4-Trichlorobenzene				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
1,2,4-Trimethylbenzene	3,600	3,600	52,000	**59,000**	250	<250	250	**64,000**	250	**24,000**	500	**350,000**	5000	**37,000**	500	**66,000**	1250	**0.93**	5
1,2-Dibromo-3-chloropropane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
1,2-Dibromomethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
1,2-Dichlorobenzene	1,100	1,100	100,000	< 270	270	< 320	320	< 330	330	< 450	450	< 1100	1100	< 680	680	< 1100	1,100	< 3.6	3.6
1,2-Dichloroethane	20	20	3,100	< 27	27	< 32	32	< 33	33	< 45	45	< 590	590	< 68	68	< 150	150	< 3.6	3.6
1,2-Dichloropropane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
1,3,5-Trimethylbenzene	8,400	8,400	52,000	**34,000**	250	<250	250	**38,000**	250	**1600**	250	**120,000**	5000	**12,000**	500	**20,000**	1250	<5	5
1,3-Dichlorobenzene	2,400	2,400	4,900	< 270	270	< 320	320	< 330	330	< 450	450	< 2400	2400	< 680	680	< 1500	1,500	< 3.6	3.6
1,4-Dichlorobenzene	1,800	1,800	13,000	< 270	270	< 320	320	< 330	330	< 450	450	< 1800	1800	< 680	680	< 1500	1,500	< 3.6	3.6
1,4- Dioxane	100	100	9,800	< 2100	2,100	< 2600	2,600	< 2600	2,600	< 3600	3,600	<48,000	48000	< 5500	5,500	< 12000	12,000	< 54	54
2-Hexanone (Methyl Butyl Ketone)				< 1300	1300	< 1600	1,600	< 1600	1600	< 2300	2,300	< 30000	30000	< 3400	3,400	< 7500	7,500	< 18	18
4-Methyl-2-Pentanone				< 1300	1300	< 1600	1,600	< 1600	1600	< 2300	2,300	< 30000	30000	< 3400	3,400	< 7500	7,500	< 18	18
Acetone	50	50	100,000	< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	**910**	680	**5,300**	1,500	**4.1**	18
Acrolein				< 1100	1100	< 1300	1,300	< 1300	1300	< 1800	1,800	< 24000	24000	< 2700	2,700	< 6000	6,000	< 14	14
Acrylonitrile				< 1100	1100	< 1300	1,300	< 1300	1300	< 1800	1,800	< 24000	24000	< 2700	2,700	< 6000	6,000	< 14	14
Benzene	60	60	4,800	< 60	60	< 60	60	< 60	60	< 60	60	< 590	590	< 68	68	< 150	150	< 3.6	3.6
Bromodichloromethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Bromoform				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Bromomethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Carbon Disulfide				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Carbon tetrachloride	760	760	2,400	< 270	270	< 320	320	< 330	330	< 450	450	< 1200	1200	< 680	680	< 760	760	< 3.6	3.6
Chlorobenzene	1,100	1,100	100,000	< 270	270	< 320	320	< 330	330	< 450	450	< 1100	1100	< 680	680	< 1100	1,100	< 3.6	3.6
Chloroethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Chloroform	370	370	49,000	< 270	270	< 320	320	< 330	330	< 370	370	< 590	590	< 370	370	< 370	370	< 3.6	3.6
Chloromethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
cis-1,2-Dichloroethene	250	250	100,000	< 250	250	< 250	250	< 250	250	< 250	250	< 590	590	< 250	250	< 250	250	< 3.6	3.6
cis-1,3-Dichloropropene				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Cyclohexane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Dibromochloromethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Dichlorodifluoromethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Ethylbenzene	1,000	1,000	41,000	**96,000**	1000	**410**	320	**130,000**	1300	**9,900**	450	**220,000**	1000	**21,000**	680	**23,000**	1,000	**0.54**	3.6
Isopropylbenzene				14000	2700	**2,800**	320	15000	3300	**5,800**	450	27000	5900	**3,600**	680	**4,200**	1,500	< 3.6	3.6
m&p-Xylenes				250000	5400	**92**	320	450000	13000	**15,000**	450	760000	15000	**44,000**	680	**56,000**	1,500	**2.7**	3.6
Methyl Ethyl Ketone (2-Butanone)	120	120	100,000	< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 22	22
Methyl t-butyl ether (MTBE)	930	930	100,000	< 540	540	< 650	650	< 650	650	< 910	910	< 1200	1200	< 930	930	< 930	930	< 7.2	7.2
Methylacetate				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Methylcyclohexane				12000	2700	**4,500**	320	29000	3300	**11,000**	450	20000	5900	**4,700**	680	**6,400**	1,500	< 3.6	3.6
Methylene chloride	50	50	100,000	< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
n-Butylbenzene	12,000	12,000	100,000	**6,600**	250	**5,100**	250	**7,000**	250	**3,400**	500	**14,000**	5000	**2,100**	500	**4,900**	1250	<5	5
n-Propylbenzene	3,900	3,900	100,000	**29,000**	250	**11,000**	250	**32,000**	250	**16,000**	500	**76,000**	5000	**9,400**	500	**13,000**	250	<5	5
o-Xylene				78000	2700	< 320	320	130000	13000	**1,800**	450	230000	5900	**7,500**	680	**15,000**	1,500	**6.5**	3.6
sec-Butylbenzene	11,000	11,000	100,000	**2,700**	250	**2,500**	250	**3,000**	250	**1,400**	500	**1,000**	500	**1,000**	500	**1,800**	1250	<5	5
Tetrachloroethene	1,300	1,300	19,000	< 270	270	< 320	320	< 330	330	< 450	450	< 1300	1300	< 680	680	< 1300	1,300	< 3.6	3.6
Tert-butyl alcohol				< 5400	5400	< 6500	6,500	< 6500	6500	< 9100	9,100	< 120000	120000	< 14000	14,000	< 30000	30,000	< 72	72
Toluene	700	700	100,000	140	270	< 320	320	**1,600**	700	**370**	450	< 700	700	**180**	680	**150**	700	**7.9**	3.6
Total Xylenes	1,600	260	100,000	**328,000**	5400	< 250	250	**580,000**	13000	**16,800**	450	**990,000**	15000	**51,500**	680	**71,000**	1,500	**9.2**	3.6
trans-1,2-Dichloroethene	119	190	100,000	< 190	190	< 190	190	< 190	190	< 190	190	< 590	590	< 190	190	< 190	190	< 3.6	3.6
trans-1,3-Dichloropropene				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Trichloroethene	470	470	21,000	< 270	270	< 320	320	< 330	330	< 450	450	< 590	590	< 470	470	< 470	470	< 3.6	3.6
Trichlorofluoromethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Trichlorotrifluoroethane				< 270	270	< 320	320	< 330	330	< 450	450	< 5900	5900	< 680	680	< 1500	1,500	< 3.6	3.6
Vinyl Chloride	**20**	20	900	< 27	27	< 32	32	< 33	33	< 45	45	< 590	590	< 68	68	< 150	150	< 3.6	3.6
Total BTEX Concentration				**424,140.0**		**502.0**		**711,600.0**		**27,070.0**		**1,210,000.0**		**72,680.0**		**94,150.0**		**17.6**	
Total VOCs Concentration				**581,440.0**		**26,402.0**		**899,600.0**		**90,270.0**		**1,818,000.0**		**143,390.0**		**215,750.0**		**22.7**	

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC GWP Guidance Value for VOCs

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 15. Source Area and Hotspot Endpoint Sample Results - Semi-Volatile Organic Compounds

Semivolatiles By SW8270D	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1 1' 10/25/2016 µg/Kg		EP-4 15' 12/28/2016 µg/Kg		EP-5 15' 12/28/2016 µg/Kg		EP-6 15' 12/28/2016 µg/Kg		EP-8 14 12/28/2016 µg/Kg		EP-9 14' 12/28/2016 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
1,2,4-Trichlorobenzene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
1,2-Dichlorobenzene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
1,2-Diphenylhydrazine			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
1,3-Dichlorobenzene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
1,4-Dichlorobenzene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2,4,5-Trichlorophenol			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2,4,6-Trichlorophenol			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
2,4-Dichlorophenol			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
2,4-Dimethylphenol			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2,4-Dinitrophenol			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2,4-Dinitrotoluene			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
2,6-Dinitrotoluene			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
2-Chloronaphthalene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2-Chlorophenol			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2-Methylnaphthalene			< 260	260	**550**	260	**3,800**	270	**4,300**	270	**230**	260	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2-Nitroaniline			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
2-Nitrophenol			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
3,3'-Dichlorobenzidine			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
3-Nitroaniline			< 380	380	< 380	380	< 380	380	< 380	380	< 370	370	< 360	360
4,6-Dinitro-2-methylphenol			< 230	230	< 230	230	< 230	230	< 230	230	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
4-Chloro-3-methylphenol			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
4-Chloroaniline			< 300	300	< 300	300	< 310	310	< 310	310	< 300	300	< 290	290
4-Chlorophenyl phenyl ether			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
4-Nitroaniline			< 380	380	< 380	380	< 380	380	< 380	380	< 370	370	< 360	360
4-Nitrophenol			< 380	380	< 380	380	< 380	380	< 380	380	< 370	370	< 360	360
Acenaphthene	20,000	100,000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Acenaphthylene	100,000	100,000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Acetophenone			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Aniline			< 300	300	< 300	300	< 310	310	< 310	310	< 300	300	< 290	290
Anthracene	100,000	100,000	**160**	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Benz(a)anthracene	1,000	1,000	**590**	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Benzidine			< 380	380	< 380	380	< 380	380	< 380	380	< 370	370	< 360	360
Benzo(a)pyrene	1,000	1,000	**720**	190	**130**	190	< 190	190	< 190	190	< 190	190	< 180	180
Benzo(b)fluoranthene	1,000	1,000	**640**	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Benzo(ghi)perylene	100,000	100,000	**490**	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Benzo(k)fluoranthene	800	3,900	**560**	260	**130**	260	< 270	270	< 270	270	< 260	260	< 250	250
Benzoic acid			< 1900	1,900	< 1900	1,900	< 1900	1,900	< 1900	1900	< 1900	1,900	< 1800	1,800
Benzyl butyl phthalate			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Bis(2-chloroethoxy)methane			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Bis(2-chloroethyl)ether			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
Bis(2-chloroisopropyl)ether			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Bis(2-ethylhexyl)phthalate			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Carbazole			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
Chrysene	1,000	3,900	**770**	260	**140**	260	< 270	270	< 270	270	< 260	260	< 250	250
Dibenz(a,h)anthracene	330	330	< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
Dibenzofuran	7,000	59,000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Diethyl phthalate			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Dimethylphthalate			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Di-n-butylphthalate			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Di-n-octylphthalate			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Fluoranthene	100,000	100,000	**960**	260	**210**	260	< 270	270	< 270	270	< 260	260	< 250	250
Fluorene	30,000	100,000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Hexachlorobenzene			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
Hexachlorobutadiene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Hexachlorocyclopentadiene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Hexachloroethane			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	**520**	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Isophorone			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
Naphthalene	12,000	100,000	< 260	260	**480**	260	**4,200**	270	**5,800**	270	**210**	260	< 250	250
Nitrobenzene			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
N-Nitrosodimethylamine			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
N-Nitrosodi-n-propylamine			< 190	190	< 190	190	< 190	190	< 190	190	< 190	190	< 180	180
N-Nitrosodiphenylamine			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Pentachloronitrobenzene			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Pentachlorophenol	800	6,700	< 230	230	< 230	230	< 230	230	< 230	230	< 220	220	< 220	220
Phenanthrene	100,000	100,000	**750**	260	**110**	260	**110**	270	**110**	270	< 260	260	< 250	250
Phenol	330	100,000	< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250
Pyrene	100,000	100,000	**1,000**	260	**190**	260	< 270	270	< 270	270	< 260	260	< 250	250
Pyridine			< 260	260	< 260	260	< 270	270	< 270	270	< 260	260	< 250	250

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 15. Source Area and Hotspot Endpoint Sample Results - Semi-Volatile Organic Compounds

Semivolatiles By SW8270D	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP-10 14' 12/28/2016 µg/Kg		EP12 14' 12/28/2016 µg/Kg		EP-12N 14' 1/4/2017 µg/Kg		EP13 15' 12/30/2016 µg/Kg		EP15 14' 12/30/2016 µg/Kg		EP17 14' 12/30/2016 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
1,2,4-Trichlorobenzene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
1,2-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
1,2-Diphenylhydrazine			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
1,3-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
1,4-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2,4,5-Trichlorophenol			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
2,4-Dichlorophenol			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
2,4-Dimethylphenol			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2,4-Dinitrophenol			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2,4-Dinitrotoluene			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
2,6-Dinitrotoluene			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
2-Chloronaphthalene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2-Chlorophenol			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2-Methylnaphthalene			**2,300**	260	**9,400**	2600	< 260	260	< 250	250	< 260	260	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2-Nitroaniline			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
2-Nitrophenol			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
3-Nitroaniline			< 380	380	< 370	370	< 370	370	< 350	350	< 370	370	< 360	360
4,6-Dinitro-2-methylphenol			< 230	230	< 220	220	< 220	220	< 210	210	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
4-Chloro-3-methylphenol			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
4-Chloroaniline			< 300	300	< 290	290	< 300	300	< 280	280	< 300	300	< 290	290
4-Chlorophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
4-Nitroaniline			< 380	380	< 370	370	< 370	370	< 350	350	< 370	370	< 360	360
4-Nitrophenol			< 380	380	< 370	370	< 370	370	< 350	350	< 370	370	< 360	360
Acenaphthene	20,000	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Acenaphthylene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Acetophenone			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Aniline			< 300	300	< 290	290	< 300	300	< 280	280	< 300	300	< 290	290
Anthracene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Benz(a)anthracene	1,000	1,000	< 260	260	**180**	260	< 260	260	< 250	250	< 260	260	< 250	250
Benzidine			< 380	380	< 370	370	< 370	370	< 350	350	< 370	370	< 360	360
Benzo(a)pyrene	1,000	1,000	< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
Benzo(b)fluoranthene	1,000	1,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Benzo(k)fluoranthene	800	3,900	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Benzoic acid			< 1900	1,900	< 1800	1800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1800	1,800
Benzyl butyl phthalate			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Bis(2-chloroethoxy)methane			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
Bis(2-chloroisopropyl)ether			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Bis(2-ethylhexyl)phthalate			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Carbazole			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
Chrysene	1,000	3,900	< 260	260	**190**	260	< 260	260	< 250	250	< 260	260	< 250	250
Dibenz(a,h)anthracene	330	330	< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
Dibenzofuran	7,000	59,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Diethyl phthalate			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Dimethylphthalate			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Di-n-butylphthalate			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Di-n-octylphthalate			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Fluoranthene	100,000	100,000	< 260	260	**520**	260	< 260	260	< 250	250	< 260	260	< 250	250
Fluorene	30,000	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Hexachlorobenzene			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
Hexachlorobutadiene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Hexachlorocyclopentadiene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Hexachloroethane			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Isophorone			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
Naphthalene	12,000	100,000	**2,800**	260	**14,000**	2600	< 260	260	< 250	250	< 260	260	< 250	250
Nitrobenzene			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
N-Nitrosodimethylamine			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 190	190	< 180	180	< 180	180	< 180	180
N-Nitrosodiphenylamine			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Pentachloronitrobenzene			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Pentachlorophenol	800	6,700	< 230	230	< 220	220	< 220	220	< 210	210	< 220	220	< 220	220
Phenanthrene	100,000	100,000	< 260	260	**600**	260	< 260	260	< 250	250	< 260	260	< 250	250
Phenol	330	100,000	< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250
Pyrene	100,000	100,000	< 260	260	**450**	260	< 260	260	< 250	250	< 260	260	< 250	250
Pyridine			< 260	260	< 260	260	< 260	260	< 250	250	< 260	260	< 250	250

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 15. Source Area and Hotspot Endpoint Sample Results - Semi-Volatile Organic Compounds

Semivolatiles By SW8270D	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP18 15' 12/30/2016 µg/Kg		EP19 14' 12/30/2016 µg/Kg		EP21 14' 12/30/2016 µg/Kg		EP21S 14' 12/30/2016 µg/Kg		EP22 14' 12/30/2016 µg/Kg		EP22E 14' 1/5/2017 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
1,2-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
1,3-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
1,4-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dimethylphenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2,4-Dinitrophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2,4-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,6-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2-Chloronaphthalene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2-Chlorophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2-Methylnaphthalene			**2,700**	260	**1,400**	250	**1,800**	250	**410**	250	**2,800**	260	**1,400**	260
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2-Nitroaniline			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
2-Nitrophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
3-Nitroaniline			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370	< 370	370
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 220	220	< 220	220	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
4-Chloroaniline			< 300	300	< 290	290	< 290	290	< 290	290	< 290	290	< 300	300
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
4-Nitroaniline			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370	< 370	370
4-Nitrophenol			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370	< 370	370
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Acetophenone			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Aniline			< 300	300	< 290	290	< 290	290	< 290	290	< 290	290	< 300	300
Anthracene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Benz(a)anthracene	1,000	1,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Benzidine			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370	< 370	370
Benzo(a)pyrene	1,000	1,000	< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Benzo(k)fluoranthene	800	3,900	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Benzoic acid			< 1900	1900	< 1800	1,800	< 1800	1800	< 1800	1,800	< 1800	1800	< 1900	1,900
Benzyl butyl phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Carbazole			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Chrysene	1,000	3,900	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Dibenz(a,h)anthracene	330	330	< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Diethyl phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Dimethylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Di-n-butylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Di-n-octylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Fluoranthene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Fluorene	30,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Hexachlorobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Hexachlorobutadiene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Hexachloroethane			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Isophorone			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Naphthalene	12,000	100,000	**4,000**	260	< 250	250	**3,800**	250	**420**	250	**5,300**	260	**2,500**	260
Nitrobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodimethylamine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Pentachloronitrobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 220	220	< 220	220	< 220	220	< 220	220
Phenanthrene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Phenol	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Pyrene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260
Pyridine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260	< 260	260

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 15. Source Area and Hotspot Endpoint Sample Results - Semi-Volatile Organic Compounds

Semivolatiles By SW8270D	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP23 14' 12/30/2016 µg/Kg		EP23N 14' 1/4/2017 µg/Kg		EP25 15' 1/4/2017 µg/Kg		EP26 14' 1/4/2017 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 270	270	< 250	250	< 260	260
1,2,4-Trichlorobenzene			< 250	250	< 270	270	< 250	250	< 260	260
1,2-Dichlorobenzene			< 250	250	< 270	270	< 250	250	< 260	260
1,2-Diphenylhydrazine			< 250	250	< 270	270	< 250	250	< 260	260
1,3-Dichlorobenzene			< 250	250	< 270	270	< 250	250	< 260	260
1,4-Dichlorobenzene			< 250	250	< 270	270	< 250	250	< 260	260
2,4,5-Trichlorophenol			< 250	250	< 270	270	< 250	250	< 260	260
2,4,6-Trichlorophenol			< 180	180	< 190	190	< 180	180	< 180	180
2,4-Dichlorophenol			< 180	180	< 190	190	< 180	180	< 180	180
2,4-Dimethylphenol			< 250	250	< 270	270	< 250	250	< 260	260
2,4-Dinitrophenol			< 250	250	< 270	270	< 250	250	< 260	260
2,4-Dinitrotoluene			< 180	180	< 190	190	< 180	180	< 180	180
2,6-Dinitrotoluene			< 180	180	< 190	190	< 180	180	< 180	180
2-Chloronaphthalene			< 250	250	< 270	270	< 250	250	< 260	260
2-Chlorophenol			< 250	250	< 270	270	< 250	250	< 260	260
2-Methylnaphthalene			**4,600**	250	**1,500**	270	**5,100**	250	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 270	270	< 250	250	< 260	260
2-Nitroaniline			< 250	250	< 270	270	< 250	250	< 260	260
2-Nitrophenol			< 250	250	< 270	270	< 250	250	< 260	260
3&4-Methylphenol (m&p-cresol)	330	100,000	< 250	250	< 270	270	< 250	250	< 260	260
3,3'-Dichlorobenzidine			< 180	180	< 190	190	< 180	180	< 180	180
3-Nitroaniline			< 360	360	< 380	380	< 350	350	< 370	370
4,6-Dinitro-2-methylphenol			< 220	220	< 230	230	< 210	210	< 220	220
4-Bromophenyl phenyl ether			< 250	250	< 270	270	< 250	250	< 260	260
4-Chloro-3-methylphenol			< 250	250	< 270	270	< 250	250	< 260	260
4-Chloroaniline			< 290	290	< 300	300	< 280	280	< 290	290
4-Chlorophenyl phenyl ether			< 250	250	< 270	270	< 250	250	< 260	260
4-Nitroaniline			< 360	360	< 380	380	< 350	350	< 370	370
4-Nitrophenol			< 360	360	< 380	380	< 350	350	< 370	370
Acenaphthene	20,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Acenaphthylene	100,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Acetophenone			< 250	250	< 270	270	< 250	250	< 260	260
Aniline			< 290	290	< 300	300	< 280	280	< 290	290
Anthracene	100,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Benz(a)anthracene	1,000	1,000	< 250	250	< 270	270	< 250	250	< 260	260
Benzidine			< 360	360	< 380	380	< 350	350	< 370	370
Benzo(a)pyrene	1,000	1,000	< 180	180	< 190	190	< 180	180	< 180	180
Benzo(b)fluoranthene	1,000	1,000	< 250	250	< 270	270	< 250	250	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Benzo(k)fluoranthene	800	3,900	< 250	250	< 270	270	< 250	250	< 260	260
Benzoic acid			< 1800	1800	< 1900	1,900	< 1800	1,800	< 1800	1,800
Benzyl butyl phthalate			< 250	250	< 270	270	< 250	250	< 260	260
Bis(2-chloroethoxy)methane			< 250	250	< 270	270	< 250	250	< 260	260
Bis(2-chloroethyl)ether			< 180	180	< 190	190	< 180	180	< 180	180
Bis(2-chloroisopropyl)ether			< 250	250	< 270	270	< 250	250	< 260	260
Bis(2-ethylhexyl)phthalate			< 250	250	< 270	270	< 250	250	< 260	260
Carbazole			< 180	180	< 190	190	< 180	180	< 180	180
Chrysene	1,000	3,900	< 250	250	< 270	270	< 250	250	< 260	260
Dibenz(a,h)anthracene	330	330	< 180	180	< 190	190	< 180	180	< 180	180
Dibenzofuran	7,000	59,000	< 250	250	< 270	270	< 250	250	< 260	260
Diethyl phthalate			< 250	250	< 270	270	< 250	250	< 260	260
Dimethylphthalate			< 250	250	< 270	270	< 250	250	< 260	260
Di-n-butylphthalate			< 250	250	< 270	270	< 250	250	< 260	260
Di-n-octylphthalate			< 250	250	< 270	270	< 250	250	< 260	260
Fluoranthene	100,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Fluorene	30,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Hexachlorobenzene			< 180	180	< 190	190	< 180	180	< 180	180
Hexachlorobutadiene			< 250	250	< 270	270	< 250	250	< 260	260
Hexachlorocyclopentadiene			< 250	250	< 270	270	< 250	250	< 260	260
Hexachloroethane			< 180	180	< 190	190	< 180	180	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	< 250	250	< 270	270	< 250	250	< 260	260
Isophorone			< 180	180	< 190	190	< 180	180	< 180	180
Naphthalene	12,000	100,000	**7,800**	1300	**1,700**	270	**6,200**	250	**110**	260
Nitrobenzene			< 180	180	< 190	190	< 180	180	< 180	180
N-Nitrosodimethylamine			< 250	250	< 270	270	< 250	250	< 260	260
N-Nitrosodi-n-propylamine			< 180	180	< 190	190	< 180	180	< 180	180
N-Nitrosodiphenylamine			< 250	250	< 270	270	< 250	250	< 260	260
Pentachloronitrobenzene			< 250	250	< 270	270	< 250	250	< 260	260
Pentachlorophenol	800	6,700	< 220	220	< 230	230	< 210	210	< 220	220
Phenanthrene	100,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Phenol	330	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Pyrene	100,000	100,000	< 250	250	< 270	270	< 250	250	< 260	260
Pyridine			< 250	250	< 270	270	< 250	250	< 260	260

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 16. Source Area and Hotspot Endpoint Sample Results - Metals

Metals	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP-4		EP-5		EP-6		EP-7		EP-8		EP-9		EP-10		EP-12	
			15' 12/28/2016 µg/Kg		15' 12/28/2016 µg/Kg		15' 12/28/2016 µg/Kg		15' 12/28/2016 µg/Kg		14' 12/28/2016 µg/Kg		14' 12/28/2016 µg/Kg		14' 12/28/2016 µg/Kg		14' 12/28/2016 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum																		
Antimony																		
Arsenic	13	16																
Barium	350	350																
Beryllium	7.2	14																
Cadmium	2.5	2.5																
Calcium																		
Chromium	30	180																
Cobalt																		
Copper	50	270																
Iron																		
Lead	63	400	**48.1**	0.7	**11.8**	0.8	**18**	0.7	**11**	0.7	**5.8**	0.7	**4.7**	0.8	**17.4**	0.7	**6.6**	0.8
Magnesium																		
Manganese	1,600	2,000																
Mercury	0.18	0.81																
Nickel	30	140																
Potassium																		
Selenium	3.9	36																
Silver	2	36																
Sodium																		
Thallium																		
Vanadium																		
Zinc	109	2,200																

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 16. Source Area and Hotspot Endpoint Sample Results - Metals

Metals	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP12N 14' 1/4/20127 µg/Kg		EP13 15' 12/30/2016 µg/Kg		EP14 14' 12/30/2016 µg/Kg		EP15 14' 12/30/2016 µg/Kg		EP16 14' 12/30/2016 µg/Kg		EP17 14' 12/30/2016 µg/Kg		EP-18 15' 12/30/2016 µg/Kg		EP19 14' 12/30/2016 µg/Kg		EP21 14' 12/30/2016 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum																				
Antimony																				
Arsenic	13	16																		
Barium	350	350																		
Beryllium	7.2	14																		
Cadmium	2.5	2.5																		
Calcium																				
Chromium	30	180																		
Cobalt																				
Copper	50	270																		
Iron																				
Lead	63	400	**5**	0.8	**4.9**	0.7	**4.9**	0.7	**6.1**	0.8	**4.5**	0.7	**5.5**	0.7	**17.8**	0.7	**9.9**	0.8	**13.9**	0.8
Magnesium																				
Manganese	1,600	2,000																		
Mercury	0.18	0.81																		
Nickel	30	140																		
Potassium																				
Selenium	3.9	36																		
Silver	2	36																		
Sodium																				
Thallium																				
Vanadium																				
Zinc	109	2,200																		

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Obje

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC U

Bold/highlighted- Indicated exceedance of the NYSDEC R

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 16. Source Area and Hotspot Endpoint Sample Results - Metals

Metals	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP21S 14' 1/4/20127 µg/Kg		EP22 14' 12/30/2016 µg/Kg		EP22E 14' 1/4/20127 µg/Kg		EP23 14' 12/30/2016 µg/Kg		EP23N 14' 1/4/20127 µg/Kg		EP25 15' 1/4/20127 µg/Kg		EP26 11' 1/4/20127 µg/Kg		EP27 11' 1/4/20127 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum																		
Antimony																		
Arsenic	13	16																
Barium	350	350																
Beryllium	7.2	14																
Cadmium	2.5	2.5																
Calcium																		
Chromium	30	180																
Cobalt																		
Copper	50	270																
Iron																		
Lead	63	400	**8.7**	0.7	**15.4**	0.8	**13.2**	0.8	**24.4**	0.8	**19.4**	0.7	**18.1**	0.7	**3.7**	0.8	**18.1**	0.8
Magnesium																		
Manganese	1,600	2,000																
Mercury	0.18	0.81																
Nickel	30	140																
Potassium																		
Selenium	3.9	36																
Silver	2	36																
Sodium																		
Thallium																		
Vanadium																		
Zinc	109	2,200																

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Obje

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC U

Bold/highlighted- Indicated exceedance of the NYSDEC R

Former Getty Service Station #00564
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Table 17. Site-Wide Endpoint Sample Results - VOCs

VOCs by SW8260C	NYSDEC Part 375.6 Protection of GW Cleanup Objectives*	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EPS 2		EP S3		EP11		EP20		EP24		EP27	
				1' 10/25/2016 µg/Kg		11' 12/15/2016 µg/Kg		11' 12/20/2016 µg/Kg		3' 10/25/2016 µg/Kg		1' 10/25/2016 µg/Kg		11' 12/30/2016 µg/Kg		11' 12/30/2016 µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane				< 14	14	< 16	16	< 17	17	< 11	11	< 14	14	< 16	16	< 2200	2,200
1,1,1-Trichloroethane	680	680	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,1,2,2-Tetrachloroethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,1,2-Trichloroethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,1-Dichloroethane	270	270	26,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 270	270
1,1-Dichloroethene	330	330	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 330	330
1,2,3-Trichlorobenzene				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,2,4-Trichlorobenzene				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,2,4-Trimethylbenzene	3,600	3,600	52,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	**22,000**	500
1,2-Dibromo-3-chloropropane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,2-Dibromomethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,2-Dichlorobenzene	1,100	1,100	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,2-Dichloroethane	20	20	3,100	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 54	54
1,2-Dichloropropane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,3-Dichlorobenzene	2,400	2,400	4,900	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,3,5-Trimethylbenzene	8,400	8,400	52,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	**7,300**	500
1,4-Dichlorobenzene	1,800	1,800	13,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
1,4- Dioxane	100			< 52	52	< 58	58	< 65	65	< 42	42	< 51	51	< 61	61	< 4400	4,400
2-Hexanone (Methyl Butyl Ketone)				< 17	17	< 19	19	< 22	22	< 14	14	< 17	17	< 20	20	< 2700	2,700
4-Methyl-2-Pentanone				< 17	17	< 19	19	< 22	22	< 14	14	< 17	17	< 20	20	< 2700	2,700
Acetone	50	50	100,000	< 17	17	< 19	19	**7.6**	22	< 14	14	< 17	17	**42**	20	**1,600**	540
Acrolein				< 14	14	< 16	16	< 17	17	< 11	11	< 14	14	< 16	16	< 2200	2,200
Acrylonitrile				< 14	14	< 16	16	< 17	17	< 11	11	< 14	14	< 16	16	< 2200	2,200
Benzene	60	60	4,800	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 60	60
Bromochloromethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Bromodichloromethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Bromoform				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Bromomethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Carbon Disulfide				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Carbon tetrachloride	760	760	2,400	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Chlorobenzene	1,100	1,100	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Chloroethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Chloroform	370	370	49,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 370	370
Chloromethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
cis-1,2-Dichloroethene	250	250	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 250	250
cis-1,3-Dichloropropene				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Cyclohexane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Dibromochloromethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Dichlorodifluoromethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Ethylbenzene	1,000	1,000	41,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	**1.6**	4.0	**7,600**	540
Isopropylbenzene				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	**1,500**	540
m&p-Xylenes				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	**4**	4.0	**25,000**	540
Methyl Ethyl Ketone (2-Butanone)	120	120	100,000	< 21	21	< 23	23	< 26	26	< 17	17	< 20	20	< 24	24	< 540	540
Methyl t-butyl ether (MTBE)	930	930	100,000	< 7.0	7.0	< 7.8	7.8	< 8.7	8.7	< 5.6	5.6	< 6.8	6.8	< 8.1	8.1	< 930	930
Methylacetate				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Methylcyclohexane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	**2**	4.0	**2,800**	540
Methylene chloride	50	50	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
n-Butylbenzene	12,000	12,000	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	**1,600**	500
n-Propylbenzene	3,900	3,900	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	**4,000**	500
o-Xylene				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	**0.99**	4.0	**8,100**	540
sec-Butylbenzene	11,000	11,000	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	**1.3**	4.0	**740**	
Styrene				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Tetrachloroethene	1,300	1,300	19,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Tert-butyl alcohol				< 70	70	< 78	78	< 87	87	< 56	56	< 68	68	< 81	81	< 11000	11,000
Toluene	700	700	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	**570**	540
Total Xylenes	1,600	260	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	**4.99**	4.0	**33,100**	540
trans-1,2-Dichloroethene	119	190	100,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 190	190
trans-1,3-Dichloropropene				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Trichloroethene	470	470	21,000	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 470	470
Trichlorofluoromethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Trichlorotrifluoroethane				< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 540	540
Vinyl Chloride	**20**	20	900	< 3.5	3.5	< 3.9	3.9	< 4.3	4.3	< 2.8	2.8	< 3.4	3.4	< 4.0	4.0	< 54	54
Total BTEX Concentration				**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**6.6**		**41,270.0**	
Total VOCs Concentration				**0.0**		**0.0**		**7.6**		**0.0**		**0.0**		**56.9**		**82,810.0**	

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC GWP Guidance Value for VOCs

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 17. Site-Wide Endpoint Sample Results - VOCs

VOCs by SW8260C	NYSDEC Part 375.6 Protection of GW Cleanup Objectives*	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP28		EP28 (2)		EP29		EP30		EP31		EP32		Duplicate (EP31)	
				11'		13'		11'		11'		11'		11'		11'	
				1/6/2017		1/13/2017		2/14/2017		2/23/2017		3/8/2017		2/14/2017		2/23/2017	
				µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane				< 4000	4,000	< 1400	1,400	< 15	15	< 17	17	< 32	32	< 11	11	< 37	37
1,1,1-Trichloroethane	680	680	100,000	< 680	680	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,1,2,2-Tetrachloroethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,1,2-Trichloroethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,1-Dichloroethane	270	270	26,000	< 270	270	< 270	270	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,1-Dichloroethene	330	330	100,000	< 330	330	< 330	330	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2,3-Trichlorobenzene				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2,4-Trichlorobenzene				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2,4-Trimethylbenzene	3,600	3,600	52,000	48,000	1,000	1,300	250	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2-Dibromo-3-chloropropane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2-Dibromomethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2-Dichlorobenzene	1,100	1,100	100,000	< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2-Dichloroethane	20	20	3,100	< 100	100	< 36	36	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,2-Dichloropropane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,3-Dichlorobenzene	2,400	2,400	4,900	< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,3,5-Trimethylbenzene	8,400	8,400	52,000	17,000	1,000	200	250	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,4-Dichlorobenzene	1,800	1,800	13,000	< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
1,4- Dioxane	100			<8100	8,100	< 2900	2,900	<57	57	<63	63	<100	100	<42	42	<100	100
2-Hexanone (Methyl Butyl Ketone)				< 5000	5,000	< 1800	1,800	< 19	19	< 21	21	< 40	40	< 14	14	< 46	46
4-Methyl-2-Pentanone				< 5000	5,000	< 1800	1,800	< 19	19	< 21	21	< 40	40	< 14	14	< 46	46
Acetone	50	50	100,000	< 1000	1,000	< 360	360	< 19	19	6.9	21	< 40	40	< 14	14	22	46
Acrolein				< 4000	4,000	< 1400	1,400	< 15	15	< 17	17	< 32	32	< 11	11	< 37	37
Acrylonitrile				< 4000	4,000	< 1400	1,400	< 15	15	< 17	17	< 32	32	< 11	11	< 37	37
Benzene	60	60	4,800	< 100	100	< 60	60	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Bromochloromethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Bromodichloromethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Bromoform				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Bromomethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Carbon Disulfide				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Carbon tetrachloride	760	760	2,400	< 760	760	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Chlorobenzene	1,100	1,100	100,000	< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Chloroethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Chloroform	370	370	49,000	< 370	370	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Chloromethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
cis-1,2-Dichloroethene	250	250	100,000	< 250	250	< 250	250	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
cis-1,3-Dichloropropene				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Cyclohexane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Dibromochloromethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Dichlorodifluoromethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Ethylbenzene	1,000	1,000	41,000	29,000	1,000	190	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Isopropylbenzene				3900	1,000	180	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
m&p-Xylenes				95000	5,000	590	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Methyl Ethyl Ketone (2-Butanone)	120	120	100,000	< 1000	1,000	< 360	360	< 23	23	< 25	25	< 48	48	< 17	17	< 56	56
Methyl t-butyl ether (MTBE)	930	930	100,000	< 930	930	< 720	720	< 7.6	7.6	< 8.4	8.4	< 16	16	< 5.6	5.6	< 19	19
Methylacetate				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Methylcyclohexane				3200	1,000	360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	1.4	2.8	< 9.3	9.3
Methylene chloride	50	50	100,000	< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
n-Butylbenzene	12,000	12,000	100,000	2,600	1,000	410	250	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.9	2.8	< 9.3	9.3
n-Propylbenzene	3,900	3,900	100,000	12,000	1,000	710	250	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	2.4	2.8	< 9.3	9.3
o-Xylene				20000	5,000	160	360	< 3.8	3.8	1	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
sec-Butylbenzene	11,000	11,000	100,000	1,100	1,000	210	250	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Styrene				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Tetrachloroethene	1,300	1,300	19,000	< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Tert-butyl alcohol				< 20000	20,000	< 7200	7,200	< 76	76	< 84	84	< 160	160	< 56	56	< 190	190
Toluene	700	700	100,000	360	700	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Total Xylenes	1,600	260	100,000	115,000	5,000	750	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
trans-1,2-Dichloroethene	119	190	100,000	< 190	190	< 190	190	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
trans-1,3-Dichloropropene				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Trichloroethene	470	470	21,000	< 470	470	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Trichlorofluoromethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Trichlorotrifluoroethane				< 1000	1,000	< 360	360	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Vinyl Chloride	20	20	900	< 100	100	< 36	36	< 3.8	3.8	< 4.2	4.2	< 7.9	7.9	< 2.8	2.8	< 9.3	9.3
Total BTEX Concentration				144,360.0		940.0		0.0		1.0		0.0		0.0		0.0	
Total VOCs Concentration				232,160.0		4,310.0		0.0		7.9		0.0		3.8		22.0	

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC GWP Guidance Value for VOCs

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 18. Site-Wide Endpoint Sample Results - SVOCs

Semivolatiles By SW8270D	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EPS 2		EP S3		EP11		EP20		EP24		EP27	
			1' 10/25/2016 µg/Kg		11' 12/15/2016 µg/Kg		11' 12/20/2016 µg/Kg		3' 10/25/2016 µg/Kg		1' 10/25/2016 µg/Kg		12/30/2016 µg/Kg		11' 1/4/2017 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
1,2,4-Trichlorobenzene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
1,2-Dichlorobenzene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
1,2-Diphenylhydrazine			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
1,3-Dichlorobenzene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
1,4-Dichlorobenzene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2,4,5-Trichlorophenol			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2,4,6-Trichlorophenol			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dichlorophenol			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dimethylphenol			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2,4-Dinitrophenol			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2,4-Dinitrotoluene			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,6-Dinitrotoluene			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2-Chloronaphthalene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2-Chlorophenol			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2-Methylnaphthalene			< 260	260	< 370	370	< 250	250	< 260	260	< 250	250	< 260	260	**1,700**	270
2-Methylphenol (o-cresol)	330	100,000	< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2-Nitroaniline			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
2-Nitrophenol			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
3,3'-Dichlorobenzidine			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
3-Nitroaniline			< 380	380			< 360	360	< 370	370	< 360	360	< 370	370	< 380	380
4,6-Dinitro-2-methylphenol			< 230	230			< 220	220	< 220	220	< 220	220	< 220	220	< 230	230
4-Bromophenyl phenyl ether			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
4-Chloro-3-methylphenol			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
4-Chloroaniline			< 300	300			< 290	290	< 300	300	< 290	290	< 300	300	< 310	310
4-Chlorophenyl phenyl ether			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
4-Nitroaniline			< 380	380			< 360	360	< 370	370	< 360	360	< 370	370	< 380	380
4-Nitrophenol			< 380	380			< 360	360	< 370	370	< 360	360	< 370	370	< 380	380
Acenaphthene	20,000	100,000	< 260	260	< 370	370	< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Acenaphthylene	100,000	100,000	< 260	260	< 370	370	< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Acetophenone			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Aniline			< 300	300			< 290	290	< 300	300	< 290	290	< 300	300	< 310	310
Anthracene	100,000	100,000	**160**	260	< 370	370	< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Benz(a)anthracene	1,000	1,000	**590**	260	< 370	370	< 250	250	**310**	260	**490**	250	< 260	260	< 270	270
Benzidine			< 380	380			< 360	360	< 370	370	< 360	360	< 370	370	< 380	380
Benzo(a)pyrene	1,000	1,000	**720**	190	< 370	370	< 180	180	**340**	180	**480**	180	< 180	180	< 190	190
Benzo(b)fluoranthene	1,000	1,000	**640**	260	< 370	370	< 250	250	**350**	260	**420**	250	< 260	260	< 270	270
Benzo(ghi)perylene	100,000	100,000	**490**	260	< 370	370	< 250	250	**230**	260	**260**	250	< 260	260	< 270	270
Benzo(k)fluoranthene	800	3,900	**560**	260	< 370	370	< 250	250	**260**	260	**430**	250	< 260	260	< 270	270
Benzoic acid			< 1900	1,900			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1900	1,900
Benzyl butyl phthalate			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Bis(2-chloroethoxy)methane			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Bis(2-chloroethyl)ether			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Bis(2-chloroisopropyl)ether			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Bis(2-ethylhexyl)phthalate			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Carbazole			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Chrysene	1,000	3,900	**770**	260	< 370	370	< 250	250	**370**	260	**540**	250	< 260	260	< 270	270
Dibenz(a,h)anthracene	330	330	< 190	190	< 330	330	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Dibenzofuran	7,000	59,000	< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Diethyl phthalate			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Dimethylphthalate			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Di-n-butylphthalate			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Di-n-octylphthalate			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Fluoranthene	100,000	100,000	**960**	260	< 370	370	< 250	250	**610**	260	**910**	250	< 260	260	**140**	270
Fluorene	30,000	100,000	< 260	260	< 370	370	< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Hexachlorobenzene			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Hexachlorobutadiene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Hexachlorocyclopentadiene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Hexachloroethane			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	**520**	260	< 370	370	< 250	250	**240**	260	**310**	250	< 260	260	< 270	270
Isophorone			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Naphthalene	12,000	100,000	< 260	260	< 370	370	< 250	250	< 260	260	< 250	250	< 260	260	**2,000**	270
Nitrobenzene			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodimethylamine			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
N-Nitrosodi-n-propylamine			< 190	190			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodiphenylamine			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Pentachloronitrobenzene			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Pentachlorophenol	800	6,700	< 230	230			< 220	220	< 220	220	< 220	220	< 220	220	< 230	230
Phenanthrene	100,000	100,000	**750**	260	< 370	370	< 250	250	**400**	260	**510**	250	< 260	260	**170**	270
Phenol	330	100,000	< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270
Pyrene	100,000	100,000	**1,000**	260	< 370	370	< 250	250	**600**	260	**840**	250	< 260	260	**160**	270
Pyridine			< 260	260			< 250	250	< 260	260	< 250	250	< 260	260	< 270	270

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 18. Site-Wide Endpoint Sample Results - SVOCs

Semivolatiles By SW8270D	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP28		EP28(2)		EP29		EP30		EP31		EP32		Duplicate (EP31)	
			11' 1/6/2017 µg/Kg		13' 1/13/2017 µg/Kg		11' 2/14/2017 µg/Kg		11' 2/23/2017 µg/Kg		11' 3/8/2017 µg/Kg		11' 2/14/2017 µg/Kg		11' 2/23/2017 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
1,2-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
1,3-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
1,4-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
2,4-Dichlorophenol			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
2,4-Dimethylphenol			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2,4-Dinitrophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2,4-Dinitrotoluene			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
2,6-Dinitrotoluene			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
2-Chloronaphthalene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2-Chlorophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2-Methylnaphthalene			**2,700**	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2-Nitroaniline			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
2-Nitrophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
3-Nitroaniline			< 370	370	< 360	360	< 370	370	< 360	360	< 390	390	< 390	390	< 390	390
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 220	220	< 220	220	**110**	230	< 230	230	< 230	230
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
4-Chloroaniline			< 300	300	< 290	290	< 300	300	< 290	290	< 310	310	< 310	310	< 310	310
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
4-Nitroaniline			< 370	370	< 360	360	< 370	370	< 360	360	< 390	390	< 390	390	< 390	390
4-Nitrophenol			< 370	370	< 360	360	< 370	370	< 360	360	< 390	390	< 390	390	< 390	390
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Acetophenone			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Aniline			< 300	300	< 290	290	< 300	300	< 290	290	< 310	310	< 310	310	< 310	310
Anthracene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Benz(a)anthracene	1,000	1,000	< 260	260	< 250	250	230	260	< 250	250	< 270	270	< 270	270	< 270	270
Benzidine			< 370	370	< 360	360	< 370	370	< 360	360	< 390	390	< 390	390	< 390	390
Benzo(a)pyrene	1,000	1,000	< 190	190	< 180	180	170	190	< 180	180	< 190	190	< 200	200	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 260	260	< 250	250	200	260	< 250	250	< 270	270	< 270	270	< 270	270
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 250	250	340	260	< 250	250	< 270	270	< 270	270	< 270	270
Benzo(k)fluoranthene	800	3,900	< 260	260	< 250	250	170	260	< 250	250	< 270	270	< 270	270	< 270	270
Benzoic acid			< 1900	1900	< 1800	1,800	< 1900	1900	< 1800	1800	< 1900	1900	< 2000	2000	< 1900	1900
Benzyl butyl phthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Carbazole			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
Chrysene	1,000	3,900	< 260	260	< 250	250	250	260	< 250	250	< 270	270	< 270	270	< 270	270
Dibenz(a,h)anthracene	330	330	< 190	190	< 180	180	120	190	< 180	180	< 190	190	< 200	200	< 190	190
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Diethyl phthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Dimethylphthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Di-n-butylphthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Di-n-octylphthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Fluoranthene	100,000	100,000	< 260	260	< 250	250	420	260	< 250	250	< 270	270	< 270	270	< 270	270
Fluorene	30,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Hexachlorobenzene			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
Hexachlorobutadiene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Hexachloroethane			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 250	250	280	260	< 250	250	< 270	270	< 270	270	< 270	270
Isophorone			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
Naphthalene	12,000	100,000	**5,200**	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Nitrobenzene			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
N-Nitrosodimethylamine			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 190	190	< 180	180	< 190	190	< 200	200	< 190	190
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Pentachloronitrobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 220	220	< 220	220	< 230	230	< 230	230	< 230	230
Phenanthrene	100,000	100,000	< 260	260	< 250	250	260	260	< 250	250	< 270	270	< 270	270	< 270	270
Phenol	330	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270
Pyrene	100,000	100,000	< 260	260	< 250	250	380	260	< 250	250	< 270	270	< 270	270	< 270	270
Pyridine			< 260	260	< 250	250	< 260	260	< 250	250	< 270	270	< 270	270	< 270	270

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 19. Site-Wide Endpoint Sample Results - Metals

Metals	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EPS 2		EP S3		EP11		EP20		EP24		EP27		EP28		EP28(2)		EP29		EP30		EP31		EP32		Duplicate (EP31)	
			1' 10/25/2016 µg/Kg		11' 12/15/2016 µg/Kg		11' 12/20/2016 µg/Kg		3' 10/25/2016 µg/Kg		1' 10/25/2016 µg/Kg		11' 12/30/2016 µg/Kg		11' 1/4/20127 µg/Kg		11' 1/6/20127 µg/Kg		11' 1/13/2017 µg/Kg		11' 2/14/2017 µg/Kg		11' 2/23/2017 µg/Kg		11' 3/8/2017 µg/Kg		11' 2/14/2017 µg/Kg		11' 2/23/2017 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum																														
Antimony																														
Arsenic	13	16																												
Barium	350	350																												
Beryllium	7.2	14																												
Cadmium	2.5	2.5																												
Calcium																														
Chromium	30	180																												
Cobalt																														
Copper	50	270																												
Iron																														
Lead	63	400	**185**	7.0	**24.2**	0.8	**8.7**	0.7	**52.1**	0.7	**253**	7.5	**4.9**	0.7	**18.1**	0.8	**18**	0.8	**6.5**	0.7	**78.8**	0.7	**5.1**	0.7	**6.47**	0.38	**19.2**	0.7	**7**	0.37
Magnesium																														
Manganese	1,600	2,000																												
Mercury	0.18	0.81																												
Nickel	30	140																												
Potassium																														
Selenium	3.9	36																												
Silver	2	36																												
Sodium																														
Thallium																														
Vanadium																														
Zinc	109	2,200																												

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 20
Remaining Parameters in Soil Above SCOs

COMPOUND (ug/Kg)	NYSDEC Part 375.6 GW Protection Soil Cleanup	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives	B1308 4/1/2014 (45-47')	EP1 10/25/2016 (1')	EP4 12/28/2016 (15')	EP5 12/28/2016 (15')	EP6 12/28/2016 (15')	EP8 12/28/2016 (14')	EP9 12/28/2016 (14')	EP10 12/28/2016 (14')	EP12 12/28/2016 (14')	EP18 12/30/2016 (15')
1,2,4-Trimethylbenzene	3,600	3,600	52,000	280,000	21,000	-	13,000	40,000	6,200	-	21,000	120,000	120,000
1,3,5-Trimethylbenzene	8,400	8,400	52,000	76,000	-	-	12,000	17,000	-	-	-	35,000	35,000
Acetone	50	50	100,000	-	-	-	-	-	-	-	-	-	-
Benzene	60	60	4,800	-	-	-	-	320	-	-	75	-	-
Ethylbenzene	1,000	1,000	41,000	41,000	-	8,300	16,000	40,000	2,100	-	13,000	49,000	30,000
Indeno(1,2,3-cd)pyrene	500	500	500	-	520	-	-	-	-	-	-	-	-
Lead	63	63	400	-	185	-	-	-	-	-	-	-	-
Naphthalene	-	12,000	100,000	47,000	-	-	-	-	-	-	-	-	-
n-Butylbenzene	12,000	12,000	100,000	17,000	-	-	-	-	-	-	-	-	-
n-Propylbenzene	3,900	3,900	100,000	47,000	-	-	9,800	12,000	-	-	6,300	23,000	-
Toluene	700	700	100,000	-	-	-	-	910	-	-	-	-	-
Total Xylenes	1,600	260	100,000	135,000	-	47,000	58,000	142,000	9,400	576	23,800	156,000	113,000

COMPOUND (ug/Kg)	NYSDEC Part 375.6 GW Protection Soil	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup	NYDEC Part 375.6 Restricted Residential Soil	EP19 12/30/2016 (14')	EP20 10/25/2016 (1')	EP21 12/30/2016 (14')	EP21S 1/4/2017 (14')	EP22 12/30/2016 (14')	EP22E 1/4/2017 (14')	EP23 12/30/2016 (14')	EP23N 1/4/2017 (14')	EP25 1/4/2017 (15')	EP27 1/4/2017 (11')	EP29 2/14/2017 (11')
1,2,4-Trimethylbenzene	3,600	3,600	52,000	9,900	-	59,000	-	64,000	-	350,000	37,000	66,000	22,000	-
1,3,5-Trimethylbenzene	8,400	8,400	52,000	-	-	34,000	-	38,000	-	120,000	12,000	20,000	-	-
Acetone	50	50	100,000	-	-	-	-	-	-	-	910	5,300	1,600	-
Benzene	60	60	4,800	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	1,000	1,000	41,000	-	-	96,000	-	130,000	9,900	220,000	21,000	23,000	7,600	-
Indeno(1,2,3-cd)pyrene	500	500	500	-	-	-	-	-	-	-	-	-	-	
Lead	63	63	400	-	253	-	-	-	-	-	-	-	-	79
Naphthalene	-	12,000	100,000	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	12,000	12,000	100,000	-	-	-	-	-	-	14,000	-	-	-	-
n-Propylbenzene	3,900	3,900	100,000	-	-	29,000	11,000	32,300	-	76,000	9,300	13,000	-	-
Toluene	700	700	100,000	-	-	-	-	1,600	-	-	-	-	4,000	-
Total Xylenes	1,600	260	100,000	560	-	328,000	328,000	580,000	16,800	990,000	51,500	71,000	33,100	-

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC GWP Guidance Value for VOCs

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Former Getty Service Station #00564
1107 Dekalb Avenue, Brooklyn NY

Table 21 - Groundwater Analytical Sample Results - VOCs and Ferric Iron

Volatiles By SW8260C	TOGS-WQ/GA	MW 1401 8/17/2016 ug/L		MW1401 11/9/2016 ug/L		MW1401 12/11/2017 ug/L		MW 1402 8/17/2016 ug/L		MW1402 11/9/2016 ug/L		MW 1402 12/11/2017 ug/L		MW 1403 8/17/2016 ug/L		MW1403 11/9/2016 ug/L		MW1403 12/11/2017 ug/L		DUP (MW1402) 11/9/2016 ug/L		DUP (MW1402) 12/11/2017 ug/L	
		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	5	ND	5.0	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
1,1,1-Trichloroethane	5	ND	5.0	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	ND	5.0	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
1,1,2-Trichloroethane	1	ND	1.3	ND	ND	< 1.0	1.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 1.3	1.3	ND	5.0	< 5.0	5.0
1,1-Dichloroethane	5	ND	5.0	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
1,1-Dichloroethene	5	ND	5.0	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
1,1-Dichloropropene	5	ND	5.0	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
1,2,3-Trichlorobenzene		ND	5.0	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 20	20	ND	ND	ND	ND	< 5.0	5.0	ND	20	< 20	20
1,2,3-Trichloropropane	0.04	ND	1.3	ND	ND	< 0.50	0.50	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 1.3	1.3	ND	5.0	< 5.0	5.0
1,2,4-Trichlorobenzene		ND	5.0	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 20	20	ND	ND	ND	ND	< 5.0	5.0	ND	20	< 20	20
1,2,4-Trimethylbenzene	5	**160**	20	**0.62**	1.0	**43**	2.0	**2,900**	200	**2,000**	50	**1,600**	100	**130**	5.0	**240**	6.3	< 5.0	5.0	**1,700**	25	**1,400**	100
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	< 1.0	1.0	ND	ND	ND	ND	< 10	10	ND	ND	ND	ND	< 2.5	2.5	ND	10	< 10	10
1,2-Dibromoethane	0.0006	ND	ND	ND	ND	< 0.50	0.50	ND	ND	ND	ND	< 5.0	5.0	ND		ND	ND	< 1.3	1.3	ND	5.0	< 5.0	5.0
1,2-Dichlorobenzene		ND	ND	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 4.7	4.7	ND	5.0	< 5.0	5.0
1,2-Dichloroethane	0.6	ND	ND	ND	ND	< 1.0	1.0	ND	ND	ND	ND	< 10	10	ND	ND	ND	ND	< 2.5	2.5	ND	10	< 10	10
1,2-Dichloropropane	1	ND	ND	ND	ND	< 1.0	1.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 1.3	1.3	ND	5.0	< 5.0	5.0
1,3,5-Trimethylbenzene	5	**38**	5.0	ND	1.0	**12**	2.0	**460**	20	**410**	5.0	**290**	20	**18**	5.0	**57**	5.0	< 5.0	5.0	**380**	5.0	**270**	20
1,3-Dichlorobenzene	3	ND	2.5	ND	1.0	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 3.0	3.0	ND	5.0	< 5.0	5.0
1,3-Dichloropropane	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
1,4-Dichlorobenzene		ND	2.5	ND	1.0	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
2,2-Dichloropropane	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
2-Chlorotoluene	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
2-Hexanone	50	ND	13	ND	2.5	< 5.0	5.0	ND	ND	ND	ND	< 50	50	ND	ND	ND	ND	< 13	13	ND	50	< 50	50
2-Isopropyltoluene	5	ND	5.0	ND	1.0	**1.4**	2.0	**5.8**	20	ND	5.0	< 5.0	5.0	**1.3**	5.0	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
4-Chlorotoluene	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
4-Methyl-2-pentanone		ND	13	ND	2.5	< 5.0	5.0	ND	50	ND	50	< 50	50	ND	13	ND	ND	< 13	13	ND	50	< 50	50
Acetone	50	ND	25	ND	5.0	< 10	10	ND	50	ND	50	< 50	50	ND	25	**46**	25	< 25	25	ND	50	< 50	50
Acrolein	5	ND	5.0	ND	5.0	< 5.0	5.0	ND	50	ND	50	< 50	50	ND	5.0	ND	13	< 13	13	ND	50	< 50	50
Acrylonitrile	5	ND	5.0	ND	5.0	< 5.0	5.0	ND	5	ND	50	< 50	50	ND	5.0	ND	13	< 13	13	ND	50	< 50	50
Benzene	1	ND	1.3	ND	0.70	< 0.70	0.70	**19**	14	**23**	5.0	**20**	14	ND	1.3	ND	1.3	< 1.3	1.3	**24**	5.0	**18**	14
Bromobenzene	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Bromochloromethane	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Bromodichloromethane	50	ND	5.0	ND	1.0	< 2.0	2.0	ND	20	ND	20	< 20	20	ND	5.0	ND	5.0	< 5.0	5.0	ND	20	< 20	20
Bromoform	50	ND	25	ND	5.0	< 10	10	ND	50	ND	50	< 50	50	ND	25	ND	25	< 25	25	ND	50	< 50	50
Bromomethane	5	ND	5.0	ND	5.0	< 5.0	5.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Carbon Disulfide		**1.5**	5.0	ND	1.0	< 2.0	2.0	ND	20	**7.7**	20	< 20	20	ND	5.0	ND	5.0	< 5.0	5.0	**11**	20	< 20	20
Carbon tetrachloride	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Chlorobenzene	5	ND	5.0	ND	5.0	< 5.0	5.0	ND	5	ND	5.0	< 5.0	5.0	ND	2.5	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Chloroethane	5	ND	5.0	ND	5.0	< 5.0	5.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Chloroform	7	ND	5.0	**1.8**	5.0	**31**	10	ND	5	ND	7.0	< 7.0	7.0	ND	5.0	ND	7.0	< 7.0	7.0	ND	7.0	< 7.0	7.0
Chloromethane	5	ND	5.0	ND	5.0	< 5.0	5.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**1.9**	5.0	**0.35**	1.0	< 2.0	2.0	**69**	20	**140**	5.0	**87**	20	**2.3**	5.0	**5.9**	5.0	**2.2**	5.0	**140**	5.0	**81**	20
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	< 0.50	0.50	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 1.3	1.3	ND	5.0	< 5.0	5.0
Dibromochloromethane	50	ND	ND	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 20	20	ND	ND	ND	ND	< 5.0	5.0	ND	20	< 20	20
Dibromomethane	5	ND	ND	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
Dichlorodifluoromethane	5	ND	ND	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	< 5.0	5.0
Ethylbenzene	5	**760**	50	**4.2**	1.0	**18**	2.0	**1,600**	100	**1,600**	50	**1,700**	100	**130**	5.0	**420**	6.3	**8.7**	5.0	**1,400**	25	**1,500**	100
Hexachlorobutadiene	0.5	ND	ND	ND	ND	< 0.50	0.50	ND	ND	ND	ND	< 4.0	4.0	ND	ND	ND	ND	< 1.0	1.0	ND	4.0	< 4.0	4.0
Isopropylbenzene	5	**43**	5.0	**0.84**	1.0	**20**	2.0	**170**	20	**160**	5.0	**140**	20	**22**	5.0	**31**	5.0	**4**	5.0	**150**	5.0	**130**	20
m&p-Xylene		**450**	20	**0.79**	1.0	**17**	2.0	**2,500**	100	**2,400**	200	**1,700**	100	**240**	5.0	**960**	25	< 5.0	5.0	**2,000**	100	**1,500**	100
Methyl ethyl ketone	50	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 50	50	ND	ND	ND	ND	< 13	13	ND	50	< 50	50
Methyl t-butyl ether (MTBE)		ND	ND	ND	ND	< 2.0	2.0	ND	ND	ND	ND	< 20	20	ND	ND	ND	ND	< 5.0	5.0	ND	20	< 20	20
Methylene chloride	5	ND	ND	ND	ND	< 5.0	5.0	ND	ND	ND	ND	< 20	20	ND	ND	ND	ND	< 5.0	5.0	ND	20	< 20	20
Naphthalene	10	**50**	5.0	ND	1.0	**8.6**	2.0	**540**	20	**500**	20	**360**	20	**14**	5.0	**43**	5.0	< 5.0	5.0	**420**	20	**340**	20
n-Butylbenzene	5	**5.2**	5.0	ND	1.0	**13**	2.0	**42**	20	**23**	5.0	**16**	20	**15**	5.0	2.9	5.0	**5.6**	5.0	**25**	5.0	**14**	20
n-Propylbenzene	5	**69**	5.0	**0.87**	1.0	**50**	2.0	**420**	20	**330**	5.0	**280**	20	**54**	5.0	**46**	5.0	**3.5**	5.0	**310**	5.0	**250**	20
o-Xylene	5	**2.3**	5.0	ND	1.0	**3.1**	2.0	**160**	20	**250**	5.0	**250**	20	**80**	5.0	**350**	6.3	< 5.0	5.0	**240**	5.0	**230**	20
p-Isopropyltoluene	5	**1.7**	5.0	ND	1.0	**3.7**	2.0	**8.2**	20	**6.2**	5.0	**5.1**	20	**5.1**	5.0	ND	5.0	**2.1**	5.0	**6.3**	5.0	< 5.0	5.0
sec-Butylbenzene	5	**4.6**	5.0	**0.28**	1.0	**9.4**	2.0	**31**	20	**21**	5.0	**15**	20	**11**	5.0	**2.9**	5.0	**9.4**	5.0	**20**	5.0	**13**	20
Styrene	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
tert-Butylbenzene	5	ND	5.0	ND	1.0	**0.84**	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Tetrachloroethene	5	ND	5.0	**1.2**	1.0	**4.6**	2.0	ND	ND	ND	ND	< 5.0	5.0	ND	5.0	**2.3**	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Tetrahydrofuran (THF)	50	ND	25	ND	5.0	< 10	10	ND	ND	ND	ND	< 50	50	ND	25	ND	25	< 25	25	ND	50	< 50	50
Toluene	5	ND	5.0	ND	1.0	**1.3**	2.0	**53**	20	**69**	5.0	**73**	20	ND	5.0	ND	5.0	< 5.0	5.0	**66**	5.0	**64**	20
trans-1,2-Dichloroethene	5	ND	5.0	ND	5.0	< 5.0	5.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	ND	1.3	ND	0.40	< 0.50	0.50	ND	5	ND	5.0	< 5.0	5.0	ND	1.3	ND	1.3	< 1.3	1.3	ND	5.0	< 5.0	5.0
trans-1,4-dichloro-2-butene	5	ND	13	ND	2.5	< 5.0	5.0	ND	5	ND	50	< 50	50	ND	5.0	ND	13	< 13	13	ND	50	< 50	50
Trichloroethene	5	**2.7**	5.0	**3.8**	1.0	**2.8**	2.0	ND	5	ND	5.0	< 5.0	5.0	**13**	5.0	**13**	5.0	**4.3**	5.0	ND	5.0	< 5.0	5.0
Trichlorofluoromethane	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Trichlorotrifluoroethane	5	ND	5.0	ND	1.0	< 2.0	2.0	ND	5	ND	5.0	< 5.0	5.0	ND	5.0	ND	5.0	< 5.0	5.0	ND	5.0	< 5.0	5.0
Vinyl chloride	2	ND	2.0	ND	1.0	< 2.0	2.0	ND	5	ND	5.0	< 5.0	5.0	ND	1.0	ND	2.0	< 2.0	2.0	ND	5.0	< 5.0	5.0
TOTAL BTEX		**112**		**1.7**		**7.5**		**590**		**490**		**420**		**76**		**77**		**70**		**460**		**380**	
TOTAL VOCs		**1391.9**		**14.1**		**39.8**		**5618**		**5529.9**		**4646.1**		**587.7**		**1923**		**184.7**		**4812.3**		**4140**	
Ferric Iron		-		**56.3**	0.03	-		-		**74.5**	0.03	-		-		**14.5**	0.03	-		**14.5**		-	

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Non Detect

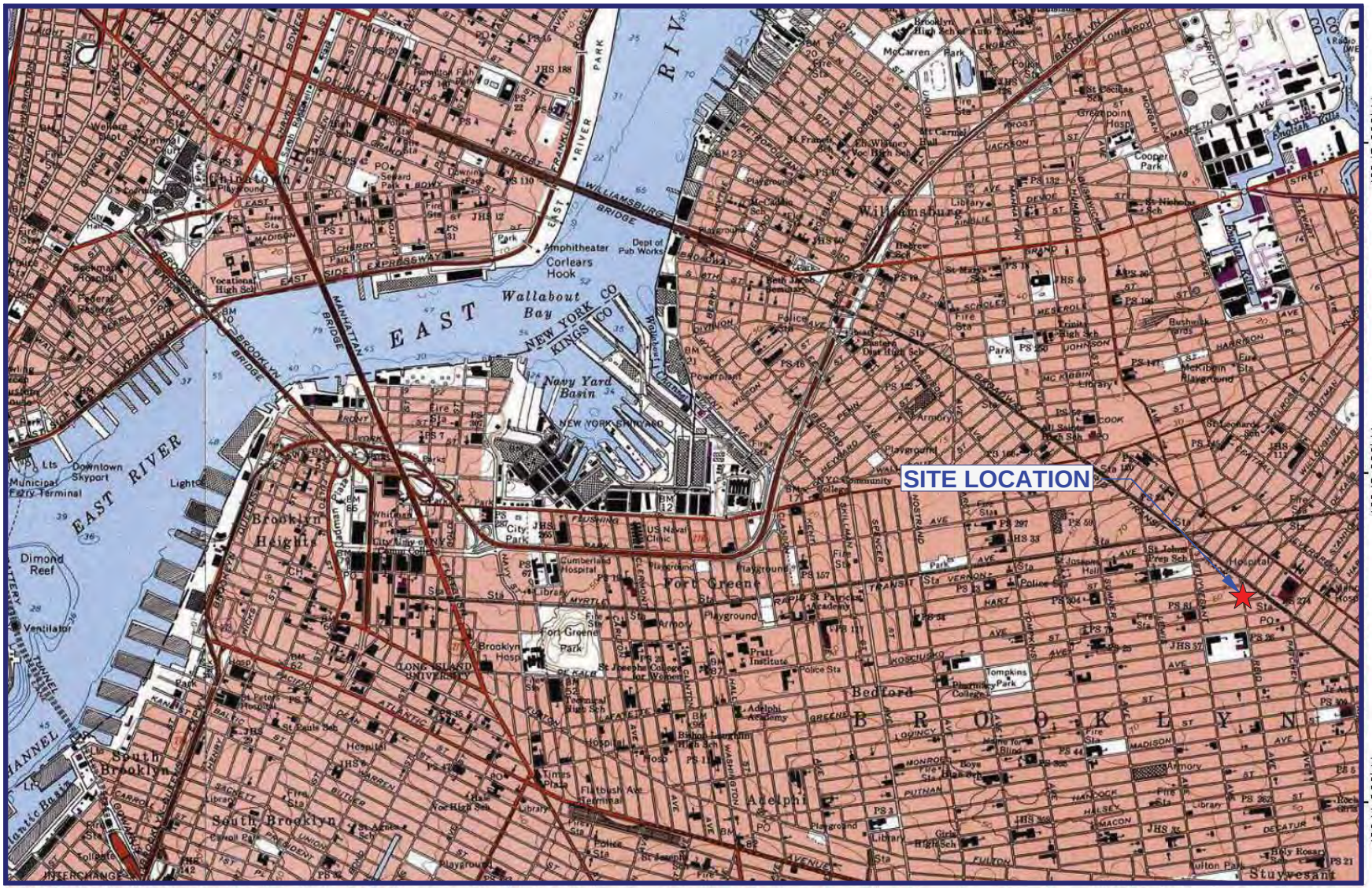
Bold/highlighted- Indicated exceedance of the NYSDEC TOGS Guidance Value

Former Gettry Service Station No. 00564 Site
1107 Dekalb Avenue
Brooklyn, New York

Table 22
SVE SYSTEM INFLUENT
Volatile Organic Compounds
Historic

COMPOUNDS	Pre Carbon (µg/m3)													
	12/11/2017		3/28/2018		6/26/2018		9/18/2018		12/6/2018		3/21/2019		6/24/2019	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,1-Trichloroethane	**2.82**	1.00	< 30.0	30.0	< 1.00	1.00	< 9.98	9.98	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,2,2-Tetrachloroethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,2-Trichloroethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.98	9.98	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethene	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2,4-Trichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	**66,300**	698	**14,300**	150	**2,080**	30.0	**1,140**	10.0	**94.8**	1.00	**315**	30.0	**147**	1.00
1,2-Dibromoethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.98	9.98	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-			-	-
1,2-Dichloroethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichloropropane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorotetrafluoroethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,3,5-Trimethylbenzene	**22,300**	698	**4,730**	30.0	**766**	30.0	**446**	10.0	**41.7**	1.00	**78.1**	1.00	**55.5**	1.00
1,3-Butadiene	< 1.00	1.00	< 30.1	30.1	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,3-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
2-Hexanone	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
4-Ethyltoluene	**47,300**	698	**2,730**	30.0	**1,580**	30.0	**983**	10.0	**34.8**	1.00	**131**	1.00	**76.1**	1.00
4-Isopropyltoluene	**4,130**	50.0	**735**	30.0	**153**	1.00	**29.1**	9.98	**5.54**	1.00	**20.9**	1.00	**6.47**	1.00
4-Methyl-2-pentanone	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Acetone	< 1.00	1.00	< 29.9	29.9	< 1.00	1.00	**59.1**	9.99	< 1.00	1.00	< 1.00	1.00	**176**	6.01
Acrylonitrile	< 1.00	1.00	< 29.9	29.9	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Benzene	**72.2**	1.00	< 30.0	30.0	**16**	1.00	< 9.99	9.99	**7.25**	1.00	**2.66**	1.00	**3.9**	1.00
Benzyl Chloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.98	9.98	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromoform	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromomethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Carbon Disulfide	**140**	50.1	**34.2**	30.0	**5.91**	1.00	< 9.99	9.99	**3.49**	1.00	< 1.00	1.00	< 1.00	1.00
Carbon Tetrachloride	**0.46**	0.25	< 7.48	7.48	**0.72**	0.25	< 2.50	2.50	**0.69**	0.25	**0.47**	0.25	**0.69**	0.25
Chlorobenzene	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.98	9.98	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroethane	< 1.00	1.00	< 30.1	30.1	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroform	**139**	1.00	**155**	30.0	**158**	1.00	**224**	10.0	**177**	1.00	**94.7**	1.00	**115**	1.00
Chloromethane	< 1.00	1.00	< 29.9	29.9	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
cis-1,2-Dichloroethene	**2.37**	1.00	< 30.0	30.0	**5.11**	1.00	< 9.99	9.99	**2.61**	1.00	**2.25**	1.00	**2.14**	1.00
cis-1,3-Dichloropropene	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.98	9.98	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Cyclohexane	**222**	49.9	**297**	30.0	**53**	1.00	**35.1**	10.0	**36.5**	1.00	**33.8**	1.00	**45.1**	1.00
Dibromochloromethane	< 1.00	1.00	< 30.0	30.0	**2.27**	1.00	< 9.96	9.96	**2.16**	1.00	**1.17**	1.00	< 1.00	1.00
Dichlorodifluromethane	**3.38**	1.00	< 30.0	30.0	**2.4**	1.00	< 9.98	9.98	**2.81**	1.00	**2.21**	1.00	**1.95**	1.00
Ethanol	**29.8**	1.00	**48.8**	29.9	**37.8**	1.00	**18.1**	10.0	**1,080**	1.00	**63.8**	1.00	**18.2**	1.00
Ethyl Acetate	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Ethylbenzene	**3,840**	49.9	**690**	30.0	**74.2**	1.00	**11.5**	9.98	**2.64**	1.00	< 1.00	1.00	**21.3**	1.00
Heptane	**1,190**	50.0	**204**	30.0	**117**	1.00	**75**	9.99	**54.1**	1.00	**43.4**	1.00	**59.4**	1.00
Hexachlorobutadiene	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Hexane	**976**	50.0	**139**	30.0	**276**	30.0	**209**	10.0	**165**	15.0	**105**	1.00	**239**	5.99
Isopropylalcohol	**9.58**	1.00	< 30.0	30.0	**7.17**	1.00	< 10.0	10.0	**4.23**	1.00	**2.48**	1.00	**2.51**	1.00
Isopropylbenzene	**2,270**	50.1	**383**	30.0	**69.8**	1.00	**18.4**	10.0	**1.96**	1.00	< 1.00	1.00	< 1.00	1.00
Xylene (m&p)	**11,600**	49.9	**3,150**	30.0	**651**	30.0	**332**	9.98	**79**	1.00	**38**	1.00	**97.6**	1.00
Methyl Ethyl Ketone	**42.4**	1.00	< 30.1	30.1	< 1.00	1.00	< 9.99	9.99	**10.8**	1.00	< 1.00	1.00	< 1.00	1.00
MTBE	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Methylene Chloride	**6.87**	1.00	< 30.0	30.0	**34.6**	1.00	< 10.0	10.0	**7.26**	1.00	**2.4**	1.00	**5.49**	1.00
n-Butylbenzene	**9.49**	1.00	**2,230**	30.0	**208**	1.00	**110**	9.98	**7.63**	1.00	< 1.00	1.00	< 1.00	1.00
Xylene (o)	**1,670**	49.9	**608**	30.0	**185**	30.0	**117**	9.98	**29.2**	1.00	**17.4**	1.00	**34.4**	1.00
Propylene	**18.1**	1.00	< 29.9	29.9	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
sec-Butylbenzene	< 1.00	1.00	< 30.0	30.0	**54.6**	1.00	**30.7**	9.98	< 1.00	1.00	< 1.00	1.00	**4.64**	1.00
Styrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	**2,790**	12.5	**7,250**	7.52	**4,360**	7.52	**4,190**	5.00	**3,880**	7.52	**3,490**	7.52	**3,280**	7.52
Tetrahydrofuran	< 1.00	1.00	< 30.1	30.1	< 1.00	1.00	< 9.99	9.99	**19.1**	1.00	< 1.00	1.00	< 1.00	1.00
Toluene	**15.7**	1.00	< 30.0	30.0	**14.9**	1.00	**20.6**	10.0	**4.82**	1.00	**6.36**	1.00	**16.2**	1.00
trans-1,2-Dichloroethene	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 9.99	9.99	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
trans-1,3-Dichloropropene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	**623**	12.5	**967**	7.52	**468**	7.52	**463**	2.50	**308**	3.75	**290**	7.52	**173**	0.25
Trichlorofluoromethane	**28.6**	1.00	**30.5**	30.0	**9.26**	1.00	**14.8**	9.99	**9.66**	1.00	**5.06**	1.00	**5.03**	1.00
Trichlorotrifluoroethane	< 1.00	1.00	< 30.0	30.0	< 1.00	1.00	< 10.0	10.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Vinyl Chloride	< 0.25	0.25	< 7.51	7.51	< 0.25	0.25	< 2.50	2.50	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
BTEX	**17,197.90**		**4,448.00**		**941.10**		**481.10**		**122.91**		**64.42**		**152.10**	
Total VOCs	**165,731.77**		**38,681.50**		**11,389.74**		**8,526.40**		**6,072.75**		**4,746.16**		**4,384.68**	

FIGURES



USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
1808 MIDDLE COUNTRY ROAD. RIDGE. NY 11961
Phone 631.504.6000
Fax 631.924.2780

1103-1107 DEKALB AVENUE
BROOKLYN, NY

FIGURE 1 SITE LOCATION MAP

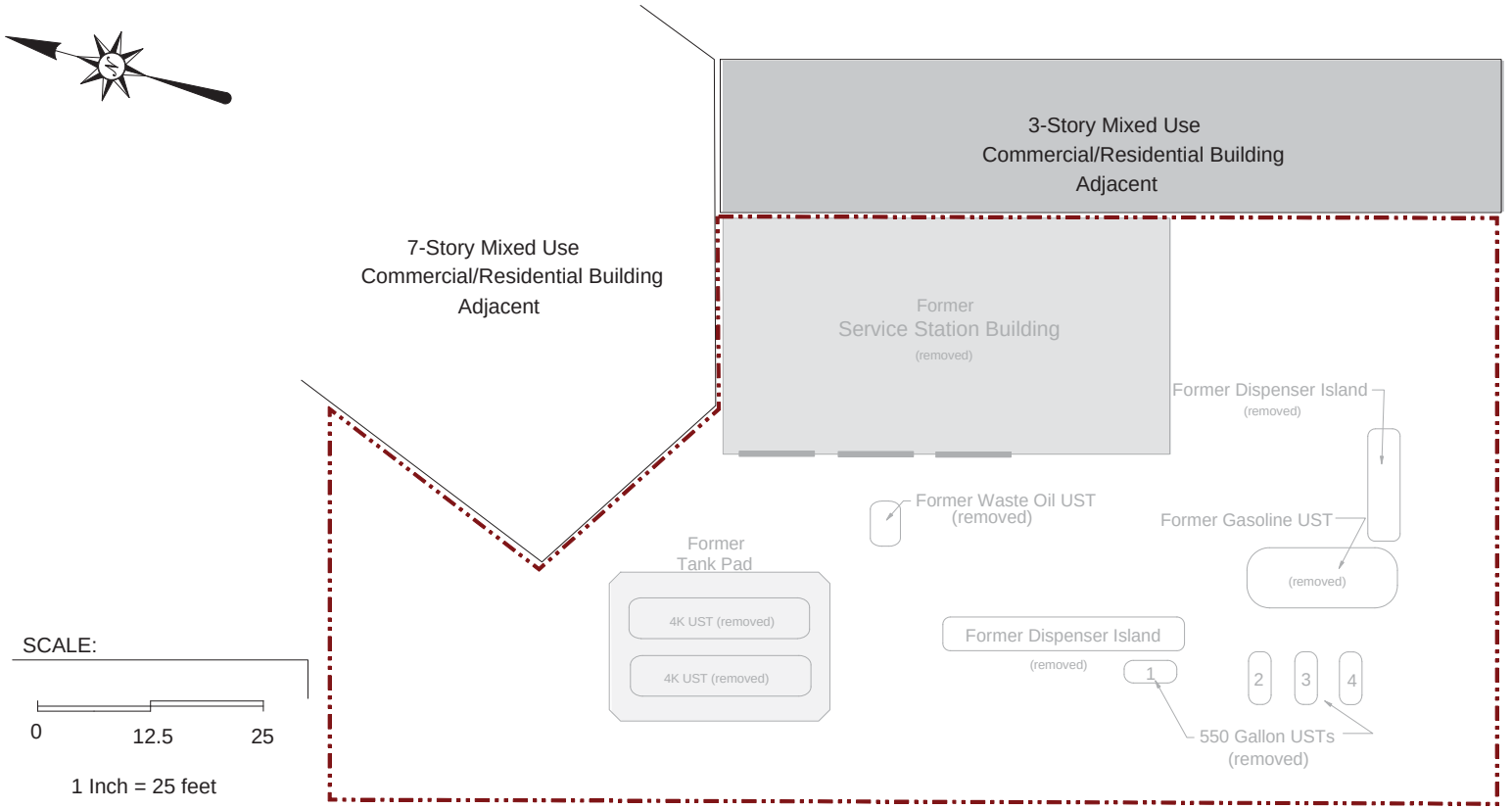


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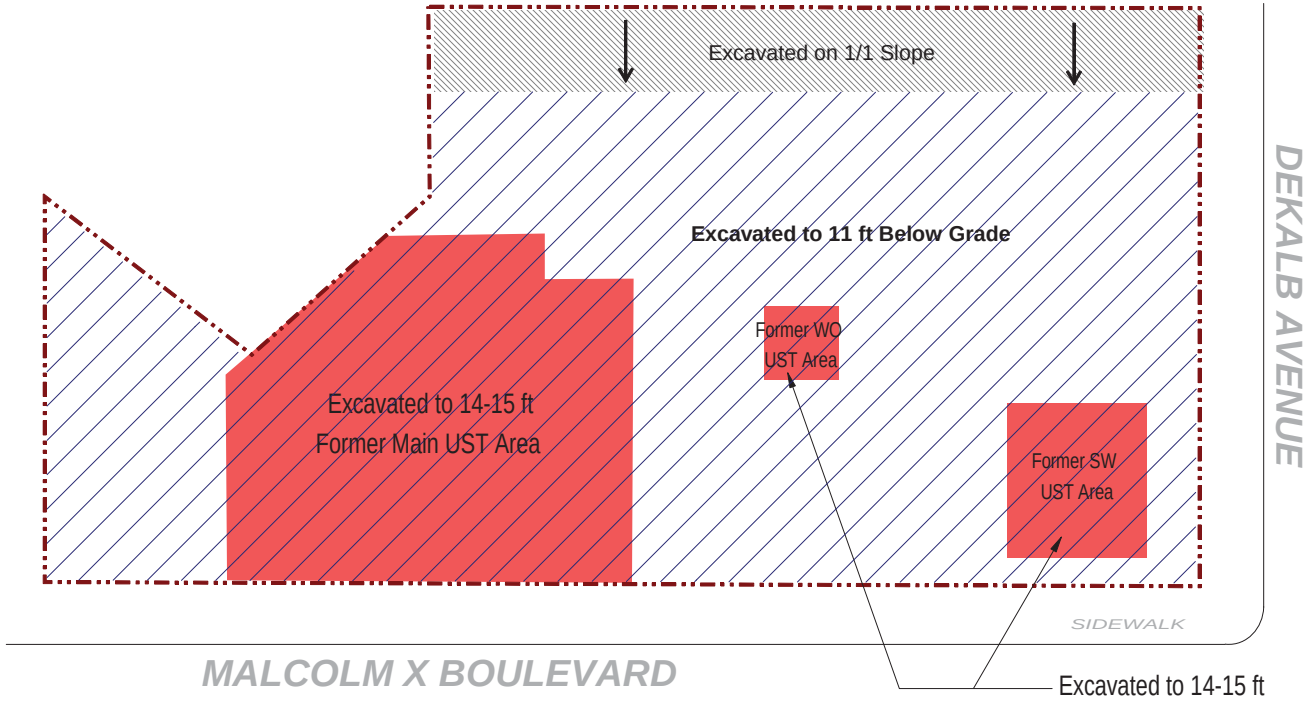
Figure No. 2

Site Name: FORMER GETTY SERVICE STATION
Site Address: 1103-1107 DEKLB AVENUE, BROOKLYN, NY
Drawing Title: SITE PLAN



KEY:

Site Boundary

SCALE:

0 12.5 25

1 Inch = 25 feet

STATE OF NEW YORK
ARIEL CZEMERINSKI
076508
LICENSED PROFESSIONAL ENGINEER

AMC Engineeting, PLLC
18-36 42nd Street
Astoria, NY 11105

Figure No.
3
Drawing Date: 12/5/19

Site Name: Former Getty Service Station
Site Address: 1103-1107 DeKalb Avenue, Brooklyn, NY
Drawing Title: Excavation Plan

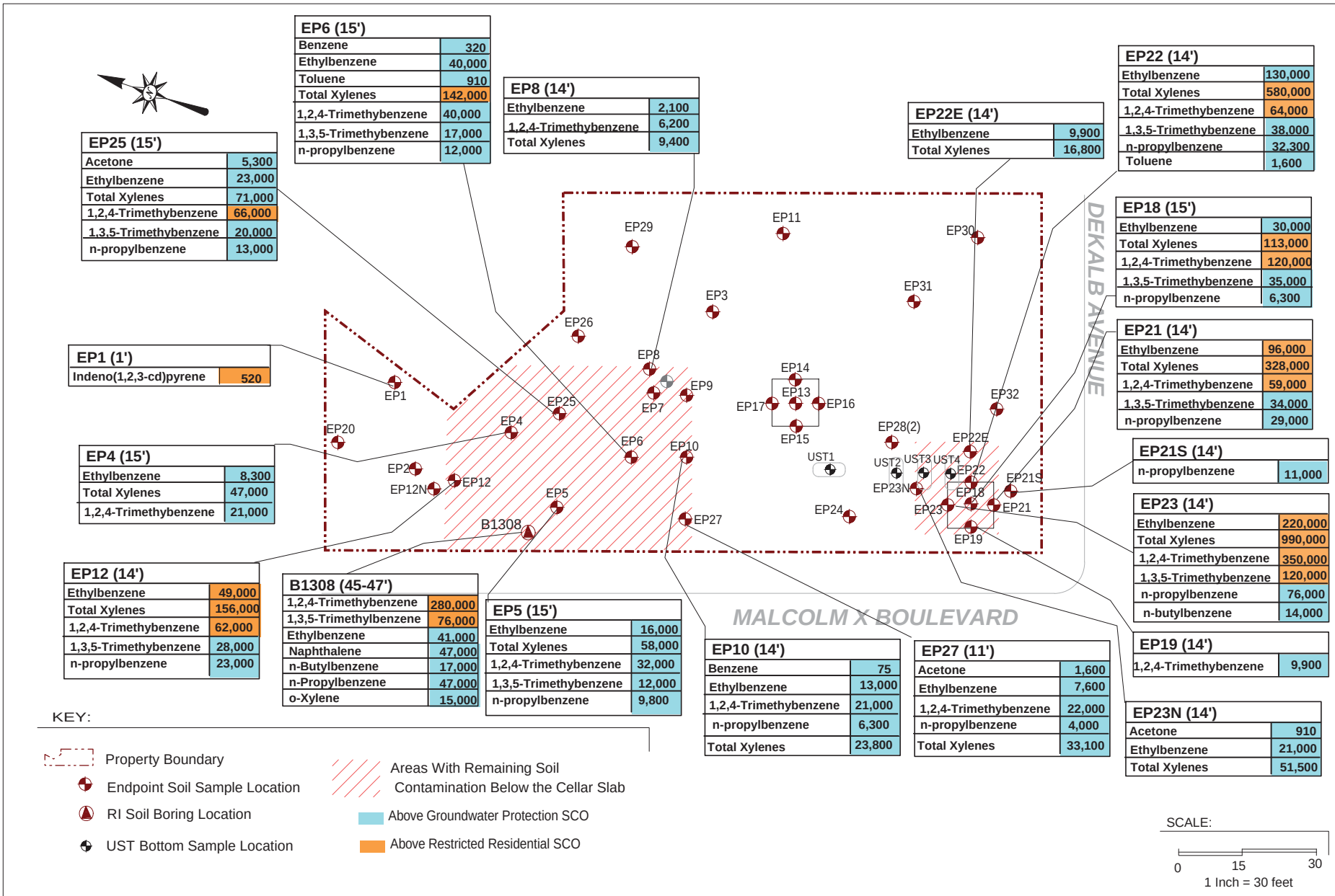


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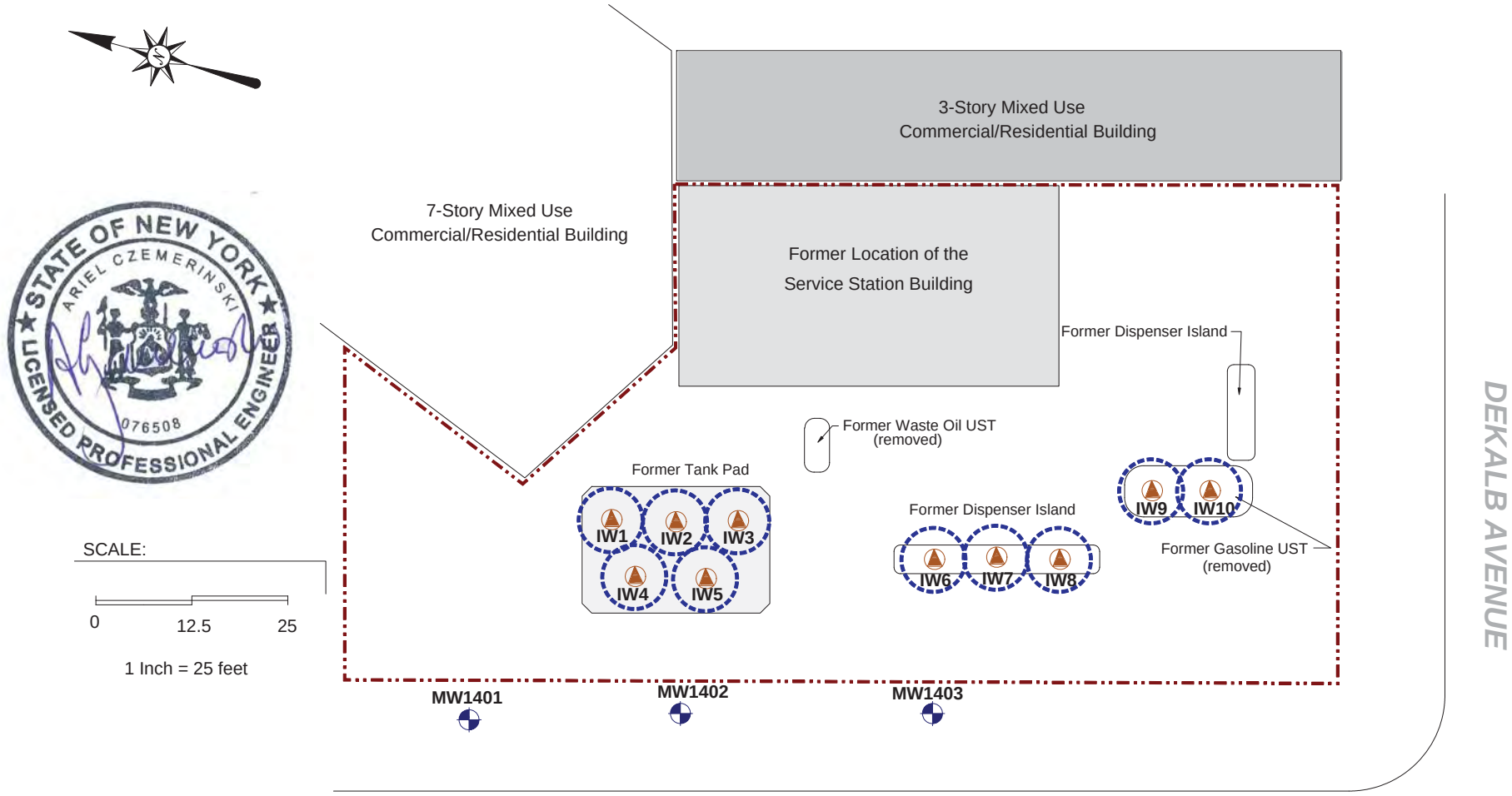
Figure No. 4

Site Name: FORMER GETTY SERVICE STATION
Site Address: 1103-1107 DEKALB AVENUE, BROOKLYN, NY
Drawing Title: REMAINING SOIL ABOVE SCOS



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KEY:

Site Boundary

MWx Performance Monitoring Well Location

IWx Chemical Injection Well / Inj. Radius

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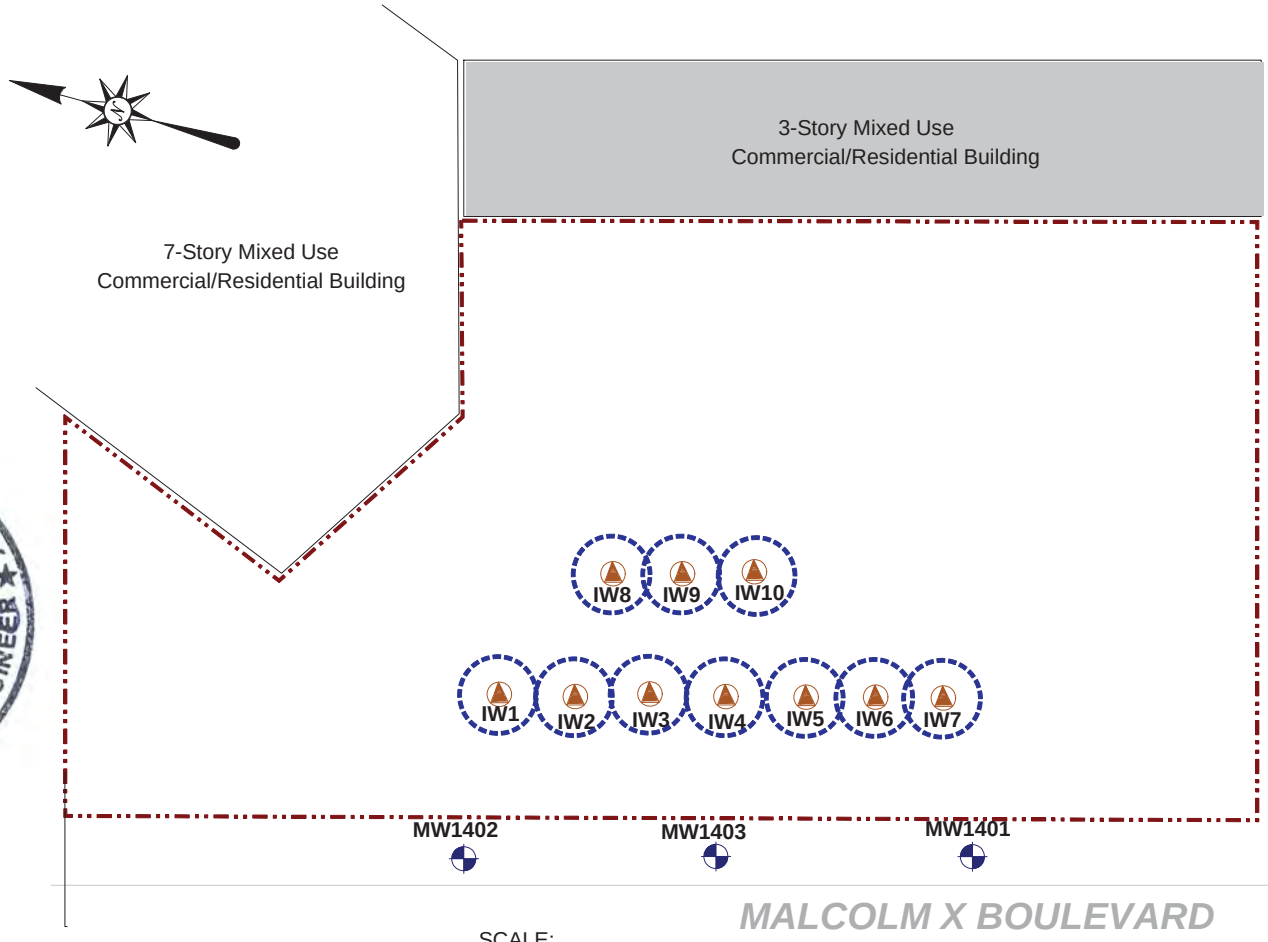
Figure No.
5a
Drawing Date: 9/30/19

Site Name: Former Getty Service Station
Site Address: 1103-1107 DeKalb Avenue, Brooklyn, NY
Drawing Title: Original Monitoring Well / Injection Well Locations



KEY:

- Site Boundary
- MWx — Performance Monitoring Well Location
- IWx — Chemical Injection Well / Inj. Radius

Note: MW1401 Damaged during excavation to be reinstalled

SCALE:

0 12.5 25

1 Inch = 25 feet

AMC Engineering, PLLC
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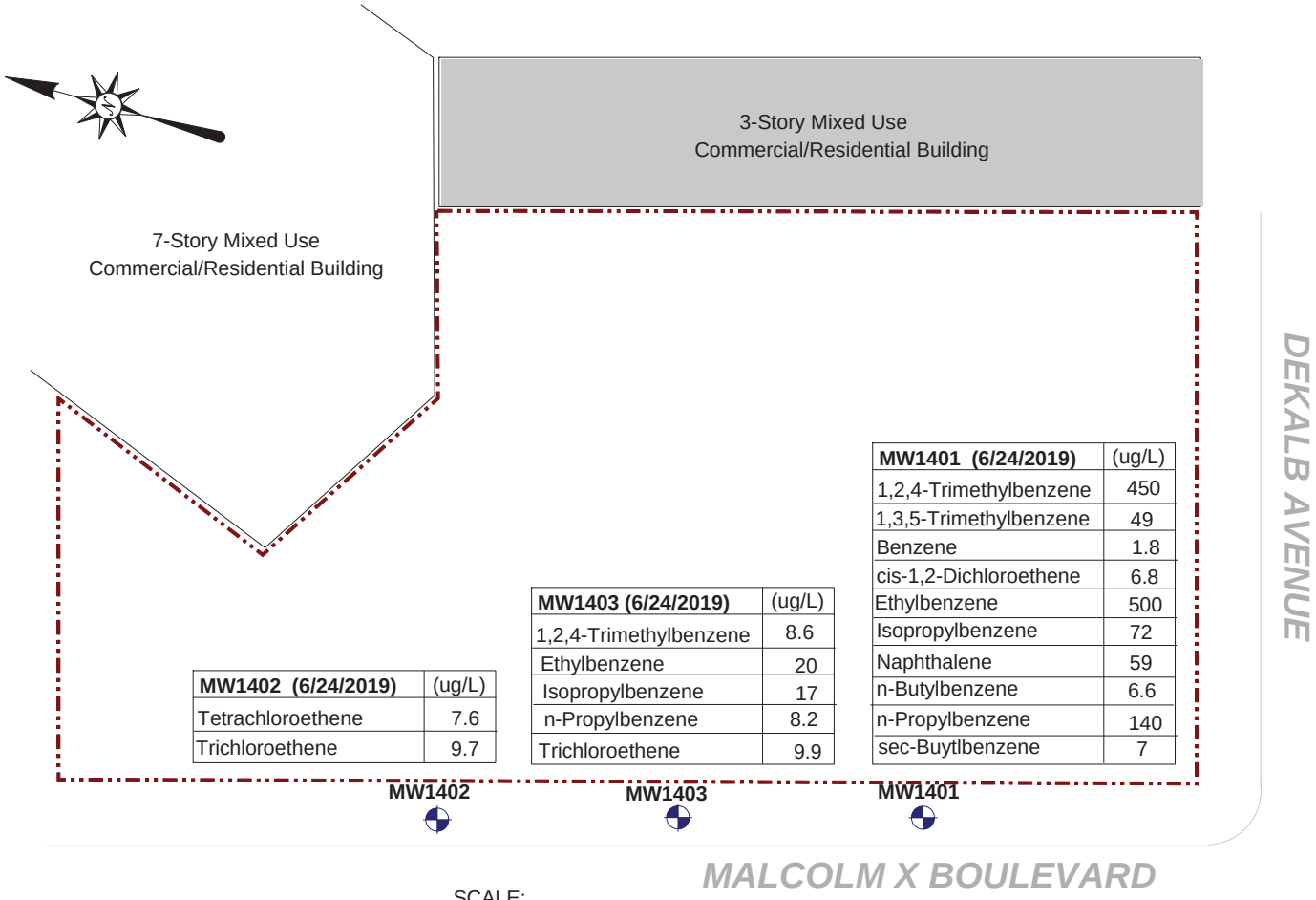
Figure No. **5b**

Drawing Date: 10/17/19

Site Name: Former Getty Service Station
Site Address: 1103-1107 DeKalb Avenue, Brooklyn, NY
Drawing Title: Replacement Monitoring Well / Injection Well Locations



MW1402 (6/24/2019)	(ug/L)
Tetrachloroethene	7.6
Trichloroethene	9.7

MW1403 (6/24/2019)	(ug/L)
1,2,4-Trimethylbenzene	8.6
Ethylbenzene	20
Isopropylbenzene	17
n-Propylbenzene	8.2
Trichloroethene	9.9

MW1401 (6/24/2019)	(ug/L)
1,2,4-Trimethylbenzene	450
1,3,5-Trimethylbenzene	49
Benzene	1.8
cis-1,2-Dichloroethene	6.8
Ethylbenzene	500
Isopropylbenzene	72
Naphthalene	59
n-Butylbenzene	6.6
n-Propylbenzene	140
sec-Buytlbenzene	7

KEY:

Site Boundary

MWx

Performance Monitoring Well Location

SCALE:

0 12.5 25

1 Inch = 25 feet

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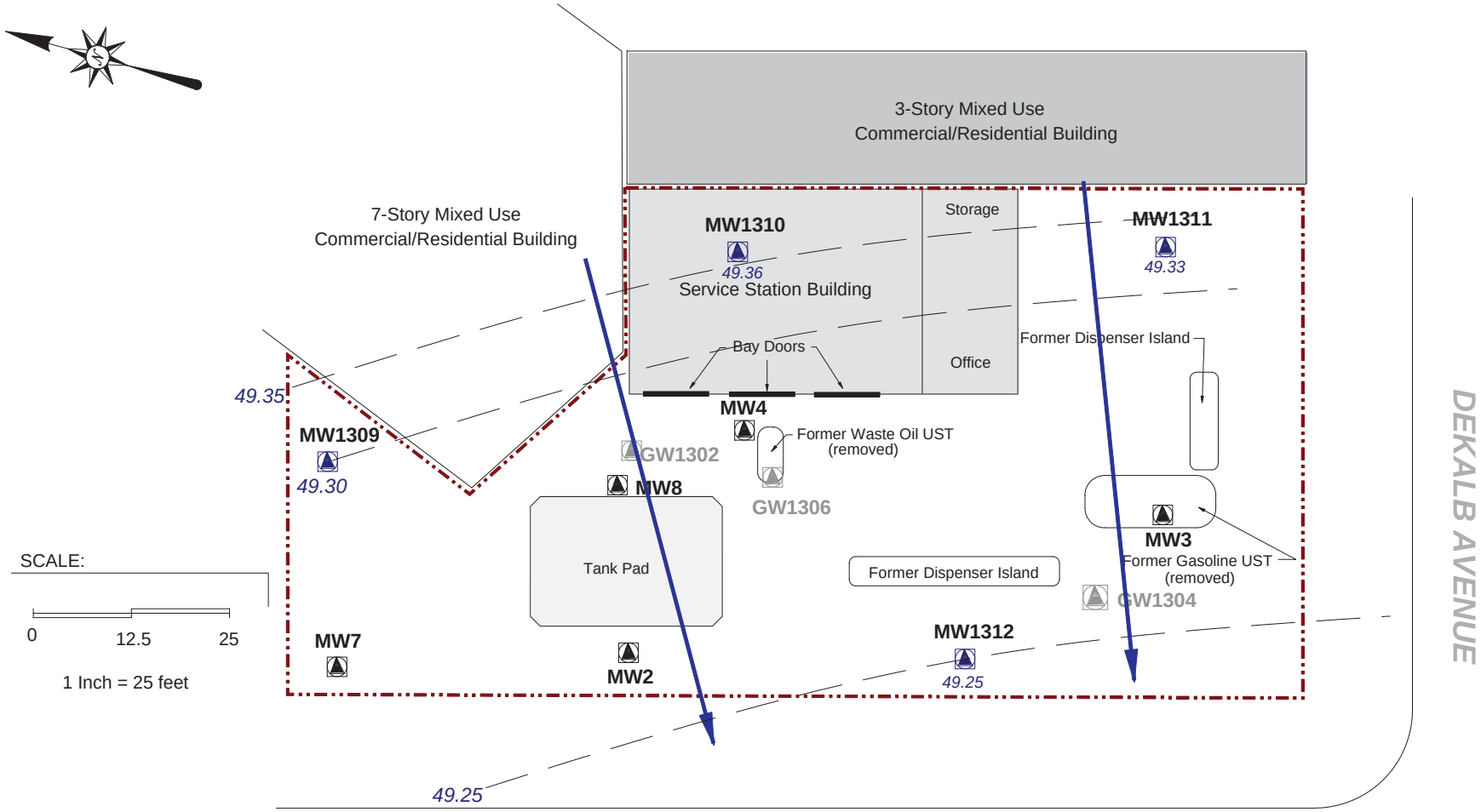
Figure No. 6

Drawing Date: 10/17/19

Site Name: FORMER GETTY SERVICE STATION

Site Address: 1103-1107 DEKALB AVENUE, BROOKLYN, NY

Drawing Title: GROUNDWATER RESULTS 2ND QUARTER 2019 (6/24/19)



KEY:

- Property Boundary
- February 2013 Groundwater Sampling Location
- Abandoned Monitoring Well Location
- Monitoring Well Location
- Groundwater Contour
- Groundwater Flow Direction

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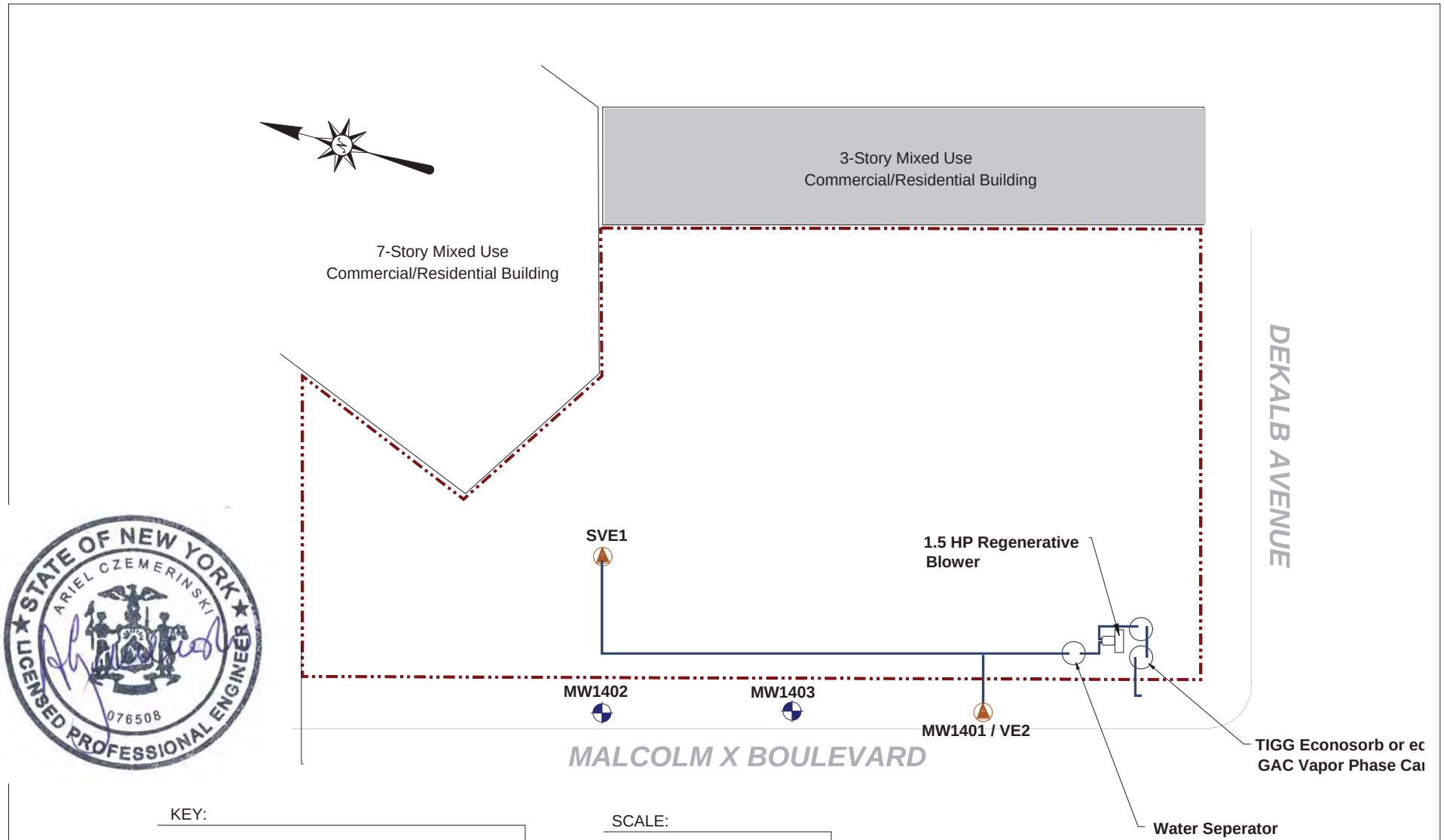
Figure No. 7

Drawing Date: 6/12/14

Site Name: FORMER GETTY SERVICE STATION

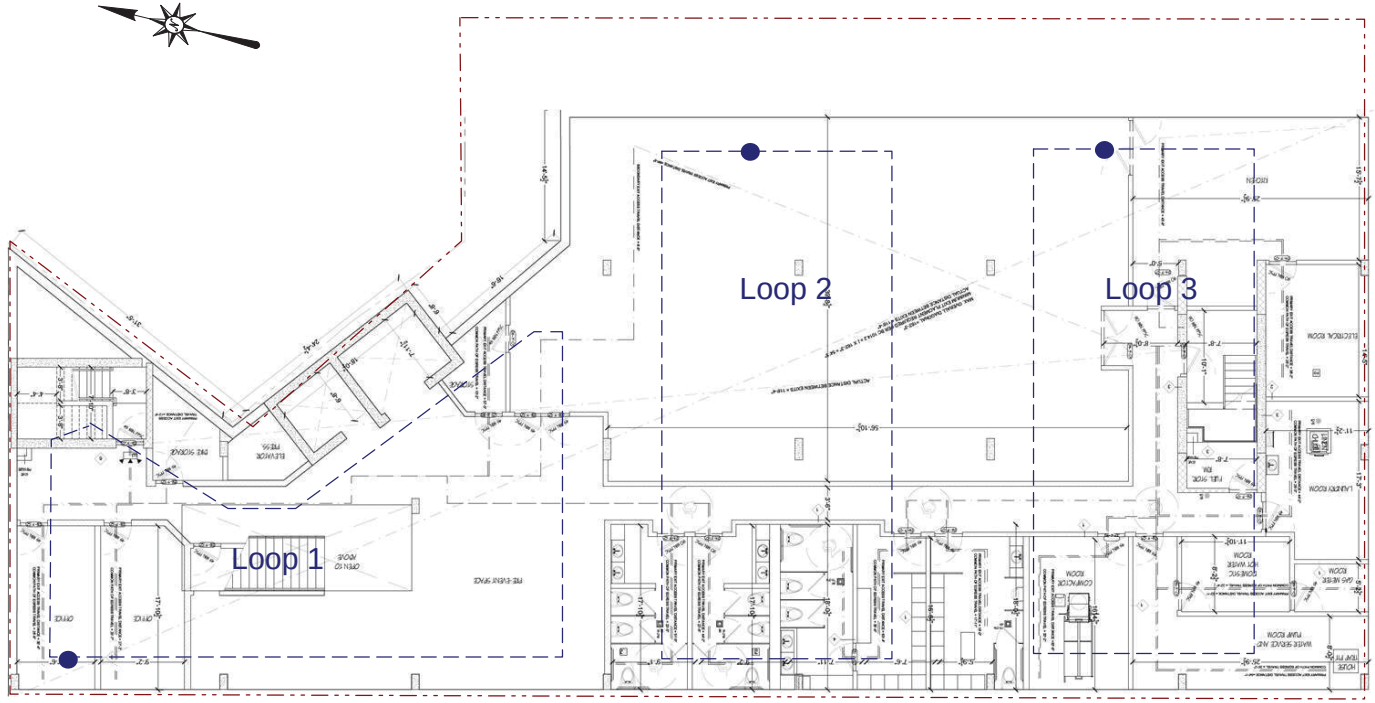
Site Address: 1103-1107 DEKALB AVENUE, BROOKLYN, NY

Drawing Title: GROUNDWATER CONTOUR MAP 4/7/14



STATE OF NEW YORK
ARIEL CZEMERINSKI
076508
LICENSED PROFESSIONAL ENGINEER

AMC Engineeting, PLLC 18-36 42nd Street Astoria, NY 11105	*Figure No.* **8**	Site Name:	FORMER GETTY SERVICE STATION
		Site Address:	1103-1107 DEKALB AVENUE, BROOKLYN, NY
	Drawing Date: 10/17/19	Drawing Title:	ENGINEERING CONTROLS - SVE SYSTEM



DEKALB AVENUE

MALCOLM X BOULEVARD

KEY:

- Site Boundary
- 4" Perforated PVC Piping
- Riser Location

Note: Roof exit points for emission stacks to be determined in the field and approved by the Remedial Engineer

SCALE:

0 12.5 25

1 Inch = 25 feet

STATE OF NEW YORK
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AMC Engineeting, PLLC
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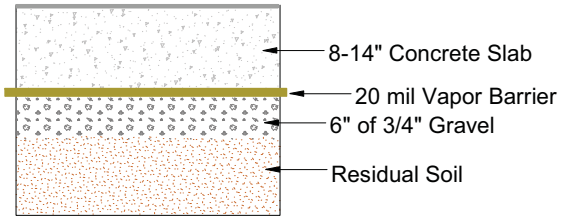
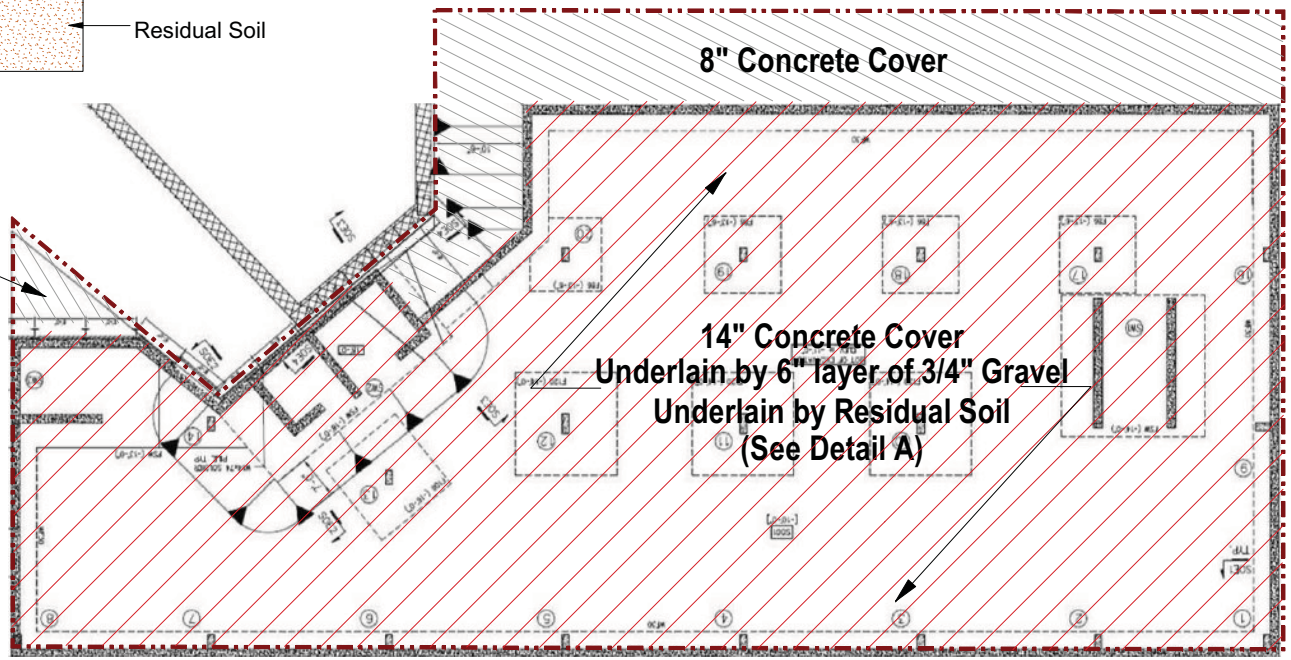
Astoria, NY 11105

Figure No.
9
Drawing Date: 9//30/19

Site Name: FORMER GETTY SERVICE STATION
Site Address: 1103-1107 DEKLB AVENUE, BROOKLYN, NY
Drawing Title: SSDS PIPING LAYOUT

Detail A





DEKALB AVENUE

MALCOLM X BOULEVARD

STATE OF NEW YORK
ARIEL CZEMERINSKI
076508
LICENSED PROFESSIONAL ENGINEER

KEY:

- Site Boundary
- 14" Concrete Cover
- 8" Concrete Cover

SCALE:

0 12.5 25

1 Inch = 25 feet

AMC Engineeting, PLLC
18-36 42nd Street
Astoria, NY 11105

Figure No.
10
Drawing Title: 9/30/19

Site Name:	Former Getty Service Station
Site Address:	1103-1107 DeKalb Avenue, Brooklyn, NY
Drawing Title:	Engineering Control - Site Cover