Queens West (Hunters Point) Parcel 8

QUEENS, NEW YORK

Final Engineering Report

NYSDEC Site Number: C241087

Prepared for:

Queens West Development Corporation
633 Third Avenue
New York, NY 10017

and

Avalon Riverview II, LLC and Avalon Riverview III, LLC
275 7th Avenue
New York, NY 10001

Prepared by:

Arnold F. Fleming, P.E. & Fleming-Lee Shue, Inc.
158 W. 29th Street, 9th Floor
New York, NY 10001

DECEMBER 2011

CERTIFICATIONS

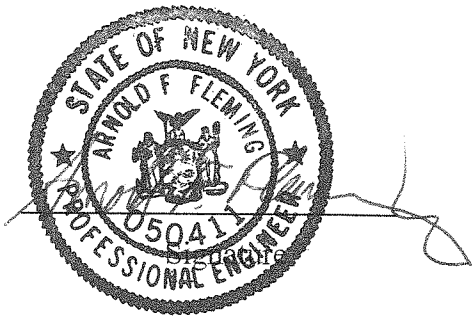
I, Arnold F. Fleming, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

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 and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established in 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 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, Arnold F. Fleming, 158 West 29th Street, 9th Floor, New York, NY 10001, am certifying as Owner's Designated Site Representative for the site.



050411 — NYS Professional Engineer #

12/22/11 — Date

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

APPENDICES

LIST OF ACRONYMS

Acronym	Definition
AWQS	Ambient Water Quality Standard
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BTEX	Benzene, Toluene, Ethylbenzene, Total Xylenes
CAMP	Community Air Monitoring Plan
CCR	Construction Completion Report
CPP	Citizen Participation Plan
CQAP	Construction Quality Assurance Plan
DUSR	Data Usability Summary Report
EC	Engineering Control
FER	Final Engineering Report
ft-bg	Feet below Grade
GA	Source of Drinking Water
HASP	Health and Safety Plan
IC	Institutional Control

Acronym	Definition
IFT	Interfacial Tension
m	milli or Meter
NYSDEC	New York State Department of Environmental Conservation
N	Newtons
PAH	Poly Aromatic Hydrocarbons
QAPP	Quality Assurance Project Plan
RAWP	Remedial Action Work Plan
RCA	Recycled Concrete Aggregate
RI	Remedial Investigation
S-ISCO™	Surfactant-Enhanced In-Situ Chemical Oxidation
SCO	Soil Cleanup Objective
S/MMP	Soil/Materials Management Plan
SSDS	Sub-Slab Depressurization System
SMP	Site Management Plan
SOP	Site Operation Plan
SVOCs	Semi-volatile Organic Compounds
SWPPP	Stormwater Pollution Prevention Plan
TCL	Target Compound List
TOGS	Technical and Operational Guidance Series
TSDF	Treatment Storage Disposal Facility
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

Avalon Riverview II LLC and Avalon Riverview North[1] LLC and QWDC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in March 2005, to investigate and remediate a 0.73-acre property located in Long Island City, Queens, New York. The property was remediated to commercial use and will be used as a public library and park ranger station.

The site is located at 4-56 47th Road, Long Island City in the County of Queens, New York and is identified as Block 19 and Lot 19 on the Queens Tax Map Section 1, Volume 1. The site is situated on an approximately 0.73-acre area bounded by 47th Road to the north, 48th Avenue and Gantry Plaza State Park to the south, Center Boulevard to the east, and Peninsula Park to the west (see Figure 1). The boundaries of the site are fully described in Appendix A: Survey Map, Metes and Bounds.

Parcel 8 is part of a larger 74-acre shoreline tract of land known as the Queens West Development (QWD) that extends along the East River from Anable Basin on the north to Newtown Creek on the south. The southern portion of the QWD was sold to the City of New York for the Hunters Point South Development and is no longer part of the QWD. Surrounding parcels include Parcel 9 of the QWD to the east, a NYS Brownfield Site (Site #C241049), which received a COC for Restricted Residential Use in December 2006; Stage II of the QWD to the north, NYS Voluntary Clean-up Sites (Sites V00505A and B), where remediation was completed and VCA releases were received in 2008 and 2006 respectively; Peninsula Park and the East River to the west; and mixed uses to the south, including residential, commercial, day care, a public school and Gantry Plaza State Park.

An electronic copy of this FER with all supporting documentation is included as Appendix B1.

[1] Avalon Riverview North, LLC was previously known and listed on the March 30, 2005 BCA as Avalon Riverview III, LLC. The name change was reflected in the Amended BCA dated 3/10/2010.

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

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.
- The cleanup objectives for groundwater are the TOGS Class GA AWQS and/or achievement of asymptotic levels for VOCs and naphthalene during the post-remedial monitoring.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Prevent the discharge of contaminants to surface water.
- Prevent further off-site migration of contaminated groundwater.
- Remove the source of groundwater contamination.

2.1.2 Soil RAOs

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 contamination.
- Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

2.1.3 Surface Water RAOs

There is no surface water on site, so the remedial action did not address this medium.

2.1.4 Sediment RAOs

There are no sediment areas on site, so the remedial action did not address this medium.

2.2 DESCRIPTION OF SELECTED REMEDY

The site was remediated in accordance with the remedy selected by the NYSDEC in the Parcel 8 Remedial Action Work Plan, prepared by Fleming Lee Shue, Inc. (RAWP) dated October 10, 2010. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Excavation of the top four feet of soil over the entire area of the site. The shallow soil excavation was done in the open without an enclosure, and odor suppressant foam was on hand and utilized as needed.

2. Hot spots of metals and PCBs identified during the RI, as well as grossly contaminated soil observed during soil excavation of the top four feet of soil, were removed to a depth where endpoint sample met the Commercial Use SCOs, or to the depth of the water table and/or the maximum depth possible without sheeting or shoring. Soil removal identified in remedial components 1 and 2 removed approximately 3 percent of the total organic contaminant mass from the site. The remedial performance goals for shallow soil removal were the Part 375 commercial use SCOs.

Excavation (components 1 and 2) was completed in lifts or strips so that the existing soil cover remained in place and minimized exposure of subsurface soils. Excavation was completed by dividing the site into nine grid cells that were nominally 3,600 ft^2 each. Initially, only one grid cell was excavated at a time. However, the Department allowed multiple grid cells to be exposed when it became apparent that the soils were free of nuisance odors. In this manner, only soil that could be removed without stockpiling was excavated for "load and go" removal of soils directly into trucks. Post-excavation samples were collected for expedited turn around and the results forwarded to the Department for review. If end-point sample data met the Commercial SCO, or were otherwise approved by the Department, then the excavation was backfilled with clean fill to grade and the next grid cell was begun. The process continued until excavation was complete. The clean fill consists of recycled concrete aggregate (RCA) derived from within the QWD which had been stockpiled on QWD Stage 3 (approximately ¼ mile south of the site, now Hunters Point South).

3. Screening for indications of gross contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive site work.
4. 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.
5. Collection and analysis of end-point confirmation and/or documentation samples subsequent to removal of shallow soil, hot spots and gross contamination. Other than in areas identified as hot spots during the RIR, endpoint samples were collected at 4 ft-bg, or deeper if the excavation was extended, and along the site sidewalls and analyzed for VOCs, SVOCs, metals, and PCBs. In the areas of hot spot and gross contamination excavation, endpoint samples were collected at the bottom of the hot spot and/or gross contamination excavation and along the sidewalls of each excavation in accordance with the procedures in DER-10, and similarly analyzed.
6. The excavation was backfilled with RCA from other portions of the QWD site per the approved RAWP (Appendix D). The RCA consists of a sandy mixture of crushed concrete containing a mixture of sand and some fine material. It contains some crushed brick;
7. Installation of a demarcation barrier between the residual soil and approved fill material. Hot spot and gross contamination excavations were filled to 4 ft-bg with soils meeting Part 375-6.7(d) prior to installation of the demarcation barrier.
8. Abandonment-in-place of one 1,000-gallon and removal of four underground storage tanks (UST).
9. Installation of a composite cover system consisting of, at a minimum, 2 feet of clean soil above the demarcation barrier and/or a minimum of 6 inches of

asphalt or concrete. The final composite cover system will include the library and park ranger station foundations, consisting of slab-on-grade construction with a shallow pile-cap grade-beam system, which is not expected to extend beneath the demarcation layer. Additionally, there may be ancillary buildings of similar construction. Proposed stone walkways underlain by a gravel substrate, landscaped pervious areas, and a possible water element with an impervious concrete slab foundation will also be part of the composite cover system. Provisions for installation and monitoring of the final cover system are provided in the Site Management Plan (SMP).

10. RemMetrik^{SM} is a remediation methodology that estimates the contaminant mass, identifies the contaminant mass three-dimensional location, and targets subsurface treatment using Wavefront Technology Solutions, Inc. Primawave Technology^{TM} to treat contamination at the pore-scale level. VeruTEK;s Surfactant Enhanced in situ Chemical Oxidation (S-ISCO^{TM}) employs a surfactant to dissolve NAPL in order to enhance in situ chemical oxidation. RemMetrik^{SM} and S-ISCO^{TM} addressed the bulk of the organic contaminant source mass and key contaminants. The greater part of the mass occurred from approximately 10 ft-bg to 22 ft-bg, (i.e., the treatment zone) and encompassed about 67 percent of the organic contaminant mass (47,000 pounds). The remediation goal for in situ chemical oxidation was 90 percent reduction in contaminant mass. Pronounced reductions in soil and groundwater were achieved for benzene, toluene, ethylbenzene, total xylenes, and naphthalene following treatment and excavation of the top four feet of soil, and the hot spot and gross contamination removal.
11. All activities associated with the remedial action, including permitting requirements, were conducted in accordance with the applicable Federal, State and local rules and regulations.
12. Recording of an Environmental Easement (Appendix C) requiring implementation of engineering and institutional controls described in a Department-approved Site Management Plan (SMP) to manage residual contamination.
13. Development and implementation of an SMP (Appendix B2) for long term management of remaining contamination, as required by the Environmental Easement, which includes plans for: (i) installation of an active sub-slab depressurization system and vapor barrier for any occupied buildings constructed on the site, (ii) future maintenance of engineering controls and management of any residual site contamination and (iii) future Oxygen Release Compound Advanced^{TM} (ORCA) application, if necessary, including monitoring parameters to prevent migration of contaminated groundwater off site.
14. Periodic certification of the institutional and engineering controls listed above.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

Prior to remediation, a construction and demolition (C&D) debris covered approximately one-third of the site. Miscellaneous drums and debris also occurred on site. AKRF implemented the Interim Remedial Measures Work Plan (IRMWP), dated December 2007, in June 2008. The IRM specified removal of the C&D pile. The work was completed by Brookside Environmental.

The C&D pile was segregated into various waste streams including scrap metal, elevated PAH soil, concrete, general debris, and non-hazardous liquids and disposed at approved facilities. AKRF filed a *Draft Interim Remedial Measure Final Engineering Report* in October 2008. This was approved by the Department in a letter dated 12/29/2008 (Appendix E).

AKRF abandoned in place a 1,000-gallon UST by cleaning the UST and filling it with five gallons of concrete slurry. The work was completed in December 2007 following AKRF's *Tank Closure Work Plan, Queens Development Parcel 8,* December 6, 2006 (Appendix E).

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the site were conducted in accordance with the NYSDEC-approved RAWP and IRMWP (see Section 3) for the Parcel 8 site. All deviations from the RAWP are noted in Section 4.3.19 below.

4.1 GOVERNING DOCUMENTS

4.1.1 Site Specific Health & Safety Plan (HASP)

The HASP was included as Appendix E of the RAWP. 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 HASP was complied with for all remedial and invasive work performed at the Site.

The HASP pertains to all remedial and invasive work performed at the site until the issuance of a Certificate of Completion. Remediation was completed in compliance with the HASP.

4.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Appendix F of the 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. Remediation was completed in compliance with the QAPP.

4.1.3 Soil/Materials Management Plan (S/MMP)

The Soil/Materials Management Plan (S/MMP) included plans for managing all soils/materials that were disturbed at the site. The S/MMP, which described procedures for excavation, handling, storage, transport and disposal was included as Appendix G in the RAWP. Remediation was completed in compliance with the S/MMP, although the truck route was modified per the requirements of NYSDEC and the Queens Community Board No. 2 Office requirements. The modified truck route can be found in Appendix D.

4.1.4 Storm-Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the site-specific Storm Water Pollution Prevention Plan included in the RAWP as Appendix H. Remediation was completed in compliance with the SWPPP.

4.1.5 Community Air Monitoring Plan (CAMP)

The purpose of the CAMP was to protect downwind receptors (e.g., residences, businesses, schools, nearby workers, and the public) from potential airborne contaminants released as a direct result of the Remedial Action (RA) being performed at the site. This plan was presented in the RAWP as Appendix I. Remediation was completed in compliance with the CAMP.

4.1.6 Contractors Site Operations Plans (SOPs)

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

4.1.7 Citizen Participation Plan

The Citizen Participation Plan (CPP) was provided in the RAWP in Appendix J and provided members of the affected and interested public with information about how NYSDEC will inform and involve them during the investigation and remediation of the site.

A certification of mailing was sent by the Volunteer to the NYSDEC project manager following the distribution of all Fact Sheets and notices that included: (1) certification that the Fact Sheets were mailed, (2) the date they were mailed; (3) a copy of the Fact Sheet, (4) a list of recipients (contact list); and (5) a statement that the repository was inspected and that it contained all of applicable project documents.

Document repositories have been established at the following locations and contain all applicable project documents:

Queens Borough Public Library

Court Square Branch
2501 Jackson Avenue
Long Island City, New York 11101
(718) 937-2790
Mon 12-7; Tue 1-6; Wed 10-6; Thurs 12-6; Fri 12-6; Sat 10-5:30; Sun closed

NYSDEC Region 2 Office
47-40 21st Street
Long Island City, NY 11101
Call in advance – (718) 482-6405
Mon. to Fri. 9 a.m. to 4 p.m.

Community Board No. 2 Office
43-22 50th Street - Second Floor
Woodside, New York 11377
(call in advance) (718) 533-8773
Mon. to Fri. 9 a.m. to 5 p.m.

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

- The Remedial Engineer for this project was Arnold F. Fleming, P.E. He is a registered professional engineer licensed by the State of New York.
- VeruTEK, Bloomfield, CT – Remediation Contractor responsible for implementation of the surfactant-enhanced in-situ chemical oxidation S-ISCO™ Treatment.
- Zebra, Lynbrook, NY – Drilling Contractor responsible for implementing Primawave™, the process used to enhance delivery of chemical amendments at the pore scale level
- Brookside Environmental, Hicksville, NY – Brookside was the soil excavation contractor.
- Soil Safe, Inc., Logan Township, NJ, was the principal soil disposal contractor for the bulk of the soil.
- CWM Chemical Services, LLC, Model City New York was the disposal facility for soils deemed hazardous by PCBs.
- Atlantic County Utilities Authority (ACUA), Egg Harbor Township, NJ, was the disposal facility for non-hazardous PCB soils.

4.2.2 Site Preparation

A pre-construction meeting was held with NYSDEC and all contractors on October 21, 2010, for the chemical oxidation phase, and on October 13, 2011, for the excavation phase.

Documentation of agency approvals required by the RAWP is included in Appendix D. Other non-agency permits relating to the remediation project are provided in Appendix E.

A NYSDEC-approved project sign was erected at the project entrance and remained in place during all phases of the Remedial Action.

VeruTEK mobilized equipment to the site on October 10, 2010 and began preparing the site for the chemical oxidation component. VeruTEK's mobilization included installing containment berms, chemical mixing tanks, and a pump trailer that mixes the chemicals before injection. Storage containers were also installed to secure the dry chemical. VeruTEK obtained FDNY approval of the set up following a FDNY inspection. A kickoff meeting was held on October 21, 2010.

Brookside mobilized on site on October 17, 2011 for the excavation component. Brookside mobilized by bringing excavation equipment on site, dropping the grade in some areas to prevent run-off from moving off site, preparing a truck wash, and ensuring erosion and run-off control measures were in place. FLS and Brookside obtained soil disposal facility acceptance letters (Appendix E), as required by the RAWP, and hydrant permits.

Approvals

The following approvals were in place before work began.

Item	Approval	Agency
Remedial Action Work Plan	9/23/2010	NYSDEC
SPDES Equivalent Permit	4/15/2011	NYSDEC
FDNY Chemical Inspection	10/28/2010	NYC Fire Dept.
Hydrant Permit	10/11/2011	NYC Dept. of Env. Protection
Underground Injection Form	8/19/2010	USEPA (filing only)

4.2.3 General Site Controls

During remediation, site security was maintained through a chain-link fence and wall that enclosed the site on all four sides. During working hours, the site was controlled through on-site staff or through the QWDC Engineer's office which faces the site. Record keeping was maintained in FLS log books and contractor records. Field data were transferred to electronic files. Erosion and sedimentation controls (excavation only) included installation of silt fence around the perimeter and maintaining site surface below surrounding areas.

Accumulated waste arising from dumping while the site was idle was placed in a dumpster and carted off as normal solid waste. This waste consisted of used tires, paper, and litter and included empty drums left over from previous investigations.

Soil was screened using a hand-held PID and by visually inspecting the soil as it was excavated. Upwind and downwind CAMP monitoring stations also monitored VOCs and particulates. The excavation operated on a load-and-go basis; there was no soil stockpiling.

During excavation, problems that increased the complexity of the excavation included the need to excavate somewhat deeper in some grid cells and encountering footings and slab from the earlier structures. These obstacles made excavation more complicated.

4.2.4 Nuisance controls

In five months of almost continuous chemical injecting using the RemMetrik^{SM} and S-ISCO$^{®}$ process there were no complaints. Truck wash, dust, odors, truck routes, and complaints were not factors during injection.

During excavation, trucks exited the site via the truck wash where they were inspected, brushed off and hosed down as necessary to remove soil before entering the roadway. Dust was controlled by water spray to keep soil moist (it was generally wet during the excavation period from rain/snow). Odors did not manifest themselves, but odor control foam and spray were on hand at all times. The truck route was approved by both NYSDEC and the Queens Community Board No. 2 Office. No complaints were received during excavation.

There were two complaints during the entire remediation process, both before remediation actually began. One complaint was from the Principal of PS 78Q on 10/4/10 about noise from a drill rig. The second complaint was by the Parks Department on

10/8/10 about minor damage to the curb from trucks. Both complaints were addressed to the satisfaction of the parties involved.

4.2.5 CAMP results

The CAMP was not required to be implemented during chemical injection. During the excavation phase, CAMP stations were positioned upwind and downwind of the excavation at all times. Upwind (background) particulates ranged from 2 ug/m^3 to 1,719 ug/m^3 and averaged approximately 35 ug/m^3 (median = 25). Downwind particulates ranged from 3 ug/m^3 to 295 ug/m^3 and averaged approximately 39 ug/m^3 (median = 17). Downwind particulates always remained within CAMP limits. Water spray was applied almost continuously throughout excavation and was immediately directed to soil showing any signs of becoming airborne.

Upwind VOCs ranged from 0 ppm to 0.6 ppm and averaged 0.004 ppm (median = 0). Downwind VOCs ranged from 0 ppm to 10 ppm and averaged 0.24 ppm (median = 0). VOCs were all below the CAMP guidelines except for October 19, 2011, where downwind VOCs modestly exceeded the 5 ppm CAMP level for short periods while loading trucks (≤10 ppm). These readings were believed inflated due to the high precipitation and humidity. Work was temporarily interrupted until measurements began to decline to near 5 ppm above background levels. No pattern of measurements above the CAMP criteria was observed during excavation of the site.

Copies of all CAMP data are provided in electronic format in Appendix F.

4.2.6 Reporting

FLS prepared daily and monthly reports during RemMetrik℠ and S-ISCO® implementation and remedial excavation. These were prepared and distributed by the Project Manager. All daily and monthly reports are included in electronic format in Appendix G.

The digital photo log required by the RAWP is included in electronic format in Appendix H.

4.3 CONTAMINATED MATERIALS REMOVAL

A list of the soil cleanup objectives (SCOs) for the contaminants of concern for this project is provided in Table 1. The Part 375-6.8 Commercial Use SCOs are the SCOs used to guide remediation.

4.3.1 Soil Removal

The entire site was excavated to a minimum of 4 ft-bg and hot spot and gross contamination areas were excavated to the maximum depth possible without the use of sheeting or shoring. Any grossly contaminated soil encountered during removal of the upper 4 feet and in hot spot areas was also removed. Soil was excavated to four to five feet in grid cells 1 through 8 and to seven feet in Grid Cell 7. A total of 7,665.3 tons were removed from the site.

The bulk of the excavated soil was non-hazardous, petroleum-impacted soil/historic fill, which was excavated to a maximum depth of 7 feet below grade. A total of 7,340.8 tons of non-hazardous, petroleum-impacted soil/historic fill was removed and transported to Soil Safe, Inc. in Logan Township, NJ for disposal.

There was one PCB hot spot area within Grid Cell 7. Hazardous PCB-contaminated soil was excavated to a depth of five feet and a total of 18.4 tons removed and transported to CWM Waste Management, LLC in Model City, NY.

A total of 306.1 tons of non-hazardous PCB-contaminated soils from 5 to 7 ft-bg within Grid Cell 7 were transported to the Atlantic County Utility Authority (ACUA) landfill in Egg Harbor Township, New Jersey.

A total of approximately 85 yd^3 of general trash including metal, tires, and general non-soil debris was unearthed and removed from the excavation. This was disposed as normal solid waste or recycled at Evergreen Recycling, TNT Scrap, D.F. Allen, and S&M Tire Recycling (refer to Section 4.3.11). Manifests are included in Appendix J.

4.3.2 UST

One former 1,000-gallon fuel oil tank, previously abandoned in place, was allowed to remain. The UST had previously been abandoned in place by filling with concrete. All piping had been previously removed as well. The UST was allowed to remain following a discussion between FLS and NYSDEC on 11/30/11, after several unsuccessful attempts to locate the tank. A second tank, an empty riveted, 550-gallon tank, was uncovered in the southwest quadrant of Grid Cell 2 and removed. Two additional USTs were uncovered in Grid Cell 7, one riveted, 550-gallon tank and one 1,000-gallon steel tank encased in a concrete vault. Two, 30-gallon steel tanks and one 750-gallon UST were also uncovered in Grid Cell 7, removed and disposed as scrap

metal. All USTs, except the one left in place, were excavated and disposed at TNT Scrap LLC, Maspeth, NY.

Chemical Oxidation and Groundwater Monitoring

Twenty-five (25) drums of well purge water/debris were removed from the site following groundwater monitoring and disposed at Cycle Chem, Elizabeth, NJ and Clean Water of New York.

A total of 1,535 gallons of waste persulfate, analytical test solution and a small volume of purge water were removed from the site following demobilization of the chemical oxidation phase and disposed at Cycle Chem, Elizabeth, NJ.

Figure 9B shows the locations of the USTs.

4.3.3 In-Situ Contaminant Mass Removal

Remediation Background and Process

Soils contaminated with coal tar and its chemical compounds were treated using *in-situ* chemical oxidation. The treatment program employed several methodologies and processes including RemMetrik^{SM}, Wavefront Environmental Solution's (Wavefront) Primawave^{TM} technology, and VeruTEK's Surfactant Enhanced In-Situ Chemical Oxidation (S-ISCO$^{®}$). RemMetrik^{SM} identified the contaminant source mass for accurate treatment targeting and uses Wavefront's Primawave^{TM} technology to inject treatment amendments into the soil matrix and reach the contaminant at the pore-scale level, where the bulk of the residual NAPL (contaminant source mass) resides. VeruTEK's S-ISCO$^{®}$ injects a plant-based surfactant (VeruSOL$^{®}$) along with the treatment chemical (sodium persulfate) to dissolve the NAPL into aqueous solution for oxidation. VeruSOL$^{®}$, sodium persulfate, and sodium hydroxide are mixed together to form the oxidant mixture that is injected into the subsurface as the treatment solution. This treatment combination was necessary because of the large amount of NAPL contamination entrapped as residual within the soil matrix. The treatment interval was a heterogeneous mixture of sands, silty sands, and silty clay strata. Much of the treatment interval contained silty clay/silt lenses and/or strata. Large variations in contaminant concentrations were evident throughout the lithology.

The injection phase began on October 26, 2010 and ended on March 30, 2011. Chemical treatment was accomplished using activated sodium persulfate. The treatment mixture, consisting of sodium hydroxide, sodium persulfate, and VeruSOL$^{®}$, was injected simultaneously. The concentration of sodium persulfate injected typically measured 25 g/L, but was adjusted from time to time to balance the application. Concentrations of 50 g/L to 75 g/L were injected on occasion. The persulfate was activated by raising the water-bearing zone pH to 9 or higher using sodium hydroxide. Sodium hydroxide was

initially injected at a concentration of 20 g/L for this purpose, but this was adjusted downward as it became apparent that less base was needed than anticipated. Throughout the treatment period the pH in injection and monitoring wells ranged from less than 4 to more than 13 and averaged 9.4

VeruSOL® was injected at a rate of 5 g/L to lower interfacial tension (IFT). IFT levels decreased from a baseline average of approximately 72 mN/m to approximately 64 mN/m. The concentrations of these chemicals were continuously monitored and adjusted during treatment to optimize the conditions for contaminant degradation.

Four Wavefront Sidewinder™ tools (Photo 25A, Appendix H) injected the oxidant mixture. The typical injection rate measured 8 gallons/minute (gpm) per well, meaning that on a typical day 32 gpm of oxidant mixture was being injected.

The following totals were injected after five months of near-continuous application.

Material	Planned, lbs	Actual, lbs	Planned, kg	Actual, kg
Sodium Persulfate	284,900	334,400	129,500	152,000
Sodium Hydroxide	225,070	136,300	102,304	61,950
VeruSOL®	65,000	65,000	29,545	29,545
Oxidant Mixture (gals)	1,300,000	1,201,900	1,300,000	1,201,900

Seventeen (17) percent more persulfate than originally planned was injected to treat the contaminant mass in the southwest corner of Parcel 8. Approximately 40 percent less sodium hydroxide than planned was required to attain the desired pH levels.

4.3.4 Treatment Zone

The treatment zone remediated by *in situ* chemical oxidation extended from 10 feet below grade (ft-bg) to 22 ft-bg as the majority of the contaminated mass occurred in this interval. The oxidant mixture was injected through 35 well clusters, each consisting of shallow well and a deep well (refer to Figure 1, *QWDC Parcel 8 Remedial Design* [Appendix D], for a figure showing well placement). The number and placement of injection wells was finalized based on the results of the pilot test completed several months earlier.

Each 2-inch-diameter customized injection well had a six-foot-length of well screen. The shallow well screens ran from 10 ft-bg to 16 ft-bg and the deep well screens ran from 16 ft-bg to 22 ft-bg. Two “deep” injection wells, IW-1B and IW-2B, in the southwest corner of Parcel 8, had well screens set from 23 ft-bg to 27 ft-bg. A third well, IW-3B, originally planned for the 23 ft-bg to 27 ft-bg interval, was installed from 18 ft-bg to 22 ft-bg because of a boulder encountered during attempted installation of the well, below which the contaminant would not have been expected to reach.

4.3.5 Treatment Effectiveness

The treatment goal was a 90 percent reduction in total contaminant mass all across Parcel 8 for soil contamination and reduction of groundwater contaminant levels to TOGs levels and/or reductions in contaminant concentrations to asymptotic levels. Total contaminant mass is defined as the sum of the TCL VOCs (Method 8260) plus TCL SVOCs (Method 8270). The analysis of the contaminant mass in pre- and post-treatment soils was completed as described below, with a more detailed description of this analysis presented in Appendix E.

Soils in the treatment zone were sampled in August 2011, approximately five months following the end of the injections. The interval between the end of injections and sampling was to allow sufficient time for most of the persulfate to cease reacting and stabilize and for the surfactant to dissipate and pH to return to pre-injection levels. However, subsurface conditions remained altered as of the end of August 2011, meaning that oxidation was probably still continuing, but at a reduced rate and additional remediation may have been realized had sampling been pushed back further. The average groundwater pH in both monitoring and injection wells measured 7.9, with the pH of 25 percent of the wells measuring 8.6 to over 10 (compared to a background pH of 7.6). Interfacial tension (IFT), the measure of surfactant activity, averaged 68.4 mN/m, with approximately 10 percent of the wells measuring an IFT of less than 63 mN/m (compared to a background of 72.4 mN/m). The remaining surfactant had noticeable effects on the measured concentrations of PAHs in soil.

4.3.5.1 Mass Reduction

The basis for dosage quantities was the original estimate of total contaminant mass. The original treatment interval estimate, based on 39 samples (including duplicates) collected during the Remedial Investigation (RI) of Parcel 8, measured 47,000 pounds. The basis for oxidant application to treat the contaminant mass was the amount of mass and its spatial distribution. Treatment was proportionately greater in those areas with the greatest mass of contaminant. Areas with little or no contaminant mass received proportionately less targeted treatment. (See sample calculation Appendix E.)

Pre- and post-treatment soil samples were collected to compare treatment effectiveness and a total of 113 pre-treatment grab samples and 114 post-treatment samples were collected for this purpose. Parcel 8 was divided into 27, 35-ft by 35-ft grid cells. Randomly located borings were advanced in each grid cell and from three to five (mostly four) randomly selected, 6-inch-long, grab samples collected within the 10 ft-bg to 22 ft-bg treatment interval.

The differences in the spatial distribution of contaminant mass and its

proportionate treatment, the variability in pre- and post-treatment contaminant concentrations, lithologic heterogeneity, and increases in SVOCs in some samples led to a high level of overall variability that needed to be addressed in the analysis of contaminant mass reduction.

This variability was addressed using a weighted analysis for contaminant mass reduction. The weighted analysis gives proportionately more weight to those areas with the greatest pre-treatment contaminant mass. In this manner, the analysis incorporates locations with increases in contaminant mass due to sample and lithologic variability as well as decreases, but weighs the results according to the initial amount of total contaminant mass. Each grid cell was divided into upper and lower treatment intervals and the pre- and post-treatment contaminant mass computed for each. The total pre-treatment contaminant mass was then divided into the mass for each grid cell to obtain the weighting factor. The sums of all pre- and post-treatment weighted contaminant mass estimates were then compared. Table 2 summarizes the reduction in total contaminant mass and reduction of the contaminant comprising the bulk of the mass, naphthalene.

Table 2 – Net Reduction in Contaminant Mass

Contaminant	Pre-treatment Weighted Mass (lbs)	Post-treatment Weighted Mass (lbs)	% Reduction
Total Mass	13,552	1,294	90.5
Naphthalene	9,439	427	95

Pre-treatment mass estimate based on 113 samples.
Post-treatment mass estimate based on 114 samples.

The overall mass reduction slightly exceeded the cleanup goal of 90 percent, while naphthalene, for which no contaminant-specific goal was set, attained a modestly higher level of reduction. These results, computed separately, support the reduction in mass.

Contaminant reduction was greatest where the injection wells centered on large contaminant masses and where there was good contact with the oxidant. For example, Grid Cell 18, very near the center of the contaminant mass body, had a pre-treatment estimated contaminant mass of 30,114 pounds in the deeper part of the treatment interval. The net reduction measured 99 percent following treatment. Grid Cell 22, with an estimated 12,498 pounds of contaminant mass in the upper part of the treatment interval, experienced 97 percent reduction. Reductions were not observed in some grid cells. Grid cells with relatively low quantities of contaminant mass that received less treatment showed increases in contaminant mass due to sample variability. This variability is expected as random sampling measures areas with and without contaminant.

In the final analysis, after adding all the weighted increases and decreases, the net contaminant mass reduction on Parcel 8 is 90.5 percent. Contaminant mass reductions beyond the Parcel 8 site boundary, while significant, inferred from significant contaminant decreases in groundwater (Section 4.3.7), have not been measured.

In addition to measurement of effectiveness by total mass, the treatment was particularly effective in reducing mass and concentrations of the key compounds that are the most toxic and mobile of those typically found in coal tar and on Parcel 8. These include benzene, toluene, ethylbenzene, total xylenes (collectively BTEX), and naphthalene. Analysis of the reductions in key compounds is based on the changes between pre- and post-treatment concentrations only, using percentile and median values, and does not weight the results based on the initial contaminant mass. In this manner, areas with little contaminant mass are given the same weight as heavily contaminated areas. Contaminant treatment was very effective and some compounds exhibited drastic reductions.

4.3.5.2 Soils

While not all compounds reached non-detect levels, there are very pronounced reductions in the concentrations of the key contaminants. The principle coal tar compounds; BTEX and naphthalene were, after treatment, closer to the Unrestricted Use SCOs than to the Commercial Use SCOs intended for Parcel 8. Table 3 compares the percentile changes (minimum, 25^{th} percentile, median (p50), 75^{th} percentile, and maximum) between pre-treatment and post-treatment concentrations and includes the percent reduction in contaminant concentrations for the median values. The differences between pre- and post-treatment median values (reductions) are statistically significant to the 95 percent level for benzene, toluene, ethylbenzene, total xylenes, and total BTEX.

Table 3 - Summary Statistics for Pre- & Post-Injection Soil Sampling Key Compounds (mg/kg)
Pre, n = 113/Post, n = 114

Compound	Pre/Post Min.	Pre/Post p25	Pre/Post p50	% p50 Reduction	Pre/Post p75	Pre/Post Max.
VOCs						
Benzene	ND/ND	ND/ND	.004/ND	100	1.3/.122	31.6/8.43
Toluene	ND/ND	ND/ND	.053/.0007	99	1.8/.91	426/285
Ethylbenzene	ND/ND	.36/.013	2.46/.935	62	18.4/7.35	229/463
Total Xylenes	ND/ND	.28/.024	6.15/1.56	75	49.2/29	603/2,890
BTEX	ND/ND	1.11/.04	12.24/2.80	77	88.03/48.9	1,137/3,641
SVOCs						
Naphthalene	ND/ND	1.97/1.1	27.9/11.15	60	1,020/720	32,100/19,600
Acenaphthene	ND/ND	.41/.70	6.14/11.85	0	99.9/158	1,950/988
Benzo(a)pyrene	ND/ND	ND/.16	.66/2.25	0	5.48/7.59	203/315
Benzo(a)anthracene	ND/ND	.028/0.24	1.04/4.45	0	11.4/16.6	232/375
Benzo(b)fluoranthene	ND/ND	ND/0.18	.31/2.23	0	5.83/7.44	204/286
Benzo(k)fluoranthene	ND/ND	ND/0.12	.16/1.52	0	2.8/4.1	119/149
Chrysene	ND/ND	.034/0.24	.83/4.16	0	8.7/15.3	280/351
Dibenzo(ah)anthracene	ND/ND	ND/ND	ND/.36	0	.53/1.42	29.7/54.9
Indeno(1,2,3-cd)pyrene	ND/ND	ND/0.092	.098/.917	0	1.96/3.5	121/184
Phenanthrene	ND/ND	.55/1.28	11.9/20.95	0	211/300	2,800/1,870

Results rounded from ug/kg. ND – non-detect. Non-detects treated as -0.0001 in analysis. n = number of samples. p = percentile.

Volatile Organic Compounds (VOCs)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX) are the principal VOCs associated with coal tar and the VOCs found on Parcel 8. Figures 3 and 4 compare the pre- and post-treatment soil sampling results. Table 4 presents the post-treatment soil sampling results.

Benzene

Comparing the pre- and post-treatment median concentrations, Table 3 shows a 100 percent reduction in benzene. Measurable levels of benzene still remain but among these there are important changes. While all 113 pre-treatment benzene soil measurements were below the Commercial Use SCO of 44,000 ug/kg, 50 were above the Unrestricted Use SCO (60 ug/kg). Following treatment, the number of benzene concentrations above the Unrestricted Use SCO decreased by 36 percent to 32 occurrences and the number of non-detects increased by 34 percent. The increase in non-detects was accompanied by an 82 percent reduction in the mean detection level for measurements below the detection level. This reduction in the detection limit indicates reduced interferences from other organic compounds in the soils (not in the Target Compound List) along with the target compounds.

Toluene

Comparing the pre- and post-treatment median concentrations, Table 3 shows a 99 percent reduction in toluene. Measurable levels of toluene still remain but among these there are again important changes. While all 113 pre-treatment toluene soil concentrations were below the Commercial Use SCO of 500,000 ug/kg, 35 were above the Unrestricted Use SCO (700 ug/kg). Following treatment, the number of toluene concentrations above the Unrestricted Use SCO decreased by 14 percent. The number of non-detects increased by 56 percent following treatment. The increase in non-detects was accompanied by a 78 percent reduction in the mean detection level for measurements below the detection level.

Ethylbenzene

Comparing the pre- and post-treatment median concentrations, Table 3 shows a 62 percent reduction in ethylbenzene. Measurable levels of ethylbenzene still remain but among these there are again important changes. While all 113 pre-treatment toluene soil concentrations were below the Commercial Use SCO of 390,000 ug/kg, 76 were above the Unrestricted Use SCO (1,000 ug/kg). Following treatment, the number of ethylbenzene concentrations above the Unrestricted Use SCO decreased by 25 percent and the number of non-detects increased by more than two-fold. Fifty (50) percent of the ethylbenzene results are now below the Unrestricted Use SCO

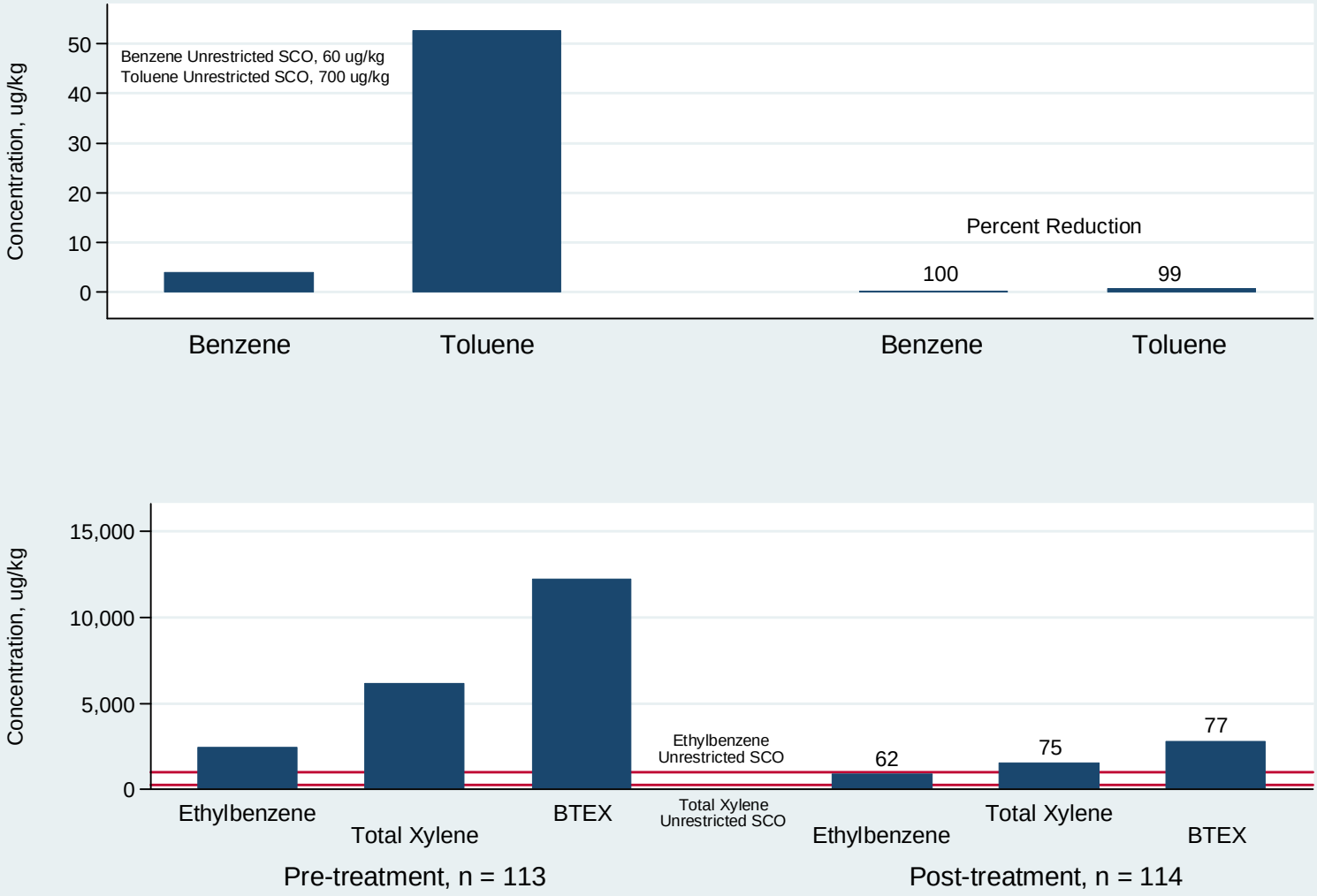
Total Xylenes

Comparing the pre- and post-treatment median concentrations, Table 3 shows a 75 percent reduction in total xylenes. Measurable levels of total xylenes still remain but among these there are again important changes. While all but four of the 113 pre-treatment total xylenes soil concentrations were below the Commercial Use SCO of 500,000 ug/kg, 85 were above the Unrestricted Use SCO (260 ug/kg). Following treatment, the number of total xylenes concentrations above the Unrestricted Use SCO decreased by 19 percent. Four total xylenes results were above the Commercial Use SCO before treatment. Following treatment, only one sample remains above the Commercial Use SCO, a 75 percent reduction. There was a 50 percent increase in the number of non-detects following treatment.

Total BTEX

Comparing the pre- and post-treatment median concentrations, Table 3 shows an overall 77 percent reduction in total BTEX concentrations. Post-treatment non-detects increased by 3.5-fold following treatment.

Figure 3 - Comparison of Pre & Post Treatment Median Soil VOC Concentrations



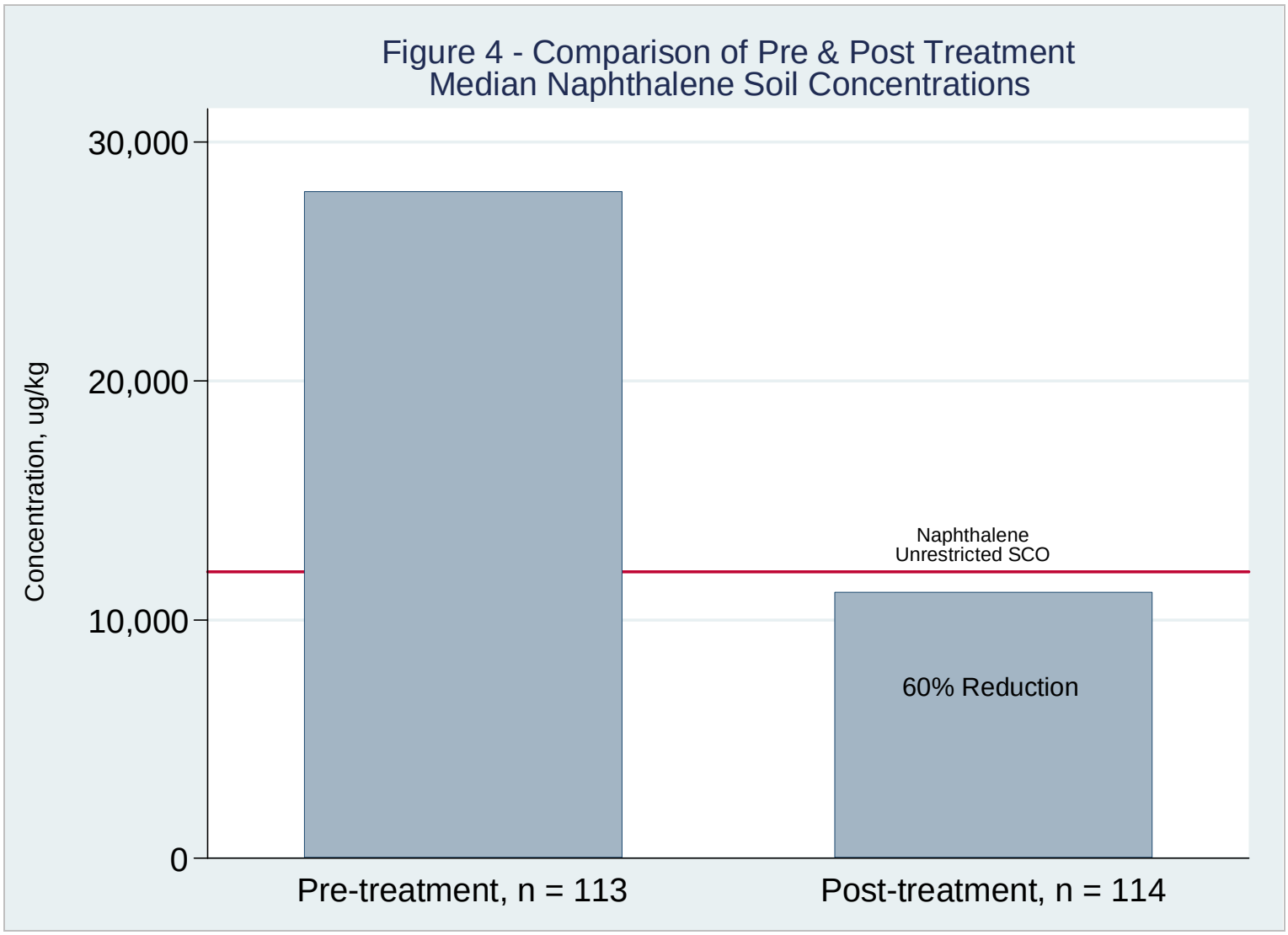
Semi Volatile Organic Compounds (SVOCs)

Naphthalene is a principal component of coal tar and one of the primary SVOCs and polycyclic aromatic compounds (PAH) affecting Parcel 8 soils and groundwater. Naphthalene is a major compound because it is the most soluble and mobile of the SVOCs and because it comprises the largest portion of the SVOC contamination. Other SVOCs present at the site are the much heavier PAHs.

Naphthalene

Comparing the pre- and post-treatment median concentrations, Table 3 shows a 60 percent reduction. Measurable levels of naphthalene still remain but among these there are again important changes. Following treatment, the number of naphthalene concentrations above the Unrestricted Use SCO (12,000 ug/kg) decreased by

approximately 15 percent. Now, 50 percent of the naphthalene concentrations are below the Unrestricted Use SCO as shown in Figure 4.



SVOCs Other than Naphthalene

The heavier PAH compounds comprise the SVOCs other than naphthalene present at the site. These are characterized by very low solubility, very high soil-water partition coefficients (they adhere very strongly to soil surfaces), higher molecular weight, and having three or more carbon rings. As Table 3 indicates, the post-treatment levels for these compounds—on an un-weighted basis--are higher than pre-treatment levels. The implications of increased measured SVOC soil concentrations on groundwater are discussed in Section 4.3.6.

The increase in un-weighted soil concentrations occurred only in the PAH compounds. Since contamination was not added, but these concentrations increased in some soils following treatment, the change is most likely attributable to the surfactant, which was added to desorb compounds for treatment and to the oxidant, which also promotes desorption. This phenomenon has been observed in other instances when surfactants have been added and appears to be a limitation of Method 8270, which relies on organic solvents for extraction. These solvents may not fully desorb heavy SVOCs. The surfactant desorbed the PAHs from soil effectively, as intended, but these heavy, multiple-ring compounds were not fully oxidized where the original contaminant mass was low and treatment less intense.

This finding has implications for the analytical method, 8270. Method 8270 is the primary analytical method for measuring SVOCs. Apparently when soils are analyzed after a surfactant treatment a greater quantity of SVOCs desorb for measurement. This suggests that under typical use, Method 8270 underestimates the quantity of these heavier compounds.

4.3.6 Groundwater

Pre-treatment (baseline) samples for groundwater were collected between November 2008 and October 2009 as part of the Parcel 8 RI and the Parcel 8 Off-site RI (FLS and AKRF data). Between two and five groundwater samples per well were collected for this purpose. Groundwater concentrations for BTEX and naphthalene, the principal groundwater contaminants, varied considerably within the baseline sampling period. Table 5 presents the post-treatment groundwater sampling results.

Post-treatment groundwater sampling took place on Parcel 8, Peninsula State Park, and Gantry Plaza State Park between September 12, 2011, and September 16, 2011.

The wells were checked again for the presence of NAPL, but as before treatment, none was observed. FLS and VeruTEK also inspected the 47th Street Outfall and the embayments on either side of Peninsula Park daily or every other day during the five-month injection period. No observations of NAPL, dissolved NAPL, odors, sheen, or other indications of the injected material or contamination reaching the water body were ever observed.

Parcel 8 Treatment Interval

There are nine monitoring wells on Parcel 8 within the 10 ft-bg to 22 ft-bg treatment zone from which to make representative comparisons of pre- and post-treatment groundwater sampling results. Wells with a maximum screen depth of 24 feet were included for evaluation of the treatment zone in order to account for dispersion of oxidant and diffusion. The monitoring wells include the following:

Monitoring Well	Top of Well screen	Bottom of Well Screen
MW-10	13	23
MW-13(S)	7.3	17.3
MW-14(S)	8.2	18.2
MW-16(S)	8.5	18.5
MW-17(S)	7.7	17.7
MW-20(S)	7.9	17.9
MW-21(S)	9.3	19.3
MW-23(S)	7.3	17.3
MW-9	13.7	23.7

VOCs

Significant groundwater concentration reductions occurred among the key VOC compounds. Reductions range from 49 percent in toluene to 92 percent for total xylenes. Benzene decreased by 87 percent, ethylbenzene by 90 percent, and BTEX by 91 percent. Figure 5 shows the pre- and post-treatment results for the key VOCs. Table 6 presents a comparison of the percentile changes between pre-treatment and post-treatment concentrations and includes the percent reduction in contaminant concentrations for the median (p50) values.

Benzene concentrations decreased and met the TOGS GA AWQS in three wells where pre-treatment concentrations were above the AWQS of 1 ug/L. Following treatment, benzene concentrations were below detection limits in MW17(S), MW20(S), and MW23(S). This represents one-third of the monitoring wells in the Parcel 8 treatment interval. Benzene decreased in all other wells in the treatment interval, except for MW10, but still remains above the AWQS for all of these wells.

Ethylbenzene met the TOGS AWQS in two wells where pre-treatment concentrations were above the guidance value of 5 ug/L. Following treatment, ethylbenzene concentrations were below 5 ug/L in MW17(S) and MW20(S), the same wells where benzene was below TOGS.

Toluene showed variable changes. Overall, six out of nine wells showed a decrease in toluene and median toluene concentration decreased by 49 percent compared to pre-treatment concentration. Toluene concentrations were below detection limits in two wells, MW17(S) and MW23(S), for the first time since sampling began and exhibited increases in MW9, MW10, and MW20(S). MW17(S) and MW23(S) were the only wells with post-treatment concentrations below the TOGs toluene guidance value of 5 ug/L. In a third well, MW13(S), toluene dropped appreciably to 6.4 ug/L and came close to the TOGS guidance value.

Overall, seven out of nine wells showed a decrease in total xylenes and the median concentration of total xylenes decreased by 92 percent compared to pre-treatment concentrations. Only one well, MW17(S) reached the TOGS total xylene guidance value of 5 ug/L. Wells MW10 and MW9 showed no appreciable change or a modest increase over pre-treatment concentrations.

The post-treatment median total BTEX concentration showed an overall 91 percent decline compared to the pre-treatment concentration. Post-treatment BTEX concentrations were below the pre-treatment maximum concentrations in all wells except MW9, where BTEX increased slightly from a pre-treatment maximum of 21.94 mg/L to 32.15 mg/L. Table 6 summarizes the post-treatment groundwater results within the treatment interval.

Table 6 - Summary Statistics for Pre- & Post-Injection Groundwater Sampling in Treatment Zone
Key Compounds, ug/L, Pre, n = 32/28; Post, n = 9
Wells Screened from 10 to 24 ft below Grade

Compound	Pre/Post Min.	Pre/Post p25	Pre/Post p50	% p50 Reduction	Pre/Post p75	Pre/Post Max.
VOCs						
Benzene	ND/ND	10.7/ND	95.8/12.8	87	1,565/1,310	5,050/1,760
Toluene	ND/ND	1.8/6.4	36.8/18.9	49	9,465/4,540	14,300/23,200
Ethylbenzene	0.87/ND	68.6/11.2	516/52.7	90	1,300/1,210	3,530/1,950
Total Xylenes	ND/ND	123/44.1	829/63.9	92	5,170/4,890	13,900/8,640
BTEX	0.87/ND	224/88.8	1,518/129.8	91	21,042/16,270	29,670/32,150
SVOCs						
Naphthalene	ND/4.5	387/304	6,640/1,310	80	12,000/7,970	78,400/9,460
Acenaphthene	1/.57	54.3/10.7	151/82	46	215/155	486/375
Benzo(a)pyrene	ND/ND	ND/ND	0.26/.58	-123	2.9/1.8	22.2/9.9
Benzo(a)anthracene	ND/ND	ND/.65	.88/1	-14	4.2/2.8	27/12.3
Benzo(b)fluoranthene	ND/ND	ND/ND	0.50/.74	-48	3.8/1.9	17/6.5
Benzo(k)fluoranthene	ND/ND	ND/ND	.22/ND	100	1.8/1	15.7/6.5
Chrysene	ND/ND	ND/.43	.74/1.3	-76	3.8/3	27.3/11.5
Dibenzo(ah)anthracene	ND/ND	ND/ND	ND/ND	0	.22/ND	4.1/2.2
Indeno(1,2,3-cd)pyrene	ND/ND	ND/ND	ND/.4	-100	1.4/.81	9.7/4.9
Phenanthrene	ND/ND	38/19	62/40.3	35	84/51.4	206/352

The benzene and ethylbenzene non-detect results from MW-20(S) were rejected due to pH >2 and the sample subsequently being analyzed outside the 7-day holding time. If these are omitted, the percent reduction for benzene is 83% and 38% for ethylbenzene; the other VOCs remain unaffected.

SVOCs

Among the SVOCs, naphthalene showed the largest reduction. The median post-treatment naphthalene concentration decreased by 80 percent (Table 6 and Figure 6)

compared to the pre-treatment concentration. Other SVOC compounds declined as well. Acenaphthene decreased by 46 percent, phenanthrene by 35 percent, and benzo(k)fluoranthene by 100 percent. The remaining PAHs did not show a decrease in median concentrations, and five PAHs exhibited modest increases in concentration. The slight increase is most likely an artifact of residual surfactant and its effect on soils.

Despite the increase of the heavier SVOCs measured in some soils, the effects are predominantly confined to soils with no consequential effects on groundwater. For example, the median post-treatment soil concentrations for acenaphthene and phenanthrene increased by 93 percent and 76 percent, respectively, but their groundwater concentrations still *decreased* by 46 and 35 percent. The median benzo(k)fluoranthene post-treatment concentration in soils increased by more than nine times, but the post-treatment median groundwater concentration was below detection limits. In the two instances where PAH levels in soils increased by nearly an order of magnitude, the groundwater concentrations increased only slightly, by 0.4 ug/L and 0.56 ug/ L. This indicates that soil increases in the heavier SVOCs have no material effect on groundwater concentrations. Groundwater concentrations for the heavy SVOCs, despite registering percentage increases, had net concentrations that remained effectively the same as pre-treatment levels.

Post-treatment maximum concentrations for all SVOCs in Table 6 decreased by approximately 50 percent, except for phenanthrene and acenaphthene.

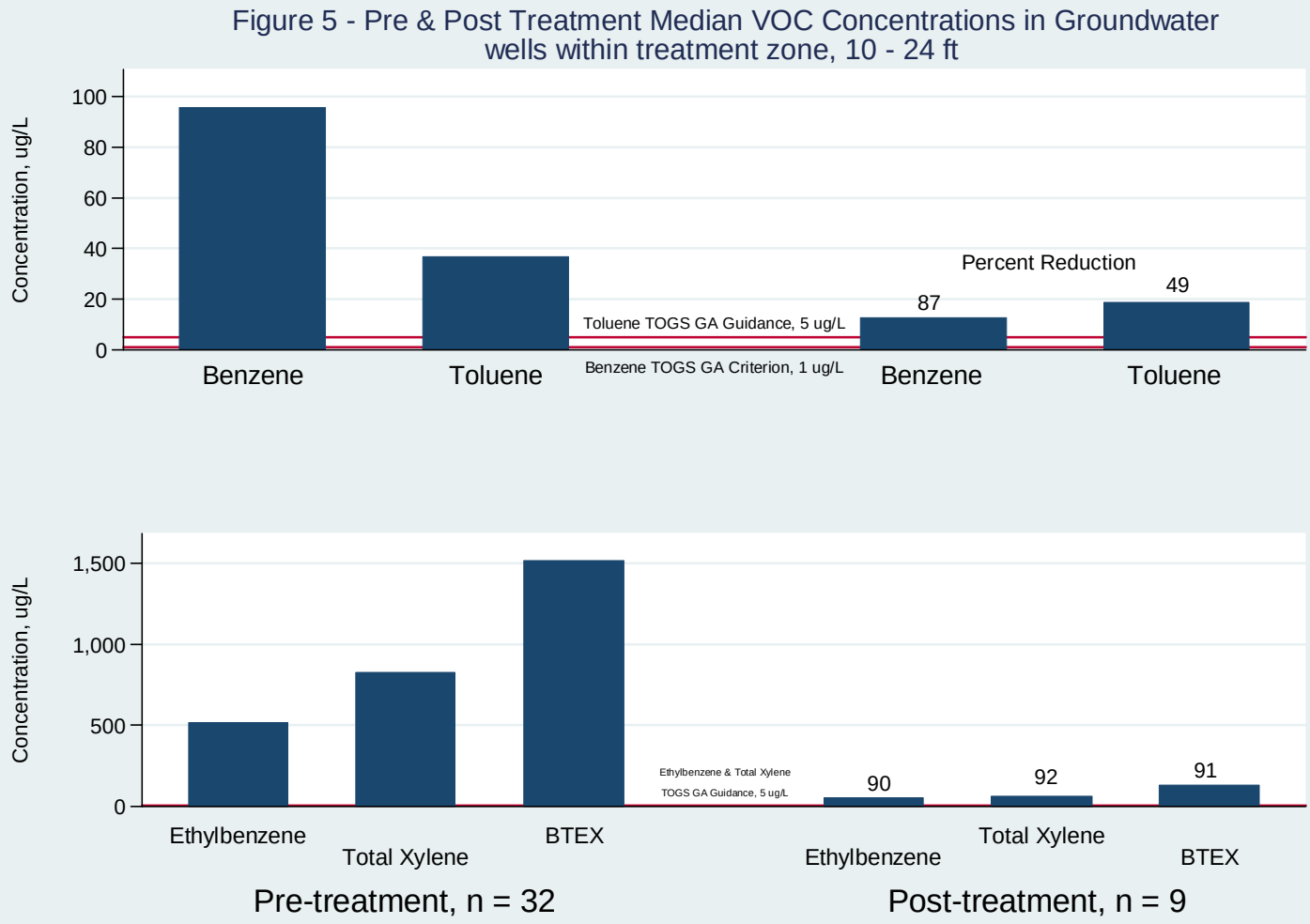
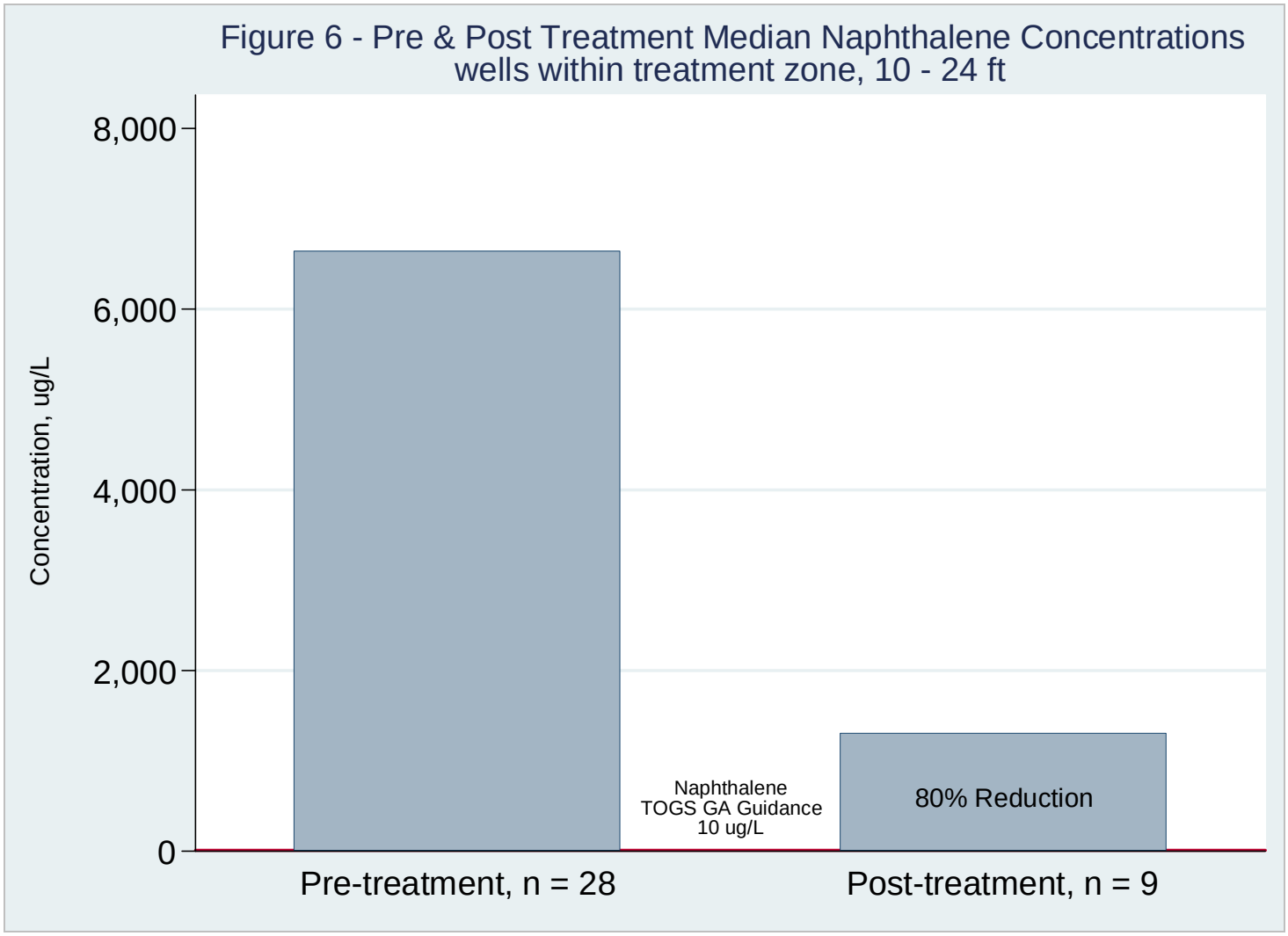


Figure 5 - Pre & Post Treatment Median VOC Concentrations in Groundwater wells within treatment zone, 10 - 24 ft
Concentration, ug/L
100
80
60
40
20
0
Benzene
Toluene
Toluene TOGS GA Guidance, 5 ug/L
Benzene TOGS GA Criterion, 1 ug/L
Percent Reduction
87
49
Benzene
Toluene
Concentration, ug/L
1,500
1,000
500
0
Ethylbenzene
Total Xylene
BTEX
Ethylbenzene & Total Xylene
TOGS GA Guidance, 5 ug/L
90
92
91
Ethylbenzene
Total Xylene
BTEX
Pre-treatment, n = 32
Post-treatment, n = 9



The post-treatment median naphthalene concentration showed an overall 80 percent decline compared to the pre-treatment concentration and showed overall decreases in all nine wells. Naphthalene reductions compared to the median results from earlier sampling ranged from 10 percent to 96 percent. A third of the wells experienced naphthalene reductions of 88 percent and higher.

Naphthalene was below the TOGS GA AWQS Guidance value of 10 ug/L in MW17(S). For example, in three previous pre-treatment groundwater sampling events, the naphthalene concentration in MW17(S) ranged from approximately 66 ug/L to 387 ug/L and had a median concentration of 128 ug/L. In the first post-treatment round of sampling, naphthalene measured 4.5 ug/L in this well.

Groundwater serves as an indicator of mass reduction because contaminants come off the soil surfaces into solution. The pronounced reductions in groundwater

contaminant concentration over the treatment interval would be possible only if there was an appreciable reduction in contaminant mass. Consequently, the reductions in groundwater concentration also point to a significant reduction in contaminant source mass.

Below Treatment Zone

There are seven wells with well screens below the treatment zone on Parcel 8, i.e., deeper than 24 ft-bg.

Monitoring Well	Top of Well screen	Bottom of Well Screen
MW-11 (D)	17.3	27.3
MW-12(D)	26.6	36.6
MW-15(D)	18	28
MW-18(D)	19	29
MW-19(D)	23.3	33.3
MW-22(D)	25.7	35.7
MW-7R	20.4	30.4

Table 7 presents a comparison of the percentile changes between pre-treatment and post-treatment groundwater concentrations and includes the percent reduction in contaminant concentrations for the median values.

Table 7 - Summary Statistics for Pre- & Post-Injection Groundwater below Treatment Zone
Key Compounds, ug/L, Pre, n = 23, 22/Post, n = 7
Wells Screened from > 24 ft below Grade

Compound	Pre/Post Min.	Pre/Post p25	Pre/Post p50	% p50 Reduction	Pre/Post p75	Pre/Post Max.
VOCs						
Benzene	ND/3.3	40.3/41.5	164/213	0	319/2,000	5,120/4,350
Toluene	ND/3.6	8.5/4.1	50.2/71.5	0	254/446	671/1,310
Ethylbenzene	ND/1.5	472/410	742/870	0	1,050/1,630	1,680/2,160
Total Xylenes	ND/2.6	374/144	720/1,150	0	2,380/4,720	2,730/6,320
Total BTEX	ND/11	1,392/802	1,633/2,305	0	4,328/11,260	9,205/11,535
SVOCs						
Acenaphthene	1.8/2.6	127/149	232/235	0	348/326	405/355
Naphthalene	ND/19.6	73.8/835	4,290/7,110	0	11,200/8,370	46,800/10,900
Benzo(a)pyrene	ND/ND	ND/ND	ND/ND	0	ND/ND	0.75/7.6
Benzo(a)anthracene	ND/ND	ND/ND	ND/ND	0	.43/.53	1.8/12.5
Benzo(b)fluoranthene	ND/ND	ND/ND	ND/ND	0	ND/ND	3/5.9
Benzo(k)fluoranthene	ND/ND	ND/ND	ND/ND	0	ND/ND	.49/1.9
Chrysene	ND/ND	ND/ND	ND/ND	0	ND/.42	1.6/9.9
Dibenzo(ah)anthracene	ND/ND	ND/ND	ND/ND	0	ND/ND	ND/.79
Indeno(1,2,3-cd)pyrene	ND/ND	ND/ND	ND/ND	0	ND/ND	ND/2
Phenanthrene	ND/2	30/9	56.5/63	0	74.6/96.4	156/523

Table 7 shows that the zone below the treatment interval did not exhibit any reductions. This is in stark contrast to the high level of reductions observed within the treatment zone just a few feet above.

The exception to this observation is in Peninsula Park and Gantry Plaza State Park. Off the southwest corner of Parcel 8 are three wells screened below the Parcel 8 treatment zone on. The wells, MW26(D), MW27(D), and MW30(D), have well screens overlapping the screened interval of the two bottom injection wells (IW-1B and IW-2B) on Parcel 8. Comparison of the post-treatment BTEX results to the median pre-treatment values in MW26(D), MW27(D), and MW30(D) show BTEX reductions of 23 percent, 43 percent, and 24 percent, respectively.

4.3.7 Off-site Wells in Peninsula Park and Gantry Plaza State Park

Reductions in contaminant concentrations occurred beyond the Parcel 8 treatment area and site boundary. Collateral remediation occurred beyond the Parcel 8 site boundary because pulsing is able to transmit oxidant more than 100 feet from the injection points under the right conditions. In some instances, pronounced reductions occurred at some distance from the Parcel 8 site boundary.

Reductions in BTEX concentrations occurred in several wells in Peninsula Park and Gantry Plaza State Park. For example, BTEX was below detection levels in MW24(S) compared to the two pre-treatment samples with a median BTEX concentration of approximately 529 ug/L (n = 2). MW24(S) is more than 60 feet from the Parcel 8 site boundary. Small but detectable increases in pH and simultaneous decreases in IFT and increases in specific conductance appeared in this well. There was a one-time detection of sodium persulfate, but it is likely that persulfate, measured in g/L, was present for an extended period in MW24(S) at concentrations below the detection limit. Naphthalene in MW24(S) decreased by more than 99 percent compared to the pre-treatment median value of 3,005 ug/L (n = 2). Table 8 lists Off-site monitoring wells, their distance from Parcel 8, and changes in BTEX and naphthalene concentrations.

A few wells exhibited no change or a slight increase in BTEX or naphthalene. MW25(S) and MW27(S) measured essentially the same BTEX concentrations in the post-treatment groundwater samples and MW26(D) and MW30(D) showed a slight increase in naphthalene concentrations.

Most striking are the large reductions in MW24(S) and MW25(D), which are approximately 63 feet and 135 feet from the Parcel 8 boundary, respectively. The reductions occur in wells where groundwater injection parameters were observed, indicating that the reductions are in response to the injections, as opposed to natural variation. Observations of groundwater level changes and water quality changes in response to pulsing over 120 feet from the injection point are consistent with similar observations witnessed during the pilot test. These observations point to a definite correlation between the range of treatment and injection parameters.

Table 8 – Comparison of BTEX & Naphthalene in Off-Site Monitoring Wells, ug/L
Percent Reductions Compared to Median Pre-treatment Values

Sample	Treatment	BTEX	% BTEX Reduction	Naphthalene	% Naph. Reduction	Feet[1] from Parcel 8	Injection Parameters Observed[2]
MW24(S)	Pre	472.2		2,520			
	Pre	586.1		3,490			
	Post	*ND*	*100*	*3.8*	*>99*	*63*	*Y*
MW25(D)	Pre	193.5		682			
	Pre	331.3		.77			
	Post	*44.9*	*83*	*173*	*49*	*135*	*Y*
MW25(S)	Pre	24.5		ND			
	Pre	29.9		215			
	Post	*47*	*0*	*59.9*	*44*	*135*	*Y*
MW26(D)	Pre	83,740		9,920			
	Pre	43,510		15,200			
	Post	*48,950*	*23*	*20,600*	*0*	*20*	*Y*
MW26(S)	Pre	22,670		11,200			
	Pre	8,513		12,200			
	Post	*5,868*	*62*	*6,690*	*43*	*20*	*Y*
MW27(D)	Pre	2,497		2,920			
	Pre	853.5		1,080			
	Post	*950.3*	*43*	*400*	*80*	*40*	*Y*
MW27(S)	Pre	137		383			
	Pre	378.3		230			
	Pre	42.9		--			
	Post	*382.8*	*0*	*298*	*3*	*40*	*Y*
MW30(D)	Pre	4,196		7,060			
	Pre	7,416		4,210			
	Post	*4,396*	*24*	*11,200*	*0*	*8*	*Y*
MW30(S)	Pre	2,922		8,500			
	Pre	546.9		.96			
	Post	*34.7*	*98*	*538*	*87*	*8*	*Y*

[1] Approximate distance from nearest Parcel 8 boundary.
[2] Coincident changes in pH, IFT and/or specific conductance observed in response to injection. (Y/N, yes/no)

In addition to the reductions noted, benzene met the TOGS GA criterion in four wells: MW24(S), MW28(D), MW28(S), and MW30(S) in the first post-treatment sampling event. (Note that the well screen bottom in MW28(D) was below the treatment interval (26.6 ft) and that benzene in MW28(S) was low prior to treatment.) Although not meeting TOGS, benzene in the most heavily contaminated well cluster, MW26(S/D), dropped appreciably. Benzene in MW26(S) dropped by 65 percent compared to the pre-

treatment median concentration and dropped by 30 percent in MW26(D). Naphthalene decreased below the TOGS GA AWQS Guidance value of 10 ug/L in MW24(S).

The contaminant reductions in the off-site groundwater indicate that contaminant destruction has taken place off site and that on-site contaminants are not migrating from the site to Gantry Plaza State Park or Peninsula Park. The reductions also mean that impacts to the river, while considered minimal at the outset, have been further reduced.

4.3.8 Groundwater Geochemical Parameters

Injections of chemical oxidation ceased as of July 2011 in Center Boulevard, but groundwater remediation will likely continue for some time. The addition of persulfate and surfactant appear to have promoted natural attenuation, and the surfactant, VeruSOL®, RemMetrik^{SM} and Primawave^{TM} appear to have markedly increased contact between the contaminant and groundwater as some geochemical groundwater parameters have changed markedly since treatment.

Iron

Dissolved iron in groundwater in the treatment zone has increased dramatically. Pre-treatment iron concentrations ranged from 193 ug/L to 19,100 ug/L (p50 4,995) and had a mean concentration of 7,368 ug/L. Post-treatment iron concentrations ranged from ND ug/L to 869,000 ug/L (p50 6,590) and had mean concentration of 182,198 ug/L. This is an approximately 25-fold increase in the mean concentration. Iron is a terminal electron acceptor in microbial mediated degradation of organic compounds. The large increase in dissolved iron indicates that active microbial degradation is occurring. Degradation would be expected to act on the residual surfactant as well as on the remaining organic contaminants. An increase in dissolved iron also occurred in wells screened below the treatment interval.

Sulfate

Dissolved sulfate in groundwater in the treatment zone has also increased dramatically because of the persulfate added as the treatment chemical. Pre-treatment sulfate concentrations ranged from 149 mg/L to 848 mg/L (p50 735) and had a mean concentration of 875 mg/L. Post-treatment sulfate concentrations ranged from 348 mg/L to 1,940 mg/L (p50 1,190) and had mean concentration of 3,950 mg/L. This is an approximately 9-fold increase in the mean concentration. Sulfate is a terminal electron acceptor in microbial mediated degradation of organic compounds and is used by microbes after (and/or during) iron has been exhausted. The increase in sulfate indicates that an additional, although as yet unused or partially used, source of electron acceptors is available should the iron become exhausted. This means that additional groundwater reductions may be expected over time. A large increase in sulfate also occurred in wells screened below the treatment interval.

Alkalinity

Alkalinity is a measure of microbial degradation and increased alkalinity indicates that microbial degradation is taking place. Pre-treatment alkalinity concentrations ranged from 398 mg/L to 1,410 mg/L (p50 444) and had a mean concentration of 464 mg/L. Post-treatment alkalinity concentrations ranged from 348 mg/L to 1,940 mg/L (p50 1,300) and had mean concentration of 1,164 mg/L. This is an approximately 33 percent increase in the mean concentration. A large increase in alkalinity also appeared in wells screened below the treatment interval. The geochemical changes indicate that active microbial attenuation is probably occurring and that groundwater contaminants will continue to degrade.

4.3.9 Soil Pressure Monitoring

Pressure measurements were collected during injections to monitor changes in soil gas pressures arising from chemical destruction of the contaminant. The concern was that the injections would generate gases and increase soil gas pressures that could potentially drive VOCs into buildings. In response, soil pressure measurements were collected on a daily and subsequently weekly basis prior to and throughout the entire injection period from each of the ten (10) soil vapor monitoring points. Points one through four lie in front of PS 78Q and the remaining six were on the south, west, and north sides of Parcel 8. These soil gas points were installed from 5 to 8 ft-bg with 0.5 foot of intake screen. Figure 2 shows the locations. Soil gas pressure measurements are presented in Appendix F.

Starting on 10/12/10, measurements were collected daily to establish baseline conditions. Measurements began using a Dwyer MARK II, 0-3" w.c. analog manometer, but starting 10/21/10, FLS switched to a Dwyer 475 MARK II-000 digital manometer. With NYSDEC's agreement, the measurement frequency was reduced to once per week beginning 12/6/10 and continued to 3/30/11. Table 9 summarizes and compares the pre-injection and injection soil gas pressure readings, in inches of H_2O, from October 12 through March 30, 2011.

Table 9 – Soil Gas Pressures, Inches of H_20 (w.c.)

	n	min	p25	p50	p75	max	mean
Pre-injection	65	-0.032	0	.005	.017	.1	.012
Injection	375	-0.047	0	.014	.028	.217	.016

Both pre-injection pressures and pressures following the start of injections are miniscule (and, in some cases, negative). The average pre-injection pressure is 0.012 inches of water and the maximum pressure 0.1 inches. Injection pressure averaged 0.016

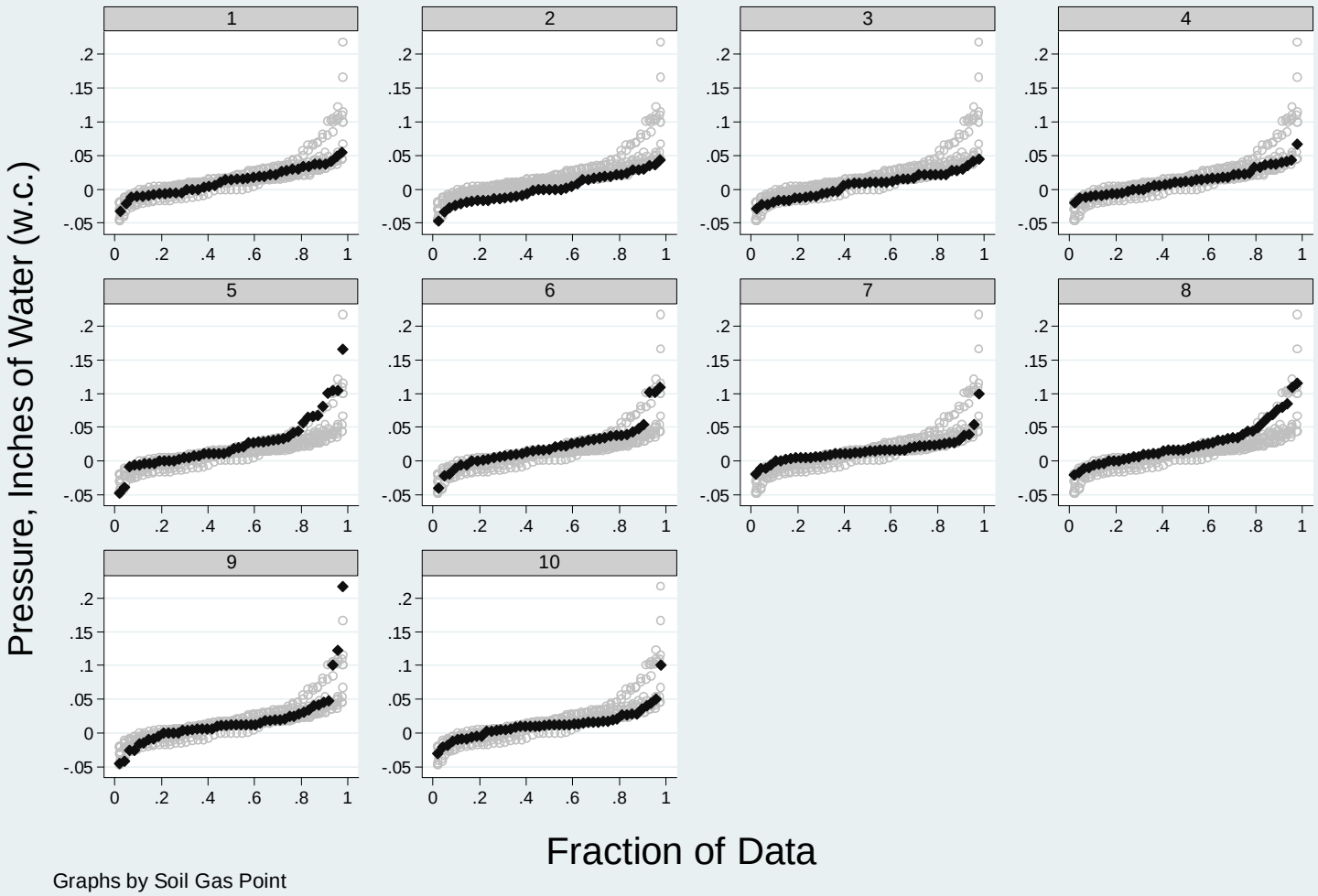
inches and the maximum measured 0.217 inches. Both represent extremely low pressures. For comparison, according to the American Gas Association, 2011, about natural gas pressure in home appliances, "When the gas reaches a customer's meter, it passes through another regulator to reduce its pressure to under ¼ pound [6.9 inches of water], if this is necessary. (Some services lines carry gas that is already at very low pressure.) This is the normal pressure for natural gas within a household piping system, and is less than the pressure created by a child blowing bubbles through a straw in a glass of milk"(http://www.aga.org/Kc/aboutnaturalgas/consumerinfo/Pages/NGDeliverySystem.aspx). The average soil pressure measurements collected as part of the remediation of Parcel 8 are more than 400 times lower than natural gas pressures in home appliances.

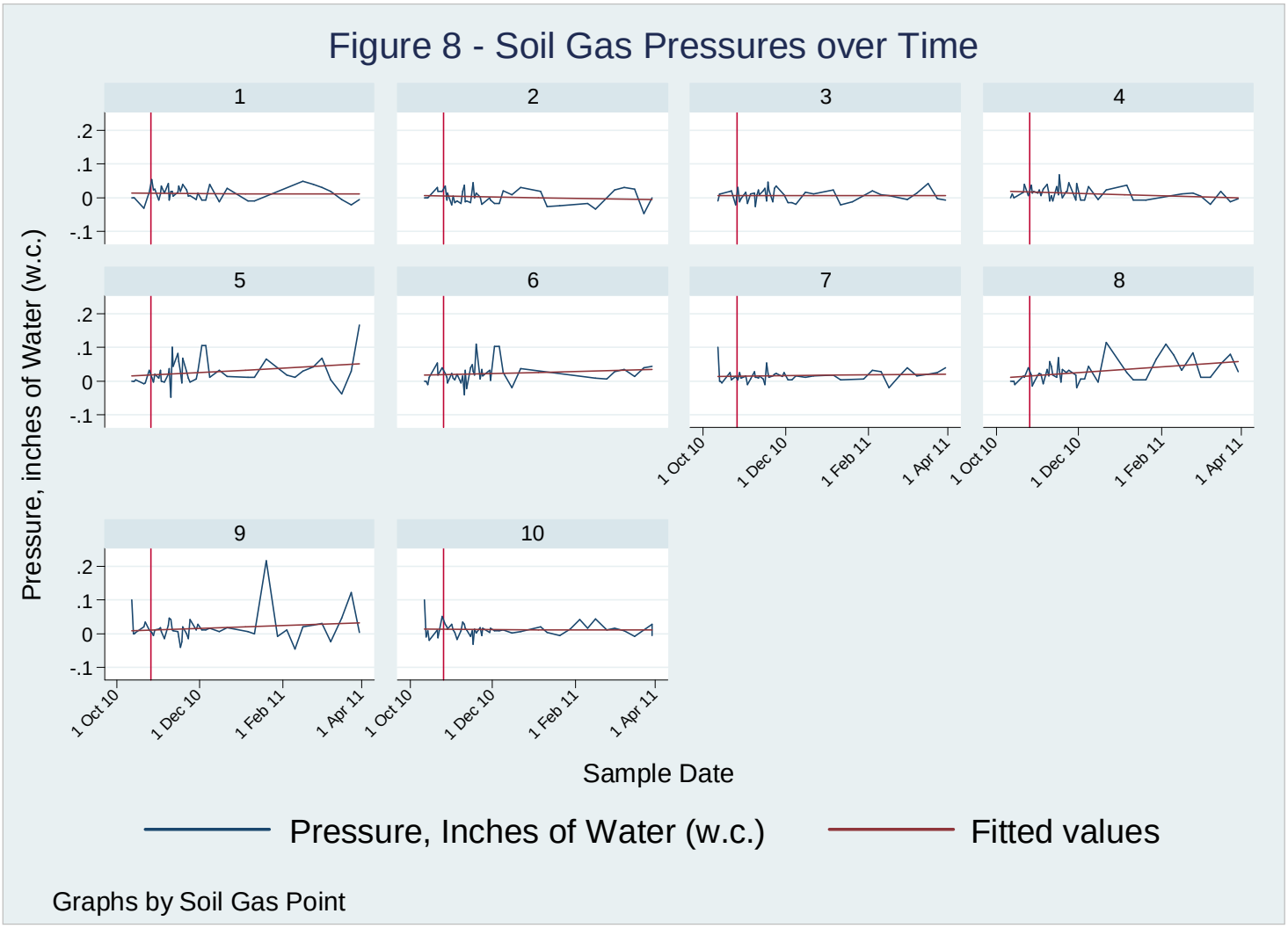
The average difference between pre-injection and injection soil gas pressures is 0.004 inches of water, meaning there is no effective difference between soil gas pressures before the injections began and those collected during the injection phase. The 0.004-inch difference is not statistically different and, even if it were, would not have any practical significance. The results of soil pressure monitoring have shown no change in soil gas pressures despite 152,000 kg (334,400 pounds) of oxidant having been injected over five months.

Examining all 440 soil gas pressure measurements together, over 90 percent of the soil gas pressures ranged from -0.025 inches to 0.05 inches, a difference of only 0.075 inches. This distribution remains nearly identical whether the soil gas pressure measurements are viewed as a whole or if baseline measurements are compared to injection measurements.

Figure 7 presents quantile plots of all the soil gas pressure data through March 30, 2011. The data are ordered from lowest to highest for each soil gas point (SGP) over the entire injection period. Soil gas pressures are on the ordinate axis and the fractions of values are on the abscissa. Values for a particular SGP are in black and those of all the other SGPs are in grey background. The results show the very small range of values and very little difference in soil gas pressures between monitoring points. The results demonstrate that very low soil gas pressures continue to dominate the subsurface despite all the oxidant having been injected. Figure 8 shows the soil gas pressures over time, with the vertical red line separating baseline soil gas readings from those collected during injection.

Figure 7 - Quantile Plots of Soil Gas Pressures





Soil Vapor

Three baseline soil vapor samples were collected in front of PS 78Q on October 13, 2010, for the purpose of measuring organic vapors before the chemical treatment began. The samples were collected from soil vapor monitoring points installed approximately 4 to 6 ft-bg and analyzed by Method TO-15, plus naphthalene. Additional soil vapor samples would have been collected if deemed necessary by increasing soil gas pressures in response to injection, but this was unnecessary and additional soil vapor samples were not collected during the treatment of Parcel 8.

Another set of baseline samples was collected at the same soil gas sampling locations on 4/6/2011 to document baseline conditions prior to treating Center Boulevard. These samples were collected in the interim between when Parcel 8 treatment and before treatment began on Center Boulevard. As a result, the Center Boulevard baseline soil vapor samples also serve as post-treatment samples for Parcel 8.

The soil vapor points are more than 100 feet from the southeast corner of Parcel 8 and they were not intended to monitor treatment at this location. Treatment of soil gas this far from Parcel 8 and in the unsaturated zone was not contemplated at the time, but as the groundwater results show, treatment can extend beyond 100 feet.

Table 10 shows the results of soil vapor analysis before and after treatment. BTEX compounds and naphthalene show very large reductions at all sample locations. Large reductions appear in PCE and TCE as well. There was a modest increase in methylene chloride at one location that may be a laboratory artifact. Overall, reductions in BTEX, naphthalene, and PCE, and TCE are approximately 90 to 100 percent. PCE decreased below the NYSDOH indoor air guideline of 100 ug/m^3 in all three samples. The observation that natural degradation compounds such as acetone and ethanol increased at two of the three sampling points while the contaminants in soils decreased further supports contaminant reduction in response to the injections. Table 11 presents all the tabulated results.

Table 10 – Summary of Pre- & Post-treatment Soil Vapor Results, ug/m^3

Sample	Date	Acetone	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Ethanol	Naphth-alene	Isopro-panol	PCE	TCE	$MeCl_2$
SV2	10/13/2010	ND	2.5	5.6	31	27	ND	2.9	ND	100	.97	ND
SV3	10/13/2010	ND	ND	8.7	62.6	36	ND	1.1	ND	178	ND	ND
SV4	10/13/2010	54.6	12	13	70.8	51.3	36.6	4	ND	195	0.7	0.9
SV2	4/6/2011	7.8	ND	ND	ND	ND	35.4	ND	16	1.4	ND	3
SV3	4/6/2011	5.9	ND	ND	ND	ND	17	ND	ND	6.3	ND	ND
SV4	4/6/2011	6.9	ND	ND	2.9	4.3	18	ND	ND	19	ND	ND

4.3.10 Soil

Soil consisting of a sandy/silty urban fill was removed from the entire site. The material contained broken concrete, substantial amounts of brick, and a minor amount of metal. At approximately 4 feet below grade there was, intermittently, pieces of either dried coal tar or some form of asphaltic paving material approximately one-quarter inch thick. These were brittle and had no odor.

Cut and fill thicknesses for remedial activities at the site are included in Figure 2.

4.3.11 Soil Disposal Details

Soil Characterization

Soil characterization sampling for disposal purposes began on August 8, 2011, as per the guidelines established by the disposal facility, Clean Earth of Carteret, NJ (Appendix I). The sampling program was based on an estimated volume of 4,700 yd^3 of non-hazardous soil and 20 tons of PCB hazardous soil. Samples were collected at a rate

of one, eight-point composite sample for every 800 yd^3 of soil. Total petroleum samples were collected at a general rate of one grab samples for every 100 yd^3 of soil.

The site was divided into six grid cells to a depth of four feet for the purpose of classifying soil for disposal, each grid cell encompassing approximately 800 yd^3 of soil. Soils within each grid cell were sampled to 4 ft-bg using a Geoprobe rig and macro-core sampler. The grid cells and approximate soil sampling locations appear on the attached Figure 1, Appendix I. Soil samples were analyzed for the following parameters:

- Total VOCs by EPA Method #8260
- Total SVOCs by EPA Method #8270
- Total RCRA metals
- TCLP RCRA metals
- Ignitability
- Corosivity
- Reactivity (Sulfide + Cyanide)
- PCBs by EPA Method #8082
- TPH samples via 8015 (DRO)

Samples were collected by advancing eight macro cores (one for every 100 yd^3 of soil in a grid cell) from grade to 4 feet below grade. VOC samples were collected from discrete intervals and placed directly into the sample containers. The 8 macro cores per grid were combined into one composite sample per grid. TPH samples were collected by collecting the soil from the proscribed locations and compositing before placing in the sample container.

In one grid, where there was a PCB hot spot, the soil samples were analyzed for the additional following metals for disposal purposes:

- Total Metals (Be, Cu, Ni, Zn, Va, Cn, Hex Chromium)
- TCLP Metals (Cu, Ni, Zn)

Soil Excavation

Excavation began on October 18, 2011 and continued, in a stop-and-go fashion (meaning excavate, wait for the analytical results, and backfill before moving to the next grid cell) until December 5, 2011. The total quantity of soil removed was 7,665.3 tons. A breakdown of all waste removed during excavation is as follows:

Facility	Tons/Unit	Comment
Soil Safe, Inc., Logan Twp., NJ	7,340.76	Petroleum-impacted Soil
CWM Chemical Services, LLC, Model City, NY	18.4	PCB hazardous soil
Atlantic Counties Utility Authority, Egg Harbor Twp.	306.13	Grid Cell 7 Non-hazardous PCB soil
	7,665.3	Total Soil Tonnage
Clean Water of New York	11 drums	Non-hazardous Drums Purge Water
Evergreen Recycling of Corona, Flushing, NY	48 yd^3	Clean Concrete
TNT Scrap LLC, Maspeth, NY	4 loads	Scrap Metal
D. F. Allen, Westbury, NY	30 yd^3	C&D Trash Disposal
S&M Tire Recycling, Oceanside, NY	40 Tires	Used tires

The waste hauler was Horwith Trucks, Inc. of Northampton, Pennsylvania for the hazardous PCB soils (waste transporter permit No. PA-263 [Appendix E]). Cuenca Colonel (Shamrock) and Rainbow Trucking removed the non-hazardous soil soils (Waste Transporter Permit Nos. NJ-850 & NJ-586, respectively [Appendix E]).

Table 12 shows the total quantities of each category of material removed from the site and the disposal locations. A summary of the samples collected to characterize the waste, and associated analytical results are summarized on Table 13.

Letters from Applicants to disposal facility owners and acceptance letters from disposal facility owners are attached in Appendix I.

Manifests and bills of lading are included in electronic format in Appendix J.

4.3.12 UST Removal

A 1,000 gallon steel fuel oil underground storage tank (UST) was closed-in-place on December 19, 2007, in response to a FDNY citation. Tank closure documentation is provided in Appendix E. The UST remains along the southern boundary of the site, as shown on Figure 1. A second tank, an empty riveted, 550-gallon tank, was uncovered in the southwest quadrant of Grid Cell 2 and removed. Two additional USTs were uncovered in Grid Cell 7, one riveted, 550-gallon tank and one 1,000-gallon steel tank encased in a concrete vault. Two, 30-gallon steel tanks and one 750-gallon UST were also uncovered in Grid Cell 7, removed and disposed as scrap metal. A copy of the UST Registration form is included in Appendix D.

4.3.13 Remedial Performance/Documentation Sampling

Sampling Approach and Methodology

Soil endpoint sampling was conducted as per DER-10 section 5.4(b)(5), as well as Section 5.2 of the RAWP, at a rate of one sample for every 900 ft^2 of bottom area and one sample for every 30 linear feet of sidewall.

Some post-excavation sampling was done prior to excavation to help expedite the remedial process. The site was divided into nine grid cells, as shown on Figure 2. Sample collection began on October 18, 2011 and was completed on December 5, 2011. Bottom samples were collected from the last six inches of removed soil/first six inches of soil below excavation depth, or approximately 3.5 to 4 ft-bg/4 to 4.5 ft-bg. In some locations, samples were collected from greater depths of 5.5 and 7.5 ft-bg. Sidewall samples were collected from the face of the sidewall. Samples were biased toward locations that appeared to have the most remaining contamination, or locations identified during the RI as hot spots.

Samples were submitted to Accutest, Inc., of Dayton, NJ, a NYSDOH ELAP certified laboratory. Samples were analyzed for the following:

- VOCs by EPA Method 8260
- SVOCs by EPA Method 8270
- TAL Metals by EPA Method 6010B/7000
- PCBs by EPA Method 8081A/8082

QA/QC samples were collected as specified in the QAPP (Appendix F of the RAWP).

Results

A table and figure summarizing all end-point sampling is included in Table 14 and Figure 9, respectively, and all exceedances of the un-restricted SCOs are highlighted.

QA/QC/DUSRs

Data Usability Summary Reports (DUSRs) were prepared for all post-excavation data generated in this remedial performance evaluation program in accordance with the approved RAWP. These DUSRs are included in Appendix K, and associated raw data is provided electronically in Appendix L.

4.3.14 Imported Backfill

The remedial excavation on Parcel 8 was backfilled using recycled concrete aggregate (RCA) generated from the Queens West Development site that had been stored on the former Stage 3 area at the foot of Second Street, located approximately ¼ mile south of Parcel 8. The RCA source was known and sampling was not required by NYSDEC, since it was previously screened and approved for re-use on the QWD. See Appendix E for the protocol that was followed prior to staging on the former Stage 3.

The Department approved the use of RCA upon approval of the Parcel 8 RAWP (Appendix D). The approximate volume of RCA used to backfill Parcel 8 was 3,440 yd^3 (4,470 tons).

A figure showing the site locations where backfill was used at the site is shown in Figure 2.

4.3.15 Contamination Remaining at the Site

Table 14 and Figure 9 summarize the results of all soil samples remaining at the site after completion of Remedial Action that exceed the Track 1 (unrestricted) SCOs.

Since contaminated soil, groundwater and soil vapor remain beneath the site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

Excavation lowered the entire site grade to a minimum of approximately 4 feet below sidewalk grade. In some grid cells, excavation extended to 5 feet below the original grade and to approximately 7 feet below grade in Grid Cell 7. The entire site was then backfilled with RCA such that the post-remediation grade is a minimum of 2 feet below sidewalk grade. The RCA is a sandy mixture containing broken concrete and fine material. The surface elevation of the RCA varies from approximately 6.5 feet QBD to 7.3 feet QBD. The demarcation barrier lies from approximately 2 feet below the post-remediation grade (which is approximately 4 feet below sidewalk grade) to approximately 5 feet below the post-remediation grade over the entire site, except for a semi-elliptical-shaped section on the western side of Parcel 8 and on the sliver of soil along site edges where some soil remained for a required 45-degree slope to prevent undermining of the fence during excavation and to prevent loss of erosion control. The demarcation layer is orange plastic barrier fencing at elevations of approximately -0.3 ft

QBD to 3.6 feet QBD over the entire site (Photo 46, Appendix H).

The material immediately beneath the demarcation layer is residual site sandy or sandy and silty urban fill containing brick, pieces of concrete and some metal. The material beneath the demarcation layer typically begins at approximately five or more feet below sidewalk grade, but at some grid cells the excavation extended deeper and the residual site material lies at deeper depths. The grid cells and the depth of final excavation are as follows (see also Figure 2):

Grid Cell	**Quadrant/ Section**	**Surface Elevation before Excavation***	**Final Excavation Bottom (ft.)** (from original site grade)	**RCA Thickness (ft)**	**Elevation of Demarcation Barrier & where Contamination Begins****
1	NW, NE,	7.98-8.04	-4.0	3	3.5
1	SE, SW	7.98-8.00	-5.0	4	2.5
2	NW, NE, SE	8.03-8.55	-5.0	4	2.5
2	SW	8.29	-7.0	6	-0.3
3	Northern half	9.14	-5.0	4	3
3	Southern half	7.37	-5.0	4	3
4	NW	8.03	-5.0	4	2.6
4	NE	8.11	-4.0	3	2.6
4	SW, SE	8.09-8.29	-6.0	5	1.6
5	NW,NE,SW,SE	7.83-8.91	-4.0	3	3.6
6	Northern Half	7.07	-4.0	3	4
6	Southern Half	8.20	-5.0	4	3
7	NW, NE, SE, SW	7.81 – 8.86	-7.0	6	0.9
8	Northern Half	9.15	-4.0	3	3.9
8	Southern Half	8.45 – 8.86	-4.0	3	3.9
9	Northern Half	9.11	-5.0	4	2.9
9	Southern Half	8.89	-4.0	3	3.9

*Elevations refer to Queens Borough Datum (QBD), which is 2.725 feet above mean sea level datum at Sandy Hook, NJ 1929. Source: Montrose Survey # 59186-7 January 8, 2009.

** Typical surface elevation – RCA thickness

Numerous substructures were encountered during the remedial excavation. These were former foundations/footings consisting of concrete and rebar. Brick walls were also encountered. Figure 10 shows the location of these relict structures and the elevations of

the tops of the structures. DEC was consulted and agreed the structures could remain if they were accurately documented on a figure.

4.3.16 Soil Cover System

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. As of the date of this FER, the cover system is comprised of a minimum of 36 inches of RCA. Current development plans call for the composite cover system to include a library and park ranger station buildings foundations, which are anticipated to be slab-on-grade with a shallow pile-cap grade-beam system and not extending beneath the demarcation layer. Additionally, there may be ancillary buildings of similar construction. Proposed stone walkways underlain by a gravel substrate, landscaped pervious areas, and a possible water element with an impervious concrete slab foundation may also be part of the composite cover system.

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 Appendix A of the SMP.

4.3.17 OTHER ENGINEERING CONTROLS

Since remaining contaminated soil and groundwater/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.

4.3.17.1.1 Vapor Barrier

Vapor barriers will underlie both the library and the park ranger station. The vapor barriers will be installed below the concrete floor slabs and have continuous water stops at the construction joints or utility openings. The vapor barriers consist of a minimum 20 mil PVC sheet sealed at all penetrations, spray on Liquid Boot, or equivalent means approved by NYSDEC.

4.3.17.1.2 SSDS

The library and park ranger station will have an active SSDS below the vapor barrier in order to further minimize potential vapor intrusion. The SSDS includes the following elements:

- Vapor barrier

- Suction pits under floor slab
- Layer of gas permeable material beneath the concrete floor slab(s)
- Solid horizontal pipe(s) running from each suction pit to a common header
- A solid vertical riser extending from the common header to a discharge point above the roof. This pipe is at least six (6) inches in diameter
- A fan on the roof to provide adequate negative pressure to the sub-slab area
- Monitoring points located throughout the building, which are installed at the lowest level floor slab
- Piping to connect the library and park ranger station because there is one SSDS system for the two separate buildings

Operation of the active SSDS will not be discontinued without written approval by NYSDEC and NYSDOH. A proposal to discontinue the active SSDS and operate in passive mode may be submitted by the property owner based on confirmatory data that justify such a request. In this case, a proposed sampling plan will be presented to NYSDEC and NYSDOH for consideration; otherwise the SSDS will remain in place and operational until permission to discontinue operating actively and operate in passive mode is granted by NYSDEC and NYSDOH.

Procedures for monitoring, operating and maintaining the sub-slab depressurization system (SSDS) are provided in the Operation and Maintenance Plan in Section 4 of the SMP. The Monitoring Plan also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-site ECs.

4.3.18 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 commercial uses only.

The environmental easement for the site was executed by the Department on August 25, 2011, and filed with the Queens County Clerk on August 26, 2011. The

County Recording Identifier number for this filing is 2011090700456001. A copy of the easement and proof of filing is provided in Appendix C.

4.3.19 Deviations from the Remedial Action Work Plan

Chemical Injection

Two deviations occurred during execution of the injection phase:

Injection well IW-3B, originally planned to have a screened interval from 23 ft-bg to 27 ft-bg, was built with a screened interval from 18 ft-bg to 23 ft-bg. The reason for the change was due to a boulder at 18 ft-bg. The boulder remains in place and prevented extending the injection well deeper. NYSDEC approved this change on 10/21/2010 (Appendix D). No adverse effect of this change was observed.

On 3/8/2011, QWDC decided to add an additional 22,500 kg of persulfate because of the heavy contamination at the southwest corner of Parcel 8. Regular groundwater monitoring results indicated that additional treatment chemical was warranted. FLS informed NYSDEC of this decision, but no formal approval was necessary. The ultimate effect was to increase the level of contaminant removal in the subsurface and to improve groundwater quality.

While not a deviation, it should be noted that ascorbic acid was added to the post-treatment VOC groundwater samples as a preservative to prevent continuing oxidation of the sample during transport to the laboratory and during laboratory extraction when the sample is heated. Recent scientific evidence indicates that preservative is necessary if there is remaining oxidant in the groundwater. This measure was taken as a precaution after discussions with the laboratory and the third party data validator.

Excavation

All areas of the site were excavated with the exception of the semi-elliptical-shaped section on the western side of Parcel 8 between the fence line and the property boundary. This area was not excavated because surface soils and one subsurface soil sample met the Restricted Residential Use Criteria and one subsurface soils met the Restricted Residential Use Criteria except for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. NYSDEC approved this deviation on 10/21/11 (Appendix D). (Refer to samples TLA-1(0 – 0.5'), TLA-2(0 – 0.5'), TLA-1 (2-2.5), and TLA-2 (2-2.5), Appendix L, Lab No. JA89350.) Another exception is the sliver of soil along the site edges that had to be maintained to

support the security fence and erosion control.

All grid cells were excavated and the post-excavation bottom sample results provided to the Department for review and approval before closure of the grid cell and backfilling. Most grid cells required additional excavation beyond the originally intended 4 feet below sidewalk grade because the post-excavation bottom sample results were above one or more SCO criteria. Typically these were arsenic and mercury, and to a lesser extent barium and PAHs.

Gross contamination was not encountered and most grid cells were excavated to depths significantly less than the water table and/or where sheeting or shoring would be required. Only in Grid Cell 7 did the excavation approach the water table. Grid Cell 7 was excavated to 7 feet below sidewalk grade in order to remove mercury in soils slightly above the protection of groundwater criterion. Excavation was limited to this depth because of the nearness to the water table and because the excavation reached the southern property boundary where it abutted an old concrete/brick wall supporting the wooden barrier and stone paving in Gantry Plaza State Park. Deeper excavation would have posed an unacceptable level of risk to site workers and the public.

Deviations during the excavation phase include soil sample locations with minor levels above the SCOs that were allowed to remain in place.

Bottom Sample Results above Commercial SCOs

Client ID	Sample	Parameter	Result	Units	Commercial SCO
B-1	JA89559-1	Benzo(a)anthracene	7,930	ug/kg	5,600
		Benzo(a)pyrene	7,320	ug/kg	1,000
		Benzo(b)fluoranthene	7,090	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,600	ug/kg	560
B-2	JA89559-2	Benzo(a)pyrene	1,510	ug/kg	1,000
B-7 (5-5.5)	JA90022-1	Arsenic	18	mg/kg	16
B-12 (3.5-4)	JA90022-10	Benzo(a)anthracene	15,500	ug/kg	5,600
		Benzo(a)pyrene	13,200	ug/kg	1,000
		Benzo(b)fluoranthene	13,900	ug/kg	5,600
		Dibenzo(a,h)anthracene	2,190	ug/kg	560
		Indeno(1,2,3-cd)pyrene	7,560	ug/kg	5,600
B-13(3.5-4)	JA90399-5	Arsenic	19	mg/kg	16
		Benzo(a)anthracene	20,000	ug/kg	5,600
		Benzo(a)pyrene	21,700	ug/kg	1,000

Bottom Sample Results above Commercial SCOs

Client ID	Sample	Parameter	Result	Units	Commercial SCO
		Benzo(b)fluoranthene	18,900	ug/kg	5,600
		Dibenzo(a,h)anthracene	5,440	ug/kg	560
		Indeno(1,2,3-cd)pyrene	11,300	ug/kg	5,600
B-14(3.5-4)	JA90399-6	Barium	1,120	mg/kg	400
		Lead	1,010	mg/kg	1,000
		Benzo(a)anthracene	26,000	ug/kg	5,600
		Benzo(a)pyrene	28,600	ug/kg	1,000
		Benzo(b)fluoranthene	46,700	ug/kg	5,600
		Dibenzo(a,h)anthracene	5,610	ug/kg	560
		Indeno(1,2,3-cd)pyrene	16,400	ug/kg	5,600
B-15(3.5-4)	JA90399-7	Benzo(a)anthracene	6,920	ug/kg	5,600
		Benzo(a)pyrene	6,720	ug/kg	1,000
		Benzo(b)fluoranthene	6,380	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,330	ug/kg	560
B-18(3.5-4)	JA90399-8	Benzo(a)pyrene	1,430	ug/kg	1,000
B-9 (4.5-5)	JA90552-1	Arsenic	16	mg/kg	16
B-22 (3.5-4)	JA90552-8	Benzo(a)anthracene	14,100	ug/kg	5,600
		Benzo(a)pyrene	13,200	ug/kg	1,000
		Benzo(b)fluoranthene	11,700	ug/kg	5,600
		Dibenzo(a,h)anthracene	3,540	ug/kg	560
		Indeno(1,2,3-cd)pyrene	7,110	ug/kg	5,600
B-26 (3.5-4)	JA90552-9	Benzo(a)pyrene	1,490	ug/kg	1,000
B-27 (3.5-4)	JA90552-10	Arsenic	17	mg/kg	16
		Benzo(a)pyrene	5,220	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,620	ug/kg	560
B-31 (3.5-4)	JA90552-11	Benzo(a)pyrene	1,960	ug/kg	1,000
B-10(5-5.5)	JA90802-6	Benzo(a)anthracene	7,720	ug/kg	5,600
		Benzo(a)pyrene	8,450	ug/kg	1,000
		Benzo(b)fluoranthene	9,050	ug/kg	5,600
		Dibenzo(a,h)anthracene	3,350	ug/kg	560
B-5(5-5.5)	JA90802-7	Benzo(a)anthracene	7,900	ug/kg	5,600
		Benzo(a)pyrene	7,260	ug/kg	1,000
		Benzo(b)fluoranthene	7,690	ug/kg	5,600
		Dibenzo(a,h)anthracene	2,150	ug/kg	560
B-20(5-5.5)	JA91348-3	Mercury	5	mg/kg	3.3
B-23 (4-4.5)	JA91441-1	Benzo(a)pyrene	3,600	ug/kg	1,000
		Dibenzo(a,h)anthracene	790	ug/kg	560
B-24 (4-4.5)	JA91441-3	Benzo(a)anthracene	5,950	ug/kg	5,600
		Benzo(a)pyrene	6,340	ug/kg	1,000
		Benzo(b)fluoranthene	7,070	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,280	ug/kg	560
B-29 (4-4.5)	JA91441-8	Arsenic	17	mg/kg	16
		Benzo(a)anthracene	6,700	ug/kg	5,600

Bottom Sample Results above Commercial SCOs

Client ID	Sample	Parameter	Result	Units	Commercial SCO
		Benzo(a)pyrene	7,230	ug/kg	1,000
		Benzo(b)fluoranthene	8,930	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,620	ug/kg	560
B-32(4-4.5)	JA92256-1	Benzo(a)pyrene	1,410	ug/kg	1,000
B-33(4-4.5)	JA92256-2	Arsenic	18	mg/kg	16
		Benzo(a)anthracene	9,580	ug/kg	5,600
		Benzo(a)pyrene	8,560	ug/kg	1,000
		Benzo(b)fluoranthene	7,640	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,850	ug/kg	560
B-34(4-4.5)	JA92256-3	Benzo(a)anthracene	64,700	ug/kg	5,600
		Benzo(a)pyrene	60,500	ug/kg	1,000
		Benzo(b)fluoranthene	63,800	ug/kg	5,600
		Chrysene	64,400	ug/kg	56,000
		Dibenzo(a,h)anthracene	11,100	ug/kg	560
		Indeno(1,2,3-cd)pyrene	39,700	ug/kg	5,600
GC-7 UST 1 (8-8.5)	JA93100-1	Benzo(a)anthracene	99,300	ug/kg	5,600
		Benzo(a)pyrene	79,200	ug/kg	1,000
		Benzo(b)fluoranthene	79,700	ug/kg	5,600
		Chrysene	88,500	ug/kg	56,000
		Dibenzo(a,h)anthracene	20,100	ug/kg	560
		Indeno(1,2,3-cd)pyrene	37,900	ug/kg	5,600
		Naphthalene	1,430,000	ug/kg	500,000
		Benzene	89,500	ug/kg	44,000
GC-8 UST 2 (9-9.5)	JA93100-2	Benzo(a)anthracene	56,000	ug/kg	5,600
		Benzo(a)pyrene	39,900	ug/kg	1,000
		Benzo(b)fluoranthene	34,500	ug/kg	5,600
		Dibenzo(a,h)anthracene	6,520	ug/kg	560
		Indeno(1,2,3-cd)pyrene	13,000	ug/kg	5,600
B-21 (7-7.5)	JA93266-1	Arsenic	27	mg/kg	16
		Benzo(a)pyrene	1,890	ug/kg	1,000
		Dibenzo(a,h)anthracene	593	ug/kg	560
B-22 (7-7.5)	JA93266-2	Aroclor 1260	2,690	ug/kg	1,000
		Benzo(a)anthracene	24,100	ug/kg	5,600
		Benzo(a)pyrene	23,700	ug/kg	1,000
		Benzo(b)fluoranthene	21,800	ug/kg	5,600
		Dibenzo(a,h)anthracene	7,370	ug/kg	560
		Indeno(1,2,3-cd)pyrene	16,300	ug/kg	5,600
B-26 (7-7.5)	JA93266-3	Benzo(a)pyrene	1,170	ug/kg	1,000
B-31 (7-7.5)	JA93266-4	Benzo(a)anthracene	23,800	ug/kg	5,600
		Benzo(a)pyrene	17,200	ug/kg	1,000
		Benzo(b)fluoranthene	14,400	ug/kg	5,600
		Dibenzo(a,h)anthracene	5,010	ug/kg	560

Bottom Sample Results above Commercial SCOs

Client ID	Sample	Parameter	Result	Units	Commercial SCO
		Indeno(1,2,3-cd)pyrene	8,060	ug/kg	5,600
B-HS (7-7.5)	JA93266-5	Arsenic	48	mg/kg	16
		Benzo(a)anthracene	32,500	ug/kg	5,600
		Benzo(a)pyrene	26,500	ug/kg	1,000
		Benzo(b)fluoranthene	30,000	ug/kg	5,600
		Dibenzo(a,h)anthracene	7,170	ug/kg	560
		Indeno(1,2,3-cd)pyrene	12,400	ug/kg	5,600

* * *

Sidewall Sample Results above Commercial SCOs

Sample	Lab ID	Parameter	Result	Units	Commercial SCO
SW-1	JA89559-5	Benzo(a)anthracene	34,700	ug/kg	5,600
		Benzo(a)pyrene	31,300	ug/kg	1,000
		Benzo(b)fluoranthene	37,400	ug/kg	5,600
		Dibenzo(a,h)anthracene	7,510	ug/kg	560
		Indeno(1,2,3-cd)pyrene	21,100	ug/kg	5,600
SW-2	JA89559-6	Benzo(a)pyrene	1,310	ug/kg	1,000
SW-24	JA89559-7	Benzo(a)anthracene	25,200	ug/kg	5,600
		Benzo(a)pyrene	21,000	ug/kg	1,000
		Benzo(b)fluoranthene	18,400	ug/kg	5,600
		Dibenzo(a,h)anthracene	3,560	ug/kg	560
		Indeno(1,2,3-cd)pyrene	11,900	ug/kg	5,600
SW-23	JA89559-8	Benzo(a)anthracene	7,310	ug/kg	5,600
		Benzo(a)pyrene	7,240	ug/kg	1,000
		Benzo(b)fluoranthene	6,410	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,770	ug/kg	560
SW-3(3-3.5)	JA90399-1	Benzo(a)anthracene	5,730	ug/kg	5,600
		Benzo(a)pyrene	4,470	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,240	ug/kg	560
SW-4(3-3.5)	JA90399-2	Arsenic	25	mg/kg	16
		Lead	1,330	mg/kg	1,000
		Mercury	4	mg/kg	3.3
		Benzo(a)anthracene	11,300	ug/kg	5,600
		Benzo(a)pyrene	8,190	ug/kg	1,000
		Benzo(b)fluoranthene	11,500	ug/kg	5,600
		Dibenzo(a,h)anthracene	2,260	ug/kg	560
		Indeno(1,2,3-cd)pyrene	5,730	ug/kg	5,600
SW-5 (3-3.5)	JA90552-6	Barium	511	mg/kg	400

Sidewall Sample Results above Commercial SCOs

Sample	Lab ID	Parameter	Result	Units	Commercial SCO
		Benzo(a)anthracene	8,610	ug/kg	5,600
		Benzo(a)pyrene	7,030	ug/kg	1,000
		Benzo(b)fluoranthene	6,930	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,960	ug/kg	560
SW-6 (3-3.5)	JA90552-12	Benzo(a)anthracene	39,300	ug/kg	5,600
		Benzo(a)pyrene	34,700	ug/kg	1,000
		Benzo(b)fluoranthene	39,300	ug/kg	5,600
		Dibenzo(a,h)anthracene	10,800	ug/kg	560
		Indeno(1,2,3-cd)pyrene	18,700	ug/kg	5,600
SW-7 (3-3.5)	JA90552-13	Mercury	9	mg/kg	3.3
		Benzo(a)anthracene	6,990	ug/kg	5,600
		Benzo(a)pyrene	6,190	ug/kg	1,000
		Benzo(b)fluoranthene	6,280	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,790	ug/kg	560
SW-8(3-3.5)	JA90802-1	Benzo(a)anthracene	7,160	ug/kg	5,600
		Benzo(a)pyrene	7,180	ug/kg	1,000
		Benzo(b)fluoranthene	7,710	ug/kg	5,600
		Dibenzo(a,h)anthracene	1,770	ug/kg	560
SW-9(3-3.5)	JA90802-2	Benzo(a)pyrene	3,090	ug/kg	1,000
		Dibenzo(a,h)anthracene	755	ug/kg	560
SW-22(3-3.5)	JA90802-3	Benzo(a)anthracene	12,800	ug/kg	5,600
		Benzo(a)pyrene	13,200	ug/kg	1,000
		Benzo(b)fluoranthene	11,600	ug/kg	5,600
		Dibenzo(a,h)anthracene	2,370	ug/kg	560
		Indeno(1,2,3-cd)pyrene	7,680	ug/kg	5,600
SW-21(3-3.5)	JA90802-4	Benzo(a)pyrene	3,300	ug/kg	1,000
		Dibenzo(a,h)anthracene	876	ug/kg	560
SW-10(3-3.5)	JA92397-1	Arsenic	23	mg/kg	16
		Mercury	5	mg/kg	3.3
		Benzo(a)anthracene	7,980	ug/kg	5,600
		Benzo(a)pyrene	6,450	ug/kg	1,000
		Benzo(b)fluoranthene	7,650	ug/kg	5,600
		Dibenzo(a,h)anthracene	2,290	ug/kg	560
SW-11(3-3.5)	JA92397-2	Mercury	15	mg/kg	3.3
		Benzo(a)anthracene	8,560	ug/kg	5,600
		Benzo(a)pyrene	8,820	ug/kg	1,000
		Benzo(b)fluoranthene	10,000	ug/kg	5,600
		Dibenzo(a,h)anthracene	3,040	ug/kg	560
		Indeno(1,2,3-cd)pyrene	5,710	ug/kg	5,600
SW-19(4-4.5)	JA92397-4	Benzo(a)pyrene	3,500	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,260	ug/kg	560
SW-20(4-4.5)	JA92397-5	Benzo(a)pyrene	3,770	ug/kg	1,000
SW-15 (0-0.5)	JA92694-3	Benzo(a)pyrene	1,010	ug/kg	1,000
		Benzo(a)anthracene	21,400	ug/kg	5,600
		Benzo(a)pyrene	18,900	ug/kg	1,000
		Benzo(b)fluoranthene	18,800	ug/kg	5,600

Sidewall Sample Results above Commercial SCOs

Sample	Lab ID	Parameter	Result	Units	Commercial SCO
		Dibenzo(a,h)anthracene	4,890	ug/kg	560
		Indeno(1,2,3-cd)pyrene	12,300	ug/kg	5,600
SW-13 (3-3.5)	JA92694-6	Benzo(a)pyrene	3,520	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,080	ug/kg	560

* * *

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
B-1	JA89559-1	4,4'-DDT	19.2	ug/kg	3.3
		Aroclor 1254	340	ug/kg	100
		Aroclor 1260	172	ug/kg	100
		Lead	122	mg/kg	63
		Mercury	0.55	mg/kg	0.18
		Zinc	194	mg/kg	109
		Benzo(a)anthracene	7,930	ug/kg	1,000
		Benzo(a)pyrene	7,320	ug/kg	1,000
		Benzo(b)fluoranthene	7,090	ug/kg	1,000
		Benzo(k)fluoranthene	3,810	ug/kg	800
		Chrysene	7,800	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,600	ug/kg	330
		Indeno(1,2,3-cd)pyrene	4,740	ug/kg	500
B-2	JA89559-2	4,4'-DDT	7.6	ug/kg	3.3
		Copper	51.1	mg/kg	50
		Lead	91.2	mg/kg	63
		Mercury	0.28	mg/kg	0.18
		Zinc	135	mg/kg	109
		Benzo(a)anthracene	1,470	ug/kg	1,000
		Benzo(a)pyrene	1,510	ug/kg	1,000
		Benzo(b)fluoranthene	1,370	ug/kg	1,000
		Benzo(k)fluoranthene	1,090	ug/kg	800
		Chrysene	1,490	ug/kg	1,000
		Indeno(1,2,3-cd)pyrene	1,090	ug/kg	500
B-7 (5-5.5)	JA90022-1	Arsenic	18.2	mg/kg	13
B-12 (3.5-4)	JA90022-10	4,4'-DDT	20.3	ug/kg	3.3
		Copper	87.9	mg/kg	50
		Lead	154	mg/kg	63
		Mercury	0.34	mg/kg	0.18
		Zinc	262	mg/kg	109
		Benzo(a)anthracene	15,500	ug/kg	1,000
		Benzo(a)pyrene	13,200	ug/kg	1,000
		Benzo(b)fluoranthene	13,900	ug/kg	1,000

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Benzo(k)fluoranthene	7,390	ug/kg	800
		Chrysene	14,400	ug/kg	1000
		Dibenzo(a,h)anthracene	2,190	ug/kg	330
		Indeno(1,2,3-cd)pyrene	7,560	ug/kg	500
B-13(3.5-4)	JA90399-5	Arsenic	19.2	mg/kg	13
		Copper	52.3	mg/kg	50
		Lead	166	mg/kg	63
		Mercury	1.1	mg/kg	0.18
		Zinc	319	mg/kg	109
		Benzo(a)anthracene	20,000	ug/kg	1,000
		Benzo(a)pyrene	21,700	ug/kg	1,000
		Benzo(b)fluoranthene	18,900	ug/kg	1,000
		Benzo(k)fluoranthene	14,400	ug/kg	800
		Chrysene	21,200	ug/kg	1,000
		Dibenzo(a,h)anthracene	5,440	ug/kg	330
		Indeno(1,2,3-cd)pyrene	11,300	ug/kg	500
B-14(3.5-4)	JA90399-6	Barium	1,120	mg/kg	350
		Copper	74.5	mg/kg	50
		Lead	1,010	mg/kg	63
		Mercury	0.7	mg/kg	0.18
		Zinc	705	mg/kg	109
		Benzo(a)anthracene	26,000	ug/kg	1,000
		Benzo(a)pyrene	28,600	ug/kg	1,000
		Benzo(b)fluoranthene	46,700	ug/kg	1,000
		Chrysene	28,000	ug/kg	1,000
		Dibenzo(a,h)anthracene	5,610	ug/kg	330
		Indeno(1,2,3-cd)pyrene	16,400	ug/kg	500
B-15(3.5-4)	JA90399-7	Aroclor 1248	206	ug/kg	100
		Aroclor 1254	183	ug/kg	100
		Aroclor 1268	101	ug/kg	100
		Copper	55	mg/kg	50
		Lead	149	mg/kg	63
		Mercury	0.93	mg/kg	0.18
		Zinc	281	mg/kg	109
		Benzo(a)anthracene	6,920	ug/kg	1,000
		Benzo(a)pyrene	6,720	ug/kg	1,000
		Benzo(b)fluoranthene	6,380	ug/kg	1,000
		Benzo(k)fluoranthene	2,470	ug/kg	800
		Chrysene	6,850	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,330	ug/kg	330
		Indeno(1,2,3-cd)pyrene	3,160	ug/kg	500
B-18(3.5-4)	JA90399-8	Arsenic	14.1	mg/kg	13
		Copper	62.1	mg/kg	50
		Lead	207	mg/kg	63
		Mercury	0.28	mg/kg	0.18
		Benzo(a)anthracene	1,280	ug/kg	1,000

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Benzo(a)pyrene	1,430	ug/kg	1,000
		Benzo(b)fluoranthene	1,360	ug/kg	1,000
		Chrysene	1,390	ug/kg	1,000
		Dibenzo(a,h)anthracene	399	ug/kg	330
		Indeno(1,2,3-cd)pyrene	801	ug/kg	500
B-9 (4.5-5)	JA90552-1	Arsenic	16.2	mg/kg	13
B-19 (3.5-4)	JA90552-4	Copper	106	mg/kg	50
		Lead	112	mg/kg	63
		Mercury	0.19	mg/kg	0.18
B-21 (3.5-4)	JA90552-7	Zinc	131	mg/kg	109
B-22 (3.5-4)	JA90552-8	Aroclor 1260	488	ug/kg	100
		Copper	72.8	mg/kg	50
		Lead	184	mg/kg	63
		Mercury	0.3	mg/kg	0.18
		Zinc	347	mg/kg	109
		Benzo(a)anthracene	14,100	ug/kg	1,000
		Benzo(a)pyrene	13,200	ug/kg	1,000
		Benzo(b)fluoranthene	11,700	ug/kg	1,000
		Benzo(k)fluoranthene	9,970	ug/kg	800
		Chrysene	14,500	ug/kg	1,000
		Dibenzo(a,h)anthracene	3,540	ug/kg	330
		Indeno(1,2,3-cd)pyrene	7,110	ug/kg	500
B-26 (3.5-4)	JA90552-9	Aroclor 1260	150	ug/kg	100
		Copper	56.9	mg/kg	50
		Lead	88.6	mg/kg	63
		Zinc	225	mg/kg	109
		Benzo(a)anthracene	1,480	ug/kg	1,000
		Benzo(a)pyrene	1,490	ug/kg	1,000
		Benzo(b)fluoranthene	1,330	ug/kg	1,000
		Benzo(k)fluoranthene	1,090	ug/kg	800
		Chrysene	1,530	ug/kg	1,000
		Dibenzo(a,h)anthracene	419	ug/kg	330
		Indeno(1,2,3-cd)pyrene	879	ug/kg	500
B-27 (3.5-4)	JA90552-10	Aroclor 1254	359	ug/kg	100
		Arsenic	16.6	mg/kg	13
		Copper	90.2	mg/kg	50
		Lead	333	mg/kg	63
		Mercury	0.65	mg/kg	0.18
		Zinc	358	mg/kg	109
		Benzo(a)anthracene	3,820	ug/kg	1,000
		Benzo(a)pyrene	5,220	ug/kg	1,000
		Benzo(b)fluoranthene	5,350	ug/kg	1,000
		Benzo(k)fluoranthene	3,010	ug/kg	800
		Chrysene	4,340	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,620	ug/kg	330
		Indeno(1,2,3-cd)pyrene	3,390	ug/kg	500

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
B-31 (3.5-4)	JA90552-11	Lead	98.1	mg/kg	63
		Mercury	0.47	mg/kg	0.18
		Zinc	145	mg/kg	109
		Benzo(a)anthracene	1,640	ug/kg	1,000
		Benzo(a)pyrene	1,960	ug/kg	1,000
		Benzo(b)fluoranthene	1,720	ug/kg	1,000
		Benzo(k)fluoranthene	1,300	ug/kg	800
		Chrysene	1,710	ug/kg	1,000
		Dibenzo(a,h)anthracene	376	ug/kg	330
		Indeno(1,2,3-cd)pyrene	1,170	ug/kg	500
B-10(5-5.5)	JA90802-6	Benzo(a)anthracene	7,720	ug/kg	1,000
		Benzo(a)pyrene	8,450	ug/kg	1,000
		Benzo(b)fluoranthene	9,050	ug/kg	1,000
		Benzo(k)fluoranthene	4,440	ug/kg	800
		Chrysene	8,320	ug/kg	1,000
		Dibenzo(a,h)anthracene	3,350	ug/kg	330
		Indeno(1,2,3-cd)pyrene	4,880	ug/kg	500
B-5(5-5.5)	JA90802-7	Benzo(a)anthracene	7,900	ug/kg	1,000
		Benzo(a)pyrene	7,260	ug/kg	1,000
		Benzo(b)fluoranthene	7,690	ug/kg	1,000
		Benzo(k)fluoranthene	2,840	ug/kg	800
		Chrysene	7,640	ug/kg	1000
		Dibenzo(a,h)anthracene	2,150	ug/kg	330
		Indeno(1,2,3-cd)pyrene	4,050	ug/kg	500
B-17(6-6.5)	JA91348-2	Mercury	0.22	mg/kg	0.18
B-20(5-5.5)	JA91348-3	Mercury	5.1	mg/kg	0.18
B-23 (4-4.5)	JA91441-1	Arsenic	13.6	mg/kg	13
		Copper	61.9	mg/kg	50
		Lead	125	mg/kg	63
		Mercury	0.72	mg/kg	0.18
		Zinc	144	mg/kg	109
		Benzo(a)anthracene	3,730	ug/kg	1,000
		Benzo(a)pyrene	3,600	ug/kg	1,000
		Benzo(b)fluoranthene	4,680	ug/kg	1,000
		Benzo(k)fluoranthene	1,400	ug/kg	800
		Chrysene	3,570	ug/kg	1,000
		Dibenzo(a,h)anthracene	790	ug/kg	330
		Indeno(1,2,3-cd)pyrene	2,110	ug/kg	500
B-24 (4-4.5)	JA91441-3	Copper	54.5	mg/kg	50
		Lead	76.9	mg/kg	63
		Mercury	0.5	mg/kg	0.18
		Nickel	33.3	mg/kg	30
		Benzo(a)anthracene	5,950	ug/kg	1,000
		Benzo(a)pyrene	6,340	ug/kg	1,000
		Benzo(b)fluoranthene	7,070	ug/kg	1,000
		Benzo(k)fluoranthene	2,170	ug/kg	800

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Chrysene	5,350	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,280	ug/kg	330
		Indeno(1,2,3-cd)pyrene	3,390	ug/kg	500
B-28 (4-4.5)	JA91441-6	Arsenic	15.8	mg/kg	13
		Lead	142	mg/kg	63
		Benzo(b)fluoranthene	1,040	ug/kg	1,000
B-29 (4-4.5)	JA91441-8	Arsenic	17.2	mg/kg	13
		Copper	55.7	mg/kg	50
		Lead	272	mg/kg	63
		Mercury	0.65	mg/kg	0.18
		Zinc	165	mg/kg	109
		Benzo(a)anthracene	6,700	ug/kg	1,000
		Benzo(a)pyrene	7,230	ug/kg	1,000
		Benzo(b)fluoranthene	8,930	ug/kg	1,000
		Benzo(k)fluoranthene	2,790	ug/kg	800
		Chrysene	6,220	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,620	ug/kg	330
		Indeno(1,2,3-cd)pyrene	4,330	ug/kg	500
B-32(4-4.5)	JA92256-1	Copper	59.9	mg/kg	50
		Lead	90.7	mg/kg	63
		Mercury	0.35	mg/kg	0.18
		Zinc	158	mg/kg	109
		Benzo(a)anthracene	1,360	ug/kg	1,000
		Benzo(a)pyrene	1,410	ug/kg	1,000
		Benzo(b)fluoranthene	1,570	ug/kg	1,000
		Chrysene	1,330	ug/kg	1,000
		Dibenzo(a,h)anthracene	374	ug/kg	330
		Indeno(1,2,3-cd)pyrene	927	ug/kg	500
B-33(4-4.5)	JA92256-2	Arsenic	17.6	mg/kg	13
		Lead	106	mg/kg	63
		Mercury	0.33	mg/kg	0.18
		Zinc	118	mg/kg	109
		Benzo(a)anthracene	9,580	ug/kg	1,000
		Benzo(a)pyrene	8,560	ug/kg	1,000
		Benzo(b)fluoranthene	7,640	ug/kg	1,000
		Benzo(k)fluoranthene	5,690	ug/kg	800
		Chrysene	9,380	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,850	ug/kg	330
		Indeno(1,2,3-cd)pyrene	5,480	ug/kg	500
B-34(4-4.5)	JA92256-3	Lead	129	mg/kg	63
		Mercury	1	mg/kg	0.18
		Benzo(a)anthracene	64,700	ug/kg	1,000
		Benzo(a)pyrene	60,500	ug/kg	1,000
		Benzo(b)fluoranthene	63,800	ug/kg	1,000
		Benzo(k)fluoranthene	30,000	ug/kg	800
		Chrysene	64,400	ug/kg	1,000

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Dibenzo(a,h)anthracene	11,100	ug/kg	330
		Dibenzofuran	9,000	ug/kg	7,000
		Fluoranthene	149,000	ug/kg	100,000
		Indeno(1,2,3-cd)pyrene	39,700	ug/kg	500
		Phenanthrene	116,000	ug/kg	100,000
		Pyrene	118,000	ug/kg	100,000
B-25(5-5.5)	JA93030-1	Mercury	1.5	mg/kg	0.18
B-30(5-5.5)	JA93030-2	Mercury	1.4	mg/kg	0.18
GC-7 UST 1 (8-8.5)	JA93100-1	Aroclor 1260	313	ug/kg	100
		Copper	51.9	mg/kg	50
		Lead	116	mg/kg	63
		Mercury	0.74	mg/kg	0.18
		Zinc	204	mg/kg	109
		2-Methylphenol	52,900	ug/kg	330
		Phenol	79,800	ug/kg	330
		Acenaphthene	61,300	ug/kg	20,000
		Benzo(a)anthracene	99,300	ug/kg	1,000
		Benzo(a)pyrene	79,200	ug/kg	1,000
		Benzo(b)fluoranthene	79,700	ug/kg	1,000
		Benzo(k)fluoranthene	46,100	ug/kg	800
		Chrysene	88,500	ug/kg	1,000
		Dibenzo(a,h)anthracene	20,100	ug/kg	330
		Dibenzofuran	119,000	ug/kg	7,000
		Fluoranthene	291,000	ug/kg	100,000
		Fluorene	142,000	ug/kg	30,000
		Indeno(1,2,3-cd)pyrene	37,900	ug/kg	500
		Naphthalene	1,430,000	ug/kg	12,000
		Phenanthrene	467,000	ug/kg	100,000
		Pyrene	217,000	ug/kg	100,000
		Benzene	89,500	ug/kg	60
		Ethylbenzene	17,000	ug/kg	1,000
		Toluene	158,000	ug/kg	700
		m,p-Xylene	120,000	ug/kg	260
		o-Xylene	39,700	ug/kg	260
		Xylene (total)	159,000	ug/kg	260
GC-8 UST 2 (9-9.5)'	JA93100-2	Mercury	0.19	mg/kg	0.18
		Acenaphthene	96,800	ug/kg	20,000
		Benzo(a)anthracene	56,000	ug/kg	1,000
		Benzo(a)pyrene	39,900	ug/kg	1,000
		Benzo(b)fluoranthene	34,500	ug/kg	1,000
		Benzo(k)fluoranthene	31,600	ug/kg	800
		Chrysene	51,500	ug/kg	1,000
		Dibenzo(a,h)anthracene	6,520	ug/kg	330
		Dibenzofuran	80,400	ug/kg	7,000
		Fluoranthene	155,000	ug/kg	100,000
		Fluorene	101,000	ug/kg	30,000

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Indeno(1,2,3-cd)pyrene	13,000	ug/kg	500
		Naphthalene	377,000	ug/kg	12,000
		Phenanthrene	262,000	ug/kg	100,000
		Pyrene	128,000	ug/kg	100,000
		Benzene	1,480	ug/kg	60
		Ethylbenzene	10,900	ug/kg	1,000
		Toluene	2,340	ug/kg	700
		m,p-Xylene	19,100	ug/kg	260
		o-Xylene	9,590	ug/kg	260
		Xylene (total)	28,600	ug/kg	260
B-21 (7-7.5)	JA93266-1	4,4'-DDD	14.4	ug/kg	3.3
		4,4'-DDT	81.3	ug/kg	3.3
		Aroclor 1260	258	ug/kg	100
		Arsenic	27.1	mg/kg	13
		Copper	164	mg/kg	50
		Lead	375	mg/kg	63
		Mercury	2.1	mg/kg	0
		Nickel	37.3	mg/kg	30
		Selenium	7.1	mg/kg	4
		Zinc	1,030	mg/kg	109
		Benzo(a)anthracene	1,880	ug/kg	1,000
		Benzo(a)pyrene	1,890	ug/kg	1,000
		Benzo(b)fluoranthene	1,910	ug/kg	1,000
		Benzo(k)fluoranthene	1,220	ug/kg	800
		Chrysene	1,850	ug/kg	1,000
		Dibenzo(a,h)anthracene	593	ug/kg	330
		Indeno(1,2,3-cd)pyrene	1,100	ug/kg	500
B-22 (7-7.5)	JA93266-2	Aroclor 1260	2690	ug/kg	100
		Lead	157	mg/kg	63
		Mercury	2	mg/kg	0.18
		Zinc	121	mg/kg	109
		2-Methylphenol	637	ug/kg	330
		Phenol	376	ug/kg	330
		Benzo(a)anthracene	24,100	ug/kg	1,000
		Benzo(a)pyrene	23,700	ug/kg	1,000
		Benzo(b)fluoranthene	21,800	ug/kg	1,000
		Benzo(k)fluoranthene	17,200	ug/kg	800
		Chrysene	22,000	ug/kg	1,000
		Dibenzo(a,h)anthracene	7,370	ug/kg	330
		Dibenzofuran	9,320	ug/kg	7,000
		Indeno(1,2,3-cd)pyrene	16,300	ug/kg	500
		Naphthalene	51,700	ug/kg	12,000
		Benzene	453	ug/kg	60
		Toluene	1,100	ug/kg	700
		m,p-Xylene	1,970	ug/kg	260
		o-Xylene	820	ug/kg	260

Bottom Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Xylene (total)	2,790	ug/kg	260
B-26 (7-7.5)	JA93266-3	4,4'-DDD	203	ug/kg	3.3
		4,4'-DDE	11.7	ug/kg	3.3
		4,4'-DDT	663	ug/kg	3.3
		Benzo(a)anthracene	1,210	ug/kg	1,000
		Benzo(a)pyrene	1,170	ug/kg	1,000
		Benzo(k)fluoranthene	897	ug/kg	800
		Chrysene	1,060	ug/kg	1,000
		Dibenzo(a,h)anthracene	368	ug/kg	330
		Indeno(1,2,3-cd)pyrene	513	ug/kg	500
B-31 (7-7.5)	JA93266-4	4,4'-DDD	16.9	ug/kg	3.3
		4,4'-DDE	20.5	ug/kg	3.3
		4,4'-DDT	117	ug/kg	3.3
		Aroclor 1242	133	ug/kg	100
		Aroclor 1260	754	ug/kg	100
		Lead	91.4	mg/kg	63
		Mercury	0.51	mg/kg	0.18
		Zinc	181	mg/kg	109
		Benzo(a)anthracene	23,800	ug/kg	1,000
		Benzo(a)pyrene	17,200	ug/kg	1,000
		Benzo(b)fluoranthene	14,400	ug/kg	1,000
		Benzo(k)fluoranthene	8,800	ug/kg	800
		Chrysene	21,300	ug/kg	1,000
		Dibenzo(a,h)anthracene	5,010	ug/kg	330
		Dibenzofuran	17,000	ug/kg	7,000
		Indeno(1,2,3-cd)pyrene	8,060	ug/kg	500
		Naphthalene	78,800	ug/kg	12,000
		Benzene	162	ug/kg	60
		Ethylbenzene	1,860	ug/kg	1,000
		m,p-Xylene	4,180	ug/kg	260
		o-Xylene	1,820	ug/kg	260
		Xylene (total)	6,000	ug/kg	260
B-HS (7-7.5)	JA93266-5	4,4'-DDT	98.6	ug/kg	3.3
		Aroclor 1260	359	ug/kg	100
		Arsenic	48.4	mg/kg	13
		Lead	71.3	mg/kg	63
		Mercury	0.31	mg/kg	0.18
		Selenium	5	mg/kg	3.9
		Benzo(a)anthracene	32,500	ug/kg	1,000
		Benzo(a)pyrene	26,500	ug/kg	1,000
		Benzo(b)fluoranthene	30,000	ug/kg	1,000
		Benzo(k)fluoranthene	8,230	ug/kg	800
		Chrysene	29,900	ug/kg	1,000
		Dibenzo(a,h)anthracene	7,170	ug/kg	330
		Indeno(1,2,3-cd)pyrene	12,400	ug/kg	500

Sidewall Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
SW-1	JA89559-5	Aroclor 1260	325	ug/kg	100
		Lead	179	mg/kg	63
		Mercury	0.62	mg/kg	0.18
		Zinc	194	mg/kg	109
		Benzo(a)anthracene	34,700	ug/kg	1,000
		Benzo(a)pyrene	31,300	ug/kg	1,000
		Benzo(b)fluoranthene	37,400	ug/kg	1,000
		Benzo(k)fluoranthene	15,000	ug/kg	800
		Chrysene	33,400	ug/kg	1,000
		Dibenzo(a,h)anthracene	7,510	ug/kg	330
		Indeno(1,2,3-cd)pyrene	21,100	ug/kg	500
SW-2	JA89559-6	Aroclor 1254	172	ug/kg	100
		Copper	71.6	mg/kg	50
		Lead	147	mg/kg	63
		Mercury	0.49	mg/kg	0.18
		Zinc	289	mg/kg	109
		Benzo(a)anthracene	1,230	ug/kg	1,000
		Benzo(a)pyrene	1,310	ug/kg	1,000
		Benzo(b)fluoranthene	1,330	ug/kg	1,000
		Chrysene	1,300	ug/kg	1,000
		Dibenzo(a,h)anthracene	345	ug/kg	330
		Indeno(1,2,3-cd)pyrene	959	ug/kg	500
SW-3(3-3.5)	JA90399-1	Copper	68.2	mg/kg	50
		Lead	221	mg/kg	63
		Mercury	2.2	mg/kg	0.18
		Zinc	261	mg/kg	109
		Benzo(a)anthracene	5,730	ug/kg	1,000
		Benzo(a)pyrene	4,470	ug/kg	1,000
		Benzo(b)fluoranthene	4,490	ug/kg	1,000
		Benzo(k)fluoranthene	2,400	ug/kg	800
		Chrysene	5,400	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,240	ug/kg	330
		Indeno(1,2,3-cd)pyrene	2,150	ug/kg	500
SW-4(3-3.5)	JA90399-2	Arsenic	25.4	mg/kg	13
		Barium	385	mg/kg	350
		Copper	168	mg/kg	50
		Lead	1,330	mg/kg	63
		Mercury	4	mg/kg	0.18
		Nickel	41.5	mg/kg	30
		Zinc	416	mg/kg	109
		Benzo(a)anthracene	11,300	ug/kg	1,000
		Benzo(a)pyrene	8,190	ug/kg	1,000
		Benzo(b)fluoranthene	11,500	ug/kg	1,000

Sidewall Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Benzo(k)fluoranthene	2,580	ug/kg	800
		Chrysene	10,800	ug/kg	1,000
		Dibenzo(a,h)anthracene	2,260	ug/kg	330
		Indeno(1,2,3-cd)pyrene	5,730	ug/kg	500
SW-5 (3-3.5)	JA90552-6	Aroclor 1260	128	ug/kg	100
		Barium	511	mg/kg	350
		Copper	81.7	mg/kg	50
		Lead	212	mg/kg	63
		Mercury	0.87	mg/kg	0.18
		Zinc	456	mg/kg	109
		Benzo(a)anthracene	8,610	ug/kg	1,000
		Benzo(a)pyrene	7,030	ug/kg	1,000
		Benzo(b)fluoranthene	6,930	ug/kg	1,000
		Benzo(k)fluoranthene	5,230	ug/kg	800
		Chrysene	8,600	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,960	ug/kg	330
		Indeno(1,2,3-cd)pyrene	4,280	ug/kg	500
SW-6 (3-3.5)	JA90552-12	Lead	162	mg/kg	63
		Mercury	1.1	mg/kg	0.18
		Zinc	205	mg/kg	109
		Benzo(a)anthracene	39,300	ug/kg	1,000
		Benzo(a)pyrene	34,700	ug/kg	1,000
		Benzo(b)fluoranthene	39,300	ug/kg	1,000
		Benzo(k)fluoranthene	21,500	ug/kg	800
		Chrysene	42,200	ug/kg	1,000
		Dibenzo(a,h)anthracene	10,800	ug/kg	330
		Fluoranthene	104,000	ug/kg	100,000
		Indeno(1,2,3-cd)pyrene	18,700	ug/kg	500
SW-7 (3-3.5)	JA90552-13	Copper	81.9	mg/kg	50
		Lead	202	mg/kg	63
		Mercury	9	mg/kg	0.18
		Zinc	387	mg/kg	109
		Benzo(a)anthracene	6,990	ug/kg	1,000
		Benzo(a)pyrene	6,190	ug/kg	1,000
		Benzo(b)fluoranthene	6,280	ug/kg	1,000
		Benzo(k)fluoranthene	2,140	ug/kg	800
		Chrysene	6,850	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,790	ug/kg	330
		Indeno(1,2,3-cd)pyrene	3,320	ug/kg	500
SW-8(3-3.5)	JA90802-1	Lead	145	mg/kg	63
		Mercury	1.4	mg/kg	0.18
		Zinc	220	mg/kg	109
		Benzo(a)anthracene	7,160	ug/kg	1,000
		Benzo(a)pyrene	7,180	ug/kg	1,000
		Benzo(b)fluoranthene	7,710	ug/kg	1,000
		Benzo(k)fluoranthene	3,100	ug/kg	800

Sidewall Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Chrysene	7,470	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,770	ug/kg	330
		Indeno(1,2,3-cd)pyrene	3,780	ug/kg	500
		Lead	88.7	mg/kg	63
		Mercury	0.66	mg/kg	0.18
		Benzo(a)anthracene	3,090	ug/kg	1,000
		Benzo(a)pyrene	3,090	ug/kg	1,000
		Benzo(b)fluoranthene	3,640	ug/kg	1,000
		Benzo(k)fluoranthene	1,690	ug/kg	800
		Chrysene	4,210	ug/kg	1,000
		Dibenzo(a,h)anthracene	755	ug/kg	330
		Indeno(1,2,3-cd)pyrene	1,490	ug/kg	500
SW-10(3-3.5)	JA92397-1	Aroclor 1260	147	ug/kg	100
		Arsenic	23	mg/kg	13
		Copper	206	mg/kg	50
		Lead	165	mg/kg	63
		Mercury	5.3	mg/kg	0.18
		Nickel	117	mg/kg	30
		Zinc	208	mg/kg	109
		Benzo(a)anthracene	7,980	ug/kg	1,000
		Benzo(a)pyrene	6,450	ug/kg	1,000
		Benzo(b)fluoranthene	7,650	ug/kg	1,000
		Benzo(k)fluoranthene	5,180	ug/kg	800
		Chrysene	7,650	ug/kg	1,000
		Dibenzo(a,h)anthracene	2,290	ug/kg	330
		Indeno(1,2,3-cd)pyrene	4,130	ug/kg	500
SW-11(3-3.5)	JA92397-2	Copper	91.2	mg/kg	50
		Lead	173	mg/kg	63
		Mercury	14.6	mg/kg	0.18
		Zinc	429	mg/kg	109
		Benzo(a)anthracene	8,560	ug/kg	1,000
		Benzo(a)pyrene	8,820	ug/kg	1,000
		Benzo(b)fluoranthene	10,000	ug/kg	1,000
		Benzo(k)fluoranthene	6,040	ug/kg	800
		Chrysene	8,700	ug/kg	1,000
		Dibenzo(a,h)anthracene	3,040	ug/kg	330
		Indeno(1,2,3-cd)pyrene	5,710	ug/kg	500
SW-12 (3-3.5)	JA92694-5	Lead	103	mg/kg	63
		Mercury	0.95	mg/kg	0.18
		Benzo(a)anthracene	21,400	ug/kg	1,000
		Benzo(a)pyrene	18,900	ug/kg	1,000
		Benzo(b)fluoranthene	18,800	ug/kg	1,000
		Benzo(k)fluoranthene	13,200	ug/kg	800
		Chrysene	20,600	ug/kg	1,000
		Dibenzo(a,h)anthracene	4,890	ug/kg	330
		Indeno(1,2,3-cd)pyrene	12,300	ug/kg	500

Sidewall Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
SW-13 (3-3.5)	JA92694-6	Copper	50.8	mg/kg	50
		Lead	111	mg/kg	63
		Mercury	1.6	mg/kg	0.18
		Zinc	234	mg/kg	109
		Benzo(a)anthracene	3,290	ug/kg	1,000
		Benzo(a)pyrene	3,520	ug/kg	1,000
		Benzo(b)fluoranthene	2,850	ug/kg	1,000
		Benzo(k)fluoranthene	3,110	ug/kg	800
		Chrysene	3,420	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,080	ug/kg	330
		Indeno(1,2,3-cd)pyrene	2,800	ug/kg	500
SW-14 (1.5-2)	JA92694-2	Mercury	0.74	mg/kg	0.18
		4,4'-DDT	7.8	ug/kg	3.3
		Lead	105	mg/kg	63
		Mercury	0.24	mg/kg	0.18
		Zinc	196	mg/kg	109
		Benzo(a)anthracene	1,110	ug/kg	1,000
		Benzo(a)pyrene	1,010	ug/kg	1,000
		Benzo(b)fluoranthene	1,160	ug/kg	1,000
		Chrysene	1,040	ug/kg	1,000
		Indeno(1,2,3-cd)pyrene	698	ug/kg	500
		Zinc	267	mg/kg	109
		Indeno(1,2,3-cd)pyrene	518	ug/kg	500
SW-18(4-4.5)	JA92397-3	Lead	74.7	mg/kg	63
SW-19(4-4.5)	JA92397-4	Lead	132	mg/kg	63
		Mercury	1	mg/kg	0.18
		Zinc	148	mg/kg	109
		Benzo(a)anthracene	3,810	ug/kg	1,000
		Benzo(a)pyrene	3,500	ug/kg	1,000
		Benzo(b)fluoranthene	4,060	ug/kg	1,000
		Benzo(k)fluoranthene	1,950	ug/kg	800
		Chrysene	3,460	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,260	ug/kg	330
		Indeno(1,2,3-cd)pyrene	2,490	ug/kg	500
SW-20(4-4.5)	JA92397-5	Aroclor 1260	354	ug/kg	100
		Copper	72.5	mg/kg	50
		Lead	186	mg/kg	63
		Mercury	0.8	mg/kg	0.18
		Zinc	213	mg/kg	109
		Benzo(a)anthracene	3,990	ug/kg	1,000
		Benzo(a)pyrene	3,770	ug/kg	1,000
		Benzo(b)fluoranthene	3,920	ug/kg	1,000
		Benzo(k)fluoranthene	2,400	ug/kg	800
		Chrysene	3,680	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,240	ug/kg	330
		Indeno(1,2,3-cd)pyrene	2,410	ug/kg	500

Sidewall Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
SW-21(3-3.5)	JA90802-4	Copper	53	mg/kg	50
		Lead	143	mg/kg	63
		Mercury	0.43	mg/kg	0.18
		Zinc	208	mg/kg	109
		Benzo(a)anthracene	3,210	ug/kg	1,000
		Benzo(a)pyrene	3,300	ug/kg	1,000
		Benzo(b)fluoranthene	3,070	ug/kg	1,000
		Benzo(k)fluoranthene	2,060	ug/kg	800
		Chrysene	2,910	ug/kg	1,000
		Dibenzo(a,h)anthracene	876	ug/kg	330
		Indeno(1,2,3-cd)pyrene	1,680	ug/kg	500
		Copper	107	mg/kg	50
		Lead	160	mg/kg	63
		Mercury	0.41	mg/kg	0.18
		Nickel	33.7	mg/kg	30
		Zinc	242	mg/kg	109
		Benzo(a)anthracene	12,800	ug/kg	1,000
		Benzo(a)pyrene	13,200	ug/kg	1,000
		Benzo(b)fluoranthene	11,600	ug/kg	1,000
		Benzo(k)fluoranthene	8,430	ug/kg	800
		Chrysene	12,600	ug/kg	1,000
		Dibenzo(a,h)anthracene	2,370	ug/kg	330
		Indeno(1,2,3-cd)pyrene	7,680	ug/kg	500
SW-23	JA89559-8	Aroclor 1254	227	ug/kg	100
		Aroclor 1260	261	ug/kg	100
		Copper	72.2	mg/kg	50
		Lead	153	mg/kg	63
		Mercury	0.65	mg/kg	0.18
		Zinc	206	mg/kg	109
		Benzo(a)anthracene	7,310	ug/kg	1,000
		Benzo(a)pyrene	7,240	ug/kg	1,000
		Benzo(b)fluoranthene	6,410	ug/kg	1,000
		Benzo(k)fluoranthene	5,030	ug/kg	800
		Chrysene	6,890	ug/kg	1,000
		Dibenzo(a,h)anthracene	1,770	ug/kg	330
		Indeno(1,2,3-cd)pyrene	4,340	ug/kg	500
SW-24	JA89559-7	Copper	70.4	mg/kg	50
		Lead	152	mg/kg	63
		Mercury	0.55	mg/kg	0.18
		Zinc	232	mg/kg	109
		Benzo(a)anthracene	25,200	ug/kg	1,000
		Benzo(a)pyrene	21,000	ug/kg	1,000
		Benzo(b)fluoranthene	18,400	ug/kg	1,000
		Benzo(k)fluoranthene	14,200	ug/kg	800
		Chrysene	22,500	ug/kg	1,000
		Dibenzo(a,h)anthracene	3,560	ug/kg	330

Sidewall Sample Results above Un-Restricted SCOs

Sample	Lab ID	Parameter	Result	Units	Un-Restricted SCO
		Indeno(1,2,3-cd)pyrene	11,900	ug/kg	500

5.0 Data Usability Summary

Elevated groundwater pH was a factor in sampling following treatment because the addition of sodium hydroxide to activate the persulfate raised the pH. The increased groundwater pH in turn raised the VOC sample pH in some samples above 2 even with HCL as the preservative. This effect was offset by cooling the samples immediately and delivering them to the laboratory the same day, and the sample vials remained sealed in the laboratory until analysis. Nonetheless, a few non-detect sample results were rejected because the pH exceeded 2 and the affected samples were analyzed beyond the 7-day holding time required for VOC samples where the pH exceeds 2. The samples with the affected non-detects include the following:

Well	Location
MW-20(S)	Parcel 8 Treatment Zone
MW-19(D)	Below Treatment Zone
MW-15(D)	Below Treatment Zone
MW-27(D)	Off-site Area
MW-27(D Dup)	Off-site Area
MW-30(S)	Off-site Area

The two compounds affected in MW-20(S) were benzene and ethylbenzene. MW-19(D) and MW-15(D) are both below the treatment interval where treatment was not targeted and net reductions were not observed (the increased pH in samples below the treatment zone suggests that some oxidant did reach this area). Benzene, toluene, ethylbenzene, and total xylenes in MW-19(D) and MW-15(D) were unaffected. Benzene, toluene, ethylbenzene, and total xylenes in MW-27(D) and MW-27(D Dup) were unaffected as well. In MW-30(S), only benzene was affected. These qualifications have negligible affect on the results and no bearing on the overall conclusions regarding the effectiveness of treatment.

Post-treatment soil samples remain unaffected and all results were deemed usable per the third party QA/QC review. Appendix K contains the Data Usability Summary reports (DUSR).

6.0 Summary

Chemical Oxidation

Parcel 8 was a very heavily contaminated site with considerable heterogeneity in soils and contaminant distribution. There was an estimated 47,000 pounds of contaminant in the treatment interval.

The principal contaminant, coal tar and its related chemical compounds, is a difficult compound to remediate because of its affinity to adsorb strongly to soil. On an old site such as this, cleanup is made more difficult because the coal tar NAPL becomes trapped as very small droplets in the soil that continues to contaminate soil and groundwater. The trapped NAPL droplets make up the bulk of the contaminant mass and are extremely difficult to access for *in situ* treatment. The access difficulty is exacerbated when the soils are fine, such as with silts and silty clays, both of which are widespread on the site.

The combination of treatment methods employed on Parcel 8 appears to have effectively reduced the soil contaminant mass (by 90.5%) meeting the remediation goal of 90 percent mass reduction. Naphthalene, the principal contaminant was reduced by 95 percent. The most toxic and mobile compound, benzene, exhibited dramatic reductions in soil concentrations, an estimated 100 percent reduction in an un-weighted analysis.

Groundwater exhibited large reductions in benzene, toluene, ethylbenzene, total xylenes, and naphthalene. Reductions in groundwater contaminant levels were also pronounced in off-site wells, some of which are more than 60 feet from Parcel 8 and more than 135 feet in one instance. This indicated that groundwater contaminants from Parcel 8 are not moving off-site or are very much reduced.

A few non-detect sample results were rejected because the pH exceeded 2 and the affected samples were analyzed beyond the 7-day holding time required for VOC samples where the pH is above 2. The affected groundwater samples are from monitoring wells MW-20(S), MW-19(D), MW-15(D), MW-27(D & Dup), and MW-30(S). These qualifications have negligible effect on the results and no bearing on the overall conclusions regarding the effectiveness of treatment.

In summary, the *in situ* treatment applied to this site exceeded the target cleanup goal of 90 percent reduction in total contaminant mass as well as for key individual contaminants and reduced groundwater contamination both on-site and off-site.

Excavation

The excavation proceeded as planned. The total tonnage of soil was approximately 18 percent more than originally planned because the excavation depth went deeper than planned in some areas of the site in accordance with the RAWP. There is a minimum of three (3) feet of RCA, the approved clean soil cover, over the residual soils. Deeper excavation was required because post-excavation sampling encountered

metals that exceeded the SCOs. In Grid Cell 7, the excavation went deeper because mercury slightly over the protection of groundwater standard had to be removed. Originally, the expectation was that approximately 6,500 tons (4,710 yd^3) of soil would be removed. A total 7,665.3 tons of soil were disposed of from the site. The metals driving further excavation were primarily arsenic and mercury, and to a much lesser extent barium and copper.

Five USTs were uncovered during excavation beyond the 1,000-gallon known UST that had been previously abandoned-in-place. This UST was allowed to remain, but the five newly discovered USTs were removed and disposed as scrap metal.

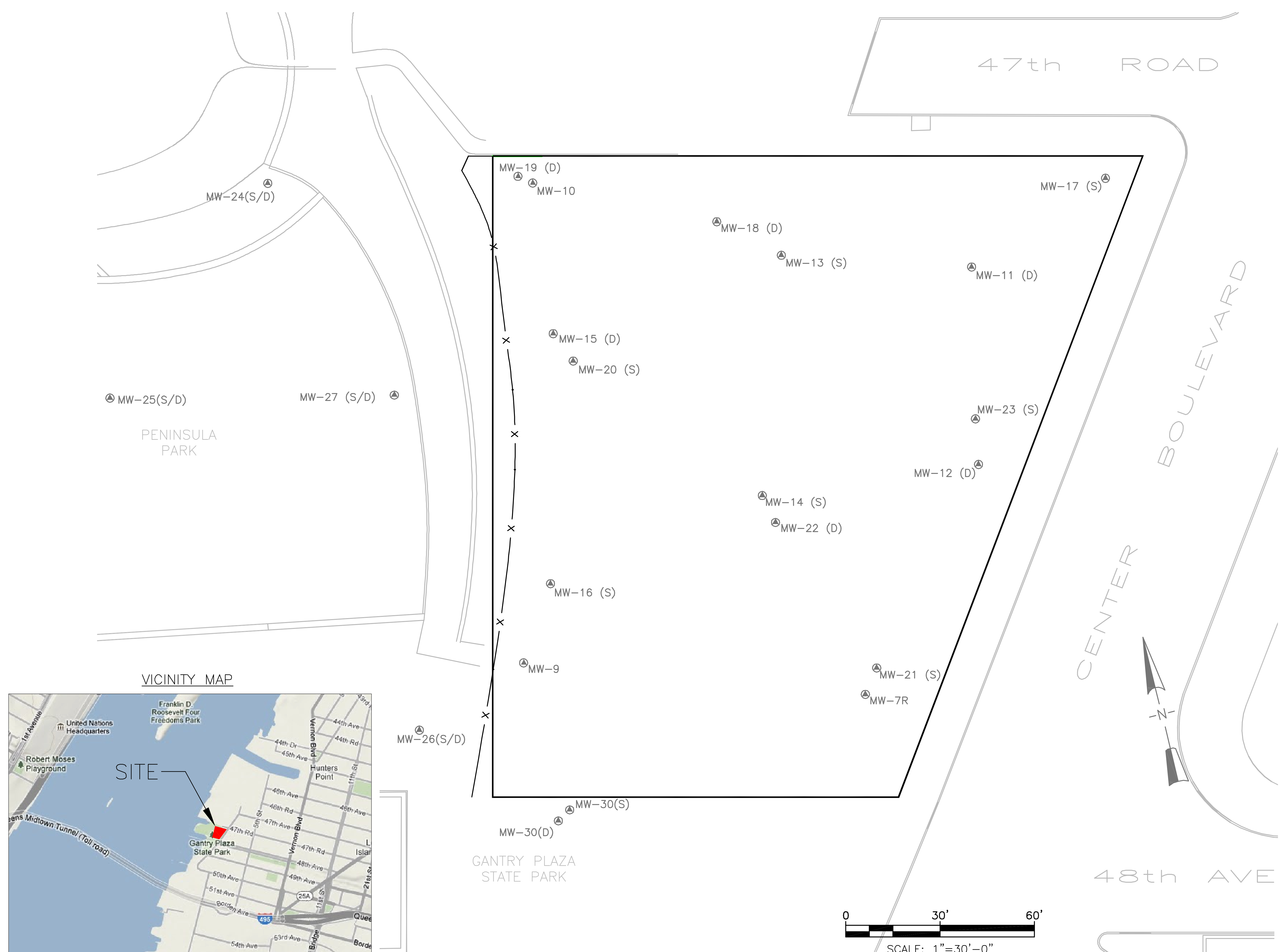
The demarcation barrier was installed over the entire site at the top of the residual soils before the clean soil cover was applied. One-hundred (100) percent of the backfill was RCA from the former QWD Stage 3 area. No outside fill was imported to the site as backfill.

Upon completion, the site was graded so as to be level and all materials and remaining debris removed. A ramp was built from sidewalk grade at the gate on Center Boulevard to level site grade for vehicle access. All monitoring wells were stabilized with soil and left intact (refer to Photo log, Appendix H).

Figures

Some figures are embedded in the text

FILE: P:\Project Files\10011 - Sive Paget & Riesel\007-1 - Avalon BCP Parcel 8\FER\Figures\FIG 1 - Site Plan.dwg DATE: 12/19/2011



Fleming Lee-Shue

Environmental Management & Consulting

158 West 29th Street, 9th Fl
New York, NY 10001

Queens West Development
Parcel 8
BCP Site No. C241087

FIGURE 1

SITE PLAN

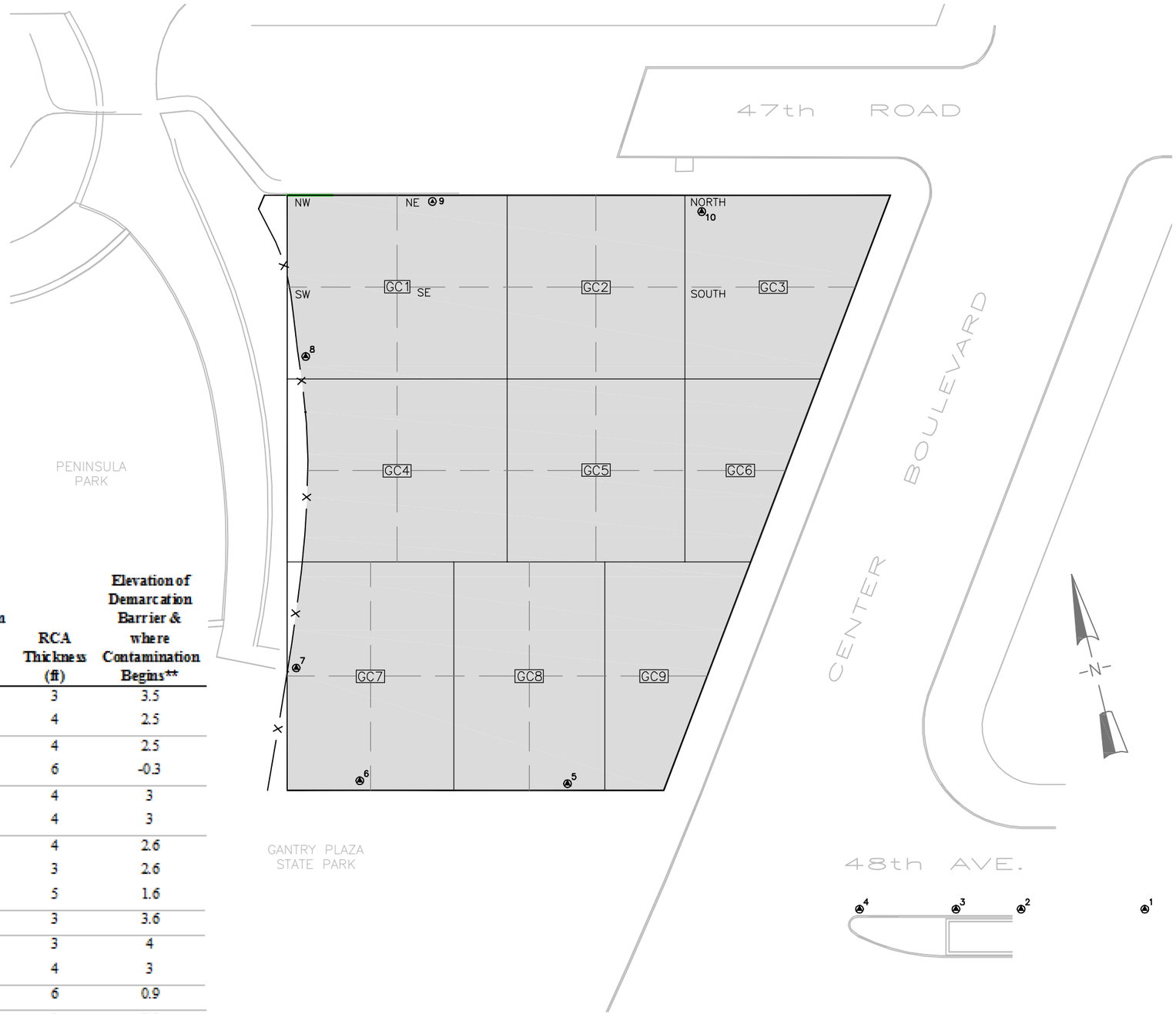
Date
December 2011

Project Number
10011-019-8

LEGEND

PARCEL 8 SITE BOUNDARY

MONITORING WELL (FOR POST TREATMENT GROUNDWATER SAMPLING & MONITORING)



Grid Cell	Quadrant/ Section	Surface Elevation before Excavation*	Final Excavation Bottom (ft.) (from original site grade)	RCA Thickness (ft)	Elevation of Demarcation Barrier & where Contamination Begins**
1	NW, NE,	7.98-8.04	-4.0	3	3.5
1	SE, SW	7.98-8.00	-5.0	4	2.5
2	NW, NE, SE	8.03-8.55	-5.0	4	2.5
2	SW	8.29	-7.0	6	-0.3
3	Northern half	9.14	-5.0	4	3
3	Southern half	7.37	-5.0	4	3
4	NW	8.03	-5.0	4	2.6
4	NE	8.11	-4.0	3	2.6
4	SW, SE	8.09-8.29	-6.0	5	1.6
5	NW,NE,SW,SE	7.83-8.91	-4.0	3	3.6
6	Northern Half	7.07	-4.0	3	4
6	Southern Half	8.20	-5.0	4	3
7	NW, NE, SE, SW	7.81 – 8.86	-7.0	6	0.9
8	Northern Half	9.15	-4.0	3	3.9
8	Southern Half	8.45 – 8.86	-4.0	3	3.9
9	Northern Half	9.11	-5.0	4	2.9
9	Southern Half	8.89	-4.0	3	3.9

*Elevations refer to Queens Borough Datum (QBD), which is 2.725 feet above mean sea level datum at Sandy Hook, NJ 1929. Source: Montrose Survey# 59186-7 January 8, 2009.

**Typical surface elevation – RCA thickness

Fleming Lee-Shue

Environmental Management & Consulting

158 West 29th Street, 9th Fl
New York, NY 10001

Queens West Development
Parcel 8
BCP Site No. C241087

FIGURE 2

EXTENT OF EXCAVATION

Date
December 2011

Project Number
10011-019-4

LEGEND

- PARCEL 8 SITE BOUNDARY
- EXTENT OF REMEDIAL EXCAVATION
- GC# REMEDIAL EXCAVATION GRID CELL
- NE GRID CELL QUADRANT
- NORTH GRID CELL SECTION
- ▲9 FORMER SOIL GAS PRESSURE MONITORING POINT APPROXIMATE LOCATIONS

FILE: P:\Project Files\10011 – Sive Paget & Riesel\007-1 – Avalon BCP Parcel 8\FER\Figures\FIG 2 – Extent of Excavation.dwg DATE: 12/19/2011

Material Above Commercial SCOs to Remain in Place

Parameter	Conc. (mg/kg)	Depth (ft bgs)	Location
Arsenic	19.5	7 - 9	QW-SB-7
Arsenic	24	12 - 13	MW-22 (SB-28)

FILE: P:\Project Files\10011 - Sive Paget & Riesel\007-1 - Avalon BCP Parcel 8\FER\Figures\FIG 9-A - Post Sampling Locations.dwg DATE: 12/19/2011

Fleming Lee-Shue

Environmental Management & Consulting

158 West 29th Street, 9th Fl
New York, NY 10001

Queens West Development
Parcel 8
BCP Site No. C241087

FIGURE 9-A

POST REMEDIATION SOIL SAMPLE LOCATIONS

Date
December 2011

Project Number
10011-019-4

LEGEND

- PARCEL 8 SITE BOUNDARY
- MONITORING WELL
- SW-X SIDEWALL END POINT SAMPLE
- FENCELINE
- B-X BOTTOM END POINT SAMPLE
- U/D CAMP MONITORING LOCATION (UPGRADIENT/ DOWNGRADIENT) PENDING DAILY WIND PATTERNS

Sample B-12 (3.5-4) JA90022-10	Result
4,4'-DDT	20.3
Copper	87.9
Lead	154
Mercury	0.34
Zinc	262
Benzo(a)anthracene	15500
Benzo(a)pyrene	13200
Benzo(b)fluoranthene	13900
Benzo(k)fluoranthene	7390
Chrysene	14400
Dibenzo(a,h)anthracene	2190
Indeno(1,2,3-cd)pyrene	7560

Sample B-1 (3.5-4) JA89559-1	Result
4,4'-DDT	19.2
Aroclor 1254	340
Aroclor 1260	172
Lead	122
Mercury	0.55
Zinc	194
Benzo(a)anthracene	7930
Benzo(a)pyrene	7320
Benzo(b)fluoranthene	7090
Benzo(k)fluoranthene	3810
Chrysene	7800
Dibenzo(a,h)anthracene	1600
Indeno(1,2,3-cd)pyrene	4740

Sample B-2 (3.5-4) JA89559-2	Result
4,4'-DDT	7.6
Copper	51.1
Lead	91.2
Mercury	0.28
Zinc	135
Benzo(a)anthracene	1470
Benzo(a)pyrene	1510
Benzo(b)fluoranthene	1370
Benzo(k)fluoranthene	1090
Chrysene	1490
Indeno(1,2,3-cd)pyrene	1090

Sample B-10 (5-5.5) JA90802-6	Result
Benzo(a)anthracene	7720
Benzo(a)pyrene	8450
Benzo(b)fluoranthene	9050
Benzo(k)fluoranthene	4440
Chrysene	8320
Dibenzo(a,h)anthracene	3350
Indeno(1,2,3-cd)pyrene	4880

Sample B-5 (5-5.5) JA90802-7	Result
Benzo(a)anthracene	7900
Benzo(a)pyrene	7260
Benzo(b)fluoranthene	7690
Benzo(k)fluoranthene	2840
Chrysene	7640
Dibenzo(a,h)anthracene	2150
Indeno(1,2,3-cd)pyrene	4050

Sample B-7 (5-5.5) JA89559-4	Result
Arsenic	18.2

Sample B-9 (4.5-5) JA90552-1	Result
Arsenic	16.2

Sample B-18 (3.5-4) JA90399-8	Result
Arsenic	14.1
Copper	62.1
Lead	207
Mercury	0.28
Benzo(a)anthracene	1280
Benzo(a)pyrene	1430
Benzo(b)fluoranthene	1360
Chrysene	1390
Dibenzo(a,h)anthracene	399
Indeno(1,2,3-cd)pyrene	801

Sample B-17 (6-6.5) JA91348-2	Result
Mercury	0.22

Sample B-22 (7-7.5) JA93266-2	Result
Aroclor 1260	2690
Lead	157
Mercury	2
Zinc	121
2-Methylphenol	637
Phenol	376
Benzo(a)anthracene	24100
Benzo(a)pyrene	23700
Benzo(b)fluoranthene	21800
Benzo(k)fluoranthene	17200
Chrysene	22000
Dibenzo(a,h)anthracene	7370
Dibenzofuran	9320
Indeno(1,2,3-cd)pyrene	16300
Naphthalene	51700
Benzene	453
Toluene	1100
m,p-Xylene	1970
o-Xylene	820
Xylene (total)	2790
Naphthalene	90000

Sample B-21 (7-7.5) JA93266-1	Result
4,4'-DDD	14.4
4,4'-DDT	81.3
Aroclor 1260	258
Arsenic	27.1
Copper	164
Lead	375
Mercury	2.1
Nickel	37.3
Selenium	7.1
Zinc	1030
Benzo(a)anthracene	1880
Benzo(a)pyrene	1890
Benzo(b)fluoranthene	1910
Benzo(k)fluoranthene	1220
Chrysene	1850
Dibenzo(a,h)anthracene	593
Indeno(1,2,3-cd)pyrene	1100

Sample B-26 (7-7.5) JA93266-3	Result
4,4'-DDD	203
4,4'-DDE	11.7
4,4'-DDT	663
Benzo(a)anthracene	1210
Benzo(a)pyrene	1170
Benzo(k)fluoranthene	897
Chrysene	1060
Dibenzo(a,h)anthracene	368
Indeno(1,2,3-cd)pyrene	513

Sample GC7 UST1(8-8.5) JA93100-1	Result
Aroclor 1260	313
Copper	51.9
Lead	116
Mercury	0.74
Zinc	204
2-Methylphenol	52900
Phenol	79800
Acenaphthene	61300
Benzo(a)anthracene	99300
Benzo(a)pyrene	79200
Benzo(b)fluoranthene	79700
Benzo(k)fluoranthene	46100
Chrysene	88500
Dibenzo(a,h)anthracene	20100
Dibenzofuran	119000
Fluoranthene	291000
Fluorene	142000
Indeno(1,2,3-cd)pyrene	37900
Naphthalene	1430000
Phenanthrene	467000
Pyrene	217000
Benzene	89500
Ethylbenzene	17000
Toluene	158000
m,p-Xylene	120000
o-Xylene	39700
Xylene (total)	159000
Benzene, 1,3,5-trimethyl-	39000
Benzene, 1,2,4-trimethyl-	81000
Naphthalene	1200000

Sample B-HS (7-7.5) JA93266-5	Result
4,4'-DDT	98.6
Aroclor 1260	359
Arsenic	48.4
Lead	71.3
Mercury	0.31
Selenium	5
Benzo(a)anthracene	32500
Benzo(a)pyrene	26500
Benzo(b)fluoranthene	30000
Benzo(k)fluoranthene	8230
Chrysene	29900
Dibenzo(a,h)anthracene	7170
Indeno(1,2,3-cd)pyrene	12400

Sample B-31 (7-7.5) JA93266-4	Result
4,4'-DDD	16.9
4,4'-DDE	20.5
4,4'-DDT	117
Aroclor 1242	133
Aroclor 1260	754
Lead	91.4
Mercury	0.51
Zinc	181
Benzo(a)anthracene	23800
Benzo(a)pyrene	17200
Benzo(b)fluoranthene	14400
Benzo(k)fluoranthene	8800
Chrysene	21300
Dibenzo(a,h)anthracene	5010
Dibenzofuran	17000
Indeno(1,2,3-cd)pyrene	8060
Naphthalene	78800
Benzene	162
Ethylbenzene	1860
m,p-Xylene	4180
o-Xylene	1820
Xylene (total)	6000
Benzene, 1,2,4-trimethyl-	9900
Naphthalene	140000

Sample GC8 UST2(9-9.5) JA93100-2	Result
Mercury	0.19
Acenaphthene	96800
Benzo(a)anthracene	56000
Benzo(a)pyrene	39900
Benzo(b)fluoranthene	34500
Benzo(k)fluoranthene	31600
Chrysene	51500
Dibenzo(a,h)anthracene	8520
Dibenzofuran	80400
Fluoranthene	155000
Fluorene	101000
Indeno(1,2,3-cd)pyrene	13000
Naphthalene	377000
Phenanthrene	262000
Pyrene	128000
Benzene	1480
Ethylbenzene	10900
Toluene	2340
m,p-Xylene	19100
o-Xylene	9590
Xylene (total)	28600
Benzene, 1,2,4-trimethyl-	19000
Naphthalene	86000

Sample B-32 (4-4.5) JA92256-1	Result
Copper	59.9
Lead	90.7
Mercury	0.35
Zinc	158
Benzo(a)anthracene	1360
Benzo(a)pyrene	1410
Benzo(b)fluoranthene	1570
Chrysene	1330
Dibenzo(a,h)anthracene	374
Indeno(1,2,3-cd)pyrene	927

Sample B-33 (4-4.5) JA92256-2	Result
Arsenic	17.6
Lead	106
Mercury	0.33
Zinc	118
Benzo(a)anthracene	9580
Benzo(a)pyrene	8560
Benzo(b)fluoranthene	7640
Benzo(k)fluoranthene	5690
Chrysene	9380
Dibenzo(a,h)anthracene	1850
Indeno(1,2,3-cd)pyrene	5480

Sample B-34 (4-4.5) JA92256-3	Result
Lead	129
Mercury	0.53
Benzo(a)anthracene	64700
Benzo(a)pyrene	60500
Benzo(b)fluoranthene	63800
Benzo(k)fluoranthene	30000
Chrysene	64400
Dibenzo(a,h)anthracene	11100
Dibenzofuran	9000
Fluoranthene	149000
Indeno(1,2,3-cd)pyrene	39700
Phenanthrene	116000
Pyrene	118000

Sample B-28 (4-4.5) JA91441-6	Result
Arsenic	15.8
Lead	142
Benzo(b)fluoranthene	1040

Sample B-20 (5-5.5) JA91348-3	Result
Mercury	5.1

Sample B-19 (3.5-4) JA90552-4	Result
Copper	106
Lead	112
Mercury	0.19

Sample B-25 (5-5.5) JA93030-1	Result
Mercury	1.5

Sample B-30 (5-5.5) JA93030-2	Result
Mercury	1.4

Sample B-24 (4-4.5) JA91441-3	Result
Copper	54.5
Lead	76.9
Mercury	0.5
Nickel	33.3
Benzo(a)anthracene	5950
Benzo(a)pyrene	6340
Benzo(b)fluoranthene	7070
Benzo(k)fluoranthene	2170
Chrysene	5350
Dibenzo(a,h)anthracene	1280
Indeno(1,2,3-cd)pyrene	3390

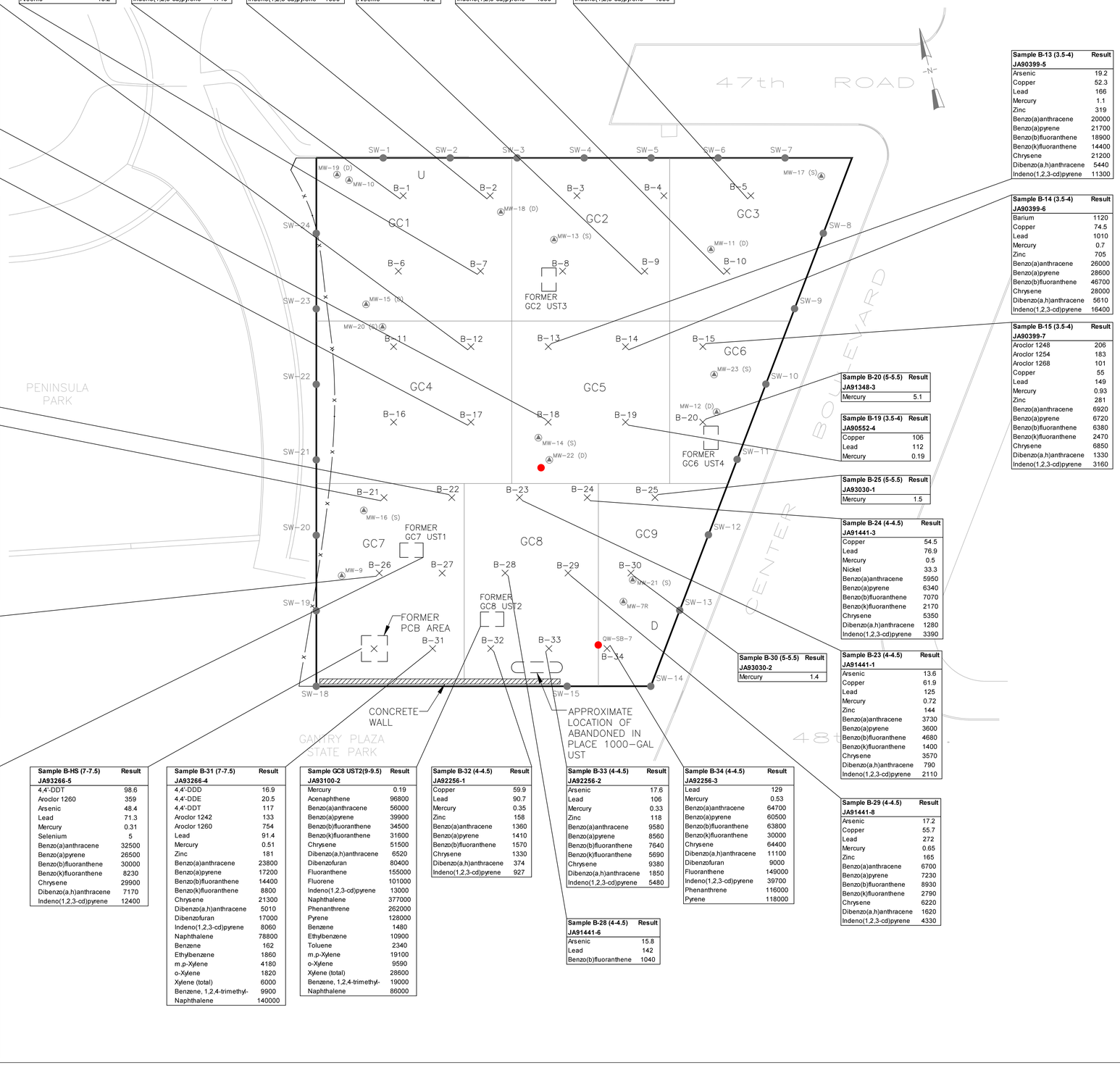
Sample B-23 (4-4.5) JA91441-1	Result
Arsenic	13.6
Copper	61.9
Lead	125
Mercury	0.72
Zinc	144
Benzo(a)anthracene	3730
Benzo(a)pyrene	3600
Benzo(b)fluoranthene	4680
Benzo(k)fluoranthene	1400
Chrysene	3570
Dibenzo(a,h)anthracene	790
Indeno(1,2,3-cd)pyrene	2110

Sample B-29 (4-4.5) JA91441-8	Result
Arsenic	17.2
Copper	55.7
Lead	272
Mercury	0.65
Zinc	165
Benzo(a)anthracene	6700
Benzo(a)pyrene	7230
Benzo(b)fluoranthene	8930
Benzo(k)fluoranthene	2790
Chrysene	6220
Dibenzo(a,h)anthracene	1620
Indeno(1,2,3-cd)pyrene	4330

Sample B-13 (3.5-4) JA90399-5	Result
Arsenic	19.2
Copper	52.3
Lead	166
Mercury	1.1
Zinc	319
Benzo(a)anthracene	20000
Benzo(a)pyrene	21700
Benzo(b)fluoranthene	18900
Benzo(k)fluoranthene	14400
Chrysene	21200
Dibenzo(a,h)anthracene	5440
Indeno(1,2,3-cd)pyrene	11300

Sample B-14 (3.5-4) JA90399-6	Result
Barium	1120
Copper	74.5
Lead	1010
Mercury	0.7
Zinc	705
Benzo(a)anthracene	26000
Benzo(a)pyrene	28600
Benzo(b)fluoranthene	46700
Chrysene	28000
Dibenzo(a,h)anthracene	5610
Indeno(1,2,3-cd)pyrene	16400

Sample B-15 (3.5-4) JA90399-7	Result
Aroclor 1248	206
Aroclor 1254	183
Aroclor 1268	101
Copper	55
Lead	149
Mercury	0.93
Zinc	281
Benzo(a)anthracene	6920
Benzo(a)pyrene	6720
Benzo(b)fluoranthene	6380
Benzo(k)fluoranthene	2470
Chrysene	6850
Dibenzo(a,h)anthracene	1330
Indeno(1,2,3-cd)pyrene	3160



NOTE: POST EXCAVATION SOILS ABOVE UN-RESTRICTED SOIL CLEANUP OBJECTIVES (SEE TABLE BELOW FOR LIMITS)

Parameter	Un-Restricted SCO	Units
2-Methylphenol	330	ug/kg
4,4'-DDD	3.3	ug/kg
4,4'-DDE	3.3	ug/kg
4,4'-DDT	3.3	ug/kg
Acenaphthene	20000	ug/kg
Aroclor 1242	100	ug/kg
Aroclor 1260	100	ug/kg
Benzene	60	ug/kg
Benzene, 1,2,4-trimethyl-	3600	ug/kg
Benzene, 1,3,5-trimethyl-	8400	ug/kg
Benzo(a)anthracene	1000	ug/kg
Benzo(a)pyrene	1000	ug/kg
Benzo(b)fluoranthene	1000	ug/kg
Benzo(k)fluoranthene	800	ug/kg
Chrysene	1000	ug/kg
Copper	50	mg/kg
Dibenzo(a,h)anthracene	330	ug/kg
Dibenzofuran	7000	ug/kg
Ethylbenzene	1000	ug/kg
Fluoranthene	100000	ug/kg
Fluorene	30000	ug/kg
Indeno(1,2,3-cd)pyrene	500	ug/kg
Lead	63	mg/kg
m,p-Xylene	260	ug/kg
Mercury	0.18	mg/kg
Naphthalene	12000	ug/kg
o-Xylene	260	ug/kg
Phenanthrene	100000	ug/kg
Phenol	330	ug/kg
Pyrene	100000	ug/kg
Toluene	700	ug/kg
Xylene (total)	260	ug/kg
Zinc	109	mg/kg

Material Above Commercial SCOs to Remain in Place

Parameter	Conc. (mg/kg)	Depth (ft bgs)	Location
Arsenic	19.5	7 - 9	QW-SB-7
Arsenic	24	12 - 13	MW-22 (SB-28)

0 20' 40'
SCALE: 1"=20'-0"

Fleming Lee-Shue
Environmental Management & Consulting
158 West 29th Street, 9th Fl
New York, NY 10001

Queens West Development
Parcel 8
BCP Site No. C241087

FIGURE 9-B

EXCEEDANCES OF UN-RESTRICTED SOIL CLEANUP OBJECTIVES (SCOs) BOTTOM ENDPOINT SAMPLES

Date
December 2011

Project Number
10011-019-4

LEGEND

- PARCEL 8 SITE BOUNDARY
- MONITORING WELL
- SW-x SIDEWALL END POINT SAMPLE
- FENCELINE
- B-x BOTTOM END POINT SAMPLE
- U/D CAMP MONITORING LOCATION (UPGRADIENT/ DOWNGRADIENT) PENDING DAILY WIND PATTERNS

FILE: P:\Project Files\10011 - Sive Paget & Riesel\007-1 - Avalon BCP Parcel 8\YER\Figures\Fig 9-B - Bottom Samples.dwg DATE: 12/19/2011

Sample SW-1 (3.4-4)	Result
JA89559-5	
Aroclor 1260	325
Lead	179
Mercury	0.62
Zinc	194
Benzo(a)anthracene	34700
Benzo(a)pyrene	31300
Benzo(b)fluoranthene	37400
Benzo(k)fluoranthene	15000
Chrysene	33400
Dibenzo(a,h)anthracene	7510
Indeno(1,2,3-cd)pyrene	21100

Sample SW-2	Result
JA89559-6	
Aroclor 1254	172
Copper	71.6
Lead	147
Mercury	0.49
Zinc	289
Benzo(a)anthracene	1230
Benzo(a)pyrene	1310
Benzo(b)fluoranthene	1330
Chrysene	1300
Dibenzo(a,h)anthracene	345
Indeno(1,2,3-cd)pyrene	959

Sample SW-3 (3-3.5)	Result
JA90399-1	
Copper	68.2
Lead	221
Mercury	2.2
Zinc	261
Benzo(a)anthracene	5730
Benzo(a)pyrene	4470
Benzo(b)fluoranthene	4490
Benzo(k)fluoranthene	2400
Chrysene	5400
Dibenzo(a,h)anthracene	1240
Indeno(1,2,3-cd)pyrene	2150

Sample SW-4 (3-3.5)	Result
JA90399-2	
Arsenic	25.4
Barium	385
Copper	168
Lead	1330
Mercury	4
Nickel	41.5
Zinc	416
Benzo(a)anthracene	11300
Benzo(a)pyrene	8190
Benzo(b)fluoranthene	11500
Benzo(k)fluoranthene	2580
Chrysene	10800
Dibenzo(a,h)anthracene	2260
Indeno(1,2,3-cd)pyrene	5730

Sample SW-5 (3-3.5)	Result
JA90552-6	
Aroclor 1260	128
Barium	511
Copper	81.7
Lead	212
Mercury	0.87
Zinc	456
Benzo(a)anthracene	8610
Benzo(a)pyrene	7030
Benzo(b)fluoranthene	6930
Benzo(k)fluoranthene	5230
Chrysene	8600
Dibenzo(a,h)anthracene	1960
Indeno(1,2,3-cd)pyrene	4280

Sample SW-6 (3-3.5)	Result
JA90552-12	
Lead	162
Mercury	1.1
Zinc	205
Benzo(a)anthracene	39300
Benzo(a)pyrene	34700
Benzo(b)fluoranthene	39300
Benzo(k)fluoranthene	21500
Chrysene	42200
Dibenzo(a,h)anthracene	10800
Fluoranthene	104000
Indeno(1,2,3-cd)pyrene	18700

Sample SW-7 (3-3.5)	Result
JA90552-13	
Copper	81.9
Lead	202
Mercury	9
Zinc	387
Benzo(a)anthracene	6990
Benzo(a)pyrene	6190
Benzo(b)fluoranthene	6280
Benzo(k)fluoranthene	2140
Chrysene	6850
Dibenzo(a,h)anthracene	1790
Indeno(1,2,3-cd)pyrene	3320

Sample SW-24	Result
JA89559-7	
Copper	70.4
Lead	152
Mercury	0.55
Zinc	232
Benzo(a)anthracene	25200
Benzo(a)pyrene	21000
Benzo(b)fluoranthene	18400
Benzo(k)fluoranthene	14200
Chrysene	22500
Dibenzo(a,h)anthracene	3560
Indeno(1,2,3-cd)pyrene	11900

Sample SW-23	Result
JA89559-8	
Aroclor 1254	227
Aroclor 1260	261
Copper	72.2
Lead	153
Mercury	0.65
Zinc	206
Benzo(a)anthracene	7310
Benzo(a)pyrene	7240
Benzo(b)fluoranthene	6410
Benzo(k)fluoranthene	5030
Chrysene	6890
Dibenzo(a,h)anthracene	1770
Indeno(1,2,3-cd)pyrene	4340

Sample SW-22 (3-3.5)	Result
JA90802-3	
Aroclor 1260	271
Copper	107
Lead	160
Mercury	0.41
Nickel	33.7
Zinc	242
Benzo(a)anthracene	12800
Benzo(a)pyrene	13200
Benzo(b)fluoranthene	11600
Benzo(k)fluoranthene	8430
Chrysene	12600
Dibenzo(a,h)anthracene	2370
Indeno(1,2,3-cd)pyrene	7680

Sample SW-21 (3-3.5)	Result
JA90802-4	
Copper	53
Lead	143
Mercury	0.43
Zinc	208
Benzo(a)anthracene	3210
Benzo(a)pyrene	3300
Benzo(b)fluoranthene	3070
Benzo(k)fluoranthene	2060
Chrysene	2910
Dibenzo(a,h)anthracene	876
Indeno(1,2,3-cd)pyrene	1680

Sample SW-20 (4-4.5)	Result
JA92397-5	
Aroclor 1260	354
Copper	72.5
Lead	186
Mercury	0.8
Zinc	213
Benzo(a)anthracene	3990
Benzo(a)pyrene	3770
Benzo(b)fluoranthene	3920
Benzo(k)fluoranthene	2400
Chrysene	3680
Dibenzo(a,h)anthracene	1240
Indeno(1,2,3-cd)pyrene	2410

Sample SW-19 (4-4.5)	Result
JA92397-4	
Lead	132
Mercury	1
Zinc	148
Benzo(a)anthracene	3810
Benzo(a)pyrene	3500
Benzo(b)fluoranthene	4060
Benzo(k)fluoranthene	1950
Chrysene	3460
Dibenzo(a,h)anthracene	1260
Indeno(1,2,3-cd)pyrene	2490

Sample SW-18 (4-4.5)	Result
JA92397-3	
Lead	74.7

Sample SW-15 (0-0.5)	Result
Parameter	
4,4'-DDT	7.8
Lead	105
Mercury	0.24
Zinc	196
Benzo(a)anthracene	1110
Benzo(a)pyrene	1010
Benzo(b)fluoranthene	1160
Chrysene	1040
Indeno(1,2,3-cd)pyrene	698

Sample SW-15 (1.5-2)	Result
JA92694-4	
Zinc	267
Indeno(1,2,3-cd)pyrene	518

Sample SW-8 (3-3.5)	Result
JA90802-1	
Lead	145
Mercury	1.4
Zinc	220
Benzo(a)anthracene	7160
Benzo(a)pyrene	7180
Benzo(b)fluoranthene	7710
Benzo(k)fluoranthene	3100
Chrysene	7470
Dibenzo(a,h)anthracene	1770
Indeno(1,2,3-cd)pyrene	3780

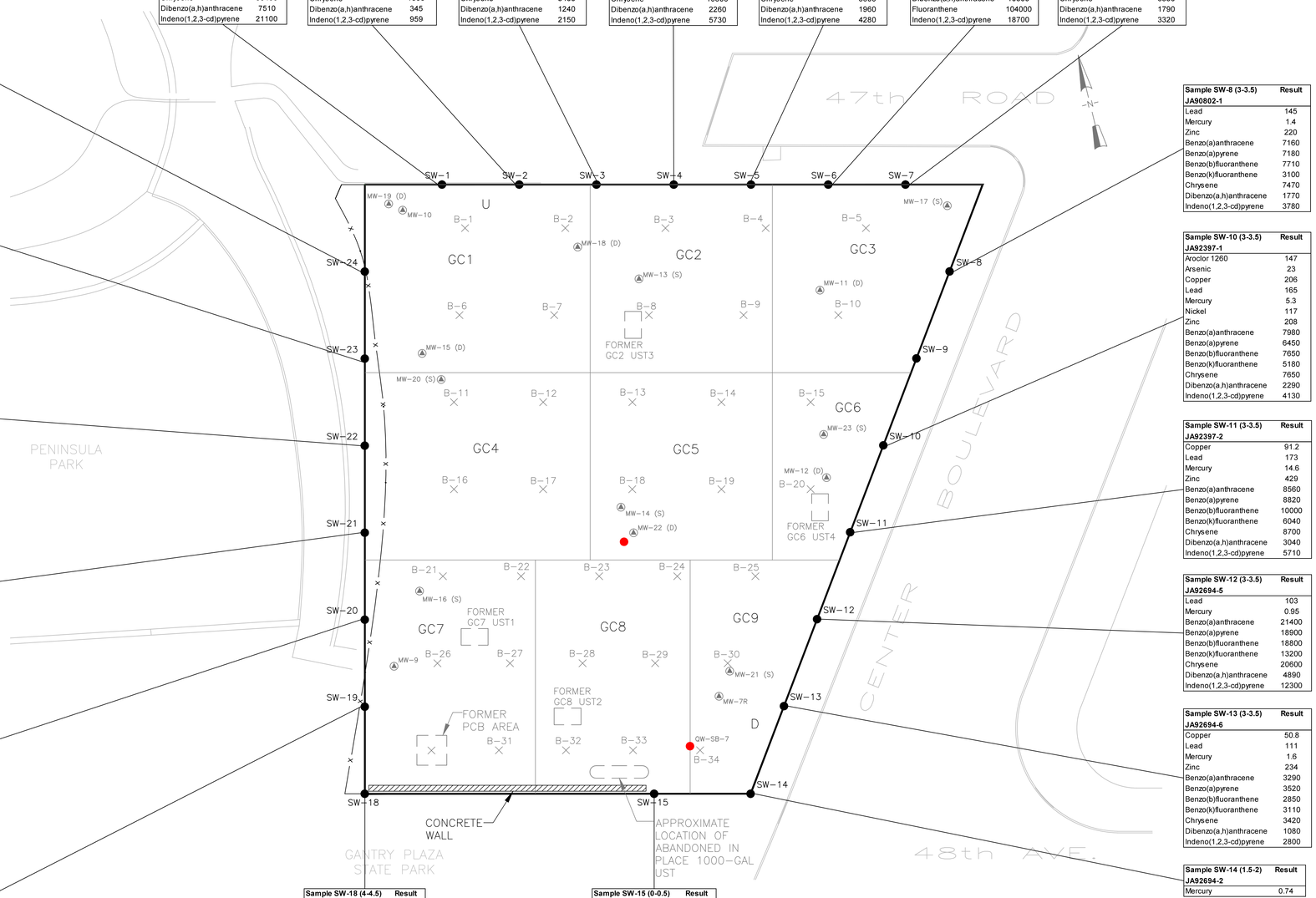
Sample SW-10 (3-3.5)	Result
JA92397-1	
Aroclor 1260	147
Arsenic	23
Copper	206
Lead	165
Mercury	5.3
Nickel	117
Zinc	208
Benzo(a)anthracene	7980
Benzo(a)pyrene	6450
Benzo(b)fluoranthene	7650
Benzo(k)fluoranthene	5180
Chrysene	7650
Dibenzo(a,h)anthracene	2290
Indeno(1,2,3-cd)pyrene	4130

Sample SW-11 (3-3.5)	Result
JA92397-2	
Copper	91.2
Lead	173
Mercury	14.6
Zinc	429
Benzo(a)anthracene	8560
Benzo(a)pyrene	8820
Benzo(b)fluoranthene	10000
Benzo(k)fluoranthene	6040
Chrysene	8700
Dibenzo(a,h)anthracene	3040
Indeno(1,2,3-cd)pyrene	5710

Sample SW-12 (3-3.5)	Result
JA92694-5	
Lead	103
Mercury	0.95
Benzo(a)anthracene	21400
Benzo(a)pyrene	18900
Benzo(b)fluoranthene	18800
Benzo(k)fluoranthene	13200
Chrysene	20600
Dibenzo(a,h)anthracene	4890
Indeno(1,2,3-cd)pyrene	12300

Sample SW-13 (3-3.5)	Result
JA92694-6	
Copper	50.8
Lead	111
Mercury	1.6
Zinc	234
Benzo(a)anthracene	3290
Benzo(a)pyrene	3520
Benzo(b)fluoranthene	2850
Benzo(k)fluoranthene	3110
Chrysene	3420
Dibenzo(a,h)anthracene	1080
Indeno(1,2,3-cd)pyrene	2800

Sample SW-14 (1.5-2)	Result
JA92694-2	
Mercury	0.74



NOTE: POST EXCAVATION SOILS ABOVE UN-RESTRICTED SOIL CLEANUP OBJECTIVES (SEE TABLE BELOW FOR LIMITS)

Parameter	Un-Restricted SCO	Units
Aroclor 1254	100	ug/kg
Aroclor 1260	100	ug/kg
Arsenic	13	mg/kg
Barium	350	mg/kg
Benzo(a)anthracene	1000	ug/kg
Benzo(a)pyrene	1000	ug/kg
Benzo(b)fluoranthene	1000	ug/kg
Benzo(k)fluoranthene	800	ug/kg
Chrysene	1000	ug/kg
Copper	50	mg/kg
Dibenzo(a,h)anthracene	330	ug/kg
Indeno(1,2,3-cd)pyrene	500	ug/kg
Lead	63	mg/kg
Mercury	0.18	mg/kg
Nickel	30	mg/kg
Zinc	109	mg/kg

Material Above Commercial SCOs to Remain in Place

Parameter	Conc. (mg/kg)	Depth (ft bgs)	Location
Arsenic	19.5	7 - 9	QW-SB-7
Arsenic	24	12 - 13	MW-22 (SB-28)

0 20' 40'

SCALE: 1"=20'-0"

Fleming Lee-Shue

Environmental Management & Consulting

158 West 29th Street, 9th Fl
New York, NY 10001

Queens West Development Parcel 8
BCP Site No. C241087

FIGURE 9-C

EXCEEDANCES OF UN-RESTRICTED SOIL CLEANUP OBJECTIVES (SCOs) SIDE WALL ENDPOINT SAMPLES

Date
December 2011

Project Number
10011-019-4

LEGEND

- PARCEL 8 SITE BOUNDARY
- MONITORING WELL
- SW-x SIDEWALL END POINT SAMPLE
- FENCELINE
- B-x BOTTOM END POINT SAMPLE
- U/D CAMP MONITORING LOCATION (UPGRADIENT/ DOWNGRADIENT)

FILE: P:\Project Files\10011 - Sive Paget & Riesel\V07-1 - Avalon BCP Parcel 8\VER\Figures\Fig 9-C - Side Samples.dwg DATE: 12/9/2011

NOTES:

1. FOUNDATION REMAINS AND ELEVATION SHOTS WERE TAKEN FROM "TOPOGRAPHIC SURVEY" PREPARED BY CONTROL POINT ASSOCIATES INC. DATED 12/13/2011.
2. LOCATIONS OF FOUNDATION REMAINS SHOWN HEREON PER FIELD VISITS COMPLETED ON 11/17/2011, AND 12/5/2011. PER FIELD VISIT ON 12/9/2011, NO FOUNDATION REMAINS WERE VISIBLE AT THE TIME THE FIELD SURVEY WAS PERFORMED.

Fleming Lee-Shue

Environmental Management & Consulting

158 West 29th Street, 9th Fl
New York, NY 10001

Queens West Development
Parcel 8
BCP Site No. C241087

FIGURE 10

LOCATION OF RELICT STRUCTURES

Date
December 2011

Project Number
10011-019-4

LEGEND

- PARCEL 8 SITE BOUNDARY
- GC# REMEDIAL EXCAVATION GRID CELL
- + 6.93 ELEVATION GRADE SHOT

FILE: P:\Project Files\10011 - Stve Paget & Riesel\007-1 - Avalon BCP Parcel 8\FER\Figures\FIG 10 - Foundation Locations.dwg DATE: 12/21/2011

Tables

Some tables are embedded in the text

Table 1 – Parcel 8 Soil Cleanup Objectives
Queens West Parcel 8
47th Road, Long Island City, NY
BCP Site No. C241087

Remediation Unit/Item	Soil Cleanup Objective	Comment
Soils – 0 to 4 ft-bg	Part 375 Commercial Use SCOs for metals and PCBs for the bottom and sidewall endpoint samples for documentation purposes only	Arsenic, lead, copper, mercury, barium, and PCBs exceed Commercial Use SCOs in some locations.
Hot Spot Areas: 4 to 5+ ft-bg	Part 375 Commercial Use SCOs for metals responsible for Hot Spot and PCBs	
Grossly Contaminated Soils	Excavated to water table, 8 – 10 ft-bg	Gross contamination meets one or both of the following criteria: 1) free product observed, 2) dissolved concentrations in groundwater exceed TOGS standards.
Soils from 4 ft-bg to water table (8 - 10 ft-bg)	Leave in place – no action	No VOCs above Commercial Use SCOs in this interval. Isolated metals above SCOs. Almost exclusively SVOCs above SCOs.
Soils - water table to 22 ft-bg	Ninety percent (90%) reduction in organic contaminant mass	This interval contains approximately 67 percent of the total Site organic contamination.

Table 4
Queens West, Parcel 8
Post-Treatment Soils Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	GC12-2 (12.5-13) JA84761-1 8/25/2011			GC12-2 (14-14.5) JA84761-2 8/25/2011			GC12-2 (19.5-20) JA84761-3 8/25/2011			GC12-2 (21.5-22) JA84761-4 8/25/2011			GC13-2 (10-10.5) JA84761-5 8/25/2011			GC13-2 (11-11.5) JA84761-6 8/25/2011			GC13-2 (13-13.5) JA84761-7 8/25/2011			GC13-2 (21.5-22) JA84761-8 8/25/2011			GC14-2 (14.5-15) JA84761-9 8/25/2011			GC14-2 (16-16.5) JA84761-10 8/25/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Acetone	50	500000	8.7	U	1	450	U	1	5100	U	1	37.4		1	460	U	1	47.0		1	9.2	U	1	43.8		1	510	U	1	470	U	1
Benzene	60	44000	5.4		1	9.0	U	1	594	J	1	4.1		1	9.2	U	1	0.32	U	1	0.18	U	1	20.1		1	10	U	1	9.5	U	1
Bromochloromethane	NS	NS	0.68	U	1	35	U	1	400	U	1	0.68	U	1	36	U	1	1.3	U	1	0.72	U	1	0.73	U	1	40	U	1	37	U	1
Bromodichloromethane	NS	NS	0.29	U	1	15	U	1	170	U	1	0.29	U	1	16	U	1	0.54	U	1	0.31	U	1	0.31	U	1	17	U	1	16	U	1
Bromoform	NS	NS	0.99	U	1	51	U	1	580	U	1	0.99	U	1	52	U	1	1.8	U	1	1.0	U	1	1.1	U	1	58	U	1	54	U	1
Bromomethane	NS	NS	0.52	U	1	27	U	1	300	U	1	0.52	U	1	27	U	1	0.96	U	1	0.55	U	1	0.55	U	1	30	U	1	28	U	1
2-Butanone (MEK)	120	500000	5.7	U	1	290	U	1	3300	U	1	5.7	U	1	300	U	1	10	U	1	6.0	U	1	6.1	U	1	330	U	1	310	U	1
Carbon disulfide	NS	NS	0.26	U	1	13	U	1	150	U	1	0.75	J	1	14	U	1	6.3	J	1	2.5	J	1	3.6	J	1	15	U	1	14	U	1
Carbon tetrachloride	760	22000	0.45	U	1	23	U	1	260	U	1	0.45	U	1	24	U	1	0.84	U	1	0.48	U	1	0.49	U	1	27	U	1	25	U	1
Chlorobenzene	1100	500000	0.42	U	1	22	U	1	250	U	1	0.42	U	1	22	U	1	0.78	U	1	0.45	U	1	0.45	U	1	25	U	1	23	U	1
Chloroethane	NS	NS	0.53	U	1	28	U	1	310	U	1	0.53	U	1	28	U	1	0.99	U	1	0.57	U	1	0.57	U	1	31	U	1	29	U	1
Chloroform	370	350000	0.63	U	1	33	U	1	370	U	1	0.63	U	1	34	U	1	1.2	U	1	0.67	U	1	0.68	U	1	37	U	1	34	U	1
Chloromethane	NS	NS	0.82	U	1	42	U	1	480	U	1	0.82	U	1	43	U	1	1.5	U	1	0.87	U	1	0.88	U	1	48	U	1	44	U	1
Cyclohexane	NS	NS	0.50	U	1	26	U	1	290	U	1	0.50	U	1	26	U	1	0.92	U	1	0.53	U	1	0.53	U	1	29	U	1	27	U	1
1,2-Dibromo-3-chloropropane	NS	NS	2.0	U	1	100	U	1	1200	U	1	2.0	U	1	100	U	1	3.7	U	1	2.1	U	1	2.1	U	1	120	U	1	110	U	1
Dibromochloromethane	NS	NS	0.22	U	1	11	U	1	130	U	1	0.22	U	1	12	U	1	0.41	U	1	0.23	U	1	0.24	U	1	13	U	1	12	U	1
1,2-Dibromoethane	NS	NS	0.31	U	1	16	U	1	180	U	1	0.31	U	1	17	U	1	0.58	U	1	0.33	U	1	0.33	U	1	18	U	1	17	U	1
1,2-Dichlorobenzene	1100	500000	0.36	U	1	19	U	1	210	U	1	0.36	U	1	19	U	1	0.67	U	1	0.38	U	1	0.39	U	1	21	U	1	20	U	1
1,3-Dichlorobenzene	2400	280000	0.25	U	1	13	U	1	150	U	1	0.25	U	1	13	U	1	0.47	U	1	0.27	U	1	0.27	U	1	15	U	1	14	U	1
1,4-Dichlorobenzene	1800	130000	0.22	U	1	12	U	1	130	U	1	0.22	U	1	12	U	1	0.41	U	1	0.24	U	1	0.24	U	1	13	U	1	12	U	1
Dichlorodifluoromethane	NS	NS	0.42	U	1	22	U	1	250	U	1	0.42	U	1	22	U	1	0.78	U	1	0.45	U	1	0.45	U	1	25	U	1	23	U	1
1,1-Dichloroethane	270	240000	0.29	U	1	15	U	1	170	U	1	0.29	U	1	15	U	1	0.53	U	1	0.30	U	1	0.31	U	1	17	U	1	16	U	1
1,2-Dichloroethane	20	30000	0.24	U	1	12	U	1	140	U	1	0.24	U	1	13	U	1	0.44	U	1	0.25	U	1	0.26	U	1	14	U	1	13	U	1
1,1-Dichloroethene	330	500000	0.80	U	1	42	U	1	470	U	1	0.80	U	1	43	U	1	1.5	U	1	0.85	U	1	0.86	U	1	47	U	1	44	U	1
cis-1,2-Dichloroethene	250	500000	0.42	U	1	22	U	1	250	U	1	0.42	U	1	22	U	1	0.78	U	1	0.45	U	1	0.45	U	1	25	U	1	23	U	1
trans-1,2-Dichloroethene	190	500000	0.56	U	1	29	U	1	320	U	1	0.56	U	1	29	U	1	1.0	U	1	0.59	U	1	0.59	U	1	33	U	1	30	U	1
1,2-Dichloropropane	NS	NS	0.35	U	1	18	U	1	200	U	1	0.35	U	1	18	U	1	0.64	U	1	0.37	U	1	0.37	U	1	20	U	1	19	U	1
cis-1,3-Dichloropropene	NS	NS	0.20	U	1	10	U	1	120	U	1	0.20	U	1	11	U	1	0.37	U	1	0.21	U	1	0.21	U	1	12	U	1	11	U	1
trans-1,3-Dichloropropene	NS	NS	0.44	U	1	23	U	1	260	U	1	0.44	U	1	23	U	1	0.81	U	1	0.47	U	1	0.47	U	1	26	U	1	24	U	1
1,4-Dioxane	100	130000	76	U	1	4000	U	1	44000	U	1	76	U	1	4000	U	1	140	U	1	81	U	1	82	U	1	4500	U	1	4100	U	1
Ethylbenzene	1000	390000	1.5		1	100		1	46600		1	3.2		1	10	U	1	0.36	U	1	0.21	U	1	50.1		1	169		1	88.2		1
Freon 113	NS	NS	0.94	U	1	49	U	1	550	U	1	0.94	U	1	50	U	1	1.7	U	1	1.0	U	1	1.0	U	1	55	U	1	51	U	1
2-Hexanone	NS	NS	3.2	U	1	170	U	1	1900	U	1	3.2	U	1	170	U	1	6.0	U	1	3.4	U	1	3.5	U	1	190	U	1	180	U	1
Isopropylbenzene	NS	NS	0.26	J	1	95.6	J	1	16000		1	0.70	J	1	9.5	U	1	0.33	U	1	0.19	U	1	11.8		1	1010		1	543		1
Methyl Acetate	NS	NS	2.9	U	1	150	U	1	1700	U	1	2.9	U	1	150	U	1	5.4	U	1	3.1	U	1	3.1	U	1	170	U	1	160	U	1
Methylcyclohexane	NS	NS	0.32	U	1	17	U	1	190	U	1	0.32	U	1	17	U	1	0.59	U	1	0.34	U	1	3.3	J	1	77.8	J	1	41.8	J	1
Methyl Tert Butyl Ether	930	500000	0.23	U	1	12	U	1	140	U	1	0.23	U	1	12	U	1	0.43	U	1	0.25	U	1	0.25	U	1	14	U	1	13	U	1
4-Methyl-2-pentanone(MIBK)	NS	NS	3.4	U	1	180	U	1	2000	U	1	3.4	U	1	180	U	1	6.4	U	1	3.7	U	1	3.7	U	1	200	U	1	190	U	1
Methylene chloride	50	500000	0.30	U	1	16	U	1	32900		1	0.30	U	1	16	U	1	11.3	J	1	0.32	U	1	4.3	J	1	18	U	1	16	U	1
Styrene	NS	NS	0.24	U	1	13	U	1	140	U	1	0.24	U	1	13	U	1	0.45	U	1	0.26	U	1	0.26	U	1	14	U	1	13	U	1
1,1,2,2-Tetrachloroethane	NS	NS	0.23	U	1	12	U	1	140	U	1	0.23	U	1	12	U	1	0.43	U	1	0.25	U	1	0.25	U	1	14	U	1	13	U	1
Tetrachloroethene	1300	150000	0.25	U	1	13	U	1	150	U	1	0.25	U	1	13	U	1	0.46	U	1	0.27	U	1	0.27	U	1	15	U	1	14	U	1
Toluene	700	500000	9.1		1	26	U	1	1020		1	0.50	U	1	26	U	1	0.92	U	1	0.53	U	1	0.91	J	1	29	U	1	27	U	1
1,2,3-Trichlorobenzene	NS	NS	0.57	U	1	30	U	1	330	U	1	0.57	U	1	30	U	1	1.1	U	1	0.61	U	1	0.61	U	1	34	U	1	31	U	1
1,2,4-Trichlorobenzene	NS	NS	0.45	U	1	23	U	1	260	U	1	0.45	U	1	24	U	1	0.83	U	1	0.47	U	1	0.48	U	1	26	U	1	24	U	1
1,1,1-Trichloroethane	680	500000	0.32	U	1	16	U	1	180	U	1	0.32	U	1	17	U	1	0.58	U	1	0.33	U	1	0.34	U	1	19	U	1	17	U	1
1,1,2-Trichloroethane	NS	NS	0.57	U	1	29	U	1	330	U	1	0.57	U	1	30	U	1	1.0	U	1	0.60	U	1	0.61	U	1	33	U	1	31	U	1
Trichloroethene	470	200000	0.32	U	1	17	U	1	190	U	1	0.32	U	1	17	U	1	0.60	U	1	0.34	U	1	0.35	U	1	19	U	1	18	U	1
Trichlorofluoromethane	NS	NS	0.63	U	1	33	U	1	370	U	1	0.63	U	1	33	U	1	1.2	U	1	0.67	U	1	0.68	U	1	37	U	1	34	U	1
Vinyl chloride	20	13000	0.60	U	1	31	U	1	350	U	1	0.60	U	1	32	U	1	1.1	U	1	0.64	U	1	0.65	U	1	35	U	1	33	U	1
m,p-Xylene	260	500000	14.9		1	46.8	J	1	47600		1	1.5		1	22	U	1	0.76	U	1	0.44	U	1	31.7		1	52.8	J	1	58.3	J	1
o-Xylene	260	500000	9.1		1	43.7	J	1	38300		1	1.1	J	1	13	U	1	0.45	U	1	0.26	U	1	16.5		1	101		1	53.6	J	1
Xylene (total)	260	500000	24.0		1	90.4		1	85900		1	2.6		1	13	U	1	0.45	U	1	0.26	U	1	48.2		1	154		1	112		1

Table 4
Queens West, Parcel 8
Post-Treatment Soils Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	GC12-2 (12.5-13) JA84761-1 8/25/2011			GC12-2 (14-14.5) JA84761-2 8/25/2011			GC12-2 (19.5-20) JA84761-3 8/25/2011			GC12-2 (21.5-22) JA84761-4 8/25/2011			GC13-2 (10-10.5) JA84761-5 8/25/2011			GC13-2 (11-11.5) JA84761-6 8/25/2011			GC13-2 (13-13.5) JA84761-7 8/25/2011			GC13-2 (21.5-22) JA84761-8 8/25/2011			GC14-2 (14.5-15) JA84761-9 8/25/2011			GC14-2 (16-16.5) JA84761-10 8/25/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
GC/MS Semi-volatiles (ug/kg)																															
2-Chlorophenol	NS	NS	61	U	1	61	U	1	64	U	1	61	U	1	61	U	1	61	U	1	62	U	1	64	U	1	63	U	1	62	U	1
4-Chloro-3-methyl phenol	NS	NS	60	U	1	60	U	1	63	U	1	60	U	1	60	U	1	61	U	1	61	U	1	63	U	1	62	U	1	61	U	1
2,4-Dichlorophenol	NS	NS	97	U	1	97	U	1	100	U	1	97	U	1	97	U	1	98	U	1	98	U	1	100	U	1	100	U	1	98	U	1
2,4-Dimethylphenol	NS	NS	100	U	1	100	U	1	159	J	1	638		1	100	U	1	100	U	1	100	U	1	110	U	1	100	U	1	100	U	1
2,4-Dinitrophenol	NS	NS	73	U	1	74	U	1	77	U	1	73	U	1	73	U	1	74	U	1	75	U	1	77	U	1	76	U	1	74	U	1
4,6-Dinitro-o-cresol	NS	NS	73	U	1	74	U	1	77	U	1	73	U	1	73	U	1	74	U	1	75	U	1	77	U	1	76	U	1	74	U	1
2-Methylphenol	330	500000	69	U	1	69	U	1	72	U	1	209		1	68	U	1	69	U	1	70	U	1	72	U	1	71	U	1	69	U	1
3&4-Methylphenol	NS	NS	77	U	1	77	U	1	80	U	1	427		1	76	U	1	77	U	1	78	U	1	80	U	1	79	U	1	77	U	1
2-Nitrophenol	NS	NS	64	U	1	64	U	1	67	U	1	64	U	1	64	U	1	64	U	1	65	U	1	67	U	1	66	U	1	65	U	1
4-Nitrophenol	NS	NS	100	U	1	100	U	1	110	U	1	100	U	1	100	U	1	100	U	1	100	U	1	110	U	1	110	U	1	100	U	1
Pentachlorophenol	800	6700	100	U	1	100	U	1	110	U	1	100	U	1	100	U	1	100	U	1	100	U	1	110	U	1	110	U	1	100	U	1
Phenol	330	500000	63	U	1	63	U	1	66	U	1	63	U	1	63	U	1	64	U	1	64	U	1	66	U	1	66	U	1	64	U	1
2,3,4,6-Tetrachlorophenol	NS	NS	62	U	1	62	U	1	65	U	1	62	U	1	62	U	1	62	U	1	63	U	1	65	U	1	64	U	1	63	U	1
2,4,5-Trichlorophenol	NS	NS	70	U	1	70	U	1	73	U	1	70	U	1	70	U	1	70	U	1	71	U	1	73	U	1	72	U	1	71	U	1
2,4,6-Trichlorophenol	NS	NS	57	U	1	57	U	1	59	U	1	57	U	1	56	U	1	57	U	1	57	U	1	59	U	1	59	U	1	57	U	1
Acenaphthene	20000	500000	593		1	1260		1	10000		20	3410		1	429		1	798		1	424		1	7330		20	59300		20	18200		20
Acenaphthylene	100000	500000	402		1	158		1	817		1	2740		1	186		1	19	U	1	20	U	1	148		1	330		1	227		1
Acetophenone	NS	NS	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1
Anthracene	100000	500000	941		1	798		1	4040		1	6810		10	319		1	33.0	J	1	21	U	1	8380		20	36700		20	10900		20
Atrazine	NS	NS	12	U	1	12	U	1	12	U	1	12	U	1	12	U	1	12	U	1	12	U	1	12	U	1	12	U	1	12	U	1
Benzo(a)anthracene	1000	5600	2400		1	613		1	2990		1	11300		10	1040		1	32.6	J	1	20	U	1	12100		20	4460		1	1680		1
Benzo(a)pyrene	1000	1000	2080		1	434		1	2330		1	9380		10	1200		1	35.3	J	1	19	U	1	8390		20	1570		1	774		1
Benzo(b)fluoranthene	1000	5600	2070		1	490		1	2520		1	8450		10	1020		1	41.4	J	1	20	U	1	6480		20	1720		1	711		1
Benzo(g,h,i)perylene	100000	500000	1130		1	265		1	1230		1	5420		1	841		1	23	U	1	23	U	1	4810		1	568		1	380		1
Benzo(k)fluoranthene	800	56000	1020		1	262		1	1120		1	4680		1	996		1	29.0	J	1	23	U	1	4100		1	943		1	566		1
4-Bromophenyl phenyl ether	NS	NS	22	U	1	22	U	1	23	U	1	22	U	1	22	U	1	22	U	1	22	U	1	23	U	1	23	U	1	22	U	1
Butyl benzyl phthalate	NS	NS	35	U	1	35	U	1	36	U	1	35	U	1	35	U	1	35	U	1	35	U	1	37	U	1	36	U	1	35	U	1
1,1'-Biphenyl	NS	NS	71.2	J	1	148		1	4310		1	954		1	7.0	U	1	7.0	U	1	7.1	U	1	929		1	814		1	4090		1
Benzaldehyde	NS	NS	14	U	1	14	U	1	14	U	1	14	U	1	14	U	1	14	U	1	14	U	1	15	U	1	14	U	1	14	U	1
2-Chloronaphthalene	NS	NS	19	U	1	19	U	1	19	U	1	19	U	1	19	U	1	19	U	1	19	U	1	20	U	1	19	U	1	19	U	1
4-Chloroaniline	NS	NS	19	U	1	19	U	1	20	U	1	19	U	1	19	U	1	19	U	1	20	U	1	20	U	1	20	U	1	19	U	1
Carbazole	NS	NS	193		1	625		1	640		1	1940		1	42.0	J	1	28	U	1	28	U	1	3150		1	5060		1	2840		1
Caprolactam	NS	NS	19	U	1	19	U	1	20	U	1	19	U	1	19	U	1	19	U	1	19	U	1	20	U	1	20	U	1	19	U	1
Chrysene	1000	56000	2270		1	577		1	2550		1	10600		10	1040		1	33.0	J	1	21	U	1	12000		20	4000		1	1490		1
bis(2-Chloroethoxy)methane	NS	NS	24	U	1	24	U	1	25	U	1	24	U	1	24	U	1	24	U	1	25	U	1	26	U	1	25	U	1	25	U	1
bis(2-Chloroethyl)ether	NS	NS	18	U	1	18	U	1	19	U	1	18	U	1	18	U	1	18	U	1	18	U	1	19	U	1	19	U	1	18	U	1
bis(2-Chloroisopropyl)ether	NS	NS	18	U	1	18	U	1	19	U	1	18	U	1	18	U	1	18	U	1	18	U	1	19	U	1	19	U	1	18	U	1
4-Chlorophenyl phenyl ether	NS	NS	18	U	1	18	U	1	19	U	1	18	U	1	18	U	1	18	U	1	18	U	1	19	U	1	19	U	1	18	U	1
2,4-Dinitrotoluene	NS	NS	26	U	1	26	U	1	27	U	1	26	U	1	26	U	1	26	U	1	27	U	1	28	U	1	27	U	1	27	U	1
2,6-Dinitrotoluene	NS	NS	23	U	1	23	U	1	24	U	1	23	U	1	23	U	1	23	U	1	23	U	1	24	U	1	24	U	1	23	U	1
3,3'-Dichlorobenzidine	NS	NS	15	U	1	15	U	1	16	U	1	15	U	1	15	U	1	15	U	1	16	U	1	16	U	1	16	U	1	15	U	1
Dibenzo(a,h)anthracene	330	560	473		1	62.5		1	429		1	3150		1	334		1	21	U	1	21	U	1	2770		1	234		1	166		1
Dibenzofuran	7000	350000	367		1	1080		1	8670		20	3660		1	69.4	J	1	18	U	1	18	U	1	5180		1	53600		20	15000		20
Di-n-butyl phthalate	NS	NS	13	U	1	13	U	1	14	U	1	13	U	1	13	U	1	13	U	1	14	U	1	14	U	1	14	U	1	14	U	1
Di-n-octyl phthalate	NS	NS	29	U	1	29	U	1	31	U	1	29	U	1	29	U	1	30	U	1	30	U	1	31	U	1	30	U	1	30	U	1
Diethyl phthalate	NS	NS	21	U	1	21	U	1	21	U	1	21	U	1	20	U	1	21	U	1	21	U	1	22	U	1	21	U	1	21	U	1
Dimethyl phthalate	NS	NS	87.2	J	1	21	U	1	22	U	1	21	U	1	21	U	1	56.2	J	1	22	U	1	87.8	J	1	22	U	1	21	U	1
bis(2-Ethylhexyl)phthalate	NS	NS	53	U	1	53	U	1	56	U	1	53	U	1	53	U	1	54	U	1	54	U	1	150		1	55	U	1	54	U	1
Fluoranthene	100000	500000	3760		1	2010		1	8880		20	22500		10	3130		1	71.8		1	27	U	1	31900		20	22500		20	9290		20
Fluorene	30000	500000	507		1	1020		1	7030		20	5050		1	229		1	371		1	64.6		1	5930		1	54700		20	17400		20
Hexachlorobenzene	330	330	20	U	1	20	U	1	21	U	1	20	U	1	20	U	1	20	U	1	20	U	1	21	U	1	20	U	1	20	U	1
Hexachlorobutadiene	NS	NS	17	U	1	17	U	1	17	U	1	17	U	1	17	U	1	17	U	1	17	U	1	18	U	1	17	U	1	17	U	1
Hexachlorocyclopentadiene	NS	NS	61	U	1	62	U	1	64	U	1	61	U	1	61	U	1	62	U	1	62	U	1	64	U	1	64	U	1	62	U	1
Hexachloroethane	NS	NS	17	U	1	17	U	1	17	U	1	17	U	1	17	U	1	17	U	1	17	U	1	18	U	1	17	U	1	17	U	1
Indeno(1,2,3-cd)pyrene	500	5600	1060		1	240		1	1140		1	5120		1	733		1	21	U	1	21	U	1	4660		1	598		1	351		1
Isophorone	NS	NS	16	U	1	16	U	1	17	U	1	16	U	1	16	U	1	16	U	1	16	U	1	17	U	1	17	U	1	16	U	1
2-Methylnaphthalene	NS	NS	138		1	152		1	18400		20	2610		1	45.6	J	1	34	U	1	34	U	1	1850		1	35	U	1	608		1
2-Nitroaniline	NS	NS	27	U	1	27	U	1	28	U	1	27	U	1	26	U	1	27	U	1	27	U	1	28	U	1	27	U	1	27	U	1
3-Nitroaniline	NS	NS	24	U	1	24	U	1	25	U	1	24	U	1	24	U	1	24	U	1	24	U	1	25	U	1	25	U	1	24	U	1
4-Nitroaniline	NS	NS	23	U	1	24	U	1	25	U	1	23	U	1	23	U	1	24	U	1	24	U	1	25	U	1	24	U	1	24	U	1
Naphthalene	12000	500000	330		1	643		1	74700		20	6820		10	184		1	51.2	J	1	243		1	4160		1	1240		1	2380		1
Nitrobenzene	NS	NS	17	U	1	17	U	1	18	U	1	17	U	1	17	U	1	18	U	1	18	U	1	18	U	1	18	U	1	18	U	1
N-Nitroso-di-n-propylamine	NS	NS	15	U	1	15	U	1	15	U	1	15	U	1	15	U	1	15	U	1	15	U	1	15	U	1	15	U	1	15	U	1
N-Nitrosodiphenylamine	NS	NS	36	U	1	36	U	1	38	U	1	36	U	1	36	U	1	36	U	1	36	U	1	38	U	1	37	U	1	36	U	1
Phenanthrene	100000	500000	2240		1	3180		1	18200		20	21100		10	181		1	28	U	1	28	U	1	44000		20	100000		20	34300		20
Pyrene	100000	500000	3960		1	1450		1	6460		20	19800		10	3400		1	40.8	J	1	23	U	1	25600		20	14700		20	6470		20
1,2,4,5-Tetrachlorobenzene	NS	NS	18	U	1	19	U	1	19	U	1	18	U	1	18	U	1	19	U	1	19	U	1	19	U	1	19	U	1	19	U	1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Conservation Part 375
Part 6.8 rules for unrestricted and restriced use
NS - No standard
U - Below detection limit
J - Estimated value detected above quantitative method detection limit (MDL)
& below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed
2-Methylphenol is considered a cresol. Standards taken from o-cresol.

Table 4
Queens West, Parcel 8
Post-Treatment Soils Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	GC12-2 (12.5-13) JA84761-1 8/25/2011			GC14-2 (19-19.5) JA84761-11 8/25/2011			GC14-2 (21-21.5) JA84761-12 8/25/2011			GC15-2 (12-12.5) JA84761-13 8/26/2011			GC15-2 (13.5-14) JA84761-14 8/26/2011			GC15-2 (14.5-15) JA84761-15 8/26/2011			GC15-2 (20-20.5) JA84761-16 8/26/2011			GC17-2 (13.5-14) JA84761-17 8/26/2011			GC17-2 (17-17.5) JA84761-18 8/26/2011			GC17-2 (17.5-18) JA84761-19 8/26/2011			GC17-2 (18-18.5) JA84761-20 8/26/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																		
Acetone	50	500000	8.7	U	1	2600	U	1	650	U	1	470	U	1	17.9		1	42	U	1	13000	U	1	490	U	1	13000	U	1	25000	U	1	13000	U	1
Benzene	60	44000	5.4		1	238	J	1	667		1	9.5	U	1	0.17	U	1	0.85	U	1	250	U	1	9.8	U	1	260	U	1	510	U	1	260	U	1
Bromochloromethane	NS	NS	0.68	U	1	200	U	1	51	U	1	37	U	1	0.64	U	1	3.3	U	1	990	U	1	38	U	1	1000	U	1	2000	U	1	1000	U	1
Bromodichloromethane	NS	NS	0.29	U	1	86	U	1	22	U	1	16	U	1	0.28	U	1	1.4	U	1	430	U	1	16	U	1	430	U	1	850	U	1	440	U	1
Bromoform	NS	NS	0.99	U	1	290	U	1	74	U	1	54	U	1	0.94	U	1	4.8	U	1	1400	U	1	55	U	1	1500	U	1	2900	U	1	1500	U	1
Bromomethane	NS	NS	0.52	U	1	150	U	1	38	U	1	28	U	1	0.49	U	1	2.5	U	1	750	U	1	29	U	1	760	U	1	1500	U	1	780	U	1
2-Butanone (MEK)	120	500000	5.7	U	1	1700	U	1	420	U	1	310	U	1	5.4	U	1	28	U	1	8300	U	1	320	U	1	8400	U	1	17000	U	1	8600	U	1
Carbon disulfide	NS	NS	0.26	U	1	76	U	1	19	U	1	14	U	1	0.24	U	1	24.8	J	1	370	U	1	14	U	1	380	U	1	750	U	1	390	U	1
Carbon tetrachloride	760	22000	0.45	U	1	130	U	1	34	U	1	25	U	1	0.43	U	1	2.2	U	1	660	U	1	25	U	1	670	U	1	1300	U	1	690	U	1
Chlorobenzene	1100	500000	0.42	U	1	120	U	1	31	U	1	23	U	1	0.40	U	1	2.1	U	1	610	U	1	24	U	1	620	U	1	1200	U	1	640	U	1
Chloroethane	NS	NS	0.53	U	1	160	U	1	40	U	1	29	U	1	0.51	U	1	2.6	U	1	780	U	1	30	U	1	790	U	1	1600	U	1	810	U	1
Chloroform	370	350000	0.63	U	1	190	U	1	47	U	1	34	U	1	0.60	U	1	3.1	U	1	920	U	1	35	U	1	940	U	1	1800	U	1	960	U	1
Chloromethane	NS	NS	0.82	U	1	240	U	1	61	U	1	44	U	1	0.78	U	1	4.0	U	1	1200	U	1	46	U	1	1200	U	1	2400	U	1	1200	U	1
Cyclohexane	NS	NS	0.50	U	1	150	U	1	37	U	1	27	U	1	0.47	U	1	2.4	U	1	720	U	1	28	U	1	740	U	1	1400	U	1	750	U	1
1,2-Dibromo-3-chloropropane	NS	NS	2.0	U	1	580	U	1	150	U	1	110	U	1	1.9	U	1	9.7	U	1	2900	U	1	110	U	1	2900	U	1	5800	U	1	3000	U	1
Dibromochloromethane	NS	NS	0.22	U	1	65	U	1	16	U	1	12	U	1	0.21	U	1	1.1	U	1	320	U	1	12	U	1	330	U	1	640	U	1	330	U	1
1,2-Dibromoethane	NS	NS	0.31	U	1	92	U	1	23	U	1	17	U	1	0.30	U	1	1.5	U	1	450	U	1	17	U	1	460	U	1	910	U	1	470	U	1
1,2-Dichlorobenzene	1100	500000	0.36	U	1	110	U	1	27	U	1	20	U	1	0.34	U	1	1.8	U	1	530	U	1	20	U	1	540	U	1	1100	U	1	550	U	1
1,3-Dichlorobenzene	2400	280000	0.25	U	1	74	U	1	19	U	1	14	U	1	0.24	U	1	1.2	U	1	370	U	1	14	U	1	370	U	1	730	U	1	380	U	1
1,4-Dichlorobenzene	1800	130000	0.22	U	1	66	U	1	17	U	1	12	U	1	0.21	U	1	1.1	U	1	320	U	1	12	U	1	330	U	1	650	U	1	340	U	1
Dichlorodifluoromethane	NS	NS	0.42	U	1	120	U	1	31	U	1	23	U	1	0.40	U	1	2.1	U	1	610	U	1	24	U	1	620	U	1	1200	U	1	640	U	1
1,1-Dichloroethane	270	240000	0.29	U	1	84	U	1	21	U	1	16	U	1	0.27	U	1	1.4	U	1	420	U	1	16	U	1	420	U	1	830	U	1	430	U	1
1,2-Dichloroethane	20	30000	0.24	U	1	70	U	1	18	U	1	13	U	1	0.23	U	1	1.2	U	1	350	U	1	13	U	1	350	U	1	690	U	1	360	U	1
1,1-Dichloroethene	330	500000	0.80	U	1	240	U	1	60	U	1	44	U	1	0.76	U	1	3.9	U	1	1200	U	1	45	U	1	1200	U	1	2300	U	1	1200	U	1
cis-1,2-Dichloroethene	250	500000	0.42	U	1	120	U	1	31	U	1	23	U	1	0.40	U	1	2.1	U	1	610	U	1	24	U	1	620	U	1	1200	U	1	640	U	1
trans-1,2-Dichloroethene	190	500000	0.56	U	1	160	U	1	41	U	1	30	U	1	0.53	U	1	2.7	U	1	810	U	1	31	U	1	820	U	1	1600	U	1	840	U	1
1,2-Dichloropropane	NS	NS	0.35	U	1	100	U	1	26	U	1	19	U	1	0.33	U	1	1.7	U	1	510	U	1	20	U	1	520	U	1	1000	U	1	530	U	1
cis-1,3-Dichloropropene	NS	NS	0.20	U	1	59	U	1	15	U	1	11	U	1	0.19	U	1	0.97	U	1	290	U	1	11	U	1	290	U	1	580	U	1	300	U	1
trans-1,3-Dichloropropene	NS	NS	0.44	U	1	130	U	1	33	U	1	24	U	1	0.42	U	1	2.2	U	1	640	U	1	25	U	1	650	U	1	1300	U	1	670	U	1
1,4-Dioxane	100	130000	76	U	1	22000	U	1	5700	U	1	4100	U	1	72	U	1	370	U	1	110000	U	1	4300	U	1	110000	U	1	220000	U	1	120000	U	1
Ethylbenzene	1000	390000	1.5		1	9220		1	2420		1	12.8	J	1	0.18	U	1	1.2	J	1	3230		1	461		1	18300		1	17800		1	4250		1
Freon 113	NS	NS	0.94	U	1	280	U	1	70	U	1	51	U	1	0.89	U	1	4.6	U	1	1400	U	1	53	U	1	1400	U	1	2700	U	1	1400	U	1
2-Hexanone	NS	NS	3.2	U	1	960	U	1	240	U	1	180	U	1	3.1	U	1	16	U	1	4700	U	1	180	U	1	4800	U	1	9500	U	1	4900	U	1
Isopropylbenzene	NS	NS	0.26	J	1	2730		1	250	J	1	9.8	U	1	0.17	U	1	8.3	J	1	647	J	1	486		1	16200		1	16400	J	1	6390	J	1
Methyl Acetate	NS	NS	2.9	U	1	860	U	1	220	U	1	160	U	1	2.8	U	1	14	U	1	4200	U	1	160	U	1	4300	U	1	8500	U	1	4400	U	1
Methylcyclohexane	NS	NS	0.32	U	1	342	J	1	39.8	J	1	17	U	1	0.30	U	1	1.6	U	1	470	U	1	25.0	J	1	480	U	1	930	U	1	490	U	1
Methyl Tert Butyl Ether	930	500000	0.23	U	1	69	U	1	17	U	1	13	U	1	0.22	U	1	1.1	U	1	340	U	1	13	U	1	2330		1	680	U	1	350	U	1
4-Methyl-2-pentanone(MIBK)	NS	NS	3.4	U	1	1000	U	1	260	U	1	190	U	1	3.3	U	1	17	U	1	5000	U	1	190	U	1	5100	U	1	10000	U	1	5200	U	1
Methylene chloride	50	500000	0.30	U	1	89	U	1	22	U	1	16	U	1	0.29	U	1	1.5	U	1	190000		1	17	U	1	375000		1	880	U	1	460	U	1
Styrene	NS	NS	0.24	U	1	71	U	1	18	U	1	13	U	1	0.23	U	1	1.2	U	1	350	U	1	14	U	1	360	U	1	710	U	1	370	U	1
1,1,2,2-Tetrachloroethane	NS	NS	0.23	U	1	69	U	1	17	U	1	13	U	1	0.22	U	1	1.1	U	1	340	U	1	13	U	1	350	U	1	680	U	1	350	U	1
Tetrachloroethene	1300	150000	0.25	U	1	74	U	1	19	U	1	14	U	1	0.24	U	1	1.2	U	1	360	U	1	14	U	1	370	U	1	730	U	1	380	U	1
Toluene	700	500000	9.1		1	265	J	1	246		1	27	U	1	0.47	U	1	2.4	U	1	1900		1	28	U	1	5840		1	1400	U	1	750	U	1
1,2,3-Trichlorobenzene	NS	NS	0.57	U	1	170	U	1	43	U	1	31	U	1	0.54	U	1	2.8	U	1	830	U	1	32	U	1	850	U	1	1700	U	1	870	U	1
1,2,4-Trichlorobenzene	NS	NS	0.45	U	1	130	U	1	33	U	1	24	U	1	0.42	U	1	2.2	U	1	650	U	1	25	U	1	660	U	1	1300	U	1	680	U	1
1,1,1-Trichloroethane	680	500000	0.32	U	1	93	U	1	23	U	1	17	U	1	0.30	U	1	1.5	U	1	460	U	1	18	U	1	470	U	1	920	U	1	480	U	1
1,1,2-Trichloroethane	NS	NS	0.57	U	1	170	U	1	42	U	1	31	U	1	0.54	U	1	2.8	U	1	830	U	1	32	U	1	840	U	1	1700	U	1	860	U	1
Trichloroethene	470	200000	0.32	U	1	95	U	1	24	U	1	18	U	1	0.31	U	1	1.6	U	1	470	U	1	18	U	1	480	U	1	940	U	1	490	U	1
Trichlorofluoromethane	NS	NS	0.63	U	1	190	U	1	47	U	1	34	U	1	0.60	U	1	3.1	U	1	920	U	1	35	U	1	940	U	1	1800	U	1	950	U	1
Vinyl chloride	20	13000	0.60	U	1	180	U	1	45	U	1	33	U	1	0.57	U	1	3.0	U	1	880	U	1	34	U	1	890	U	1	1800	U	1	910	U	1
m,p-Xylene	260	500000	14.9		1	29000		1	2550		1	38.1	J	1	0.39	U	1	2.7	J	1	8830		1	1350		1	48800		1	49300		1	7680		1
o-Xylene	260	500000	9.1		1	12700		1	1510		1	19.1	J	1	0.23	U	1	1.5	J	1	1160	J	1	517		1	15600		1	16900		1	2900		1
Xylene (total)	260	500000	24.0		1	41700		1	4060		1	57.2	J	1	0.23	U	1	4.1	J	1	9990		1	1870		1	64300		1	66200		1	10600		1

Table 4
Queens West, Parcel 8
Post-Treatment Soils Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	GC12-2 (12.5-13) JA84761-1 8/25/2011			GC14-2 (19-19.5) JA84761-11 8/25/2011			GC14-2 (21-21.5) JA84761-12 8/25/2011			GC15-2 (12-12.5) JA84761-13 8/26/2011			GC15-2 (13.5-14) JA84761-14 8/26/2011			GC15-2 (14.5-15) JA84761-15 8/26/2011			GC15-2 (20-20.5) JA84761-16 8/26/2011			GC17-2 (13.5-14) JA84761-17 8/26/2011			GC17-2 (17-17.5) JA84761-18 8/26/2011			GC17-2 (17.5-18) JA84761-19 8/26/2011			GC17-2 (18-18.5) JA84761-20 8/26/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																		
GC/MS Semi-volatiles (ug/kg)																																		
2-Chlorophenol	NS	NS	61	U	1	64	U	1	74	U	1	61	U	1	63	U	1	65	U	1	62	U	1	62	U	1	130	U	1	1200	U	10	1300	U	10
4-Chloro-3-methyl phenol	NS	NS	60	U	1	64	U	1	74	U	1	60	U	1	62	U	1	64	U	1	62	U	1	62	U	1	130	U	1	1200	U	10	1300	U	10
2,4-Dichlorophenol	NS	NS	97	U	1	100	U	1	120	U	1	97	U	1	100	U	1	100	U	1	99	U	1	99	U	1	200	U	1	2000	U	10	2000	U	10
2,4-Dimethylphenol	NS	NS	100	U	1	110	U	1	233	J	1	100	U	1	100	U	1	110	U	1	100	U	1	100	U	1	210	U	1	2000	U	10	2100	U	10
2,4-Dinitrophenol	NS	NS	73	U	1	78	U	1	90	U	1	74	U	1	76	U	1	78	U	1	75	U	1	75	U	1	150	U	1	1500	U	10	1600	U	10
4,6-Dinitro-o-cresol	NS	NS	73	U	1	78	U	1	90	U	1	74	U	1	76	U	1	78	U	1	75	U	1	75	U	1	150	U	1	1500	U	10	1600	U	10
2-Methylphenol	330	500000	69	U	1	73	U	1	84	U	1	69	U	1	71	U	1	73	U	1	70	U	1	70	U	1	140	U	1	1400	U	10	1500	U	10
3&4-Methylphenol	NS	NS	77	U	1	81	U	1	94	U	1	77	U	1	79	U	1	81	U	1	78	U	1	78	U	1	160	U	1	1500	U	10	1600	U	10
2-Nitrophenol	NS	NS	64	U	1	67	U	1	78	U	1	64	U	1	66	U	1	68	U	1	65	U	1	65	U	1	130	U	1	1300	U	10	1300	U	10
4-Nitrophenol	NS	NS	100	U	1	110	U	1	120	U	1	100	U	1	100	U	1	110	U	1	100	U	1	100	U	1	210	U	1	2100	U	10	2200	U	10
Pentachlorophenol	800	6700	100	U	1	110	U	1	130	U	1	100	U	1	110	U	1	110	U	1	110	U	1	110	U	1	220	U	1	2100	U	10	2200	U	10
Phenol	330	500000	63	U	1	67	U	1	77	U	1	63	U	1	65	U	1	67	U	1	65	U	1	65	U	1	130	U	1	1300	U	10	1300	U	10
2,3,4,6-Tetrachlorophenol	NS	NS	62	U	1	66	U	1	76	U	1	62	U	1	64	U	1	66	U	1	63	U	1	64	U	1	130	U	1	1300	U	10	1300	U	10
2,4,5-Trichlorophenol	NS	NS	70	U	1	74	U	1	86	U	1	70	U	1	72	U	1	74	U	1	71	U	1	72	U	1	150	U	1	1400	U	10	1500	U	10
2,4,6-Trichlorophenol	NS	NS	57	U	1	60	U	1	69	U	1	57	U	1	58	U	1	60	U	1	58	U	1	58	U	1	120	U	1	1100	U	10	1200	U	10
Acenaphthene	20000	500000	593		1	141000		100	127		1	2380		1	86.8		1	3400		1	988000		500	25100		20	193		1	244000		200	259000		100
Acenaphthylene	100000	500000	402		1	2750		1	24	U	1	200		1	20	U	1	21	U	1	20	U	1	3280		1	41	U	1	390	U	10	410	U	10
Acetophenone	NS	NS	11	U	1	11	U	1	13	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	22	U	1	210	U	10	220	U	10
Anthracene	100000	500000	941		1	65300		100	50.6	J	1	3190		1	48.5	J	1	1160		1	251000		100	17800		20	316		1	74600		10	96900		10
Atrazine	NS	NS	12	U	1	13	U	1	15	U	1	12	U	1	12	U	1	13	U	1	12	U	1	12	U	1	25	U	1	240	U	10	250	U	10
Benzo(a)anthracene	1000	5600	2400		1	17000		100	40.1	J	1	4430		1	60.6	J	1	190		1	24800		100	20800		20	786		1	8570		10	9370		10
Benzo(a)pyrene	1000	1000	2080		1	5600		1	22	U	1	4080		1	49.8	J	1	93.5		1	4570		1	13200		20	325		1	2230		10	2350		10
Benzo(b)fluoranthene	1000	5600	2070		1	8260		100	25	U	1	4640		1	56.0	J	1	62.0	J	1	5760		1	9850		20	613		1	1940		10	2390		10
Benzo(g,h,i)perylene	100000	500000	1130		1	2390		1	27	U	1	2220		1	31.3	J	1	51.6	J	1	1410		1	5370		1	311		1	692	J	10	637	J	10
Benzo(k)fluoranthene	800	56000	1020		1	1880		1	28	U	1	1760		1	36.6	J	1	95.2		1	2130		1	5570		1	371		1	2240		10	2300		10
4-Bromophenyl phenyl ether	NS	NS	22	U	1	23	U	1	27	U	1	22	U	1	23	U	1	23	U	1	22	U	1	22	U	1	46	U	1	440	U	10	460	U	10
Butyl benzyl phthalate	NS	NS	35	U	1	37	U	1	43	U	1	35	U	1	36	U	1	37	U	1	36	U	1	36	U	1	73	U	1	710	U	10	740	U	10
1,1'-Biphenyl	NS	NS	71.2	J	1	51800		100	41.9	J	1	660		1	7.2	U	1	7.4	U	1	109000		100	5940		20	58.7	J	1	105000		10	112000		10
Benzaldehyde	NS	NS	14	U	1	15	U	1	17	U	1	14	U	1	14	U	1	14	U	1	15	U	1	14	U	1	14	U	1	29	U	1	280	U	10	290	U	10
2-Chloronaphthalene	NS	NS	19	U	1	20	U	1	23	U	1	19	U	1	19	U	1	19	U	1	20	U	1	19	U	1	19	U	1	39	U	1	380	U	10	390	U	10
4-Chloroaniline	NS	NS	19	U	1	20	U	1	24	U	1	19	U	1	20	U	1	21	U	1	20	U	1	20	U	1	41	U	1	390	U	10	410	U	10
Carbazole	NS	NS	193		1	19000		100	34	U	1	966		1	29	U	1	2900		1	1790		1	8060		20	334		1	45000		10	21100		10
Caprolactam	NS	NS	19	U	1	20	U	1	23	U	1	19	U	1	20	U	1	20	U	1	20	U	1	19	U	1	40	U	1	380	U	10	400	U	10
Chrysene	1000	56000	2270		1	17000		100	35.4	J	1	4310		1	58.7	J	1	184		1	22400		100	18200		20	966		1	6800		10	7780		10
bis(2-Chloroethoxy)methane	NS	NS	24	U	1	26	U	1	30	U	1	24	U	1	25	U	1	26	U	1	25	U	1	25	U	1	51	U	1	490	U	10	510	U	10
bis(2-Chloroethyl)ether	NS	NS	18	U	1	19	U	1	22	U	1	18	U	1	19	U	1	19	U	1	19	U	1	19	U	1	38	U	1	370	U	10	380	U	10
bis(2-Chloroisopropyl)ether	NS	NS	18	U	1	19	U	1	22	U	1	18	U	1	18	U	1	19	U	1	18	U	1	18	U	1	38	U	1	360	U	10	380	U	10
4-Chlorophenyl phenyl ether	NS	NS	18	U	1	19	U	1	22	U	1	18	U	1	19	U	1	19	U	1	19	U	1	19	U	1	38	U	1	370	U	10	380	U	10
2,4-Dinitrotoluene	NS	NS	26	U	1	28	U	1	32	U	1	26	U	1	27	U	1	28	U	1	27	U	1	27	U	1	55	U	1	530	U	10	560	U	10
2,6-Dinitrotoluene	NS	NS	23	U	1	24	U	1	28	U	1	23	U	1	24	U	1	24	U	1	23	U	1	24	U	1	48	U	1	460	U	10	480	U	10
3,3'-Dichlorobenzidine	NS	NS	15	U	1	16	U	1	19	U	1	15	U	1	16	U	1	16	U	1	16	U	1	16	U	1	32	U	1	310	U	10	320	U	10
Dibenzo(a,h)anthracene	330	560	473		1	893		1	25	U	1	945		1	21	U	1	22	U	1	622		1	4240		1	149		1	420	U	10	430	U	10
Dibenzofuran	7000	350000	367		1	110000		100	101	J	1	2200		1	68.9	J	1	3800		1	573000		100	17900		20	300		1	192000		200	185000		100
Di-n-butyl phthalate	NS	NS	13	U	1	14	U	1	16	U	1	13	U	1	14	U	1	14	U	1	14	U	1	14	U	1	28	U	1	270	U	10	280	U	10
Di-n-octyl phthalate	NS	NS	29	U	1	31	U	1	36	U	1	29	U	1	30	U	1	31	U	1	30	U	1	30	U	1	62	U	1	590	U	10	620	U	10
Diethyl phthalate	NS	NS	21	U	1	22	U	1	25	U	1	21	U	1	21	U	1	22	U	1	21	U	1	21	U	1	43	U	1	420	U	10	430	U	10
Dimethyl phthalate	NS	NS	87.2	J	1	22	U	1	26	U	1	92.6	J	1	22	U	1	71.8	J	1	22	U	1	22	U	1	139	J	1	430	U	10	450	U	10
bis(2-Ethylhexyl)phthalate	NS	NS	53	U	1	56	U	1	65	U	1	53	U	1	55	U	1	57	U	1	54	U	1	55	U	1	339		1	1100	U	10	1100	U	10
Fluoranthene	100000	500000	3760		1	74600		100	88.8		1	9960		5	182		1	812		1	178000		100	40200		20	2710		1	62600		10	63900		10
Fluorene	30000	500000	507		1	105000		100	60.3	J	1	1830		1	38.6	J	1	2530		1	528000		100	23500		20	129	J	1	208000		200	212000		100
Hexachlorobenzene	330	330	20	U	1	21	U	1	24	U	1	20	U	1	20	U	1	21	U	1	20	U	1	20	U	1	41	U	1	400	U	10	410	U	10
Hexachlorobutadiene	NS	NS	17	U	1	18	U	1	21	U	1	17	U	1	17	U	1	18	U	1	17	U	1	17	U	1	35	U	1	340	U	10	350	U	10
Hexachlorocyclopentadiene	NS	NS	61	U	1	65	U	1	75	U	1	62	U	1	63	U	1	65	U	1	63	U	1	63	U	1	130	U	1	1200	U	10	1300	U	10
Hexachloroethane	NS	NS	17	U	1	18	U	1	21	U	1	17	U	1	17	U	1	18	U	1	17	U	1	17	U	1	35	U	1	340	U	10	350	U	10
Indeno(1,2,3-cd)pyrene	500	5600	1060		1	2310		1	26	U	1	2240		1	27.5	J	1	44.9	J	1	1400		1	5500		1	296		1	709	J	10	653	J	10
Isophorone	NS	NS	16	U	1	17	U	1	20	U	1	16	U	1	17	U	1	17	U	1	17	U	1	17	U	1	34	U	1	330	U	10	340	U	10
2-Methylnaphthalene	NS	NS	138		1	207000		100	169		1	2160		1	35.7	J	1	36	U	1	34	U	1	10800		20	188	J	1	494000		200	382000		100
2-Nitroaniline	NS	NS	27	U	1	28	U	1	32	U	1	27	U	1	27	U	1	28	U	1	27	U	1	27	U	1	56	U	1	540	U	10	560	U	10
3-Nitroaniline	NS	NS	24	U	1	25	U	1	29	U	1	24	U	1	25	U	1	26	U	1	25	U	1	25	U	1	51	U	1	490	U	10	510	U	10
4-Nitroaniline	NS	NS	23	U	1	25	U	1	29	U	1	24	U	1	24	U	1	25	U	1	24	U	1	24	U	1	49	U	1	480	U	10	500	U	10
Naphthalene	12000	500000	330		1	1460000		500	1420		1	3600		1	61.1	J	1	1080		1	94.6		1	13400		20	191		1	1130000		200	505000		100
Nitrobenzene	NS	NS	17	U	1	18	U	1	21	U	1	17	U	1	18	U	1	19	U	1	18	U	1	18	U	1	37	U	1	350	U	10	370	U	10
N-Nitroso-di-n-propylamine	NS	NS	15	U	1	16	U	1	18	U	1	15	U	1	15	U	1	16	U	1	15	U	1	15	U	1	31	U	1	300	U	10	310	U	10
N-Nitrosodiphenylamine	NS	NS	36	U	1	38	U	1	44	U	1	36	U	1	37	U	1	38	U	1	37	U	1	37	U	1	76	U	1	730	U	10	760	U	10
Phenanthrene	100000	500000	2240		1	257000		100	237		1	11100		5	183		1	5080		1	967000		500	47500		20	4790		1	339000		200	318000		100
Pyrene	100000	500000	3960		1	49800		100	59.1	J	1	8740		5	126		1	690		1	106000		100	42100		20	2380		1	41100		10	43500		10
1,2,4,5-Tetrachlorobenzene	NS	NS	18	U	1	20	U	1	23	U	1	19	U	1	19	U	1	20	U	1	19	U	1	19	U	1	39	U	1	370	U	10	390	U	10

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Conservation Part 375
Part 6.8 rules for unrestricted and restriced use
NS - No standard
U - Below detection limit
J - Estimated value detected above quantitative method detection limit (MDL)
& below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed
2-Methylphenol is considered a cresol. Standards taken from o-cresol.

Table 4
Queens West, Parcel 8
Post-Treatment Soils Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	GC12-2 (12.5-13) JA84761-1 8/25/2011			GC18-2 (18.5-19) JA84761-21 8/26/2011			GC18-2 (20.5-21) JA84761-22 8/26/2011			GC18-2 (21.5-22) JA84761-23 8/26/2011			GC19-2 (16-16.5) JA84761-24 8/26/2011			GC19-2 (18-18.5) JA84761-25 8/26/2011			GC19-2 (19.5-20) JA84761-26 8/26/2011			GC19-2 (20-20.5) JA84761-27 8/26/2011			GC20-2 (10-10.5) JA84761-28 8/26/2011			GC20-2 (11-11.5) JA84761-29 8/26/2011			GC20-2 (12-12.5) JA84761-30 8/26/2011			GC20-2 (19.5-20) JA84761-31 8/26/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																							
Acetone	50	500000	8.7	U	1	2000	U	1	6200	U	1	610	U	1	1300	U	1	570	U	1	620	U	1	26000	U	1	1200	U	1	27000	U	1	560	U	1	27000	U	1
Benzene	60	44000	5.4		1	5410		1	8430		1	2750		1	1160		1	3020		1	3130		1	6690		1	39.2	J	1	530	U	1	24.2	J	1	550	U	1
Bromochloromethane	NS	NS	0.68	U	1	160	U	1	490	U	1	48	U	1	100	U	1	44	U	1	49	U	1	2000	U	1	90	U	1	2100	U	1	44	U	1	2100	U	1
Bromodichloromethane	NS	NS	0.29	U	1	69	U	1	210	U	1	21	U	1	43	U	1	19	U	1	21	U	1	880	U	1	39	U	1	900	U	1	19	U	1	920	U	1
Bromoform	NS	NS	0.99	U	1	230	U	1	710	U	1	69	U	1	140	U	1	64	U	1	71	U	1	3000	U	1	130	U	1	3000	U	1	64	U	1	3100	U	1
Bromomethane	NS	NS	0.52	U	1	120	U	1	370	U	1	36	U	1	76	U	1	34	U	1	37	U	1	1500	U	1	69	U	1	1600	U	1	33	U	1	1600	U	1
2-Butanone (MEK)	120	500000	5.7	U	1	1300	U	1	4100	U	1	400	U	1	830	U	1	370	U	1	410	U	1	17000	U	1	750	U	1	17000	U	1	370	U	1	18000	U	1
Carbon disulfide	NS	NS	0.26	U	1	60	U	1	180	U	1	18	U	1	38	U	1	17	U	1	18	U	1	770	U	1	34	U	1	790	U	1	17	U	1	800	U	1
Carbon tetrachloride	760	22000	0.45	U	1	110	U	1	330	U	1	32	U	1	66	U	1	30	U	1	32	U	1	1400	U	1	60	U	1	1400	U	1	29	U	1	1400	U	1
Chlorobenzene	1100	500000	0.42	U	1	99	U	1	300	U	1	30	U	1	62	U	1	27	U	1	30	U	1	1300	U	1	56	U	1	1300	U	1	27	U	1	1300	U	1
Chloroethane	NS	NS	0.53	U	1	130	U	1	380	U	1	37	U	1	78	U	1	35	U	1	38	U	1	1600	U	1	71	U	1	1600	U	1	34	U	1	1700	U	1
Chloroform	370	350000	0.63	U	1	150	U	1	450	U	1	44	U	1	93	U	1	41	U	1	45	U	1	1900	U	1	84	U	1	1900	U	1	41	U	1	2000	U	1
Chloromethane	NS	NS	0.82	U	1	190	U	1	590	U	1	57	U	1	120	U	1	53	U	1	59	U	1	2400	U	1	110	U	1	2500	U	1	53	U	1	2600	U	1
Cyclohexane	NS	NS	0.50	U	1	120	U	1	360	U	1	35	U	1	73	U	1	69.3	J	1	36	U	1	1500	U	1	66	U	1	1500	U	1	32	U	1	2160	J	1
1,2-Dibromo-3-chloropropane	NS	NS	2.0	U	1	460	U	1	1400	U	1	140	U	1	290	U	1	130	U	1	140	U	1	5900	U	1	260	U	1	6100	U	1	130	U	1	6200	U	1
Dibromochloromethane	NS	NS	0.22	U	1	52	U	1	160	U	1	15	U	1	32	U	1	14	U	1	16	U	1	660	U	1	29	U	1	670	U	1	14	U	1	690	U	1
1,2-Dibromoethane	NS	NS	0.31	U	1	73	U	1	220	U	1	22	U	1	46	U	1	20	U	1	22	U	1	930	U	1	41	U	1	950	U	1	20	U	1	980	U	1
1,2-Dichlorobenzene	1100	500000	0.36	U	1	85	U	1	260	U	1	25	U	1	53	U	1	24	U	1	26	U	1	1100	U	1	48	U	1	1100	U	1	23	U	1	1100	U	1
1,3-Dichlorobenzene	2400	280000	0.25	U	1	59	U	1	180	U	1	18	U	1	37	U	1	16	U	1	18	U	1	750	U	1	33	U	1	770	U	1	16	U	1	790	U	1
1,4-Dichlorobenzene	1800	130000	0.22	U	1	52	U	1	160	U	1	16	U	1	33	U	1	15	U	1	16	U	1	670	U	1	30	U	1	680	U	1	14	U	1	700	U	1
Dichlorodifluoromethane	NS	NS	0.42	U	1	98	U	1	300	U	1	29	U	1	62	U	1	27	U	1	30	U	1	1300	U	1	56	U	1	1300	U	1	27	U	1	1300	U	1
1,1-Dichloroethane	270	240000	0.29	U	1	67	U	1	210	U	1	20	U	1	42	U	1	19	U	1	20	U	1	860	U	1	38	U	1	870	U	1	18	U	1	890	U	1
1,2-Dichloroethane	20	30000	0.24	U	1	56	U	1	170	U	1	17	U	1	35	U	1	16	U	1	17	U	1	710	U	1	32	U	1	730	U	1	15	U	1	750	U	1
1,1-Dichloroethene	330	500000	0.80	U	1	190	U	1	580	U	1	56	U	1	120	U	1	52	U	1	58	U	1	2400	U	1	110	U	1	2500	U	1	52	U	1	2500	U	1
cis-1,2-Dichloroethene	250	500000	0.42	U	1	99	U	1	300	U	1	30	U	1	62	U	1	27	U	1	30	U	1	1300	U	1	56	U	1	1300	U	1	27	U	1	1300	U	1
trans-1,2-Dichloroethene	190	500000	0.56	U	1	130	U	1	400	U	1	39	U	1	81	U	1	36	U	1	40	U	1	1700	U	1	74	U	1	1700	U	1	36	U	1	1700	U	1
1,2-Dichloropropane	NS	NS	0.35	U	1	82	U	1	250	U	1	24	U	1	51	U	1	23	U	1	25	U	1	1000	U	1	46	U	1	1100	U	1	22	U	1	1100	U	1
cis-1,3-Dichloropropene	NS	NS	0.20	U	1	47	U	1	140	U	1	14	U	1	29	U	1	13	U	1	14	U	1	600	U	1	26	U	1	610	U	1	13	U	1	620	U	1
trans-1,3-Dichloropropene	NS	NS	0.44	U	1	100	U	1	320	U	1	31	U	1	64	U	1	29	U	1	32	U	1	1300	U	1	58	U	1	1300	U	1	28	U	1	1400	U	1
1,4-Dioxane	100	130000	76	U	1	18000	U	1	95100	J	1	5300	U	1	11000	U	1	5000	U	1	5500	U	1	230000	U	1	10000	U	1	230000	U	1	4900	U	1	240000	U	1
Ethylbenzene	1000	390000	1.5		1	7530		1	85900		1	2220		1	33000		1	9200		1	1850		1	67800		1	286		1	22500		1	1310		1	77300		1
Freon 113	NS	NS	0.94	U	1	220	U	1	670	U	1	66	U	1	140	U	1	61	U	1	67	U	1	2800	U	1	120	U	1	2900	U	1	61	U	1	2900	U	1
2-Hexanone	NS	NS	3.2	U	1	760	U	1	2300	U	1	230	U	1	480	U	1	210	U	1	230	U	1	9700	U	1	430	U	1	9900	U	1	210	U	1	10000	U	1
Isopropylbenzene	NS	NS	0.26	J	1	697	J	1	18900		1	244	J	1	5850		1	1030		1	131	J	1	17200	J	1	140	J	1	11800	J	1	223	J	1	9340	J	1
Methyl Acetate	NS	NS	2.9	U	1	680	U	1	2100	U	1	200	U	1	430	U	1	190	U	1	210	U	1	8700	U	1	390	U	1	8900	U	1	190	U	1	9100	U	1
Methylcyclohexane	NS	NS	0.32	U	1	267	J	1	1250	J	1	56.1	J	1	96.0	J	1	508		1	37.1	J	1	960	U	1	43	U	1	2730	J	1	332	J	1	23000		1
Methyl Tert Butyl Ether	930	500000	0.23	U	1	55	U	1	170	U	1	16	U	1	34	U	1	15	U	1	17	U	1	700	U	1	31	U	1	720	U	1	15	U	1	730	U	1
4-Methyl-2-pentanone(MIBK)	NS	NS	3.4	U	1	810	U	1	2500	U	1	240	U	1	500	U	1	220	U	1	250	U	1	10000	U	1	460	U	1	11000	U	1	220	U	1	11000	U	1
Methylene chloride	50	500000	0.30	U	1	71	U	1	220	U	1	21	U	1	44	U	1	20	U	1	22	U	1	900	U	1	40	U	1	920	U	1	19	U	1	940	U	1
Styrene	NS	NS	0.24	U	1	57	U	1	170	U	1	17	U	1	36	U	1	16	U	1	17	U	1	730	U	1	32	U	1	740	U	1	16	U	1	760	U	1
1,1,2,2-Tetrachloroethane	NS	NS	0.23	U	1	55	U	1	170	U	1	16	U	1	34	U	1	15	U	1	17	U	1	700	U	1	31	U	1	720	U	1	15	U	1	730	U	1
Tetrachloroethene	1300	150000	0.25	U	1	59	U	1	180	U	1	18	U	1	37	U	1	16	U	1	18	U	1	750	U	1	33	U	1	770	U	1	16	U	1	780	U	1
Toluene	700	500000	9.1		1	24200		1	187000		1	4630		1	105000		1	9090		1	1870		1	61500		1	69.1	J	1	1500	U	1	32	U	1	1600	U	1
1,2,3-Trichlorobenzene	NS	NS	0.57	U	1	130	U	1	410	U	1	40	U	1	84	U	1	37	U	1	41	U	1	1700	U	1	76	U	1	1800	U	1	37	U	1	1800	U	1
1,2,4-Trichlorobenzene	NS	NS	0.45	U	1	100	U	1	320	U	1	31	U	1	65	U	1	29	U	1	32	U	1	1300	U	1	59	U	1	1400	U	1	29	U	1	1400	U	1
1,1,1-Trichloroethane	680	500000	0.32	U	1	74	U	1	230	U	1	22	U	1	46	U	1	21	U	1	23	U	1	950	U	1	42	U	1	970	U	1	20	U	1	990	U	1
1,1,2-Trichloroethane	NS	NS	0.57	U	1	130	U	1	410	U	1	40	U	1	83	U	1	37	U	1	41	U	1	1700	U	1	75	U	1	1700	U	1	37	U	1	1800	U	1
Trichloroethene	470	200000	0.32	U	1	76	U	1	230	U	1	23	U	1	47	U	1	21	U	1	23	U	1	970	U	1	43	U	1	990	U	1	21	U	1	1000	U	1
Trichlorofluoromethane	NS	NS	0.63	U	1	150	U	1	450	U	1	44	U	1	92	U	1	41	U	1	45	U	1	1900	U	1	84	U	1	1900	U	1	41	U	1	2000	U	1
Vinyl chloride	20	13000	0.60	U	1	140	U	1	430	U	1	42	U	1	88	U	1	39	U	1	43	U	1	1800	U	1	80	U	1	1800	U	1	39	U	1	1900	U	1
m,p-Xylene	260	500000	14.9		1	21600		1	244000		1	6680		1	119000		1	17500		1	3930		1	202000		1	701		1	46200		1	1270		1	65600		1
o-Xylene	260	500000	9.1		1	9310		1	99600		1	3030		1	44700		1	11500		1	2230		1	81500		1	415		1	27000		1	1050		1	51200		1
Xylene (total)	260	500000	24.0		1	30900		1	344000		1	9710		1	164000		1	29000		1	6160		1	283000		1	1120		1	73100		1	2320		1	117000		1

Table 4
Queens West, Parcel 8
Post-Treatment Soils Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	GC12-2 (12.5-13) JA84761-1 8/25/2011			GC18-2 (18.5-19) JA84761-21 8/26/2011			GC18-2 (20.5-21) JA84761-22 8/26/2011			GC18-2 (21.5-22) JA84761-23 8/26/2011			GC19-2 (16-16.5) JA84761-24 8/26/2011			GC19-2 (18-18.5) JA84761-25 8/26/2011			GC19-2 (19.5-20) JA84761-26 8/26/2011			GC19-2 (20-20.5) JA84761-27 8/26/2011			GC20-2 (10-10.5) JA84761-28 8/26/2011			GC20-2 (11-11.5) JA84761-29 8/26/2011			GC20-2 (12-12.5) JA84761-30 8/26/2011			GC20-2 (19.5-20) JA84761-31 8/26/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																						
GC/MS Semi-volatiles (ug/kg)																																						
2-Chlorophenol	NS	NS	61	U	1	160	U	1	150	U	1	140	U	1	1300	U	10	1300	U	10	150	U	1	1200	U	10	1200	U	10	1300	U	10	130	U	1	1300	U	10
4-Chloro-3-methyl phenol	NS	NS	60	U	1	160	U	1	140	U	1	140	U	1	1200	U	10	1300	U	10	140	U	1	1200	U	10	1200	U	10	1300	U	10	130	U	1	1300	U	10
2,4-Dichlorophenol	NS	NS	97	U	1	260	U	1	230	U	1	220	U	1	2000	U	10	2100	U	10	230	U	1	2000	U	10	1900	U	10	2100	U	10	210	U	1	2100	U	10
2,4-Dimethylphenol	NS	NS	100	U	1	6530		1	10800		1	12800		1	2100	U	10	2200	U	10	9470		1	5180	J	10	2000	U	10	2200	U	10	220	U	1	2100	U	10
2,4-Dinitrophenol	NS	NS	73	U	1	200	U	1	180	U	1	170	U	1	1500	U	10	1600	U	10	180	U	1	1500	U	10	1400	U	10	1600	U	10	160	U	1	1600	U	10
4,6-Dinitro-o-cresol	NS	NS	73	U	1	200	U	1	180	U	1	170	U	1	1500	U	10	1600	U	10	180	U	1	1500	U	10	1400	U	10	1600	U	10	160	U	1	1600	U	10
2-Methylphenol	330	500000	69	U	1	888		1	578		1	775		1	1400	U	10	1500	U	10	760		1	1400	U	10	1300	U	10	1500	U	10	150	U	1	1500	U	10
3&4-Methylphenol	NS	NS	77	U	1	1340		1	895		1	1160		1	1600	U	10	1600	U	10	334		1	1500	U	10	1500	U	10	1600	U	10	160	U	1	1600	U	10
2-Nitrophenol	NS	NS	64	U	1	170	U	1	150	U	1	150	U	1	1300	U	10	1400	U	10	150	U	1	1300	U	10	1200	U	10	1400	U	10	140	U	1	1400	U	10
4-Nitrophenol	NS	NS	100	U	1	270	U	1	240	U	1	230	U	1	2100	U	10	2200	U	10	240	U	1	2100	U	10	2000	U	10	2200	U	10	220	U	1	2200	U	10
Pentachlorophenol	800	6700	100	U	1	280	U	1	250	U	1	240	U	1	2100	U	10	2200	U	10	250	U	1	2100	U	10	2000	U	10	2200	U	10	220	U	1	2200	U	10
Phenol	330	500000	63	U	1	170	U	1	150	U	1	150	U	1	1300	U	10	1400	U	10	150	U	1	1300	U	10	1200	U	10	1300	U	10	140	U	1	1300	U	10
2,3,4,6-Tetrachlorophenol	NS	NS	62	U	1	170	U	1	150	U	1	140	U	1	1300	U	10	1300	U	10	150	U	1	1300	U	10	1200	U	10	1300	U	10	130	U	1	1300	U	10
2,4,5-Trichlorophenol	NS	NS	70	U	1	190	U	1	170	U	1	160	U	1	1400	U	10	1500	U	10	170	U	1	1400	U	10	1400	U	10	1500	U	10	150	U	1	1500	U	10
2,4,6-Trichlorophenol	NS	NS	57	U	1	150	U	1	140	U	1	130	U	1	1200	U	10	1200	U	10	140	U	1	1100	U	10	1100	U	10	1200	U	10	120	U	1	1200	U	10
Acenaphthene	20000	500000	593		1	35500		50	1520		1	7670		1	173000		200	95200		10	320		1	174000		250	61400		10	185000		100	3180		1	275000		200
Acenaphthylene	100000	500000	402		1	1860		1	46	U	1	385		1	5680		10	5660		10	46	U	1	5440		10	1700		10	9450		10	239		1	19400		10
Acetophenone	NS	NS	11	U	1	28	U	1	25	U	1	24	U	1	220	U	10	230	U	10	25	U	1	210	U	10	210	U	10	230	U	10	23	U	1	220	U	10
Anthracene	100000	500000	941		1	15800		1	489		1	3690		1	60000		10	46400		10	93.6	J	1	73400		10	35500		10	81600		10	4260		1	113000		10
Atrazine	NS	NS	12	U	1	32	U	1	28	U	1	27	U	1	250	U	10	260	U	10	28	U	1	240	U	10	230	U	10	250	U	10	25	U	1	250	U	10
Benzo(a)anthracene	1000	5600	2400		1	5580		1	234		1	1260		1	6260		10	18300		10	47	U	1	15800		10	12400		10	24900		10	184		1	61800		10
Benzo(a)pyrene	1000	1000	2080		1	3080		1	173		1	692		1	2010		10	10500		10	44	U	1	8670		10	6080		10	11200		10	77.4	J	1	37600		10
Benzo(b)fluoranthene	1000	5600	2070		1	2810		1	192		1	633		1	1860		10	10400		10	48	U	1	7320		10	5730		10	9760		10	97.4	J	1	35800		10
Benzo(g,h,i)perylene	100000	500000	1130		1	1500		1	117	J	1	348		1	634	J	10	4820		10	54	U	1	3900		10	3340		10	4740		10	48	U	1	18800		10
Benzo(k)fluoranthene	800	56000	1020		1	2090		1	148		1	629		1	1740		10	6450		10	54	U	1	7370		10	5660		10	8830		10	49.9	J	1	24000		10
4-Bromophenyl phenyl ether	NS	NS	22	U	1	58	U	1	52	U	1	50	U	1	450	U	10	470	U	10	52	U	1	440	U	10	430	U	10	470	U	10	47	U	1	460	U	10
Butyl benzyl phthalate	NS	NS	35	U	1	93	U	1	83	U	1	80	U	1	720	U	10	750	U	10	83	U	1	710	U	10	680	U	10	740	U	10	75	U	1	740	U	10
1,1'-Biphenyl	NS	NS	71.2	J	1	17400		50	780		1	3350		1	94200		10	42500		10	168	J	1	99600		10	26300		10	67200		10	1040		1	88000		10
Benzaldehyde	NS	NS	14	U	1	37	U	1	33	U	1	32	U	1	290	U	10	300	U	10	33	U	1	280	U	10	270	U	10	290	U	10	30	U	1	290	U	10
2-Chloronaphthalene	NS	NS	19	U	1	50	U	1	45	U	1	43	U	1	390	U	10	400	U	10	45	U	1	380	U	10	360	U	10	400	U	10	40	U	1	400	U	10
4-Chloroaniline	NS	NS	19	U	1	52	U	1	46	U	1	44	U	1	400	U	10	410	U	10	46	U	1	390	U	10	380	U	10	410	U	10	41	U	1	410	U	10
Carbazole	NS	NS	193		1	5320		1	112	J	1	959		1	19500		10	11100		10	67	U	1	24600		10	19800		10	44600		10	4890		1	50100		10
Caprolactam	NS	NS	19	U	1	51	U	1	45	U	1	44	U	1	390	U	10	410	U	10	45	U	1	380	U	10	370	U	10	400	U	10	41	U	1	400	U	10
Chrysene	1000	56000	2270		1	5090		1	240		1	1200		1	5080		10	16000		10	49	U	1	14000		10	12100		10	22000		10	167		1	56800		10
bis(2-Chloroethoxy)methane	NS	NS	24	U	1	65	U	1	58	U	1	56	U	1	500	U	10	520	U	10	58	U	1	490	U	10	470	U	10	520	U	10	52	U	1	520	U	10
bis(2-Chloroethyl)ether	NS	NS	18	U	1	49	U	1	43	U	1	42	U	1	380	U	10	390	U	10	43	U	1	370	U	10	350	U	10	390	U	10	39	U	1	380	U	10
bis(2-Chloroisopropyl)ether	NS	NS	18	U	1	48	U	1	43	U	1	41	U	1	370	U	10	380	U	10	43	U	1	360	U	10	350	U	10	380	U	10	38	U	1	380	U	10
4-Chlorophenyl phenyl ether	NS	NS	18	U	1	49	U	1	43	U	1	42	U	1	380	U	10	390	U	10	43	U	1	370	U	10	350	U	10	390	U	10	39	U	1	380	U	10
2,4-Dinitrotoluene	NS	NS	26	U	1	70	U	1	63	U	1	61	U	1	550	U	10	570	U	10	63	U	1	530	U	10	510	U	10	560	U	10	56	U	1	560	U	10
2,6-Dinitrotoluene	NS	NS	23	U	1	61	U	1	55	U	1	53	U	1	480	U	10	490	U	10	55	U	1	460	U	10	450	U	10	490	U	10	49	U	1	490	U	10
3,3'-Dichlorobenzidine	NS	NS	15	U	1	41	U	1	37	U	1	35	U	1	320	U	10	330	U	10	37	U	1	310	U	10	300	U	10	330	U	10	33	U	1	320	U	10
Dibenzo(a,h)anthracene	330	560	473		1	594		1	49	U	1	134	J	1	430	U	10	1720		10	49	U	1	1770		10	1330		10	1680		10	44	U	1	6920		10
Dibenzofuran	7000	350000	367		1	33400		50	1510		1	6970		1	168000		200	80800		10	275	J	1	169000		250	48900		10	125000		10	2700		1	229000		200
Di-n-butyl phthalate	NS	NS	13	U	1	36	U	1	32	U	1	31	U	1	280	U	10	290	U	10	32	U	1	270	U	10	260	U	10	280	U	10	29	U	1	280	U	10
Di-n-octyl phthalate	NS	NS	29	U	1	78	U	1	70	U	1	68	U	1	610	U	10	630	U	10	70	U	1	590	U	10	570	U	10	620	U	10	63	U	1	620	U	10
Diethyl phthalate	NS	NS	21	U	1	55	U	1	49	U	1	113	J	1	430	U	10	440	U	10	49	U	1	420	U	10	400	U	10	440	U	10	44	U	1	440	U	10
Dimethyl phthalate	NS	NS	87.2	J	1	374		1	273	J	1	198	J	1	440	U	10	460	U	10	163	J	1	430	U	10	410	U	10	450	U	10	45	U	1	450	U	10
bis(2-Ethylhexyl)phthalate	NS	NS	53	U	1	140	U	1	176	J	1	120	U	1	1100	U	10	1100	U	10	130	U	1	1100	U	10	1000	U	10	1100	U	10	110	U	1	1100	U	10
Fluoranthene	100000	500000	3760		1	24100		50	709		1	4840		1	46600		10	70000		10	136	J	1	66400		10	50500		10	114000		10	3400		1	259000		200
Fluorene	30000	500000	507		1	29100		50	1130		1	6580		1	124000		10	81500		10	227		1	160000		250	51000		10	159000		100	4440		1	235000		200
Hexachlorobenzene	330	330	20	U	1	53	U	1	47	U	1	45	U	1	410	U	10	420	U	10	47	U	1	400	U	10	380	U	10	420	U	10	42	U	1	420	U	10
Hexachlorobutadiene	NS	NS	17	U	1	45	U	1	40	U	1	39	U	1	350	U	10	360	U	10	40	U	1	340	U	10	330	U	10	360	U	10	36	U	1	350	U	10
Hexachlorocyclopentadiene	NS	NS	61	U	1	160	U	1	150	U	1	140	U	1	1300	U	10	1300	U	10	150	U	1	1200	U	10	1200	U	10	1300	U	10	130	U	1	1300	U	10
Hexachloroethane	NS	NS	17	U	1	45	U	1	40	U	1	39	U	1	350	U	10	360	U	10	40	U	1	340	U	10	330	U	10	360	U	10	36	U	1	350	U	10
Indeno(1,2,3-cd)pyrene	500	5600	1060		1	1400		1	100	J	1	342		1	686	J	10	4490		10	50	U	1	4100		10	3040		10	4620		10	45	U	1	17600		10
Isophorone	NS	NS	16	U	1	43	U	1	39	U	1	37	U	1	340	U	10	350	U	10	39	U	1	330	U	10	320	U	10	340	U	10	35	U	1	340	U	10
2-Methylnaphthalene	NS	NS	138		1	75400		50	3780		1	13800		1	507000		200	195000		100	828		1	508000		250	55300		10	256000		100	2670		1	378000		200
2-Nitroaniline	NS	NS	27	U	1	71	U	1	63	U	1	61	U	1	550	U	10	570	U	10	63	U	1	540	U	10	520	U	10	560	U	10	57	U	1	560	U	10
3-Nitroaniline	NS	NS	24	U	1	64	U	1	58	U	1	56	U	1	500	U	10	520	U	10	58	U	1	490	U	10	470	U	10	510	U	10	52	U	1	510	U	10
4-Nitroaniline	NS	NS	23	U	1	63	U	1	56	U	1	54	U	1	490	U	10	510	U	10	56	U	1	470	U	10	460	U	10	500	U	10	50	U	1	500	U	10
Naphthalene	12000	500000	330		1	373000		50	23400		4	63000		10	1950000		200	634000		100	12500		1	2430000		250	399000		50	1020000		100	17700		2	1790000		200
Nitrobenzene	NS	NS	17	U	1	47	U	1	42	U	1	40	U	1	360	U	10	370	U	10	42	U	1	350	U	10	340	U	10	370	U	10	37	U	1	370	U	10
N-Nitroso-di-n-propylamine	NS	NS	15	U	1	39	U	1	35	U	1	34	U	1	300	U	10	320	U	10	35	U	1	300	U	10	290	U	10	310	U	10	32	U	1	310	U	10
N-Nitrosodiphenylamine	NS	NS	36	U	1	96	U	1	86	U	1	83	U	1	750	U	10	770	U	10	86	U	1	730	U	10	700	U	10	770	U	10	77	U	1	760	U	10
Phenanthrene	100000	500000	2240		1	72900		50	1970		1	16200		10	242000		200	230000		100	418		1	297000		250	147000		50	424000		100	9980		1	698000		200
Pyrene	100000	500000	3960		1	18100		50	619		1	3980		1	29700		10	53900		10	117	J	1	49800		10	42200		10	89400		10	2520		1	196000		200
1,2,4,5-Tetrachlorobenzene	NS	NS	18	U	1	49	U	1	44	U	1	43	U	1	380	U	10	400	U	10	44	U	1	370	U	10	360	U	10	390	U	10	40	U	1	390	U	10

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Conservation Part 375
Part 6.8 rules for unrestricted and restriced use
NS - No standard
U - Below detection limit
J - Estimated value detected above quantitative method detection limit (MDL)
& below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed
2-Methylphenol is considered a cresol. Standards taken from o-cresol.

Table 5
Queens West, Parcel 8
Post-Treatment Groundwater Results

Client ID		MW-16S			MW-16S			MW-21S			MW-21S			MW-7R			MW-7R		
Lab Sample ID		JA85941-4A			JA85941-4			JA85941-3A			JA85941-3			JA85941-2A			JA85941-2		
Date Sampled		9/12/2011			9/12/2011			9/12/2011			9/12/2011			9/12/2011			9/12/2011		
	TOGS 1.1.1	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/L)																			
Acetone	50	NA			<190		25	NA			<380		50	NA			<380		50
Benzene	1	NA			**1310**		25	NA			**12.8**	J	50	NA			**2000**		50
Bromochloromethane		NA			<9.9		25	NA			<20		50	NA			<20		50
Bromodichloromethane	50	NA			<5.7		25	NA			<11		50	NA			<11		50
Bromoform	50	NA			<6.1		25	NA			<12		50	NA			<12		50
Bromomethane	5	NA			<7.9		25	NA			<16		50	NA			<16		50
2-Butanone (MEK)	50	NA			<73		25	NA			<150		50	NA			<150		50
Carbon disulfide		NA			19.2	J	25	NA			<8.9		50	NA			204		50
Carbon tetrachloride	5	NA			<4.9		25	NA			<9.7		50	NA			<9.7		50
Chlorobenzene	5	NA			<5.6		25	NA			<11		50	NA			<11		50
Chloroethane	5	NA			<9.2		25	NA			<18		50	NA			<18		50
Chloroform	7	NA			<5.2		25	NA			<10		50	NA			<10		50
Chloromethane		NA			<5.5		25	NA			<11		50	NA			<11		50
Cyclohexane		NA			<7.2		25	NA			<14		50	NA			37.6	J	50
1,2-Dibromo-3-chloropropane	0.04	NA			<32		25	NA			<63		50	NA			<63		50
Dibromochloromethane	50	NA			<5.1		25	NA			<10		50	NA			<10		50
1,2-Dibromoethane		NA			<5.2		25	NA			<10		50	NA			<10		50
1,2-Dichlorobenzene		NA			<4.6		25	NA			<9.2		50	NA			<9.2		50
1,3-Dichlorobenzene		NA			<7.2		25	NA			<14		50	NA			<14		50
1,4-Dichlorobenzene		NA			<6.4		25	NA			<13		50	NA			<13		50
Dichlorodifluoromethane		NA			<7.8		25	NA			<16		50	NA			<16		50
1,1-Dichloroethane	5	NA			<4.8		25	NA			<9.6		50	NA			<9.6		50
1,2-Dichloroethane	0.6	NA			<4.5		25	NA			<9.0		50	NA			<9.0		50
1,1-Dichloroethene	5	NA			<7.0		25	NA			<14		50	NA			<14		50
cis-1,2-Dichloroethene	5	NA			<5.4		25	NA			<11		50	NA			<11		50
trans-1,2-Dichloroethene	5	NA			<7.8		25	NA			<16		50	NA			<16		50
1,2-Dichloropropane	1	NA			<5.4		25	NA			<11		50	NA			<11		50
cis-1,3-Dichloropropene		NA			<5.4		25	NA			<11		50	NA			<11		50
trans-1,3-Dichloropropene		NA			<4.6		25	NA			<9.3		50	NA			<9.3		50
1,4-Dioxane		NA			<1800		25	NA			<3600		50	NA			<3600		50
Ethylbenzene	5	NA			**1210**		25	NA			**11.2**	J	50	NA			**1630**		50
Freon 113		NA			<12		25	NA			<25		50	NA			<25		50
2-Hexanone	50	NA			<76		25	NA			<150		50	NA			<150		50
Isopropylbenzene	5	NA			**48.2**	J	25	NA			<9.7		50	NA			**108**		50
Methyl Acetate		NA			<72		25	NA			<140		50	NA			<140		50
Methylcyclohexane		NA			<4.6		25	NA			<9.2		50	NA			113	J	50
Methyl Tert Butyl Ether	10	NA			<4.6		25	NA			<9.2		50	NA			<9.2		50
4-Methyl-2-pentanone(MIBK)		NA			<30		25	NA			<61		50	NA			<61		50
Methylene chloride	5	NA			<5.1		25	NA			<10		50	NA			<10		50
Styrene	5	NA			<5.7		25	NA			<11		50	NA			<11		50
1,1,2,2-Tetrachloroethane		NA			<5.0		25	NA			<10		50	NA			<10		50
Tetrachloroethene		NA			<8.0		25	NA			<16		50	NA			<16		50
Toluene	5	NA			**8860**		250	NA			**21.0**	J	50	NA			**1310**		50
1,2,3-Trichlorobenzene		NA			<17		25	NA			<34		50	NA			<34		50
1,2,4-Trichlorobenzene		NA			<3.7		25	NA			<7.5		50	NA			<7.5		50
1,1,1-Trichloroethane	5	NA			<5.9		25	NA			<12		50	NA			<12		50
1,1,2-Trichloroethane	1	NA			<5.8		25	NA			<12		50	NA			<12		50
Trichloroethene	5	NA			<5.3		25	NA			<11		50	NA			<11		50
Trichlorofluoromethane	5	NA			<8.8		25	NA			<18		50	NA			<18		50
Vinyl chloride	2	NA			<6.7		25	NA			<13		50	NA			<13		50
m,p-Xylene		NA			3420		25	NA			41.3	J	50	NA			4150		50
o-Xylene		NA			1470		25	NA			17.1	J	50	NA			2170		50
Xylene (total)	5	NA			**4890**		25	NA			**58.4**		50	NA			**6320**		50
Total Confident Conc.		0			21227.4			0			161.8			0			18042.6		
GC Volatiles (mg/L) (SW846 8015C)																			
TPH-GRO (C6-C10)		NA			39.3		10	NA			0.404		1	NA			17.1		10
Total Confident Conc.		0			39.3			0			0.404			0			17.1		

Table 5
Queens West, Parcel 8
Post-Treatment Groundwater Results

Client ID		MW-16S			MW-16S			MW-21S			MW-21S			MW-7R			MW-7R		
Lab Sample ID		JA85941-4A			JA85941-4			JA85941-3A			JA85941-3			JA85941-2A			JA85941-2		
Date Sampled	TOGS 1.1.1	9/12/2011			9/12/2011			9/12/2011			9/12/2011			9/12/2011			9/12/2011		
		Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Semi-volatiles (ug/L)																			
2-Chlorophenol		NA			<0.97		1	NA			<0.97		1	NA			<0.97		1
4-Chloro-3-methyl phenol		NA			<1.8		1	NA			<1.8		1	NA			<1.8		1
2,4-Dichlorophenol	5	NA			<1.2		1	NA			<1.2		1	NA			<1.2		1
2,4-Dimethylphenol	50	NA			**312**		20	NA			<1.5		1	NA			**153**		20
2,4-Dinitrophenol	10	NA			<17		1	NA			<17		1	NA			<17		1
4,6-Dinitro-o-cresol		NA			<0.99		1	NA			<0.99		1	NA			<0.99		1
2-Methylphenol		NA			173		20	NA			2.6		1	NA			43.4		1
3&4-Methylphenol		NA			208		20	NA			10.5		1	NA			89.9		1
2-Nitrophenol	1	NA			<1.5		1	NA			<1.5		1	NA			<1.5		1
4-Nitrophenol	1	NA			<5.2		1	NA			<5.2		1	NA			<5.2		1
Pentachlorophenol		NA			<1.4		1	NA			<1.4		1	NA			<1.4		1
Phenol	1	NA			**38.2**		1	NA			<1.3		1	NA			**144**		20
2,3,4,6-Tetrachlorophenol		NA			<0.94		1	NA			<0.94		1	NA			<0.94		1
2,4,5-Trichlorophenol	1	NA			<1.6		1	NA			<1.6		1	NA			<1.6		1
2,4,6-Trichlorophenol	1	NA			<1.3		1	NA			<1.3		1	NA			<1.3		1
Acenaphthene	20	NA			**56.1**		1	NA			10.7		1	NA			**355**		20
Acenaphthylene		NA			24.1		1	NA			<0.23		1	NA			40.3		1
Acetophenone		NA			<0.29		1	NA			7.8		1	NA			293		20
Anthracene	50	NA			22.8		1	NA			2.8		1	NA			**50.2**		1
Atrazine	7.5	NA			<0.49		1	NA			<0.49		1	NA			<0.49		1
Benzaldehyde		NA			<3.3		1	NA			<3.3		1	NA			<3.3		1
Benzo(a)anthracene	0.002	NA			**12.0**		1	NA			**0.93**	J	1	NA			**12.5**		1
Benzo(a)pyrene		NA			9.9		1	NA			<0.23		1	NA			7.6		1
Benzo(b)fluoranthene	0.002	NA			**6.5**		1	NA			**0.55**	J	1	NA			**5.9**		1
Benzo(g,h,i)perylene	5	NA			**5.7**		1	NA			0.41	J	1	NA			3.5		1
Benzo(k)fluoranthene	0.002	NA			**6.5**		1	NA			<0.51		1	NA			**1.9**		1
4-Bromophenyl phenyl ether		NA			<0.36		1	NA			<0.36		1	NA			<0.36		1
Butyl benzyl phthalate	50	NA			<0.29		1	NA			<0.29		1	NA			<0.29		1
1,1'-Biphenyl	5	NA			**39.1**		1	NA			4.4		1	NA			**130**		20
2-Chloronaphthalene	10	NA			<0.30		1	NA			<0.30		1	NA			<0.30		1
4-Chloroaniline	5	NA			<0.53		1	NA			<0.53		1	NA			<0.53		1
Carbazole		NA			87.3		1	NA			2.8		1	NA			23.3		1
Caprolactam		NA			<0.69		1	NA			<0.69		1	NA			<0.69		1
Chrysene	0.002	NA			**11.5**		1	NA			**1.3**		1	NA			**9.9**		1
bis(2-Chloroethoxy)methane	5	NA			<0.31		1	NA			<0.31		1	NA			<0.31		1
bis(2-Chloroethyl)ether	1	NA			<0.31		1	NA			<0.31		1	NA			<0.31		1
bis(2-Chloroisopropyl)ether		NA			<0.45		1	NA			<0.45		1	NA			<0.45		1
4-Chlorophenyl phenyl ether		NA			<0.31		1	NA			<0.31		1	NA			<0.31		1
2,4-Dinitrotoluene	5	NA			<0.43		1	NA			<0.43		1	NA			<0.43		1
2,6-Dinitrotoluene	5	NA			<0.46		1	NA			<0.46		1	NA			<0.46		1
3,3'-Dichlorobenzidine	5	NA			<0.36		1	NA			<0.36		1	NA			<0.36		1
Dibenzo(a,h)anthracene	50	NA			**2.2**		1	NA			<0.38		1	NA			0.79	J	1
Dibenzofuran		NA			58.9		1	NA			12.1		1	NA			310		20
Di-n-butyl phthalate	50	NA			<0.56		1	NA			<0.56		1	NA			<0.56		1
Di-n-octyl phthalate	50	NA			<0.31		1	NA			<0.31		1	NA			<0.31		1
Diethyl phthalate	50	NA			<0.33		1	NA			<0.33		1	NA			<0.33		1
Dimethyl phthalate	50	NA			<0.28		1	NA			<0.28		1	NA			<0.28		1
bis(2-Ethylhexyl)phthalate	5	NA			<0.59		1	NA			<0.59		1	NA			<0.59		1
Fluoranthene	50	NA			31.4		1	NA			4.5		1	NA			**69.2**		1
Fluorene	50	NA			**50.6**		1	NA			3.5		1	NA			**169**		20
Hexachlorobenzene	0.04	NA			<0.34		1	NA			<0.34		1	NA			<0.34		1
Hexachlorobutadiene	0.5	NA			<0.51		1	NA			<0.51		1	NA			<0.51		1
Hexachlorocyclopentadiene	5	NA			<7.1		1	NA			<7.1		1	NA			<7.1		1
Hexachloroethane	5	NA			<0.55		1	NA			<0.55		1	NA			<0.55		1
Indeno(1,2,3-cd)pyrene	0.002	NA			**4.9**		1	NA			<0.37		1	NA			**2.0**		1
Isophorone	5	NA			<0.27		1	NA			<0.27		1	NA			<0.27		1
2-Methylnaphthalene		NA			407		20	NA			22.6		1	NA			743		20
2-Nitroaniline	5	NA			<1.1		1	NA			<1.1		1	NA			<1.1		1
3-Nitroaniline	5	NA			<1.3		1	NA			<1.3		1	NA			<1.3		1
4-Nitroaniline	5	NA			<1.7		1	NA			<1.7		1	NA			<1.7		1

Table 5
Queens West, Parcel 8
Post-Treatment Groundwater Results

Client ID		MW-16S			MW-16S			MW-21S			MW-21S			MW-7R			MW-7R		
Lab Sample ID		JA85941-4A			JA85941-4			JA85941-3A			JA85941-3			JA85941-2A			JA85941-2		
Date Sampled	TOGS 1.1.1	9/12/2011			9/12/2011			9/12/2011			9/12/2011			9/12/2011			9/12/2011		
		Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
Naphthalene	10	NA			**8300**		100	NA			**304**		4	NA			**7110**		100
Nitrobenzene	0.4	NA			<0.42		1	NA			<0.42		1	NA			<0.42		1
N-Nitroso-di-n-propylamine		NA			<0.30		1	NA			<0.30		1	NA			<0.30		1
N-Nitrosodiphenylamine	50	NA			<0.31		1	NA			<0.31		1	NA			<0.31		1
Phenanthrene	50	NA			**89.6**		1	NA			19.0		1	NA			**523**		20
Pyrene	50	NA			29.2		1	NA			4.2		1	NA			**60.5**		1
1,2,4,5-Tetrachlorobenzene		NA			<0.31		1	NA			<0.31		1	NA			<0.31		1
Total Confident Conc.		0			9986.5			0			414.69			0			10350.89		
GC Semi-volatiles (mg/L) (SW846 8015C)																			
TPH-DRO (C10-C28)		29.0		1	38.5		1	18.5		1	24.3		1	28.0		1	43.5		1
Total Confident Conc.		29			38.5			18.5			24.3			28			43.5		
Metals Analysis (ug/L)																			
Iron	300	NA			**8860**		1	NA			**555**		1	NA			**17000**		1
General Chemistry (mg/L)																			
Nitrogen, Nitrate + Nitrite		NA			<0.10		1	NA			<0.10		1	NA			<0.10		1
Nitrogen, Nitrate		NA			<0.11		1	NA			<0.11		1	NA			<0.15		1
Hardness, Total as CaCO3		NA			2280		0.2	NA			187		1	NA			491		0.4
Nitrogen, Nitrite		NA			0.055		1	NA			0.038		1	NA			<0.050		5
Alkalinity, Total as CaCO3		NA			1580		1	NA			1170		1	NA			1420		1
Alkalinity, Bicarbonate		NA			1580		1	NA			1140		1	NA			1420		1
Alkalinity, Carbonate		NA			<5.0		1	NA			29.6		1	NA			<5.0		1
Sulfide		NA			38.8		1	NA			13.9		1	NA			16.2		1
Chloride		NA			144		5	NA			29.1		1	NA			138		5
Sulfate		NA			5320		50	NA			120		1	NA			10400		100

Table 5
Queens West, Parcel 8
Post-Treatment Groundwater Results

Client ID		MW-9D		MW-9D			FIELD BLANK			FIELD BLANK			TRIP BLANK		
Lab Sample ID		JA85941-1A		JA85941-1			JA85941-6			JA85941-5			JA85941-7		
Date Sampled		9/12/2011		9/12/2011			9/12/2011			9/12/2011			9/12/2011		
	TOGS 1.1.1	Result	Q D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/L)															
Acetone	50	NA		<760		100	<7.6		1	<7.6		1	<7.6		1
Benzene	1	NA		**1760**		100	<0.22		1	<0.22		1	<0.22		1
Bromochloromethane		NA		<40		100	<0.40		1	<0.40		1	<0.40		1
Bromodichloromethane	50	NA		<23		100	<0.23		1	<0.23		1	<0.23		1
Bromoform	50	NA		<24		100	<0.24		1	<0.24		1	<0.24		1
Bromomethane	5	NA		<31		100	<0.31		1	<0.31		1	<0.31		1
2-Butanone (MEK)	50	NA		<290		100	<2.9		1	<2.9		1	<2.9		1
Carbon disulfide		NA		<18		100	<0.18		1	<0.18		1	<0.18		1
Carbon tetrachloride	5	NA		<19		100	<0.19		1	<0.19		1	<0.19		1
Chlorobenzene	5	NA		<22		100	<0.22		1	<0.22		1	<0.22		1
Chloroethane	5	NA		<37		100	<0.37		1	<0.37		1	<0.37		1
Chloroform	7	NA		<21		100	<0.21		1	<0.21		1	<0.21		1
Chloromethane		NA		<22		100	<0.22		1	<0.22		1	<0.22		1
Cyclohexane		NA		<29		100	<0.29		1	<0.29		1	<0.29		1
1,2-Dibromo-3-chloropropane	0.04	NA		<130		100	<1.3		1	<1.3		1	<1.3		1
Dibromochloromethane	50	NA		<20		100	<0.20		1	<0.20		1	<0.20		1
1,2-Dibromoethane		NA		<21		100	<0.21		1	<0.21		1	<0.21		1
1,2-Dichlorobenzene		NA		<18		100	<0.18		1	<0.18		1	<0.18		1
1,3-Dichlorobenzene		NA		<29		100	<0.29		1	<0.29		1	<0.29		1
1,4-Dichlorobenzene		NA		<26		100	<0.26		1	<0.26		1	<0.26		1
Dichlorodifluoromethane		NA		<31		100	<0.31		1	<0.31		1	<0.31		1
1,1-Dichloroethane	5	NA		<19		100	<0.19		1	<0.19		1	<0.19		1
1,2-Dichloroethane	0.6	NA		<18		100	<0.18		1	<0.18		1	<0.18		1
1,1-Dichloroethene	5	NA		<28		100	<0.28		1	<0.28		1	<0.28		1
cis-1,2-Dichloroethene	5	NA		<22		100	<0.22		1	<0.22		1	<0.22		1
trans-1,2-Dichloroethene	5	NA		<31		100	<0.31		1	<0.31		1	<0.31		1
1,2-Dichloropropane	1	NA		<22		100	<0.22		1	<0.22		1	<0.22		1
cis-1,3-Dichloropropene		NA		<22		100	<0.22		1	<0.22		1	<0.22		1
trans-1,3-Dichloropropene		NA		<19		100	<0.19		1	<0.19		1	<0.19		1
1,4-Dioxane		NA		<7200		100	<72		1	<72		1	<72		1
Ethylbenzene	5	NA		**1360**		100	<0.21		1	<0.21		1	<0.21		1
Freon 113		NA		<49		100	<0.49		1	<0.49		1	<0.49		1
2-Hexanone	50	NA		<300		100	<3.0		1	<3.0		1	<3.0		1
Isopropylbenzene	5	NA		**66.1**	J	100	<0.19		1	<0.19		1	<0.19		1
Methyl Acetate		NA		<290		100	<2.9		1	<2.9		1	<2.9		1
Methylcyclohexane		NA		<18		100	<0.18		1	<0.18		1	<0.18		1
Methyl Tert Butyl Ether	10	NA		<18		100	<0.18		1	<0.18		1	<0.18		1
4-Methyl-2-pentanone(MIBK)		NA		<120		100	<1.2		1	<1.2		1	<1.2		1
Methylene chloride	5	NA		<20		100	<0.20		1	<0.20		1	<0.20		1
Styrene	5	NA		<23		100	<0.23		1	<0.23		1	<0.23		1
1,1,2,2-Tetrachloroethane		NA		<20		100	<0.20		1	<0.20		1	<0.20		1
Tetrachloroethene		NA		<32		100	<0.32		1	<0.32		1	<0.32		1
Toluene	5	NA		**23200**		1000	<0.15		1	<0.15		1	<0.15		1
1,2,3-Trichlorobenzene		NA		<69		100	<0.69		1	<0.69		1	<0.69		1
1,2,4-Trichlorobenzene		NA		<15		100	<0.15		1	<0.15		1	<0.15		1
1,1,1-Trichloroethane	5	NA		<24		100	<0.24		1	<0.24		1	<0.24		1
1,1,2-Trichloroethane	1	NA		<23		100	<0.23		1	<0.23		1	<0.23		1
Trichloroethene	5	NA		<21		100	<0.21		1	<0.21		1	<0.21		1
Trichlorofluoromethane	5	NA		<35		100	<0.35		1	<0.35		1	<0.35		1
Vinyl chloride	2	NA		<27		100	<0.27		1	<0.27		1	<0.27		1
m,p-Xylene		NA		4020		100	<0.32		1	<0.32		1	<0.32		1
o-Xylene		NA		1820		100	<0.17		1	<0.17		1	<0.17		1
Xylene (total)	5	NA		**5830**		100	<0.17		1	<0.17		1	<0.17		1
Total Confident Conc.		0		38056.1			0			0			0		
GC Volatiles (mg/L) (SW846 8015C)															
TPH-GRO (C6-C10)		NA		58.5		10	NA			NA			NA		
Total Confident Conc.		0		58.5			0			0			0		

Table 5
Queens West, Parcel 8
Post-Treatment Groundwater Results

Client ID		MW-9D	MW-9D		FIELD BLANK	FIELD BLANK	TRIP BLANK
Lab Sample ID		JA85941-1A	JA85941-1		JA85941-6	JA85941-5	JA85941-7
Date Sampled	TOGS 1.1.1	9/12/2011	9/12/2011		9/12/2011	9/12/2011	9/12/2011
		Result Q D	Result Q	D	Result Q D	Result Q D	Result Q D
GC/MS Semi-volatiles (ug/L)							
2-Chlorophenol		NA	<0.97	1	NA	NA	NA
4-Chloro-3-methyl phenol		NA	<1.8	1	NA	NA	NA
2,4-Dichlorophenol	5	NA	<1.2	1	NA	NA	NA
2,4-Dimethylphenol	50	NA	**154**	20	NA	NA	NA
2,4-Dinitrophenol	10	NA	<17	1	NA	NA	NA
4,6-Dinitro-o-cresol		NA	<0.99	1	NA	NA	NA
2-Methylphenol		NA	75.2	20	NA	NA	NA
3&4-Methylphenol		NA	106	20	NA	NA	NA
2-Nitrophenol	1	NA	<1.5	1	NA	NA	NA
4-Nitrophenol	1	NA	<5.2	1	NA	NA	NA
Pentachlorophenol		NA	<1.4	1	NA	NA	NA
Phenol	1	NA	**111**	20	NA	NA	NA
2,3,4,6-Tetrachlorophenol		NA	<0.94	1	NA	NA	NA
2,4,5-Trichlorophenol	1	NA	<1.6	1	NA	NA	NA
2,4,6-Trichlorophenol	1	NA	<1.3	1	NA	NA	NA
Acenaphthene	20	NA	**155**	20	NA	NA	NA
Acenaphthylene		NA	16.4	1	NA	NA	NA
Acetophenone		NA	<0.29	1	NA	NA	NA
Anthracene	50	NA	6.8	1	NA	NA	NA
Atrazine	7.5	NA	<0.49	1	NA	NA	NA
Benzaldehyde		NA	<3.3	1	NA	NA	NA
Benzo(a)anthracene	0.002	NA	<0.23	1	NA	NA	NA
Benzo(a)pyrene		NA	<0.23	1	NA	NA	NA
Benzo(b)fluoranthene	0.002	NA	<0.46	1	NA	NA	NA
Benzo(g,h,i)perylene	5	NA	<0.32	1	NA	NA	NA
Benzo(k)fluoranthene	0.002	NA	<0.51	1	NA	NA	NA
4-Bromophenyl phenyl ether		NA	<0.36	1	NA	NA	NA
Butyl benzyl phthalate	50	NA	<0.29	1	NA	NA	NA
1,1'-Biphenyl	5	NA	**64.4**	1	NA	NA	NA
2-Chloronaphthalene	10	NA	<0.30	1	NA	NA	NA
4-Chloroaniline	5	NA	<0.53	1	NA	NA	NA
Carbazole		NA	68.8	1	NA	NA	NA
Caprolactam		NA	<0.69	1	NA	NA	NA
Chrysene	0.002	NA	<0.29	1	NA	NA	NA
bis(2-Chloroethoxy)methane	5	NA	<0.31	1	NA	NA	NA
bis(2-Chloroethyl)ether	1	NA	<0.31	1	NA	NA	NA
bis(2-Chloroisopropyl)ether		NA	<0.45	1	NA	NA	NA
4-Chlorophenyl phenyl ether		NA	<0.31	1	NA	NA	NA
2,4-Dinitrotoluene	5	NA	<0.43	1	NA	NA	NA
2,6-Dinitrotoluene	5	NA	<0.46	1	NA	NA	NA
3,3'-Dichlorobenzidine	5	NA	<0.36	1	NA	NA	NA
Dibenzo(a,h)anthracene	50	NA	<0.38	1	NA	NA	NA
Dibenzofuran		NA	117	20	NA	NA	NA
Di-n-butyl phthalate	50	NA	<0.56	1	NA	NA	NA
Di-n-octyl phthalate	50	NA	<0.31	1	NA	NA	NA
Diethyl phthalate	50	NA	<0.33	1	NA	NA	NA
Dimethyl phthalate	50	NA	<0.28	1	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	NA	<0.59	1	NA	NA	NA
Fluoranthene	50	NA	1.5	1	NA	NA	NA
Fluorene	50	NA	**51.9**	1	NA	NA	NA
Hexachlorobenzene	0.04	NA	<0.34	1	NA	NA	NA
Hexachlorobutadiene	0.5	NA	<0.51	1	NA	NA	NA
Hexachlorocyclopentadiene	5	NA	<7.1	1	NA	NA	NA
Hexachloroethane	5	NA	<0.55	1	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	NA	<0.37	1	NA	NA	NA
Isophorone	5	NA	<0.27	1	NA	NA	NA
2-Methylnaphthalene		NA	655	20	NA	NA	NA
2-Nitroaniline	5	NA	<1.1	1	NA	NA	NA
3-Nitroaniline	5	NA	<1.3	1	NA	NA	NA
4-Nitroaniline	5	NA	<1.7	1	NA	NA	NA

Table 5
Queens West, Parcel 8
Post-Treatment Groundwater Results

Client ID Lab Sample ID Date Sampled	TOGS 1.1.1	MW-9D JA85941-1A 9/12/2011			MW-9D JA85941-1 9/12/2011			FIELD BLANK JA85941-6 9/12/2011			FIELD BLANK JA85941-5 9/12/2011			TRIP BLANK JA85941-7 9/12/2011		
		Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
Naphthalene	10	NA			**7970**		100	NA			NA			NA		
Nitrobenzene	0.4	NA			<0.42		1	NA			NA			NA		
N-Nitroso-di-n-propylamine		NA			<0.30		1	NA			NA			NA		
N-Nitrosodiphenylamine	50	NA			<0.31		1	NA			NA			NA		
Phenanthrene	50	NA			42.1		1	NA			NA			NA		
Pyrene	50	NA			1.1		1	NA			NA			NA		
1,2,4,5-Tetrachlorobenzene		NA			<0.31		1	NA			NA			NA		
Total Confident Conc.		0			9596.2			0			0			0		
GC Semi-volatiles (mg/L) (SW846 8015C)																
TPH-DRO (C10-C28)		33.1		1	22.7		1	NA			NA			NA		
Total Confident Conc.		33.1			22.7			0			0			0		
Metals Analysis (ug/L)																
Iron	300	NA			**691000**		20	NA			NA			NA		
General Chemistry (mg/L)																
Nitrogen, Nitrate + Nitrite		NA			<0.10		1	NA			NA			NA		
Nitrogen, Nitrate		NA			<0.11		1	NA			NA			NA		
Hardness, Total as CaCO3		NA			2660		0.04	NA			NA			NA		
Nitrogen, Nitrite		NA			<0.010		1	NA			NA			NA		
Alkalinity, Total as CaCO3		NA			846		1	NA			NA			NA		
Alkalinity, Bicarbonate		NA			846		1	NA			NA			NA		
Alkalinity, Carbonate		NA			<5.0		1	NA			NA			NA		
Sulfide		NA			<2.0		1	NA			NA			NA		
Chloride		NA			98.1		5	NA			NA			NA		
Sulfate		NA			15300		60	NA			NA			NA		

Table 11
Queens West, Parcel 8
Post-Treatment Soil Gas Results

Client ID		SV-2			SV-3			SV-4			SV-2			SV-3			SV-4		
Lab Sample ID		JA72464-1			JA72464-2			JA72464-3			JA58794-1			JA58794-2			JA58794-3		
Date Sampled	Standard	4/6/2011			4/6/2011			4/6/2011			10/13/2010			10/13/2010			10/13/2010		
		Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/m3)																			
Acetone		7.8		1	5.9		1	6.9		1	<0.14		1	<0.14		1	54.6		1
1,3-Butadiene		<0.24		1	<0.24		1	<0.24		1	<0.062		1	<0.062		1	<0.062		1
Benzene		<0.64		1	<0.64		1	<0.64		1	2.5		1	<0.16		1	12		1
Bromodichloromethane		<0.67		1	<0.67		1	<0.67		1	<0.17		1	<0.17		1	<0.17		1
Bromoform		<1.0		1	<1.0		1	<1.0		1	<0.26		1	<0.26		1	<0.26		1
Bromomethane		<0.39		1	<0.39		1	<0.39		1	<0.10		1	<0.10		1	<0.10		1
Bromoethene		<0.57		1	<0.57		1	<0.57		1	<0.14		1	<0.14		1	<0.14		1
Benzyl Chloride		<0.72		1	<0.72		1	<0.72		1	<0.18		1	<0.18		1	<0.18		1
Carbon disulfide		<0.37		1	<0.37		1	<0.37		1	<0.090		1	<0.090		1	16		1
Chlorobenzene		<0.55		1	<0.55		1	<0.55		1	<0.14		1	<0.14		1	<0.14		1
Chloroethane		<0.53		1	<0.53		1	<0.53		1	<0.13		1	<0.13		1	<0.13		1
Chloroform		<0.49		1	<0.49		1	<0.49		1	<0.13		1	<0.13		1	1.9		1
Chloromethane		1.2	J	1	<0.43		1	<0.43		1	<0.11		1	<0.11		1	0.70		1
3-Chloropropene		<0.44		1	<0.44		1	<0.44		1	<0.11		1	<0.11		1	<0.11		1
2-Chlorotoluene		<0.67		1	<0.67		1	<0.67		1	<0.17		1	<0.17		1	<0.17		1
Carbon tetrachloride		<0.57		1	<0.57		1	<0.57		1	<0.14		1	<0.14		1	<0.14		1
Cyclohexane		<0.59		1	<0.59		1	<0.59		1	<0.14		1	<0.14		1	12		1
1,1-Dichloroethane		<0.40		1	<0.40		1	<0.40		1	<0.10		1	<0.10		1	<0.10		1
1,1-Dichloroethylene		<0.38		1	<0.38		1	<0.38		1	<0.095		1	<0.095		1	<0.095		1
1,2-Dibromoethane		<0.92		1	<0.92		1	<0.92		1	<0.23		1	<0.23		1	<0.23		1
1,2-Dichloroethane		<0.38		1	<0.38		1	<0.38		1	<0.097		1	<0.097		1	<0.097		1
1,2-Dichloropropane		<1.0		1	<1.0		1	<1.0		1	<0.25		1	<0.25		1	<0.25		1
1,4-Dioxane		<0.58		1	<0.58		1	<0.58		1	<0.14		1	<0.14		1	<0.14		1
Dichlorodifluoromethane		3.2	J	1	3.0	J	1	2.4	J	1	<0.36		1	<0.36		1	5.4		1
Dibromochloromethane		<2.8		1	<2.8		1	<2.8		1	<0.70		1	<0.70		1	<0.70		1
trans-1,2-Dichloroethylene		<0.56		1	<0.56		1	<0.56		1	<0.14		1	<0.14		1	<0.14		1
cis-1,2-Dichloroethylene		<0.52		1	<0.52		1	<0.52		1	<0.12		1	<0.12		1	<0.12		1
cis-1,3-Dichloropropene		<0.39		1	<0.39		1	<0.39		1	<0.10		1	<0.10		1	<0.10		1
m-Dichlorobenzene		<0.60		1	<0.60		1	<0.60		1	1.1	J	1	0.96	J	1	1.3		1
o-Dichlorobenzene		<0.78		1	<0.78		1	<0.78		1	1.1	J	1	1.0	J	1	1.3		1
p-Dichlorobenzene		<0.66		1	<0.66		1	<0.66		1	2.8		1	3.0		1	2.9		1
trans-1,3-Dichloropropene		<1.4		1	<1.4		1	<1.4		1	<0.36		1	<0.36		1	<0.36		1
Ethanol		35.4		1	17		1	18		1	<0.32		1	<0.32		1	36.6		1
Ethylbenzene		<0.48		1	<0.48		1	<0.48		1	5.6		1	8.7		1	13		1
Ethyl Acetate		3.2		1	3.3		1	2.3	J	1	<0.28		1	<0.28		1	1.9		1
4-Ethyltoluene		<0.47		1	<0.47		1	<0.47		1	1.2		1	1.7		1	2.7		1
Freon 113		<0.77		1	<0.77		1	<0.77		1	<0.20		1	<0.20		1	<0.20		1
Freon 114		<0.84		1	<0.84		1	<0.84		1	<0.20		1	<0.20		1	<0.20		1
Heptane		<0.39		1	<0.39		1	<0.39		1	2.3		1	30		1	7.4		1
Hexachlorobutadiene		<2.6		1	<2.6		1	<2.6		1	<0.64		1	<0.64		1	<0.64		1
Hexane		5.3		1	<0.31		1	<0.31		1	3.9		1	<0.078		1	8.8		1
2-Hexanone		<0.70		1	<0.70		1	<0.70		1	<0.18		1	<0.18		1	<0.18		1
Isopropyl Alcohol		16		1	<0.54		1	<0.54		1	<0.14		1	<0.14		1	<0.14		1
Methylene chloride		3.0		1	<0.38		1	<0.38		1	<0.094		1	<0.094		1	0.90		1
Methyl ethyl ketone		1.4	J	1	<0.35		1	1.3	J	1	<0.088		1	<0.088		1	10		1
Methyl Isobutyl Ketone		<0.61		1	<0.61		1	<0.61		1	<0.15		1	<0.15		1	<0.15		1
Methyl Tert Butyl Ether		<0.61		1	<0.61		1	<0.61		1	<0.16		1	<0.16		1	<0.16		1
Naphthalene		<4.2		1	<4.2		1	<4.2		1	2.9		1	1.1		1	4.0		1
Propylene		1.7	J	1	1.6	J	1	1.9	J	1	<0.16		1	<0.16		1	10		1
Styrene		<0.47		1	<0.47		1	<0.47		1	0.68	J	1	<0.11		1	1.0		1
1,1,1-Trichloroethane		<0.53		1	<0.53		1	<0.53		1	4.0		1	<0.13		1	0.82	J	1
1,1,2,2-Tetrachloroethane		<0.69		1	<0.69		1	<0.69		1	<0.17		1	<0.17		1	<0.17		1
1,1,2-Trichloroethane		<0.52		1	<0.52		1	<0.52		1	<0.13		1	<0.13		1	<0.13		1
1,2,4-Trichlorobenzene		<3.4		1	<3.4		1	<3.4		1	<0.89		1	<0.89		1	<0.89		1
1,2,4-Trimethylbenzene		<0.54		1	<0.54		1	<0.54		1	6.9		1	5.4		1	7.4		1
1,3,5-Trimethylbenzene		<0.54		1	<0.54		1	<0.54		1	2.1		1	2.0		1	3.7		1
2,2,4-Trimethylpentane		<0.39		1	<0.39		1	<0.39		1	0.51	J	1	<0.098		1	2.3		1
Tertiary Butyl Alcohol		<0.49		1	<0.49		1	<0.49		1	<0.12		1	<0.12		1	1.6		1
Tetrachloroethylene		1.4		1	6.3		1	19		1	100		1	178		1	195		1
Tetrahydrofuran		<0.68		1	<0.68		1	<0.68		1	<0.17		1	<0.17		1	1.5		1
Toluene		<0.38		1	<0.38		1	2.9	J	1	31		1	62.6		1	70.8		1
Trichloroethylene		<0.52		1	<0.52		1	<0.52		1	0.97		1	<0.13		1	0.70		1
Trichlorofluoromethane		6.2		1	3.2	J	1	<0.73		1	26		1	<0.18		1	6.2		1
Vinyl chloride		<0.31		1	<0.31		1	<0.31		1	<0.074		1	<0.074		1	<0.074		1
Vinyl Acetate		<1.9		1	<1.9		1	<1.9		1	<0.46		1	<0.46		1	<0.46		1
m,p-Xylene		<1.0		1	<1.0		1	4.3		1	20		1	27		1	38		1
o-Xylene		<0.43		1	<0.43		1	<0.43		1	6.9		1	9.1		1	14		1
Xylenes (total)		<0.43		1	<0.43		1	4.3		1	27		1	36		1	51.3		1
Acetone (ppbv)		3.3		1	2.5		1	2.9		1	<0.061		1	<0.061		1	23.0		1
1,3-Butadiene (ppbv)		<0.11		1	<0.11		1	<0.11		1	<0.028		1	<0.028		1	<0.028		1
Benzene (ppbv)		<0.20		1	<0.20		1	<0.20		1	0.77		1	<0.049		1	3.8		1

Table 11
Queens West, Parcel 8
Post-Treatment Soil Gas Results

Client ID		SV-2			SV-3			SV-4			SV-2			SV-3			SV-4		
Lab Sample ID		JA72464-1			JA72464-2			JA72464-3			JA58794-1			JA58794-2			JA58794-3		
Date Sampled	Standard	4/6/2011			4/6/2011			4/6/2011			10/13/2010			10/13/2010			10/13/2010		
		Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
Bromodichloromethane (ppbv)		<0.10		1	<0.10		1	<0.10		1	<0.025		1	<0.025		1	<0.025		1
Bromoform (ppbv)		<0.098		1	<0.098		1	<0.098		1	<0.025		1	<0.025		1	<0.025		1
Bromomethane (ppbv)		<0.10		1	<0.10		1	<0.10		1	<0.026		1	<0.026		1	<0.026		1
Bromoethene (ppbv)		<0.13		1	<0.13		1	<0.13		1	<0.032		1	<0.032		1	<0.032		1
Benzyl Chloride (ppbv)		<0.14		1	<0.14		1	<0.14		1	<0.034		1	<0.034		1	<0.034		1
Carbon disulfide (ppbv)		<0.12		1	<0.12		1	<0.12		1	<0.029		1	<0.029		1	5.0		1
Chlorobenzene (ppbv)		<0.12		1	<0.12		1	<0.12		1	<0.031		1	<0.031		1	<0.031		1
Chloroethane (ppbv)		<0.20		1	<0.20		1	<0.20		1	<0.050		1	<0.050		1	<0.050		1
Chloroform (ppbv)		<0.10		1	<0.10		1	<0.10		1	<0.026		1	<0.026		1	0.39		1
Chloromethane (ppbv)		0.58	J	1	<0.21		1	<0.21		1	<0.053		1	<0.053		1	0.34		1
3-Chloropropene (ppbv)		<0.14		1	<0.14		1	<0.14		1	<0.035		1	<0.035		1	<0.035		1
2-Chlorotoluene (ppbv)		<0.13		1	<0.13		1	<0.13		1	<0.032		1	<0.032		1	<0.032		1
Carbon tetrachloride (ppbv)		<0.091		1	<0.091		1	<0.091		1	<0.023		1	<0.023		1	<0.023		1
Cyclohexane (ppbv)		<0.17		1	<0.17		1	<0.17		1	<0.042		1	<0.042		1	3.5		1
1,1-Dichloroethane (ppbv)		<0.098		1	<0.098		1	<0.098		1	<0.025		1	<0.025		1	<0.025		1
1,1-Dichloroethylene (ppbv)		<0.095		1	<0.095		1	<0.095		1	<0.024		1	<0.024		1	<0.024		1
1,2-Dibromoethane (ppbv)		<0.12		1	<0.12		1	<0.12		1	<0.030		1	<0.030		1	<0.030		1
1,2-Dichloroethane (ppbv)		<0.094		1	<0.094		1	<0.094		1	<0.024		1	<0.024		1	<0.024		1
1,2-Dichloropropane (ppbv)		<0.22		1	<0.22		1	<0.22		1	<0.054		1	<0.054		1	<0.054		1
1,4-Dioxane (ppbv)		<0.16		1	<0.16		1	<0.16		1	<0.040		1	<0.040		1	<0.040		1
Dichlorodifluoromethane (ppbv)		0.65	J	1	0.60	J	1	0.49	J	1	<0.073		1	<0.073		1	1.1		1
Dibromochloromethane (ppbv)		<0.33		1	<0.33		1	<0.33		1	<0.082		1	<0.082		1	<0.082		1
trans-1,2-Dichloroethylene (ppbv)		<0.14		1	<0.14		1	<0.14		1	<0.035		1	<0.035		1	<0.035		1
cis-1,2-Dichloroethylene (ppbv)		<0.13		1	<0.13		1	<0.13		1	<0.031		1	<0.031		1	<0.031		1
cis-1,3-Dichloropropene (ppbv)		<0.087		1	<0.087		1	<0.087		1	<0.022		1	<0.022		1	<0.022		1
m-Dichlorobenzene (ppbv)		<0.10		1	<0.10		1	<0.10		1	0.19	J	1	0.16	J	1	0.21		1
o-Dichlorobenzene (ppbv)		<0.13		1	<0.13		1	<0.13		1	0.19	J	1	0.17	J	1	0.21		1
p-Dichlorobenzene (ppbv)		<0.11		1	<0.11		1	<0.11		1	0.46		1	0.50		1	0.49		1
trans-1,3-Dichloropropene (ppbv)		<0.31		1	<0.31		1	<0.31		1	<0.079		1	<0.079		1	<0.079		1
Ethanol (ppbv)		18.8		1	9.0		1	9.3		1	<0.17		1	<0.17		1	19.4		1
Ethylbenzene (ppbv)		<0.11		1	<0.11		1	<0.11		1	1.3		1	2.0		1	3.1		1
Ethyl Acetate (ppbv)		0.90		1	0.91		1	0.65	J	1	<0.077		1	<0.077		1	0.54		1
4-Ethyltoluene (ppbv)		<0.096		1	<0.096		1	<0.096		1	0.25		1	0.34		1	0.54		1
Freon 113 (ppbv)		<0.10		1	<0.10		1	<0.10		1	<0.026		1	<0.026		1	<0.026		1
Freon 114 (ppbv)		<0.12		1	<0.12		1	<0.12		1	<0.029		1	<0.029		1	<0.029		1
Heptane (ppbv)		<0.094		1	<0.094		1	<0.094		1	0.57		1	7.4		1	1.8		1
Hexachlorobutadiene (ppbv)		<0.24		1	<0.24		1	<0.24		1	<0.060		1	<0.060		1	<0.060		1
Hexane (ppbv)		1.5		1	<0.087		1	<0.087		1	1.1		1	<0.022		1	2.5		1
2-Hexanone (ppbv)		<0.17		1	<0.17		1	<0.17		1	<0.043		1	<0.043		1	<0.043		1
Isopropyl Alcohol (ppbv)		6.6		1	<0.22		1	<0.22		1	<0.055		1	<0.055		1	<0.055		1
Methylene chloride (ppbv)		0.87		1	<0.11		1	<0.11		1	<0.027		1	<0.027		1	0.26		1
Methyl ethyl ketone (ppbv)		0.47	J	1	<0.12		1	0.43	J	1	<0.030		1	<0.030		1	3.5		1
Methyl Isobutyl Ketone (ppbv)		<0.15		1	<0.15		1	<0.15		1	<0.037		1	<0.037		1	<0.037		1
Methyl Tert Butyl Ether (ppbv)		<0.17		1	<0.17		1	<0.17		1	<0.043		1	<0.043		1	<0.043		1
Naphthalene (ppbv)		<0.80		1	<0.80		1	<0.80		1	0.56		1	0.21		1	0.76		1
Propylene (ppbv)		1.0	J	1	0.91	J	1	1.1	J	1	<0.096		1	<0.096		1	5.8		1
Styrene (ppbv)		<0.11		1	<0.11		1	<0.11		1	0.16	J	1	<0.027		1	0.24		1
1,1,1-Trichloroethane (ppbv)		<0.097		1	<0.097		1	<0.097		1	0.73		1	<0.024		1	0.15	J	1
1,1,2,2-Tetrachloroethane (ppbv)		<0.10		1	<0.10		1	<0.10		1	<0.025		1	<0.025		1	<0.025		1
1,1,2-Trichloroethane (ppbv)		<0.096		1	<0.096		1	<0.096		1	<0.024		1	<0.024		1	<0.024		1
1,2,4-Trichlorobenzene (ppbv)		<0.46		1	<0.46		1	<0.46		1	<0.12		1	<0.12		1	<0.12		1
1,2,4-Trimethylbenzene (ppbv)		<0.11		1	<0.11		1	<0.11		1	1.4		1	1.1		1	1.5		1
1,3,5-Trimethylbenzene (ppbv)		<0.11		1	<0.11		1	<0.11		1	0.42		1	0.41		1	0.76		1
2,2,4-Trimethylpentane (ppbv)		<0.083		1	<0.083		1	<0.083		1	0.11	J	1	<0.021		1	0.49		1
Tertiary Butyl Alcohol (ppbv)		<0.16		1	<0.16		1	<0.16		1	<0.039		1	<0.039		1	0.52		1
Tetrachloroethylene (ppbv)		0.21		1	0.93		1	2.8		1	14.8		1	26.2		1	28.7		1
Tetrahydrofuran (ppbv)		<0.23		1	<0.23		1	<0.23		1	<0.057		1	<0.057		1	0.51		1
Toluene (ppbv)		<0.10		1	<0.10		1	0.76	J	1	8.2		1	16.6		1	18.8		1
Trichloroethylene (ppbv)		<0.097		1	<0.097		1	<0.097		1	0.18		1	<0.024		1	0.13		1
Trichlorofluoromethane (ppbv)		1.1		1	0.57	J	1	<0.13		1	4.6		1	<0.032		1	1.1		1
Vinyl chloride (ppbv)		<0.12		1	<0.12		1	<0.12		1	<0.029		1	<0.029		1	<0.029		1
Vinyl Acetate (ppbv)		<0.53		1	<0.53		1	<0.53		1	<0.13		1	<0.13		1	<0.13		1
m,p-Xylene (ppbv)		<0.24		1	<0.24		1	0.99		1	4.6		1	6.2		1	8.7		1
o-Xylene (ppbv)		<0.10		1	<0.10		1	<0.10		1	1.6		1	2.1		1	3.2		1
Xylenes (total) (ppbv)		<0.10		1	<0.10		1	0.99		1	6.2		1	8.3		1	11.8		1
Total Confident Conc.		35.98			15.42			20.41			48.39			71.69			152.84		

Table 12 - Off-site Waste Disposal Volumes & Facilities

Parcel 8
BCP No. C241087

Date	Contents	Quantity	Units	Disposal Facility	Location	Phone	Manifest No.	Reference No.	Bill of Lading No.	Hazardous
3/17/2011	Waste treatment chemicals, groundwater	1,535	gals	Cycle Chem	Elizabeth, NJ	908/355-5800	136377	CC108-NG	--	Yes
5/31/2011	Soil cuttings	17	drums	Cycle Chem	Elizabeth, NJ	908/355-5800	003534795 JJK	--	--	No
5/31/2011	Groundwater (Center Blvd.)	2	drums	Cycle Chem	Elizabeth, NJ	908/355-5800	003534795 JJK	--	--	Yes
10/20/2011	Groundwater (5 drums)	250	gals	Clean Water of NY	Staten Is., NY	718/881-4600	1493-D1	--	--	No
10/20/2011	Oily debris (3 drums)	500	lbs	Clean Water of NY	Staten Is., NY	718/881-4600	1493-D1	--	--	No
10/18/2011	Hazardous Soil (PCBs)	18.4	tons	CWM Chem.	Model City, NY	716/754-8231	008925604 JJK	--	--	Yes
10/18-12/2	Non-Hazardous Soil	7,340.36	tons	Soil Safe, Inc.	Logan Twp., NJ	410/872-3990	Appendix J	--	--	No
12/1/2011	Non-Hazardous Soil (PCBs)	18.4	tons	ACUA	Egg Harbor Twp., NJ	609-272-6950	Appendix J	--	--	No
12/5/2011	Groundwater (11 drums)	11	drums	Clean Water of NY	Staten Is., NY	718/881-4600	--	1493-D1	--	No
Nov. 2011	Clean Concrete	48	yd^3	Evergreen Reycling	Corona, NY	718/397-1224	--	231387, 234559 233464	--	No
Nov. 2011	Scrap Metal	4	loads	TNT Scrap, LLC	Maspeth, NY	718/366-4017	--	--	1534, 1551	No
Nov. 2011	C & D Trash	30	yd^3	D. F. Allen	Westbury, NY	516/333.5711	--	--	1669, 1670 1338, 1339	No
Nov. 2011	Used Tires	40	tires	S&M Recycling	Oceanside, NY	516/764-2950	--	--	21591	No

Note:
Parcel 8 USEPA ID No.: NYR000047332

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC4FS1-COMP(0-4)			GC4FS1-COMP(0-4)			GC4PH1-COMP(0-4)			GC4PH2-COMP(0-4)			GC5FS1-COMP(0-4)			GC5FS1-COMP(0-4)			GC5PH1-COMP(0-4)			GC5PH2-COMP(0-4)			GC5PH3-COMP(0-4)			GC6FS1-COMP(0-4)			GC6FS1-COMP(0-4)		
Lab Sample ID	JA83311-2A			JA83311-2			JA83311-1			JA83311-3			JA83311-8A			JA83311-8			JA83311-7			JA83311-9			JA83311-10			JA83311-5A			JA83311-5		
Date Sampled	8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
Acetone	NA			<7.2		1	NA			NA			NA			12.5		1	NA			NA			NA			NA			<7.4		1
Benzene	NA			<0.14		1	NA			NA			NA			<0.15		1	NA			NA			NA			NA			0.45	J	1
Bromochloromethane	NA			<0.57		1	NA			NA			NA			<0.57		1	NA			NA			NA			NA			<0.58		1
Bromodichloromethane	NA			<0.24		1	NA			NA			NA			<0.24		1	NA			NA			NA			NA			<0.25		1
Bromoform	NA			<0.82		1	NA			NA			NA			<0.83		1	NA			NA			NA			NA			<0.85		1
Bromomethane	NA			<0.43		1	NA			NA			NA			<0.43		1	NA			NA			NA			NA			<0.44		1
2-Butanone (MEK)	NA			<4.7		1	NA			NA			NA			<4.7		1	NA			NA			NA			NA			<4.9		1
Carbon disulfide	NA			<0.21		1	NA			NA			NA			2.1	J	1	NA			NA			NA			NA			<0.22		1
Carbon tetrachloride	NA			<0.38		1	NA			NA			NA			<0.38		1	NA			NA			NA			NA			<0.39		1
Chlorobenzene	NA			<0.35		1	NA			NA			NA			<0.35		1	NA			NA			NA			NA			<0.36		1
Chloroethane	NA			<0.44		1	NA			NA			NA			<0.45		1	NA			NA			NA			NA			<0.46		1
Chloroform	NA			<0.53		1	NA			NA			NA			<0.53		1	NA			NA			NA			NA			<0.54		1
Chloromethane	NA			<0.68		1	NA			NA			NA			<0.68		1	NA			NA			NA			NA			<0.70		1
Cyclohexane	NA			<0.41		1	NA			NA			NA			<0.41		1	NA			NA			NA			NA			<0.42		1
1,2-Dibromo-3-chloropropane	NA			<1.6		1	NA			NA			NA			<1.7		1	NA			NA			NA			NA			<1.7		1
Dibromochloromethane	NA			<0.18		1	NA			NA			NA			<0.18		1	NA			NA			NA			NA			<0.19		1
1,2-Dibromoethane	NA			<0.26		1	NA			NA			NA			<0.26		1	NA			NA			NA			NA			<0.27		1
1,2-Dichlorobenzene	NA			<0.30		1	NA			NA			NA			<0.30		1	NA			NA			NA			NA			<0.31		1
1,3-Dichlorobenzene	NA			<0.21		1	NA			NA			NA			<0.21		1	NA			NA			NA			NA			<0.22		1
1,4-Dichlorobenzene	NA			<0.19		1	NA			NA			NA			<0.19		1	NA			NA			NA			NA			<0.19		1
Dichlorodifluoromethane	NA			<0.35		1	NA			NA			NA			<0.35		1	NA			NA			NA			NA			<0.36		1
1,1-Dichloroethane	NA			<0.24		1	NA			NA			NA			<0.24		1	NA			NA			NA			NA			<0.24		1
1,2-Dichloroethane	NA			<0.20		1	NA			NA			NA			<0.20		1	NA			NA			NA			NA			<0.20		1
1,1-Dichloroethene	NA			<0.67		1	NA			NA			NA			<0.67		1	NA			NA			NA			NA			<0.69		1
cis-1,2-Dichloroethene	NA			<0.35		1	NA			NA			NA			<0.35		1	NA			NA			NA			NA			<0.36		1
trans-1,2-Dichloroethene	NA			<0.46		1	NA			NA			NA			<0.46		1	NA			NA			NA			NA			<0.48		1
1,2-Dichloropropane	NA			<0.29		1	NA			NA			NA			<0.29		1	NA			NA			NA			NA			<0.30		1
cis-1,3-Dichloropropene	NA			<0.17		1	NA			NA			NA			<0.17		1	NA			NA			NA			NA			<0.17		1
trans-1,3-Dichloropropene	NA			<0.37		1	NA			NA			NA			<0.37		1	NA			NA			NA			NA			<0.38		1
1,4-Dioxane	NA			<63		1	NA			NA			NA			<64		1	NA			NA			NA			NA			<65		1
Ethylbenzene	NA			<0.16		1	NA			NA			NA			<0.16		1	NA			NA			NA			NA			0.23	J	1
Freon 113	NA			<0.78		1	NA			NA			NA			<0.78		1	NA			NA			NA			NA			<0.80		1
2-Hexanone	NA			<2.7		1	NA			NA			NA			<2.7		1	NA			NA			NA			NA			<2.8		1
Isopropylbenzene	NA			<0.15		1	NA			NA			NA			<0.15		1	NA			NA			NA			NA			<0.15		1
Methyl Acetate	NA			<2.4		1	NA			NA			NA			<2.4		1	NA			NA			NA			NA			<2.5		1
Methylcyclohexane	NA			<0.27		1	NA			NA			NA			<0.27		1	NA			NA			NA			NA			<0.27		1
Methyl Tert Butyl Ether	NA			<0.19		1	NA			NA			NA			<0.20		1	NA			NA			NA			NA			<0.20		1
4-Methyl-2-pentanone(MIBK)	NA			<2.9		1	NA			NA			NA			<2.9		1	NA			NA			NA			NA			<2.9		1
Methylene chloride	NA			<0.25		1	NA			NA			NA			<0.25		1	NA			NA			NA			NA			<0.26		1
Styrene	NA			<0.20		1	NA			NA			NA			<0.20		1	NA			NA			NA			NA			<0.21		1
1,1,2,2-Tetrachloroethane	NA			<0.19		1	NA			NA			NA			<0.20		1	NA			NA			NA			NA			<0.20		1
Tetrachloroethene	NA			<0.21		1	NA			NA			NA			1.1	J	1	NA			NA			NA			NA			5.1	J	1
Toluene	NA			<0.41		1	NA			NA			NA			<0.41		1	NA			NA			NA			NA			<0.42		1
1,2,3-Trichlorobenzene	NA			<0.48		1	NA			NA			NA			<0.48		1	NA			NA			NA			NA			<0.49		1
1,2,4-Trichlorobenzene	NA			<0.37		1	NA			NA			NA			<0.37		1	NA			NA			NA			NA			<0.38		1
1,1,1-Trichloroethane	NA			<0.26		1	NA			NA			NA			<0.26		1	NA			NA			NA			NA			<0.27		1
1,1,2-Trichloroethane	NA			<0.47		1	NA			NA			NA			<0.47		1	NA			NA			NA			NA			<0.49		1
Trichloroethene	NA			<0.27		1	NA			NA			NA			<0.27		1	NA			NA			NA			NA			<0.28		1
Trichlorofluoromethane	NA			<0.53		1	NA			NA			NA			<0.53		1	NA			NA			NA			NA			<0.54		1
Vinyl chloride	NA			<0.50		1	NA			NA			NA			<0.50		1	NA			NA			NA			NA			<0.52		1
m,p-Xylene	NA			<0.34		1	NA			NA			NA			<0.34		1	NA			NA			NA			NA			0.59	J	1
o-Xylene	NA			<0.20		1	NA			NA			NA			<0.20		1	NA			NA			NA			NA			<0.21		1
Xylene (total)	NA			<0.20		1	NA			NA			NA			<0.20		1	NA			NA			NA			NA			0.59	J	1
Total Confident Conc.	0			0			0			0			0			15.7			0			0			0			0			6.96		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC4FS1-COMP(0-4)	GC4FS1-COMP(0-4)			GC4PH1-COMP(0-4)			GC4PH2-COMP(0-4)			GC5FS1-COMP(0-4)			GC5FS1-COMP(0-4)			GC5PH1-COMP(0-4)			GC5PH2-COMP(0-4)			GC5PH3-COMP(0-4)			GC6FS1-COMP(0-4)			GC6FS1-COMP(0-4)		
Lab Sample ID	JA83311-2A	JA83311-2			JA83311-1			JA83311-3			JA83311-8A			JA83311-8			JA83311-7			JA83311-9			JA83311-10			JA83311-5A			JA83311-5		
Date Sampled	8/10/2011	8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																														
GC/MS Semi-volatiles (ppb)																														
2-Chlorophenol	NA	<35	1	NA			NA			NA			<31		1	NA			NA			NA			NA			<32		1
4-Chloro-3-methyl phenol	NA	<35	1	NA			NA			NA			<31		1	NA			NA			NA			NA			<32		1
2,4-Dichlorophenol	NA	<56	1	NA			NA			NA			<49		1	NA			NA			NA			NA			<52		1
2,4-Dimethylphenol	NA	98.8	J 1	NA			NA			NA			<51		1	NA			NA			NA			NA			71.2	J	1
2,4-Dinitrophenol	NA	<42	1	NA			NA			NA			<37		1	NA			NA			NA			NA			<39		1
4,6-Dinitro-o-cresol	NA	<42	1	NA			NA			NA			<37		1	NA			NA			NA			NA			<39		1
2-Methylphenol	NA	<39	1	NA			NA			NA			<35		1	NA			NA			NA			NA			<37		1
3&4-Methylphenol	NA	138	1	NA			NA			NA			<39		1	NA			NA			NA			NA			<41		1
2-Nitrophenol	NA	<37	1	NA			NA			NA			<32		1	NA			NA			NA			NA			<34		1
4-Nitrophenol	NA	<58	1	NA			NA			NA			<52		1	NA			NA			NA			NA			<54		1
Pentachlorophenol	NA	<59	1	NA			NA			NA			<52		1	NA			NA			NA			NA			<55		1
Phenol	NA	<36	1	NA			NA			NA			<32		1	NA			NA			NA			NA			<34		1
2,3,4,6-Tetrachlorophenol	NA	<36	1	NA			NA			NA			<32		1	NA			NA			NA			NA			<33		1
2,4,5-Trichlorophenol	NA	<40	1	NA			NA			NA			<36		1	NA			NA			NA			NA			<37		1
2,4,6-Trichlorophenol	NA	<32	1	NA			NA			NA			<29		1	NA			NA			NA			NA			<30		1
Acenaphthene	NA	719	1	NA			NA			NA			534		1	NA			NA			NA			NA			2440		1
Acenaphthylene	NA	454	1	NA			NA			NA			268		1	NA			NA			NA			NA			1890		1
Acetophenone	NA	<6.1	1	NA			NA			NA			<5.4		1	NA			NA			NA			NA			<5.6		1
Anthracene	NA	2240	1	NA			NA			NA			1280		1	NA			NA			NA			NA			5310		20
Atrazine	NA	<6.8	1	NA			NA			NA			<6.0		1	NA			NA			NA			NA			<6.3		1
Benzo(a)anthracene	NA	7260	10	NA			NA			NA			2880		5	NA			NA			NA			NA			14400		20
Benzo(a)pyrene	NA	7800	10	NA			NA			NA			3010		1	NA			NA			NA			NA			12800		20
Benzo(b)fluoranthene	NA	9060	10	NA			NA			NA			2340		5	NA			NA			NA			NA			11800		20
Benzo(g,h,i)perylene	NA	4970	10	NA			NA			NA			1870		1	NA			NA			NA			NA			9500		20
Benzo(k)fluoranthene	NA	4580	10	NA			NA			NA			1900		5	NA			NA			NA			NA			10100		20
4-Bromophenyl phenyl ether	NA	<13	1	NA			NA			NA			<11		1	NA			NA			NA			NA			<12		1
Butyl benzyl phthalate	NA	<20	1	NA			NA			NA			<18		1	NA			NA			NA			NA			<19		1
1,1'-Biphenyl	NA	60.0	J 1	NA			NA			NA			38.0	J	1	NA			NA			NA			NA			186		1
Benzaldehyde	NA	<8.0	1	NA			NA			NA			<7.0		1	NA			NA			NA			NA			<7.4		1
2-Chloronaphthalene	NA	<11	1	NA			NA			NA			<9.5		1	NA			NA			NA			NA			<9.9		1
4-Chloroaniline	NA	<11	1	NA			NA			NA			<9.8		1	NA			NA			NA			NA			<10		1
Carbazole	NA	455	1	NA			NA			NA			528		1	NA			NA			NA			NA			1880		1
Caprolactam	NA	<11	1	NA			NA			NA			<9.6		1	NA			NA			NA			NA			<10		1
Chrysene	NA	8040	10	NA			NA			NA			2670		5	NA			NA			NA			NA			15500		20
bis(2-Chloroethoxy)methane	NA	<14	1	NA			NA			NA			<12		1	NA			NA			NA			NA			<13		1
bis(2-Chloroethyl)ether	NA	<10	1	NA			NA			NA			<9.2		1	NA			NA			NA			NA			<9.6		1
bis(2-Chloroisopropyl)ether	NA	<10	1	NA			NA			NA			<9.1		1	NA			NA			NA			NA			<9.5		1
4-Chlorophenyl phenyl ether	NA	<10	1	NA			NA			NA			<9.2		1	NA			NA			NA			NA			<9.6		1
2,4-Dinitrotoluene	NA	<15	1	NA			NA			NA			<13		1	NA			NA			NA			NA			<14		1
2,6-Dinitrotoluene	NA	<13	1	NA			NA			NA			<12		1	NA			NA			NA			NA			<12		1
3,3'-Dichlorobenzidine	NA	<8.8	1	NA			NA			NA			<7.8		1	NA			NA			NA			NA			<8.1		1
Dibenzo(a,h)anthracene	NA	3000	1	NA			NA			NA			684		1	NA			NA			NA			NA			3100		20
Dibenzofuran	NA	373	1	NA			NA			NA			261		1	NA			NA			NA			NA			1450		1
Di-n-butyl phthalate	NA	<7.7	1	NA			NA			NA			42.2	J	1	NA			NA			NA			NA			<7.1		1
Di-n-octyl phthalate	NA	<17	1	NA			NA			NA			<15		1	NA			NA			NA			NA			<16		1
Diethyl phthalate	NA	<12	1	NA			NA			NA			<10		1	NA			NA			NA			NA			<11		1
Dimethyl phthalate	NA	76.4	1	NA			NA			NA			33.0	J	1	NA			NA			NA			NA			<11		1
bis(2-Ethylhexyl)phthalate	NA	<31	1	NA			NA			NA			176		1	NA			NA			NA			NA			<28		1
Fluoranthene	NA	12400	10	NA			NA			NA			5720		5	NA			NA			NA			NA			24200		20
Fluorene	NA	484	1	NA			NA			NA			469		1	NA			NA			NA			NA			2130		1
Hexachlorobenzene	NA	<11	1	NA			NA			NA			<10		1	NA			NA			NA			NA			<10		1
Hexachlorobutadiene	NA	<9.6	1	NA			NA			NA			<8.5		1	NA			NA			NA			NA			<8.9		1
Hexachlorocyclopentadiene	NA	<35	1	NA			NA			NA			<31		1	NA			NA			NA			NA			<33		1
Hexachloroethane	NA	<9.6	1	NA			NA			NA			<8.5		1	NA			NA			NA			NA			<8.9		1

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC4FS1-COMP(0-4)			GC4FS1-COMP(0-4)			GC4PH1-COMP(0-4)			GC4PH2-COMP(0-4)			GC5FS1-COMP(0-4)			GC5FS1-COMP(0-4)			GC5PH1-COMP(0-4)			GC5PH2-COMP(0-4)			GC5PH3-COMP(0-4)			GC6FS1-COMP(0-4)			GC6FS1-COMP(0-4)		
Lab Sample ID	JA83311-2A			JA83311-2			JA83311-1			JA83311-3			JA83311-8A			JA83311-8			JA83311-7			JA83311-9			JA83311-10			JA83311-5A			JA83311-5		
Date Sampled	8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
Indeno(1,2,3-cd)pyrene	NA			4230		10	NA			NA			NA			1720		1	NA			NA			NA			NA			8160		20
Isophorone	NA			<9.3		1	NA			NA			NA			<8.2		1	NA			NA			NA			NA			<8.6		1
2-Methylnaphthalene	NA			154		1	NA			NA			NA			116		1	NA			NA			NA			NA			587		1
2-Nitroaniline	NA			<15		1	NA			NA			NA			<13		1	NA			NA			NA			NA			<14		1
3-Nitroaniline	NA			<14		1	NA			NA			NA			<12		1	NA			NA			NA			NA			<13		1
4-Nitroaniline	NA			<13		1	NA			NA			NA			<12		1	NA			NA			NA			NA			<12		1
Naphthalene	NA			295		1	NA			NA			NA			168		1	NA			NA			NA			NA			1050		1
Nitrobenzene	NA			<10		1	NA			NA			NA			<8.9		1	NA			NA			NA			NA			<9.3		1
N-Nitroso-di-n-propylamine	NA			<8.4		1	NA			NA			NA			<7.5		1	NA			NA			NA			NA			<7.8		1
N-Nitrosodiphenylamine	NA			<21		1	NA			NA			NA			<18		1	NA			NA			NA			NA			<19		1
Phenanthrene	NA			6120		10	NA			NA			NA			4060		5	NA			NA			NA			NA			23100		20
Pyrene	NA			13300		10	NA			NA			NA			5720		5	NA			NA			NA			NA			32200		20
1,2,4,5-Tetrachlorobenzene	NA			<11		1	NA			NA			NA			<9.4		1	NA			NA			NA			NA			<9.8		1
Total Confident Conc.	0			86307.2			0			0			0			36487.2			0			0			0			0			181854.2		
GC Semi-volatiles (ppb) (SW846 8082A)																																	
Aroclor 1016	NA			<8.7		1	NA			NA			NA			<8.1		1	NA			NA			NA			NA			<8.4		1
Aroclor 1221	NA			<20		1	NA			NA			NA			<19		1	NA			NA			NA			NA			<19		1
Aroclor 1232	NA			<17		1	NA			NA			NA			<16		1	NA			NA			NA			NA			<16		1
Aroclor 1242	NA			<11		1	NA			NA			NA			<9.9		1	NA			NA			NA			NA			<10		1
Aroclor 1248	NA			<10		1	NA			NA			NA			101		1	NA			NA			NA			NA			<9.8		1
Aroclor 1254	NA			<16		1	NA			NA			NA			<15		1	NA			NA			NA			NA			<15		1
Aroclor 1260	NA			<11		1	NA			NA			NA			123		1	NA			NA			NA			NA			68.7		1
Aroclor 1268	NA			<9.9		1	NA			NA			NA			<9.2		1	NA			NA			NA			NA			<9.5		1
Aroclor 1262	NA			<11		1	NA			NA			NA			<9.9		1	NA			NA			NA			NA			<10		1
TPH-DRO (C10-C28) (mg/kg)	NA			NA			486		1	148		1	NA			NA			129		1	849		1	597		1	NA			NA		
Total Confident Conc.	0			0			486			148			0			224			129			849			597			0			68.7		
Metals Analysis (ppm)																																	
Antimony	<2.3		1	NA			NA			NA			<2.1		1	NA			NA			NA			NA			<2.2		1	NA		
Arsenic	13.4		1	NA			NA			NA			9.5		1	NA			NA			NA			NA			15.3		1	NA		
Barium	144		1	NA			NA			NA			138		1	NA			NA			NA			NA			248		1	NA		
Beryllium	0.38		1	NA			NA			NA			0.43		1	NA			NA			NA			NA			0.83		1	NA		
Cadmium	<0.57		1	NA			NA			NA			1.9		1	NA			NA			NA			NA			<0.55		1	NA		
Chromium	15.9		1	NA			NA			NA			20.0		1	NA			NA			NA			NA			29.3		1	NA		
Copper	57.2		1	NA			NA			NA			164		1	NA			NA			NA			NA			55.2		1	NA		
Lead	272		1	NA			NA			NA			117		1	NA			NA			NA			NA			191		1	NA		
Mercury	0.60		1	NA			NA			NA			0.16		1	NA			NA			NA			NA			0.16		1	NA		
Nickel	16.8		1	NA			NA			NA			26.4		1	NA			NA			NA			NA			25.0		1	NA		
Selenium	<2.3		1	NA			NA			NA			<2.1		1	NA			NA			NA			NA			<2.2		1	NA		
Silver	<0.57		1	NA			NA			NA			<0.52		1	NA			NA			NA			NA			<0.55		1	NA		
Thallium	<1.1		1	NA			NA			NA			<1.0		1	NA			NA			NA			NA			<1.1		1	NA		
Vanadium	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Zinc	132		1	NA			NA			NA			255		1	NA			NA			NA			NA			135		1	NA		
Metals Analysis LEACHATE (ppm)																																	
Arsenic	<0.50		1	<0.50		1	NA			NA			<0.50		1	<0.50		1	NA			NA			NA			<0.50		1	<0.50		1
Barium	<1.0		1	<1.0		1	NA			NA			<1.0		1	<1.0		1	NA			NA			NA			<1.0		1	<1.0		1
Cadmium	<0.0050		1	<0.0050		1	NA			NA			<0.0050		1	<0.0050		1	NA			NA			NA			<0.0050		1	<0.0050		1
Chromium	<0.010		1	<0.010		1	NA			NA			<0.010		1	<0.010		1	NA			NA			NA			0.038		1	0.038		1
Copper	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Lead	<0.50		1	<0.50		1	NA			NA			<0.50		1	<0.50		1	NA			NA			NA			<0.50		1	<0.50		1
Mercury	<0.00020		1	<0.00020		1	NA			NA			<0.00020		1	<0.00020		1	NA			NA			NA			<0.00020		1	<0.00020		1
Nickel	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Selenium	<0.50		1	<0.50		1	NA			NA			<0.50		1	<0.50		1	NA			NA			NA			<0.50		1	<0.50		1
Silver	<0.010		1	<0.010		1	NA			NA			<0.010		1	<0.010		1	NA			NA			NA			<0.010		1	<0.010		1
Zinc	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC4FS1-COMP(0-4)			GC4FS1-COMP(0-4)			GC4PH1-COMP(0-4)			GC4PH2-COMP(0-4)			GC5FS1-COMP(0-4)			GC5FS1-COMP(0-4)			GC5PH1-COMP(0-4)			GC5PH2-COMP(0-4)			GC5PH3-COMP(0-4)			GC6FS1-COMP(0-4)			GC6FS1-COMP(0-4)		
Lab Sample ID	JA83311-2A			JA83311-2			JA83311-1			JA83311-3			JA83311-8A			JA83311-8			JA83311-7			JA83311-9			JA83311-10			JA83311-5A			JA83311-5		
Date Sampled	8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
General Chemistry (ppm)																																	
pH (su)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Corrosivity as pH (su)	NA			9.21	NC	1	NA			NA			NA			11.14	NC	1	NA			NA			NA			NA			9.47	NC	1
Redox Potential Vs H2 (mv)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chromium, Hexavalent	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Cyanide	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Cyanide Reactivity	NA			<12		1	NA			NA			NA			<11		1	NA			NA			NA			NA			<11		1
Sulfide Reactivity	NA			<120		1	NA			NA			NA			<110		1	NA			NA			NA			NA			<110		1
Ignitability (Flashpoint) (Deg. F)	NA			>200		1	NA			NA			NA			>200		1	NA			NA			NA			NA			>200		1
Solids, Percent (%)	NA			86.6		1	89.4		1	88.7		1	NA			93.3		1	92.2		1	86.0		1	84.8		1	NA			89.2		1
GC/MS Volatiles (ppm) LEACHATE																																	
Benzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2-Butanone (MEK)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Carbon tetrachloride	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chloroform	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,4-Dichlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,2-Dichloroethane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,1-Dichloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Tetrachloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Trichloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Vinyl chloride	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
GC/MS Semi-volatiles (ppm) LEACHATE																																	
2-Methylphenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
3&4-Methylphenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-Trichlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,6-Trichlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,4-Dichlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-Dinitrotoluene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachlorobutadiene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachloroethane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Nitrobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pyridine	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
GC Semi-volatiles (ppm) (SW846 8151) LEACHATE																																	
2,4-D	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chlordane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Notes:
U - Below detection limit
J - Estimated value detected above quantitative method detection limit (MDL)
& below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC6PH1-COMP(0-4)			GC6PH2-COMP(0-4)			TPH-14-COMP(0-4)			TPH-15-COMP(0-4)			PCBFS-1-COMP(2'-4'			PCBFS-1-COMP(2'-4'			PCBVOC-1-GRAB(2'-4			GC1FS-1-COMP(0-4)			GC1FS-1-COMP(0-4)			GC1PH-2-COMP(0-4)			GC2FS-1-COMP(0-4)		
Lab Sample ID	**JA83311-4**			**JA83311-6**			**JA83311-11**			**JA83311-12**			**JA83304-1A**			**JA83304-1**			**JA83304-2**			**JA83310-2A**			**JA83310-2**			**JA83310-5**			**JA83310-4A**		
Date Sampled	**8/10/2011**			**8/10/2011**			**8/10/2011**			**8/10/2011**			**8/10/2011**			**8/10/2011**			**8/10/2011**			**8/9/2011**			**8/9/2011**			**8/9/2011**			**8/9/2011**		
	Result	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**	**Result**	**Q**	**D**
GC/MS Volatiles (ppb)																																
Acetone	NA			NA			NA			NA			NA			NA			17.9		1	NA			<7.4		1	NA			NA		
Benzene	NA			NA			NA			NA			NA			NA			<0.15		1	NA			0.61	J	1	NA			NA		
Bromochloromethane	NA			NA			NA			NA			NA			NA			<0.57		1	NA			<0.58		1	NA			NA		
Bromodichloromethane	NA			NA			NA			NA			NA			NA			<0.25		1	NA			<0.25		1	NA			NA		
Bromoform	NA			NA			NA			NA			NA			NA			<0.83		1	NA			<0.84		1	NA			NA		
Bromomethane	NA			NA			NA			NA			NA			NA			<0.43		1	NA			<0.44		1	NA			NA		
2-Butanone (MEK)	NA			NA			NA			NA			NA			NA			<4.8		1	NA			<4.8		1	NA			NA		
Carbon disulfide	NA			NA			NA			NA			NA			NA			<0.22		1	NA			<0.22		1	NA			NA		
Carbon tetrachloride	NA			NA			NA			NA			NA			NA			<0.38		1	NA			<0.38		1	NA			NA		
Chlorobenzene	NA			NA			NA			NA			NA			NA			<0.35		1	NA			<0.36		1	NA			NA		
Chloroethane	NA			NA			NA			NA			NA			NA			<0.45		1	NA			<0.45		1	NA			NA		
Chloroform	NA			NA			NA			NA			NA			NA			<0.53		1	NA			<0.54		1	NA			NA		
Chloromethane	NA			NA			NA			NA			NA			NA			<0.69		1	NA			<0.69		1	NA			NA		
Cyclohexane	NA			NA			NA			NA			NA			NA			<0.42		1	NA			<0.42		1	NA			NA		
1,2-Dibromo-3-chloropropane	NA			NA			NA			NA			NA			NA			<1.7		1	NA			<1.7		1	NA			NA		
Dibromochloromethane	NA			NA			NA			NA			NA			NA			<0.19		1	NA			<0.19		1	NA			NA		
1,2-Dibromoethane	NA			NA			NA			NA			NA			NA			<0.26		1	NA			<0.26		1	NA			NA		
1,2-Dichlorobenzene	NA			NA			NA			NA			NA			NA			<0.31		1	NA			<0.31		1	NA			NA		
1,3-Dichlorobenzene	NA			NA			NA			NA			NA			NA			<0.21		1	NA			<0.21		1	NA			NA		
1,4-Dichlorobenzene	NA			NA			NA			NA			NA			NA			<0.19		1	NA			<0.19		1	NA			NA		
Dichlorodifluoromethane	NA			NA			NA			NA			NA			NA			<0.35		1	NA			<0.36		1	NA			NA		
1,1-Dichloroethane	NA			NA			NA			NA			NA			NA			<0.24		1	NA			<0.24		1	NA			NA		
1,2-Dichloroethane	NA			NA			NA			NA			NA			NA			<0.20		1	NA			<0.20		1	NA			NA		
1,1-Dichloroethene	NA			NA			NA			NA			NA			NA			<0.68		1	NA			<0.68		1	NA			NA		
cis-1,2-Dichloroethene	NA			NA			NA			NA			NA			NA			<0.35		1	NA			<0.36		1	NA			NA		
trans-1,2-Dichloroethene	NA			NA			NA			NA			NA			NA			<0.47		1	NA			<0.47		1	NA			NA		
1,2-Dichloropropane	NA			NA			NA			NA			NA			NA			<0.29		1	NA			<0.30		1	NA			NA		
cis-1,3-Dichloropropene	NA			NA			NA			NA			NA			NA			<0.17		1	NA			<0.17		1	NA			NA		
trans-1,3-Dichloropropene	NA			NA			NA			NA			NA			NA			<0.37		1	NA			<0.37		1	NA			NA		
1,4-Dioxane	NA			NA			NA			NA			NA			NA			<64		1	NA			<65		1	NA			NA		
Ethylbenzene	NA			NA			NA			NA			NA			NA			<0.16		1	NA			<0.16		1	NA			NA		
Freon 113	NA			NA			NA			NA			NA			NA			<0.79		1	NA			<0.80		1	NA			NA		
2-Hexanone	NA			NA			NA			NA			NA			NA			<2.7		1	NA			<2.8		1	NA			NA		
Isopropylbenzene	NA			NA			NA			NA			NA			NA			<0.15		1	NA			<0.15		1	NA			NA		
Methyl Acetate	NA			NA			NA			NA			NA			NA			22.8		1	NA			<2.5		1	NA			NA		
Methylcyclohexane	NA			NA			NA			NA			NA			NA			<0.27		1	NA			<0.27		1	NA			NA		
Methyl Tert Butyl Ether	NA			NA			NA			NA			NA			NA			<0.20		1	NA			<0.20		1	NA			NA		
4-Methyl-2-pentanone(MIBK)	NA			NA			NA			NA			NA			NA			<2.9		1	NA			<2.9		1	NA			NA		
Methylene chloride	NA			NA			NA			NA			NA			NA			<0.25		1	NA			<0.26		1	NA			NA		
Styrene	NA			NA			NA			NA			NA			NA			<0.20		1	NA			<0.21		1	NA			NA		
1,1,2,2-Tetrachloroethane	NA			NA			NA			NA			NA			NA			<0.20		1	NA			<0.20		1	NA			NA		
Tetrachloroethene	NA			NA			NA			NA			NA			NA			<0.21		1	NA			<0.21		1	NA			NA		
Toluene	NA			NA			NA			NA			NA			NA			<0.42		1	NA			0.75	J	1	NA			NA		
1,2,3-Trichlorobenzene	NA			NA			NA			NA			NA			NA			<0.48		1	NA			<0.49		1	NA			NA		
1,2,4-Trichlorobenzene	NA			NA			NA			NA			NA			NA			<0.38		1	NA			<0.38		1	NA			NA		
1,1,1-Trichloroethane	NA			NA			NA			NA			NA			NA			<0.27		1	NA			<0.27		1	NA			NA		
1,1,2-Trichloroethane	NA			NA			NA			NA			NA			NA			<0.48		1	NA			<0.48		1	NA			NA		
Trichloroethene	NA			NA			NA			NA			NA			NA			<0.27		1	NA			<0.27		1	NA			NA		
Trichlorofluoromethane	NA			NA			NA			NA			NA			NA			<0.53		1	NA			<0.54		1	NA			NA		
Vinyl chloride	NA			NA			NA			NA			NA			NA			<0.51		1	NA			<0.51		1	NA			NA		
m,p-Xylene	NA			NA			NA			NA			NA			NA			<0.35		1	NA			0.77	J	1	NA			NA		
o-Xylene	NA			NA			NA			NA			NA			NA			<0.20		1	NA			0.31	J	1	NA			NA		
Xylene (total)	NA			NA			NA			NA			NA			NA			<0.20		1	NA			1.1		1	NA			NA		
Total Confident Conc.	0			0			0			0			0			0			40.7			0			3.54			0			0		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC6PH1-COMP(0-4)			GC6PH2-COMP(0-4)			TPH-14-COMP(0-4)			TPH-15-COMP(0-4)			PCBFS-1-COMP(2'-4			PCBFS-1-COMP(2'-4			PCBVOC-1-GRAB(2'-4			GC1FS-1-COMP(0-4)			GC1FS-1-COMP(0-4)			GC1PH-2-COMP(0-4)			GC2FS-1-COMP(0-4)		
Lab Sample ID	JA83311-4			JA83311-6			JA83311-11			JA83311-12			JA83304-1A			JA83304-1			JA83304-2			JA83310-2A			JA83310-2			JA83310-5			JA83310-4A		
Date Sampled	8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
GC/MS Semi-volatiles (ppb)																																	
2-Chlorophenol	NA			NA			NA			NA			NA			<35		1	NA			NA			<32		1	NA			NA		
4-Chloro-3-methyl phenol	NA			NA			NA			NA			NA			<34		1	NA			NA			<32		1	NA			NA		
2,4-Dichlorophenol	NA			NA			NA			NA			NA			<55		1	NA			NA			<51		1	NA			NA		
2,4-Dimethylphenol	NA			NA			NA			NA			NA			<57		1	NA			NA			626		1	NA			NA		
2,4-Dinitrophenol	NA			NA			NA			NA			NA			<42		1	NA			NA			<39		1	NA			NA		
4,6-Dinitro-o-cresol	NA			NA			NA			NA			NA			<42		1	NA			NA			<39		1	NA			NA		
2-Methylphenol	NA			NA			NA			NA			NA			<39		1	NA			NA			132		1	NA			NA		
3&4-Methylphenol	NA			NA			NA			NA			NA			<43		1	NA			NA			222		1	NA			NA		
2-Nitrophenol	NA			NA			NA			NA			NA			<36		1	NA			NA			<33		1	NA			NA		
4-Nitrophenol	NA			NA			NA			NA			NA			<58		1	NA			NA			<53		1	NA			NA		
Pentachlorophenol	NA			NA			NA			NA			NA			<59		1	NA			NA			<54		1	NA			NA		
Phenol	NA			NA			NA			NA			NA			<36		1	NA			NA			<33		1	NA			NA		
2,3,4,6-Tetrachlorophenol	NA			NA			NA			NA			NA			<35		1	NA			NA			<33		1	NA			NA		
2,4,5-Trichlorophenol	NA			NA			NA			NA			NA			<40		1	NA			NA			<37		1	NA			NA		
2,4,6-Trichlorophenol	NA			NA			NA			NA			NA			<32		1	NA			NA			<30		1	NA			NA		
Acenaphthene	NA			NA			NA			NA			NA			1330		1	NA			NA			7540		50	NA			NA		
Acenaphthylene	NA			NA			NA			NA			NA			1070		1	NA			NA			5100		50	NA			NA		
Acetophenone	NA			NA			NA			NA			NA			<6.0		1	NA			NA			<5.6		1	NA			NA		
Anthracene	NA			NA			NA			NA			NA			4580		10	NA			NA			19700		50	NA			NA		
Atrazine	NA			NA			NA			NA			NA			<6.7		1	NA			NA			<6.2		1	NA			NA		
Benzo(a)anthracene	NA			NA			NA			NA			NA			7720		10	NA			NA			22100		50	NA			NA		
Benzo(a)pyrene	NA			NA			NA			NA			NA			7960		10	NA			NA			14500		50	NA			NA		
Benzo(b)fluoranthene	NA			NA			NA			NA			NA			7350		10	NA			NA			9870		50	NA			NA		
Benzo(g,h,i)perylene	NA			NA			NA			NA			NA			6150		10	NA			NA			6050		50	NA			NA		
Benzo(k)fluoranthene	NA			NA			NA			NA			NA			5050		10	NA			NA			15100		50	NA			NA		
4-Bromophenyl phenyl ether	NA			NA			NA			NA			NA			<12		1	NA			NA			<11		1	NA			NA		
Butyl benzyl phthalate	NA			NA			NA			NA			NA			<20		1	NA			NA			<18		1	NA			NA		
1,1'-Biphenyl	NA			NA			NA			NA			NA			113		1	NA			NA			2250		1	NA			NA		
Benzaldehyde	NA			NA			NA			NA			NA			<7.9		1	NA			NA			<7.3		1	NA			NA		
2-Chloronaphthalene	NA			NA			NA			NA			NA			<11		1	NA			NA			<9.8		1	NA			NA		
4-Chloroaniline	NA			NA			NA			NA			NA			<11		1	NA			NA			<10		1	NA			NA		
Carbazole	NA			NA			NA			NA			NA			1080		1	NA			NA			7330		50	NA			NA		
Caprolactam	NA			NA			NA			NA			NA			<11		1	NA			NA			<9.9		1	NA			NA		
Chrysene	NA			NA			NA			NA			NA			8260		10	NA			NA			19600		50	NA			NA		
bis(2-Chloroethoxy)methane	NA			NA			NA			NA			NA			<14		1	NA			NA			<13		1	NA			NA		
bis(2-Chloroethyl)ether	NA			NA			NA			NA			NA			<10		1	NA			NA			<9.5		1	NA			NA		
bis(2-Chloroisopropyl)ether	NA			NA			NA			NA			NA			<10		1	NA			NA			<9.4		1	NA			NA		
4-Chlorophenyl phenyl ether	NA			NA			NA			NA			NA			<10		1	NA			NA			<9.5		1	NA			NA		
2,4-Dinitrotoluene	NA			NA			NA			NA			NA			<15		1	NA			NA			<14		1	NA			NA		
2,6-Dinitrotoluene	NA			NA			NA			NA			NA			<13		1	NA			NA			<12		1	NA			NA		
3,3'-Dichlorobenzidine	NA			NA			NA			NA			NA			<8.7		1	NA			NA			<8.0		1	NA			NA		
Dibenzo(a,h)anthracene	NA			NA			NA			NA			NA			3240		1	NA			NA			2720		1	NA			NA		
Dibenzofuran	NA			NA			NA			NA			NA			1110		1	NA			NA			9970		50	NA			NA		
Di-n-butyl phthalate	NA			NA			NA			NA			NA			<7.6		1	NA			NA			<7.0		1	NA			NA		
Di-n-octyl phthalate	NA			NA			NA			NA			NA			<17		1	NA			NA			<15		1	NA			NA		
Diethyl phthalate	NA			NA			NA			NA			NA			<12		1	NA			NA			<11		1	NA			NA		
Dimethyl phthalate	NA			NA			NA			NA			NA			<12		1	NA			NA			<11		1	NA			NA		
bis(2-Ethylhexyl)phthalate	NA			NA			NA			NA			NA			164		1	NA			NA			<28		1	NA			NA		
Fluoranthene	NA			NA			NA			NA			NA			16700		10	NA			NA			41600		50	NA			NA		
Fluorene	NA			NA			NA			NA			NA			2410		1	NA			NA			17000		50	NA			NA		
Hexachlorobenzene	NA			NA			NA			NA			NA			<11		1	NA			NA			<10		1	NA			NA		
Hexachlorobutadiene	NA			NA			NA			NA			NA			<9.5		1	NA			NA			<8.8		1	NA			NA		
Hexachlorocyclopentadiene	NA			NA			NA			NA			NA			<35		1	NA			NA			<32		1	NA			NA		
Hexachloroethane	NA			NA			NA			NA			NA			<9.5		1	NA			NA			<8.8		1	NA			NA		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC6PH1-COMP(0-4)			GC6PH2-COMP(0-4)			TPH-14-COMP(0-4)			TPH-15-COMP(0-4)			PCBFS-1-COMP(2'-4			PCBFS-1-COMP(2'-4			PCBVOC-1-GRAB(2'-4			GC1FS-1-COMP(0-4)			GC1FS-1-COMP(0-4)			GC1PH-2-COMP(0-4			GC2FS-1-COMP(0-4)		
Lab Sample ID	JA83311-4			JA83311-6			JA83311-11			JA83311-12			JA83304-1A			JA83304-1			JA83304-2			JA83310-2A			JA83310-2			JA83310-5			JA83310-4A		
Date Sampled	8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																
Indeno(1,2,3-cd)pyrene	NA			NA			NA			NA			NA			5010		10	NA			NA			6330		50	NA			NA		
Isophorone	NA			NA			NA			NA			NA			<9.2		1	NA			NA			<8.5		1	NA			NA		
2-Methylnaphthalene	NA			NA			NA			NA			NA			368		1	NA			NA			10800		50	NA			NA		
2-Nitroaniline	NA			NA			NA			NA			NA			<15		1	NA			NA			<14		1	NA			NA		
3-Nitroaniline	NA			NA			NA			NA			NA			<14		1	NA			NA			<13		1	NA			NA		
4-Nitroaniline	NA			NA			NA			NA			NA			<13		1	NA			NA			<12		1	NA			NA		
Naphthalene	NA			NA			NA			NA			NA			505		1	NA			NA			17200		50	NA			NA		
Nitrobenzene	NA			NA			NA			NA			NA			383		1	NA			NA			<9.1		1	NA			NA		
N-Nitroso-di-n-propylamine	NA			NA			NA			NA			NA			<8.3		1	NA			NA			<7.7		1	NA			NA		
N-Nitrosodiphenylamine	NA			NA			NA			NA			NA			<20		1	NA			NA			<19		1	NA			NA		
Phenanthrene	NA			NA			NA			NA			NA			14000		10	NA			NA			60100		50	NA			NA		
Pyrene	NA			NA			NA			NA			NA			14900		10	NA			NA			35800		50	NA			NA		
1,2,4,5-Tetrachlorobenzene	NA			NA			NA			NA			NA			<11		1	NA			NA			<9.7		1	NA			NA		
Total Confident Conc.	0			0			0			0			0			109453			0			0			331640			0			0		
GC Semi-volatiles (ppb) (SW846 8082																																
Aroclor 1016	NA			NA			NA			NA			NA			<9.2		1	NA			NA			<8.5		1	NA			NA		
Aroclor 1221	NA			NA			NA			NA			NA			<21		1	NA			NA			<20		1	NA			NA		
Aroclor 1232	NA			NA			NA			NA			NA			<18		1	NA			NA			<17		1	NA			NA		
Aroclor 1242	NA			NA			NA			NA			NA			<11		1	NA			NA			<10		1	NA			NA		
Aroclor 1248	NA			NA			NA			NA			NA			<11		1	NA			NA			<9.9		1	NA			NA		
Aroclor 1254	NA			NA			NA			NA			NA			<16		1	NA			NA			<15		1	NA			NA		
Aroclor 1260	NA			NA			NA			NA			NA			623		1	NA			NA			<11		1	NA			NA		
Aroclor 1268	NA			NA			NA			NA			NA			<10		1	NA			NA			<9.6		1	NA			NA		
Aroclor 1262	NA			NA			NA			NA			NA			<11		1	NA			NA			<10		1	NA			NA		
TPH-DRO (C10-C28) (mg/kg)	219		1	144		1	128		1	203		1	NA			NA			NA			NA			NA			1310		1	NA		
Total Confident Conc.	219			144			128			203			0			623			0			0			0			1310			0		
Metals Analysis (ppm)																																
Antimony	NA			NA			NA			NA			<2.4		1	NA			NA			2.5		1	NA			NA			<2.3		1
Arsenic	NA			NA			NA			NA			10.8		1	NA			NA			17.0		1	NA			NA			11.7		1
Barium	NA			NA			NA			NA			164		1	NA			NA			182		1	NA			NA			218		1
Beryllium	NA			NA			NA			NA			0.34		1	NA			NA			0.31		1	NA			NA			0.36		1
Cadmium	NA			NA			NA			NA			<0.60		1	NA			NA			<0.57		1	NA			NA			2.1		1
Chromium	NA			NA			NA			NA			22.4		1	NA			NA			26.9		1	NA			NA			20.6		1
Copper	NA			NA			NA			NA			74.1		1	NA			NA			44.8		1	NA			NA			57.8		1
Lead	NA			NA			NA			NA			196		1	NA			NA			102		1	NA			NA			288		1
Mercury	NA			NA			NA			NA			0.48		1	NA			NA			0.34		1	NA			NA			1.6		5
Nickel	NA			NA			NA			NA			26.2		1	NA			NA			22.3		1	NA			NA			19.3		1
Selenium	NA			NA			NA			NA			<2.4		1	NA			NA			<2.3		1	NA			NA			<2.3		1
Silver	NA			NA			NA			NA			<0.60		1	NA			NA			<0.57		1	NA			NA			<0.57		1
Thallium	NA			NA			NA			NA			<1.2		1	NA			NA			<1.1		1	NA			NA			<1.1		1
Vanadium	NA			NA			NA			NA			30.9		1	NA			NA			NA			NA			NA			NA		
Zinc	NA			NA			NA			NA			256		1	NA			NA			182		1	NA			NA			256		1
Metals Analysis LEACHATE (ppm)																																
Arsenic	NA			NA			NA			NA			<0.50		1	<0.50		1	NA			<0.50		1	<0.50		1	NA			<0.50		1
Barium	NA			NA			NA			NA			<1.0		1	<1.0		1	NA			<1.0		1	<1.0		1	NA			<1.0		1
Cadmium	NA			NA			NA			NA			<0.0050		1	<0.0050		1	NA			<0.0050		1	<0.0050		1	NA			0.0063		1
Chromium	NA			NA			NA			NA			0.12		1	0.12		1	NA			0.010		1	0.010		1	NA			<0.010		1
Copper	NA			NA			NA			NA			<0.025		1	<0.025		1	NA			NA			NA			NA			NA		
Lead	NA			NA			NA			NA			<0.50		1	<0.50		1	NA			<0.50		1	<0.50		1	NA			<0.50		1
Mercury	NA			NA			NA			NA			<0.00020		1	<0.00020		1	NA			<0.00020		1	<0.00020		1	NA			<0.00020		1
Nickel	NA			NA			NA			NA			0.041		1	0.041		1	NA			NA			NA			NA			NA		
Selenium	NA			NA			NA			NA			<0.50		1	<0.50		1	NA			<0.50		1	<0.50		1	NA			<0.50		1
Silver	NA			NA			NA			NA			<0.010		1	<0.010		1	NA			<0.010		1	<0.010		1	NA			<0.010		1
Zinc	NA			NA			NA			NA			<0.30		1	<0.30		1	NA			NA			NA			NA			NA		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC6PH1-COMP(0-4)			GC6PH2-COMP(0-4)			TPH-14-COMP(0-4)			TPH-15-COMP(0-4)			PCBFS-1-COMP(2'-4			PCBFS-1-COMP(2'-4			PCBVOC-1-GRAB(2'-4			GC1FS-1-COMP(0-4)			GC1FS-1-COMP(0-4)			GC1PH-2-COMP(0-4			GC2FS-1-COMP(0-4)		
Lab Sample ID	JA83311-4			JA83311-6			JA83311-11			JA83311-12			JA83304-1A			JA83304-1			JA83304-2			JA83310-2A			JA83310-2			JA83310-5			JA83310-4A		
Date Sampled	8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/10/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
General Chemistry (ppm)																																	
pH (su)	NA			NA			NA			NA			NA			9.45		1	NA			NA			NA			NA			NA		
Corrosivity as pH (su)	NA			NA			NA			NA			NA			9.45 NC		1	NA			NA			10.12 NC		1	NA			NA		
Redox Potential Vs H2 (mv)	NA			NA			NA			NA			NA			285		1	NA			NA			NA			NA			NA		
Chromium, Hexavalent	NA			NA			NA			NA			NA			<0.48		1	NA			NA			NA			NA			NA		
Cyanide	NA			NA			NA			NA			<0.25		1	NA			NA			NA			NA			NA			NA		
Cyanide Reactivity	NA			NA			NA			NA			NA			<12		1	NA			NA			<11		1	NA			NA		
Sulfide Reactivity	NA			NA			NA			NA			NA			<120		1	NA			NA			<110		1	NA			NA		
Ignitability (Flashpoint) (Deg. F)	NA			NA			NA			NA			NA			>200		1	NA			NA			>200		1	NA			NA		
Solids, Percent (%)	91.8		1	87.4		1	87.3		1	85.0		1	NA			83.5		1	92.6		1	NA			90.0		1	88.5		1	NA		
GC/MS Volatiles (ppm) LEACHATE																																	
Benzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2-Butanone (MEK)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Carbon tetrachloride	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chloroform	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,4-Dichlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,2-Dichloroethane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,1-Dichloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Tetrachloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Trichloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Vinyl chloride	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
GC/MS Semi-volatiles (ppm) LEACHA																																	
2-Methylphenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
3&4-Methylphenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-Trichlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,6-Trichlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,4-Dichlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-Dinitrotoluene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachlorobutadiene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachloroethane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Nitrobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pyridine	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
GC Semi-volatiles (ppm) (SW846 8151																																	
2,4-D	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chlordane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Notes:
U - Below detection limit
J - Estimated value detected above qua
& below the quantitative reporting detec
D - Dilution factor
NA - Not analyzed

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC2FS-1-COMP(0-4)			GC2PH-1-COMP(0-4			GC2PH-2-COMP(0-4)			GC3FS-1-COMP(0-4)			GC3FS-1-COMP(0-4)			GC3PH-1-COMP(0-4			GC3PH-2-COMP(0-4)			GCIPH-1-COMP(0-4)			GC-4 (4-5) COMP			GC-4 (4-5) COMP			DRUM 1		
Lab Sample ID	JA83310-4			JA83310-3			JA83310-6			JA83310-8			JA83310-8A			JA83310-7			JA83310-9			JA83310-1			JA90903-1A			JA90903-1			JA92696-1L		
Date Sampled	8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			11/2/2011			11/2/2011			11/21/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
Acetone	<380		1	NA			NA			<7.5		1	NA			NA			NA			NA			NA			<19		1	NA		
Benzene	<7.6		1	NA			NA			<0.15		1	NA			NA			NA			NA			NA			<43		1	NA		
Bromochloromethane	<30		1	NA			NA			<0.59		1	NA			NA			NA			NA			NA			<19		1	NA		
Bromodichloromethane	<13		1	NA			NA			<0.25		1	NA			NA			NA			NA			NA			<0.38		1	NA		
Bromoform	<43		1	NA			NA			<0.85		1	NA			NA			NA			NA			NA			<0.64		1	NA		
Bromomethane	<23		1	NA			NA			<0.45		1	NA			NA			NA			NA			NA			<2.1		1	NA		
2-Butanone (MEK)	<250		1	NA			NA			<4.9		1	NA			NA			NA			NA			NA			<1.1		1	NA		
Carbon disulfide	<11		1	NA			NA			<0.22		1	NA			NA			NA			NA			NA			<12		1	NA		
Carbon tetrachloride	<20		1	NA			NA			<0.39		1	NA			NA			NA			NA			NA			<0.56		1	NA		
Chlorobenzene	<18		1	NA			NA			<0.36		1	NA			NA			NA			NA			NA			<0.98		1	NA		
Chloroethane	<23		1	NA			NA			<0.46		1	NA			NA			NA			NA			NA			<0.91		1	NA		
Chloroform	<28		1	NA			NA			<0.55		1	NA			NA			NA			NA			NA			<1.2		1	NA		
Chloromethane	<36		1	NA			NA			<0.71		1	NA			NA			NA			NA			NA			<6.1		1	NA		
Cyclohexane	<22		1	NA			NA			<0.43		1	NA			NA			NA			NA			NA			<1.4		1	NA		
1,2-Dibromo-3-chloropropane	<87		1	NA			NA			<1.7		1	NA			NA			NA			NA			NA			<1.8		1	NA		
Dibromochloromethane	<9.6		1	NA			NA			<0.19		1	NA			NA			NA			NA			NA			<1.1		1	NA		
1,2-Dibromoethane	<14		1	NA			NA			<0.27		1	NA			NA			NA			NA			NA			<4.3		1	NA		
1,2-Dichlorobenzene	<16		1	NA			NA			<0.31		1	NA			NA			NA			NA			NA			<0.48		1	NA		
1,3-Dichlorobenzene	<11		1	NA			NA			<0.22		1	NA			NA			NA			NA			NA			<0.68		1	NA		
1,4-Dichlorobenzene	<9.7		1	NA			NA			<0.19		1	NA			NA			NA			NA			NA			<0.79		1	NA		
Dichlorodifluoromethane	<18		1	NA			NA			<0.36		1	NA			NA			NA			NA			NA			<0.55		1	NA		
1,1-Dichloroethane	<13		1	NA			NA			<0.25		1	NA			NA			NA			NA			NA			<0.48		1	NA		
1,2-Dichloroethane	<10		1	NA			NA			<0.21		1	NA			NA			NA			NA			NA			<0.91		1	NA		
1,1-Dichloroethene	<35		1	NA			NA			<0.69		1	NA			NA			NA			NA			NA			<0.62		1	NA		
cis-1,2-Dichloroethene	<18		1	NA			NA			<0.36		1	NA			NA			NA			NA			NA			<0.52		1	NA		
trans-1,2-Dichloroethene	<24		1	NA			NA			<0.48		1	NA			NA			NA			NA			NA			<1.7		1	NA		
1,2-Dichloropropane	<15		1	NA			NA			<0.30		1	NA			NA			NA			NA			NA			<0.91		1	NA		
cis-1,3-Dichloropropene	<8.7		1	NA			NA			<0.17		1	NA			NA			NA			NA			NA			<1.2		1	NA		
trans-1,3-Dichloropropene	<19		1	NA			NA			<0.38		1	NA			NA			NA			NA			NA			<0.76		1	NA		
1,4-Dioxane	<3300		1	NA			NA			<66		1	NA			NA			NA			NA			NA			<0.43		1	NA		
Ethylbenzene	<8.5		1	NA			NA			<0.17		1	NA			NA			NA			NA			NA			<0.95		1	NA		
Freon 113	<41		1	NA			NA			<0.81		1	NA			NA			NA			NA			NA			1.2	J	1	NA		
2-Hexanone	<140		1	NA			NA			<2.8		1	NA			NA			NA			NA			NA			<2.0		1	NA		
Isopropylbenzene	11.4	J	1	NA			NA			<0.15		1	NA			NA			NA			NA			NA			<7.0		1	NA		
Methyl Acetate	<130		1	NA			NA			<2.5		1	NA			NA			NA			NA			NA			<0.39		1	NA		
Methylcyclohexane	<14		1	NA			NA			<0.28		1	NA			NA			NA			NA			NA			13.5	J	1	NA		
Methyl Tert Butyl Ether	<10		1	NA			NA			<0.20		1	NA			NA			NA			NA			NA			<0.70		1	NA		
4-Methyl-2-pentanone(MIBK)	<150		1	NA			NA			<3.0		1	NA			NA			NA			NA			NA			<0.51		1	NA		
Methylene chloride	<13		1	NA			NA			<0.26		1	NA			NA			NA			NA			NA			<7.5		1	NA		
Styrene	<11		1	NA			NA			<0.21		1	NA			NA			NA			NA			NA			<0.65		1	NA		
1,1,2,2-Tetrachloroethane	<10		1	NA			NA			<0.20		1	NA			NA			NA			NA			NA			<0.53		1	NA		
Tetrachloroethene	<11		1	NA			NA			<0.22		1	NA			NA			NA			NA			NA			<0.51		1	NA		
Toluene	<22		1	NA			NA			<0.43		1	NA			NA			NA			NA			NA			<0.54		1	NA		
1,2,3-Trichlorobenzene	<25		1	NA			NA			<0.50		1	NA			NA			NA			NA			NA			<1.1		1	NA		
1,2,4-Trichlorobenzene	<20		1	NA			NA			<0.39		1	NA			NA			NA			NA			NA			<0.97		1	NA		
1,1,1-Trichloroethane	<14		1	NA			NA			<0.27		1	NA			NA			NA			NA			NA			<0.68		1	NA		
1,1,2-Trichloroethane	<25		1	NA			NA			<0.49		1	NA			NA			NA			NA			NA			<1.2		1	NA		
Trichloroethene	<14		1	NA			NA			<0.28		1	NA			NA			NA			NA			NA			<0.70		1	NA		
Trichlorofluoromethane	<28		1	NA			NA			<0.55		1	NA			NA			NA			NA			NA			<1.4		1	NA		
Vinyl chloride	<26		1	NA			NA			<0.52		1	NA			NA			NA			NA			NA			<1.3		1	NA		
m,p-Xylene	<18		1	NA			NA			<0.36		1	NA			NA			NA			NA			NA			NA			NA			
o-Xylene	<11		1	NA			NA			<0.21		1	NA			NA			NA			NA			NA			NA			NA			
Xylene (total)	<11		1	NA			NA			<0.21		1	NA			NA			NA			NA			NA			4.3		1	NA		
Total Confident Conc.	11.4			0			0			0			0			0			0			0			0			19		1	NA		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC2FS-1-COMP(0-4)			GC2PH-1-COMP(0-4)			GC2PH-2-COMP(0-4)			GC3FS-1-COMP(0-4)			GC3FS-1-COMP(0-4)			GC3PH-1-COMP(0-4)			GC3PH-2-COMP(0-4)			GCIPH-1-COMP(0-4)			GC-4 (4-5) COMP			GC-4 (4-5) COMP			DRUM 1		
Lab Sample ID	JA83310-4			JA83310-3			JA83310-6			JA83310-8			JA83310-8A			JA83310-7			JA83310-9			JA83310-1			JA90903-1A			JA90903-1			JA92696-1L		
Date Sampled	8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			11/2/2011			11/2/2011			11/21/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
GC/MS Semi-volatiles (ppb)																																	
2-Chlorophenol	<33		1	NA			NA			<33		1	NA			NA			NA			NA			NA			NA			NA		
4-Chloro-3-methyl phenol	<32		1	NA			NA			<32		1	NA			NA			NA			NA			NA			NA			NA		
2,4-Dichlorophenol	<52		1	NA			NA			<52		1	NA			NA			NA			NA			NA			NA			NA		
2,4-Dimethylphenol	127	J	1	NA			NA			203		1	NA			NA			NA			NA			NA			NA			NA		
2,4-Dinitrophenol	<40		1	NA			NA			<39		1	NA			NA			NA			NA			NA			NA			NA		
4,6-Dinitro-o-cresol	<40		1	NA			NA			<39		1	NA			NA			NA			NA			NA			NA			NA		
2-Methylphenol	83.6		1	NA			NA			67.5		1	NA			NA			NA			NA			NA			NA			NA		
3&4-Methylphenol	268		1	NA			NA			237		1	NA			NA			NA			NA			NA			NA			NA		
2-Nitrophenol	<34		1	NA			NA			<34		1	NA			NA			NA			NA			NA			NA			NA		
4-Nitrophenol	<55		1	NA			NA			<55		1	NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	<55		1	NA			NA			<55		1	NA			NA			NA			NA			NA			NA			NA		
Phenol	<34		1	NA			NA			<34		1	NA			NA			NA			NA			NA			NA			NA		
2,3,4,6-Tetrachlorophenol	<33		1	NA			NA			<33		1	NA			NA			NA			NA			NA			NA			NA		
2,4,5-Trichlorophenol	<38		1	NA			NA			<37		1	NA			NA			NA			NA			NA			NA			NA		
2,4,6-Trichlorophenol	<31		1	NA			NA			<30		1	NA			NA			NA			NA			NA			NA			NA		
Acenaphthene	5030		20	NA			NA			4780		50	NA			NA			NA			NA			NA			<52		5	NA		
Acenaphthylene	717		1	NA			NA			8430		50	NA			NA			NA			NA			NA			482		5	NA		
Acetophenone	<5.7		1	NA			NA			<5.7		1	NA			NA			NA			NA			NA			NA			NA		
Anthracene	6460		20	NA			NA			21600		50	NA			NA			NA			NA			NA			1110		5	NA		
Atrazine	<6.4		1	NA			NA			<6.4		1	NA			NA			NA			NA			NA			NA			NA		
Benzo(a)anthracene	13900		20	NA			NA			43200		50	NA			NA			NA			NA			NA			4880		5	NA		
Benzo(a)pyrene	11400		20	NA			NA			32800		50	NA			NA			NA			NA			NA			5050		5	NA		
Benzo(b)fluoranthene	12700		20	NA			NA			25400		50	NA			NA			NA			NA			NA			5010		5	NA		
Benzo(g,h,i)perylene	7170		20	NA			NA			15000		50	NA			NA			NA			NA			NA			3650		5	NA		
Benzo(k)fluoranthene	7910		20	NA			NA			30600		50	NA			NA			NA			NA			NA			2950		5	NA		
4-Bromophenyl phenyl ether	<12		1	NA			NA			<12		1	NA			NA			NA			NA			NA			NA			NA		
Butyl benzyl phthalate	<19		1	NA			NA			<19		1	NA			NA			NA			NA			NA			NA			NA		
1,1'-Biphenyl	168		1	NA			NA			547		1	NA			NA			NA			NA			NA			NA			NA		
Benzaldehyde	<7.5		1	NA			NA			<7.4		1	NA			NA			NA			NA			NA			NA			NA		
2-Chloronaphthalene	<10		1	NA			NA			<10		1	NA			NA			NA			NA			NA			NA			NA		
4-Chloroaniline	<10		1	NA			NA			<10		1	NA			NA			NA			NA			NA			NA			NA		
Carbazole	1980		1	NA			NA			2770		1	NA			NA			NA			NA			NA			NA			NA		
Caprolactam	<10		1	NA			NA			<10		1	NA			NA			NA			NA			NA			NA			NA		
Chrysene	13900		20	NA			NA			38500		50	NA			NA			NA			NA			NA			5040		5	NA		
bis(2-Chloroethoxy)methane	<13		1	NA			NA			<13		1	NA			NA			NA			NA			NA			NA			NA		
bis(2-Chloroethyl)ether	<9.8		1	NA			NA			<9.7		1	NA			NA			NA			NA			NA			NA			NA		
bis(2-Chloroisopropyl)ether	<9.6		1	NA			NA			<9.6		1	NA			NA			NA			NA			NA			NA			NA		
4-Chlorophenyl phenyl ether	<9.8		1	NA			NA			<9.7		1	NA			NA			NA			NA			NA			NA			NA		
2,4-Dinitrotoluene	<14		1	NA			NA			<14		1	NA			NA			NA			NA			NA			NA			NA		
2,6-Dinitrotoluene	<12		1	NA			NA			<12		1	NA			NA			NA			NA			NA			NA			NA		
3,3'-Dichlorobenzidine	<8.2		1	NA			NA			<8.2		1	NA			NA			NA			NA			NA			NA			NA		
Dibenzo(a,h)anthracene	2430		1	NA			NA			6120		50	NA			NA			NA			NA			NA			1160		5	NA		
Dibenzofuran	2010		1	NA			NA			7230		50	NA			NA			NA			NA			NA			NA			NA		
Di-n-butyl phthalate	<7.2		1	NA			NA			<7.2		1	NA			NA			NA			NA			NA			NA			NA		
Di-n-octyl phthalate	<16		1	NA			NA			<16		1	NA			NA			NA			NA			NA			NA			NA		
Diethyl phthalate	<11		1	NA			NA			<11		1	NA			NA			NA			NA			NA			NA			NA		
Dimethyl phthalate	<11		1	NA			NA			<11		1	NA			NA			NA			NA			NA			NA			NA		
bis(2-Ethylhexyl)phthalate	256		1	NA			NA			<29		1	NA			NA			NA			NA			NA			NA			NA		
Fluoranthene	35700		20	NA			NA			87500		50	NA			NA			NA			NA			NA			8410		5	NA		
Fluorene	2640		1	NA			NA			11000		50	NA			NA			NA			NA			NA			271		5	NA		
Hexachlorobenzene	<11		1	NA			NA			<11		1	NA			NA			NA			NA			NA			NA			NA		
Hexachlorobutadiene	<9.0		1	NA			NA			<9.0		1	NA			NA			NA			NA			NA			NA			NA		
Hexachlorocyclopentadiene	<33		1	NA			NA			<33		1	NA			NA			NA			NA			NA			NA			NA		
Hexachloroethane	<9.0		1	NA			NA			<9.0		1	NA			NA			NA			NA			NA			NA			NA		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC2FS-1-COMP(0-4'		GC2PH-1-COMP(0-4'		GC2PH-2-COMP(0-4'		GC3FS-1-COMP(0-4'		GC3FS-1-COMP(0-4'		GC3PH-1-COMP(0-4'		GC3PH-2-COMP(0-4'		GCIPH-1-COMP(0-4'		GC-4 (4-5) COMP			GC-4 (4-5) COMP			DRUM 1		
Lab Sample ID	JA83310-4			JA83310-3			JA83310-6			JA83310-8			JA83310-8A			JA83310-7			JA83310-9			JA83310-1			JA90903-1A			JA90903-1			JA92696-1L		
Date Sampled	8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			11/2/2011			11/2/2011			11/21/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
Indeno(1,2,3-cd)pyrene	6220		20	NA			NA			14800		50	NA			NA			NA			NA			NA			3240		5	NA		
Isophorone	<8.7		1	NA			NA			<8.7		1	NA			NA			NA			NA			NA			NA			NA		
2-Methylnaphthalene	403		1	NA			NA			1980		1	NA			NA			NA			NA			NA			NA			NA		
2-Nitroaniline	<14		1	NA			NA			<14		1	NA			NA			NA			NA			NA			NA			NA		
3-Nitroaniline	<13		1	NA			NA			<13		1	NA			NA			NA			NA			NA			NA			NA		
4-Nitroaniline	<13		1	NA			NA			<13		1	NA			NA			NA			NA			NA			NA			NA		
Naphthalene	979		1	NA			NA			3980		50	NA			NA			NA			NA			NA			<49		5	NA		
Nitrobenzene	<9.4		1	NA			NA			<9.3		1	NA			NA			NA			NA			NA			NA			NA		
N-Nitroso-di-n-propylamine	<7.9		1	NA			NA			<7.9		1	NA			NA			NA			NA			NA			NA			NA		
N-Nitrosodiphenylamine	<19		1	NA			NA			<19		1	NA			NA			NA			NA			NA			NA			NA		
Phenanthrene	29800		20	NA			NA			77700		50	NA			NA			NA			NA			NA			3650		5	NA		
Pyrene	29400		20	NA			NA			74800		50	NA			NA			NA			NA			NA			7410		5	NA		
1,2,4,5-Tetrachlorobenzene	<10		1	NA			NA			<9.9		1	NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	191651.6			0			0			509244.5			0			0			0			0			0			52313			NA		
GC Semi-volatiles (ppb) (SW846 8082																																	
Aroclor 1016	<8.7		1	NA			NA			<8.7		1	NA			NA			NA			NA			NA			<9.6		1	NA		
Aroclor 1221	<20		1	NA			NA			<20		1	NA			NA			NA			NA			NA			<22		1	NA		
Aroclor 1232	<17		1	NA			NA			<17		1	NA			NA			NA			NA			NA			<19		1	NA		
Aroclor 1242	<11		1	NA			NA			<11		1	NA			NA			NA			NA			NA			<12		1	NA		
Aroclor 1248	<10		1	NA			NA			<10		1	NA			NA			NA			NA			NA			<11		1	NA		
Aroclor 1254	<16		1	NA			NA			<16		1	NA			NA			NA			NA			NA			<17		1	NA		
Aroclor 1260	<11		1	NA			NA			45.0		1	NA			NA			NA			NA			NA			<12		1	NA		
Aroclor 1268	<9.8		1	NA			NA			<9.8		1	NA			NA			NA			NA			NA			NA			NA		
Aroclor 1262	<11		1	NA			NA			<11		1	NA			NA			NA			NA			NA			NA			NA		
TPH-DRO (C10-C28) (mg/kg)	NA			766		1	1610		1	NA			NA			188		1	127		1	844		1	NA			NA			NA		
Total Confident Conc.	0			766			1610			45			0			188			127			844			0			0			NA		
Metals Analysis (ppm)																																	
Antimony	NA			NA			NA			NA			<2.2		1	NA			NA			NA			<2.6		1	NA			NA		
Arsenic	NA			NA			NA			NA			9.4		1	NA			NA			NA			25.3		1	NA			NA		
Barium	NA			NA			NA			NA			144		1	NA			NA			NA			205		1	NA			NA		
Beryllium	NA			NA			NA			NA			0.27		1	NA			NA			NA			0.53		1	NA			NA		
Cadmium	NA			NA			NA			NA			3.8		1	NA			NA			NA			<0.64		1	NA			NA		
Chromium	NA			NA			NA			NA			17.6		1	NA			NA			NA			15.4		1	NA			NA		
Copper	NA			NA			NA			NA			51.7		1	NA			NA			NA			48.8		1	NA			NA		
Lead	NA			NA			NA			NA			145		1	NA			NA			NA			108		1	NA			NA		
Mercury	NA			NA			NA			NA			0.31		1	NA			NA			NA			1.5		2	NA			NA		
Nickel	NA			NA			NA			NA			16.5		1	NA			NA			NA			19.0		1	NA			NA		
Selenium	NA			NA			NA			NA			<2.2		1	NA			NA			NA			<2.6		1	NA			NA		
Silver	NA			NA			NA			NA			<0.56		1	NA			NA			NA			<0.64		1	NA			NA		
Thallium	NA			NA			NA			NA			<1.1		1	NA			NA			NA			NA			NA			NA		
Vanadium	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Zinc	NA			NA			NA			NA			257		1	NA			NA			NA			146		1	NA			NA		
Metals Analysis LEACHATE (ppm)																																	
Arsenic	<0.50		1	NA			NA			<0.50		1	<0.50		1	NA			NA			NA			<0.50		1	<0.50		1	NA		
Barium	<1.0		1	NA			NA			<1.0		1	<1.0		1	NA			NA			NA			<1.0		1	<1.0		1	NA		
Cadmium	0.0063		1	NA			NA			<0.0050		1	<0.0050		1	NA			NA			NA			<0.0050		1	<0.0050		1	NA		
Chromium	<0.010		1	NA			NA			<0.010		1	<0.010		1	NA			NA			NA			<0.010		1	<0.010		1	NA		
Copper	NA			NA			NA			NA			NA			NA			NA			NA			<0.50		1	<0.50		1	NA		
Lead	<0.50		1	NA			NA			<0.50		1	<0.50		1	NA			NA			NA			<0.00020		1	<0.00020		1	NA		
Mercury	<0.00020		1	NA			NA			<0.00020		1	<0.00020		1	NA			NA			NA			NA			NA			NA		
Nickel	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Selenium	<0.50		1	NA			NA			<0.50		1	<0.50		1	NA			NA			NA			<0.50		1	<0.50		1	NA		
Silver	<0.010		1	NA			NA			<0.010		1	<0.010		1	NA			NA			NA			<0.010		1	<0.010		1	NA		
Zinc	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	GC2FS-1-COMP(0-4)			GC2PH-1-COMP(0-4)			GC2PH-2-COMP(0-4)			GC3FS-1-COMP(0-4)			GC3FS-1-COMP(0-4)			GC3PH-1-COMP(0-4)			GC3PH-2-COMP(0-4)			GCIPH-1-COMP(0-4)			GC-4 (4-5) COMP			GC-4 (4-5) COMP			DRUM 1		
Lab Sample ID	JA83310-4			JA83310-3			JA83310-6			JA83310-8			JA83310-8A			JA83310-7			JA83310-9			JA83310-1			JA90903-1A			JA90903-1			JA92696-1L		
Date Sampled	8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			8/9/2011			11/2/2011			11/2/2011			11/21/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)																																	
General Chemistry (ppm)																																	
pH (su)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Corrosivity as pH (su)	9.33	NC	1	NA			NA			8.87	NC	1	NA			NA			NA			NA			NA			8.57	NC	1	NA		
Redox Potential Vs H2 (mv)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chromium, Hexavalent	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Cyanide	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Cyanide Reactivity	<11		1	NA			NA			<11		1	NA			NA			NA			NA			NA			<12		1	NA		
Sulfide Reactivity	<110		1	NA			NA			<110		1	NA			NA			NA			NA			NA			<120		1	NA		
Ignitability (Flashpoint) (Deg. F)	>200		1	NA			NA			>200		1	NA			NA			NA			NA			NA			>200		1	NA		
Solids, Percent (%)	87.8		1	86.6		1	87.7		1	88.4		1	NA			90.2		1	89.1		1	87.7		1	NA			80.0		1	NA		
GC/MS Volatiles (ppm) LEACHATE																																	
Benzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			0.0456		5
2-Butanone (MEK)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Carbon tetrachloride	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chloroform	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,4-Dichlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,2-Dichloroethane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,1-Dichloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Tetrachloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Trichloroethene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Vinyl chloride	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			0.0456		
GC/MS Semi-volatiles (ppm) LEACHA																																	
2-Methylphenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
3&4-Methylphenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-Trichlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,6-Trichlorophenol	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
1,4-Dichlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-Dinitrotoluene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachlorobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachlorobutadiene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Hexachloroethane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Nitrobenzene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pyridine	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
GC Semi-volatiles (ppm) (SW846 815																																	
2,4-D	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Chlordane	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Total Confident Conc.	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Notes:
U - Below detection limit
J - Estimated value detected above qua
& below the quantitative reporting detec
D - Dilution factor
NA - Not analyzed

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	DRUM 2	GC-7(4-7)COMP	GC-7(4-7)COMP	GC-7(4-7)COMP
Lab Sample ID	JA92696-2L	JA90802-8A	JA90802-8	JA90802-8RL
Date Sampled	11/21/2011	11/1/2011	11/1/2011	11/1/2011
	Result Q D	Result Q D	Result Q D	Result Q D
GC/MS Volatiles (ppb)				
Acetone	NA	NA	10 J 1	NA
Benzene	NA	NA	<19 1	NA
Bromochloromethane	NA	NA	<8.5 1	NA
Bromodichloromethane	NA	NA	2.5 1	NA
Bromoform	NA	NA	<0.29 1	NA
Bromomethane	NA	NA	<0.97 1	NA
2-Butanone (MEK)	NA	NA	<0.50 1	NA
Carbon disulfide	NA	NA	<5.5 1	NA
Carbon tetrachloride	NA	NA	<0.25 1	NA
Chlorobenzene	NA	NA	<0.44 1	NA
Chloroethane	NA	NA	<0.41 1	NA
Chloroform	NA	NA	<0.52 1	NA
Chloromethane	NA	NA	<2.7 1	NA
Cyclohexane	NA	NA	<0.62 1	NA
1,2-Dibromo-3-chloropropane	NA	NA	<0.80 1	NA
Dibromochloromethane	NA	NA	<0.49 1	NA
1,2-Dibromoethane	NA	NA	<1.9 1	NA
1,2-Dichlorobenzene	NA	NA	<0.22 1	NA
1,3-Dichlorobenzene	NA	NA	<0.30 1	NA
1,4-Dichlorobenzene	NA	NA	<0.35 1	NA
Dichlorodifluoromethane	NA	NA	<0.25 1	NA
1,1-Dichloroethane	NA	NA	<0.22 1	NA
1,2-Dichloroethane	NA	NA	<0.41 1	NA
1,1-Dichloroethene	NA	NA	<0.28 1	NA
cis-1,2-Dichloroethene	NA	NA	<0.23 1	NA
trans-1,2-Dichloroethene	NA	NA	<0.78 1	NA
1,2-Dichloropropane	NA	NA	<0.41 1	NA
cis-1,3-Dichloropropene	NA	NA	<0.54 1	NA
trans-1,3-Dichloropropene	NA	NA	<0.34 1	NA
1,4-Dioxane	NA	NA	<0.19 1	NA
Ethylbenzene	NA	NA	<0.43 1	NA
Freon 113	NA	NA	0.90 J 1	NA
2-Hexanone	NA	NA	<0.92 1	NA
Isopropylbenzene	NA	NA	<3.2 1	NA
Methyl Acetate	NA	NA	<0.18 1	NA
Methylcyclohexane	NA	NA	<2.8 1	NA
Methyl Tert Butyl Ether	NA	NA	0.46 J 1	NA
4-Methyl-2-pentanone(MIBK)	NA	NA	2.0 1	NA
Methylene chloride	NA	NA	<3.4 1	NA
Styrene	NA	NA	<0.29 1	NA
1,1,2,2-Tetrachloroethane	NA	NA	<0.24 1	NA
Tetrachloroethene	NA	NA	<0.23 1	NA
Toluene	NA	NA	0.27 J 1	NA
1,2,3-Trichlorobenzene	NA	NA	8.1 1	NA
1,2,4-Trichlorobenzene	NA	NA	<0.44 1	NA
1,1,1-Trichloroethane	NA	NA	<0.31 1	NA
1,1,2-Trichloroethane	NA	NA	<0.55 1	NA
Trichloroethene	NA	NA	<0.32 1	NA
Trichlorofluoromethane	NA	NA	<0.62 1	NA
Vinyl chloride	NA	NA	<0.59 1	NA
m,p-Xylene	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA
Xylene (total)	NA	NA	11.3 1	NA
Total Confident Conc.	NA	0	35.53	NA

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	DRUM 2		GC-7(4-7)COMP		GC-7(4-7)COMP		GC-7(4-7)COMP	
Lab Sample ID	JA92696-2L		JA90802-8A		JA90802-8		JA90802-8RL	
Date Sampled	11/21/2011		11/1/2011		11/1/2011		11/1/2011	
	Result	Q D	Result	Q D	Result	Q D	Result	Q D
GC/MS Volatiles (ppb)								
GC/MS Semi-volatiles (ppb)								
2-Chlorophenol	NA		NA		NA		NA	
4-Chloro-3-methyl phenol	NA		NA		NA		NA	
2,4-Dichlorophenol	NA		NA		NA		NA	
2,4-Dimethylphenol	NA		NA		NA		NA	
2,4-Dinitrophenol	NA		NA		NA		NA	
4,6-Dinitro-o-cresol	NA		NA		NA		NA	
2-Methylphenol	NA		NA		NA		NA	
3&4-Methylphenol	NA		NA		NA		NA	
2-Nitrophenol	NA		NA		NA		NA	
4-Nitrophenol	NA		NA		NA		NA	
Pentachlorophenol	NA		NA		NA		NA	
Phenol	NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA	
2,4,5-Trichlorophenol	NA		NA		NA		NA	
2,4,6-Trichlorophenol	NA		NA		NA		NA	
Acenaphthene	NA		NA		2050	1	NA	
Acenaphthylene	NA		NA		3280	1	NA	
Acetophenone	NA		NA		NA		NA	
Anthracene	NA		NA		8430	20	NA	
Atrazine	NA		NA		16900	20	NA	
Benzo(a)anthracene	NA		NA		17500	20	NA	
Benzo(a)pyrene	NA		NA		17500	20	NA	
Benzo(b)fluoranthene	NA		NA		9980	20	NA	
Benzo(g,h,i)perylene	NA		NA		8500	20	NA	
Benzo(k)fluoranthene	NA		NA		NA		NA	
4-Bromophenyl phenyl ether	NA		NA		NA		NA	
Butyl benzyl phthalate	NA		NA		NA		NA	
1,1'-Biphenyl	NA		NA		NA		NA	
Benzaldehyde	NA		NA		NA		NA	
2-Chloronaphthalene	NA		NA		NA		NA	
4-Chloroaniline	NA		NA		NA		NA	
Carbazole	NA		NA		NA		NA	
Caprolactam	NA		NA		NA		NA	
Chrysene	NA		NA		16300	20	NA	
bis(2-Chloroethoxy)methane	NA		NA		NA		NA	
bis(2-Chloroethyl)ether	NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	NA		NA		NA		NA	
4-Chlorophenyl phenyl ether	NA		NA		NA		NA	
2,4-Dinitrotoluene	NA		NA		NA		NA	
2,6-Dinitrotoluene	NA		NA		NA		NA	
3,3'-Dichlorobenzidine	NA		NA		NA		NA	
Dibenzo(a,h)anthracene	NA		NA		3200	20	NA	
Dibenzofuran	NA		NA		NA		NA	
Di-n-butyl phthalate	NA		NA		NA		NA	
Di-n-octyl phthalate	NA		NA		NA		NA	
Diethyl phthalate	NA		NA		NA		NA	
Dimethyl phthalate	NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA	
Fluoranthene	NA		NA		33300	20	NA	
Fluorene	NA		NA		3360	1	NA	
Hexachlorobenzene	NA		NA		NA		NA	
Hexachlorobutadiene	NA		NA		NA		NA	
Hexachlorocyclopentadiene	NA		NA		NA		NA	
Hexachloroethane	NA		NA		NA		NA	

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	DRUM 2			GC-7(4-7)COMP			GC-7(4-7)COMP			GC-7(4-7)COMP		
Lab Sample ID	JA92696-2L			JA90802-8A			JA90802-8			JA90802-8RL		
Date Sampled	11/21/2011			11/1/2011			11/1/2011			11/1/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)												
Indeno(1,2,3-cd)pyrene	NA			NA			9280		20	NA		
Isophorone	NA			NA			NA			NA		
2-Methylnaphthalene	NA			NA			NA			NA		
2-Nitroaniline	NA			NA			NA			NA		
3-Nitroaniline	NA			NA			NA			NA		
4-Nitroaniline	NA			NA			NA			NA		
Naphthalene	NA			NA			2960		1	NA		
Nitrobenzene	NA			NA			NA			NA		
N-Nitroso-di-n-propylamine	NA			NA			NA			NA		
N-Nitrosodiphenylamine	NA			NA			NA			NA		
Phenanthrene	NA			NA			24600		20	NA		
Pyrene	NA			NA			32300		20	NA		
1,2,4,5-Tetrachlorobenzene	NA			NA			NA			NA		
Total Confident Conc.	NA			0			209440			NA		
GC Semi-volatiles (ppb) (SW846 8082												
Aroclor 1016	NA			NA			<9.0		1	NA		
Aroclor 1221	NA			NA			<21		1	NA		
Aroclor 1232	NA			NA			<18		1	NA		
Aroclor 1242	NA			NA			<11		1	NA		
Aroclor 1248	NA			NA			<11		1	NA		
Aroclor 1254	NA			NA			<16		1	NA		
Aroclor 1260	NA			NA			3020		4	NA		
Aroclor 1268	NA			NA			NA			NA		
Aroclor 1262	NA			NA			NA			NA		
TPH-DRO (C10-C28) (mg/kg)	NA			NA			477		1	NA		
Total Confident Conc.	NA			0			3497			NA		
Metals Analysis (ppm)												
Antimony	NA			<2.4		1	NA			NA		
Arsenic	NA			10		1	NA			NA		
Barium	NA			161		1	NA			NA		
Beryllium	NA			0.40		1	NA			NA		
Cadmium	NA			0.84		1	NA			NA		
Chromium	NA			60.2		1	NA			NA		
Copper	NA			56.9		1	NA			NA		
Lead	NA			263		1	NA			NA		
Mercury	NA			0.80		1	NA			NA		
Nickel	NA			88.2		1	NA			NA		
Selenium	NA			<2.4		1	NA			NA		
Silver	NA			<0.59		1	NA			NA		
Thallium	NA			NA			NA			NA		
Vanadium	NA			NA			NA			NA		
Zinc	NA			466		1	NA			NA		
Metals Analysis LEACHATE (ppm)												
Arsenic	NA			<0.50		1	<0.50		1	NA		
Barium	NA			<1.0		1	<1.0		1	NA		
Cadmium	NA			<0.0050		1	<0.0050		1	NA		
Chromium	NA			<0.0050		1	<0.0050		1	NA		
Copper	NA			<0.010		1	<0.010		1	NA		
Lead	NA			<0.025		1	<0.025		1	NA		
Mercury	NA			<0.50		1	<0.50		1	NA		
Nickel	NA			<0.00020		1	<0.00020		1	NA		
Selenium	NA			<0.50		1	<0.50		1	NA		
Silver	NA			<0.010		1	<0.010		1	NA		
Zinc	NA			<0.20		1	<0.20		1	NA		

Table 13
Queens West, Parcel 8
Waste-Characterization Soils Results
BCP No. C241087

Client ID	DRUM 2			GC-7(4-7)COMP			GC-7(4-7)COMP			GC-7(4-7)COMP		
Lab Sample ID	JA92696-2L			JA90802-8A			JA90802-8			JA90802-8RL		
Date Sampled	11/21/2011			11/1/2011			11/1/2011			11/1/2011		
	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ppb)												
General Chemistry (ppm)												
pH (su)	NA			NA			NA			NA		
Corrosivity as pH (su)	NA			NA			7.54	NC	1	NA		
Redox Potential Vs H2 (mv)	NA			NA			NA			NA		
Chromium, Hexavalent	NA			NA			NA			NA		
Cyanide	NA			NA			NA			NA		
Cyanide Reactivity	NA			NA			<12		1	NA		
Sulfide Reactivity	NA			NA			<120		1	NA		
Ignitability (Flashpoint) (Deg. F)	NA			NA			>200		1	NA		
Solids, Percent (%)	NA			NA			84.9		1	NA		
GC/MS Volatiles (ppm) LEACHATE												
Benzene	0.0341		5	NA			NA			<0.0012		5
2-Butanone (MEK)	NA			NA			NA			<0.0081		5
Carbon tetrachloride	NA			NA			NA			<0.0013		5
Chlorobenzene	NA			NA			NA			<0.0019		5
Chloroform	NA			NA			NA			<0.0012		5
1,4-Dichlorobenzene	NA			NA			NA			<0.0014		5
1,2-Dichloroethane	NA			NA			NA			<0.0017		5
1,1-Dichloroethene	NA			NA			NA			<0.0020		5
Tetrachloroethene	NA			NA			NA			<0.0013		5
Trichloroethene	NA			NA			NA			<0.0012		5
Vinyl chloride	NA			NA			NA			<0.0022		5
Total Confident Conc.	0.0341			NA			NA			0		
GC/MS Semi-volatiles (ppm) LEACHA												
2-Methylphenol	NA			NA			NA			<0.010		1
3&4-Methylphenol	NA			NA			NA			<0.0093		1
Pentachlorophenol	NA			NA			NA			<0.014		1
2,4,5-Trichlorophenol	NA			NA			NA			<0.016		1
2,4,6-Trichlorophenol	NA			NA			NA			<0.013		1
1,4-Dichlorobenzene	NA			NA			NA			<0.0036		1
2,4-Dinitrotoluene	NA			NA			NA			<0.0043		1
Hexachlorobenzene	NA			NA			NA			<0.0034		1
Hexachlorobutadiene	NA			NA			NA			<0.0051		1
Hexachloroethane	NA			NA			NA			<0.0055		1
Nitrobenzene	NA			NA			NA			<0.0042		1
Pyridine	NA			NA			NA			<0.0032		1
Total Confident Conc.	NA			NA			NA			0		
GC Semi-volatiles (ppm) (SW846 8151												
2,4-D	NA			NA			NA			<0.0013		1
2,4,5-TP (Silvex)	NA			NA			NA			<0.00018		1
gamma-BHC (Lindane)	NA			NA			NA			<0.000041		1
Chlordane	NA			NA			NA			<0.0024		1
Endrin	NA			NA			NA			<0.000064		1
Heptachlor	NA			NA			NA			<0.000084		1
Heptachlor epoxide	NA			NA			NA			<0.000038		1
Methoxychlor	NA			NA			NA			<0.000082		1
Toxaphene	NA			NA			NA			<0.0015		1
Total Confident Conc.	NA			NA			NA			0		

Notes:
U - Below detection limit
J - Estimated value detected above qua
& below the quantitative reporting detec
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	FB101811 JA89446-6 10/18/2011			B-HS JA89446-1 10/18/2011			SW-HS EAST JA89446-3 10/18/2011			SW-HS NORTH JA89446-2 10/18/2011			SW-HS SOUTH JA89446-5 10/18/2011			SW-HS WEST JA89446-4 10/18/2011			TRIP BLANK JA89559-9 10/19/2011			B-1 JA89559-1 10/19/2011			B-2 JA89559-2 10/19/2011			B-6 JA89559-3 10/19/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Acetone	50	500000	7.6	U	1	8.0	U	1	NA			NA			NA			NA			7.6	U	1	7.3	U	1	6.8	U	1	7.7	U	1
Benzene	60	44000	0.22	U	1	0.16	U	1	NA			NA			NA			NA			0.22	U	1	0.15	U	1	0.14	U	1	0.15	U	1
Bromochloromethane	NS	NS	0.40	U	1	0.63	U	1	NA			NA			NA			NA			0.40	U	1	0.57	U	1	0.53	U	1	0.60	U	1
Bromodichloromethane	NS	NS	0.23	U	1	0.27	U	1	NA			NA			NA			NA			0.23	U	1	0.25	U	1	0.23	U	1	0.26	U	1
Bromoform	NS	NS	0.24	U	1	0.92	U	1	NA			NA			NA			NA			0.24	U	1	0.83	U	1	0.77	U	1	0.87	U	1
Bromomethane	NS	NS	0.31	U	1	0.48	U	1	NA			NA			NA			NA			0.31	U	1	0.43	U	1	0.40	U	1	0.46	U	1
2-Butanone (MEK)	120	500000	2.9	U	1	5.3	U	1	NA			NA			NA			NA			2.9	U	1	4.8	U	1	4.4	U	1	5.0	U	1
Carbon disulfide	NS	NS	0.18	U	1	0.24	U	1	NA			NA			NA			NA			0.18	U	1	0.22	U	1	0.20	U	1	0.23	U	1
Carbon tetrachloride	760	22000	0.19	U	1	0.42	U	1	NA			NA			NA			NA			0.19	U	1	0.38	U	1	0.35	U	1	0.40	U	1
Chlorobenzene	1100	500000	0.22	U	1	0.39	U	1	NA			NA			NA			NA			0.22	U	1	0.35	U	1	0.33	U	1	0.37	U	1
Chloroethane	NS	NS	0.37	U	1	0.50	U	1	NA			NA			NA			NA			0.37	U	1	0.45	U	1	0.42	U	1	0.47	U	1
Chloroform	370	350000	0.21	U	1	0.59	U	1	NA			NA			NA			NA			0.21	U	1	0.53	U	1	0.49	U	1	0.56	U	1
Chloromethane	NS	NS	0.22	U	1	0.76	U	1	NA			NA			NA			NA			0.22	U	1	0.68	U	1	0.64	U	1	0.72	U	1
Cyclohexane	NS	NS	0.29	U	1	0.46	U	1	NA			NA			NA			NA			0.29	U	1	0.42	U	1	0.39	U	1	0.44	U	1
1,2-Dibromo-3-chloropropane	NS	NS	1.3	U	1	1.8	U	1	NA			NA			NA			NA			1.3	U	1	1.7	U	1	1.5	U	1	1.7	U	1
Dibromochloromethane	NS	NS	0.20	U	1	0.20	U	1	NA			NA			NA			NA			0.20	U	1	0.18	U	1	0.17	U	1	0.19	U	1
1,2-Dibromoethane	NS	NS	0.21	U	1	0.29	U	1	NA			NA			NA			NA			0.21	U	1	0.26	U	1	0.24	U	1	0.28	U	1
1,2-Dichlorobenzene	1100	500000	0.18	U	1	0.34	U	1	NA			NA			NA			NA			0.18	U	1	0.30	U	1	0.28	U	1	0.32	U	1
1,3-Dichlorobenzene	2400	280000	0.29	U	1	0.23	U	1	NA			NA			NA			NA			0.29	U	1	0.21	U	1	0.20	U	1	0.22	U	1
1,4-Dichlorobenzene	1800	130000	0.26	U	1	0.21	U	1	NA			NA			NA			NA			0.26	U	1	0.19	U	1	0.17	U	1	0.20	U	1
Dichlorodifluoromethane	NS	NS	0.31	U	1	0.39	U	1	NA			NA			NA			NA			0.31	U	1	0.35	U	1	0.33	U	1	0.37	U	1
1,1-Dichloroethane	270	240000	0.19	U	1	0.26	U	1	NA			NA			NA			NA			0.19	U	1	0.24	U	1	0.22	U	1	0.25	U	1
1,2-Dichloroethane	20	30000	0.18	U	1	0.22	U	1	NA			NA			NA			NA			0.18	U	1	0.20	U	1	0.19	U	1	0.21	U	1
1,1-Dichloroethene	330	500000	0.28	U	1	0.74	U	1	NA			NA			NA			NA			0.28	U	1	0.67	U	1	0.63	U	1	0.71	U	1
cis-1,2-Dichloroethene	250	500000	0.22	U	1	0.39	U	1	NA			NA			NA			NA			0.22	U	1	0.35	U	1	0.33	U	1	0.37	U	1
trans-1,2-Dichloroethene	190	500000	0.31	U	1	0.52	U	1	NA			NA			NA			NA			0.31	U	1	0.47	U	1	0.43	U	1	0.49	U	1
1,2-Dichloropropane	NS	NS	0.22	U	1	0.32	U	1	NA			NA			NA			NA			0.22	U	1	0.29	U	1	0.27	U	1	0.31	U	1
cis-1,3-Dichloropropene	NS	NS	0.22	U	1	0.18	U	1	NA			NA			NA			NA			0.22	U	1	0.17	U	1	0.16	U	1	0.18	U	1
trans-1,3-Dichloropropene	NS	NS	0.19	U	1	0.41	U	1	NA			NA			NA			NA			0.19	U	1	0.37	U	1	0.34	U	1	0.39	U	1
1,4-Dioxane	100	130000	72	U	1	71	U	1	NA			NA			NA			NA			72	U	1	64	U	1	59	U	1	67	U	1
Ethylbenzene	1000	390000	0.21	U	1	0.18	U	1	NA			NA			NA			NA			0.21	U	1	0.16	U	1	0.15	U	1	0.17	U	1
Freon 113	NS	NS	0.49	U	1	0.87	U	1	NA			NA			NA			NA			0.49	U	1	0.79	U	1	0.73	U	1	0.83	U	1
2-Hexanone	NS	NS	3.0	U	1	3.0	U	1	NA			NA			NA			NA			3.0	U	1	2.7	U	1	2.5	U	1	2.9	U	1
Isopropylbenzene	NS	NS	0.19	U	1	0.17	U	1	NA			NA			NA			NA			0.19	U	1	0.15	U	1	0.14	U	1	0.16	U	1
Methyl Acetate	NS	NS	2.9	U	1	2.7	U	1	NA			NA			NA			NA			2.9	U	1	2.4	U	1	2.3	U	1	2.6	U	1
Methylcyclohexane	NS	NS	0.18	U	1	0.30	U	1	NA			NA			NA			NA			0.18	U	1	0.27	U	1	0.25	U	1	0.28	U	1
Methyl Tert Butyl Ether	930	500000	0.18	U	1	0.22	U	1	NA			NA			NA			NA			0.18	U	1	0.20	U	1	0.18	U	1	0.21	U	1
4-Methyl-2-pentanone(MIBK)	NS	NS	1.2	U	1	3.2	U	1	NA			NA			NA			NA			1.2	U	1	2.9	U	1	2.7	U	1	3.0	U	1
Methylene chloride	50	500000	0.20	U	1	0.28	U	1	NA			NA			NA			NA			0.20	U	1	0.25	U	1	0.23	U	1	0.27	U	1
Styrene	NS	NS	0.23	U	1	0.22	U	1	NA			NA			NA			NA			0.23	U	1	0.20	U	1	0.19	U	1	0.21	U	1
1,1,2,2-Tetrachloroethane	NS	NS	0.20	U	1	0.22	U	1	NA			NA			NA			NA			0.20	U	1	0.20	U	1	0.18	U	1	0.21	U	1
Tetrachloroethene	1300	150000	0.32	U	1	0.23	U	1	NA			NA			NA			NA			0.32	U	1	0.21	U	1	0.19	U	1	0.31	J	1
Toluene	700	500000	0.15	U	1	0.46	U	1	NA			NA			NA			NA			0.15	U	1	0.41	U	1	0.39	U	1	0.44	U	1
1,2,3-Trichlorobenzene	NS	NS	0.69	U	1	0.53	U	1	NA			NA			NA			NA			0.69	U	1	0.48	U	1	0.45	U	1	0.51	U	1
1,2,4-Trichlorobenzene	NS	NS	0.15	U	1	0.41	U	1	NA			NA			NA			NA			0.15	U	1	0.37	U	1	0.35	U	1	0.39	U	1
1,1,1-Trichloroethane	680	500000	0.24	U	1	0.29	U	1	NA			NA			NA			NA			0.24	U	1	0.26	U	1	0.25	U	1	0.28	U	1
1,1,2-Trichloroethane	NS	NS	0.23	U	1	0.53	U	1	NA			NA			NA			NA			0.23	U	1	0.48	U	1	0.44	U	1	0.50	U	1
Trichloroethene	470	200000	0.21	U	1	0.30	U	1	NA			NA			NA			NA			0.21	U	1	0.27	U	1	0.25	U	1	0.29	U	1
Trichlorofluoromethane	NS	NS	0.35	U	1	0.59	U	1	NA			NA			NA			NA			0.35	U	1	0.53	U	1	0.49	U	1	0.56	U	1
Vinyl chloride	20	13000	0.27	U	1	0.56	U	1	NA			NA			NA			NA			0.27	U	1	0.51	U	1	0.47	U	1	0.53	U	1
m,p-Xylene	260	500000	0.32	U	1	0.52	J	1	NA			NA			NA			NA			0.32	U	1	0.34	U	1	0.32	U	1	0.36	U	1
o-Xylene	260	500000	0.17	U	1	0.22	U	1	NA			NA			NA			NA			0.17	U	1	0.20	U	1	0.19	U	1	0.21	U	1
Xylene (total)	260	500000	0.17	U	1	0.52	J	1	NA			NA			NA			NA			0.17	U	1	0.20	U	1	0.19	U	1	0.21	U	1
Total TIC, Volatile	NS	NS	0		1	0		1	NA			NA			NA			NA			0		1	0		1	0		1	0		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	FB101811 JA89446-6 10/18/2011			B-HS JA89446-1 10/18/2011			SW-HS EAST JA89446-3 10/18/2011			SW-HS NORTH JA89446-2 10/18/2011			SW-HS SOUTH JA89446-5 10/18/2011			SW-HS WEST JA89446-4 10/18/2011			TRIP BLANK JA89559-9 10/19/2011			B-1 JA89559-1 10/19/2011			B-2 JA89559-2 10/19/2011			B-6 JA89559-3 10/19/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
GC/MS Semi-volatiles (ug/kg)																																
2-Chlorophenol	NS	NS	0.97	U	1	34	U	1	NA			NA			NA			NA			30	U	1	NA			34	U	1	34	U	1
4-Chloro-3-methyl phenol	NS	NS	1.8	U	1	34	U	1	NA			NA			NA			NA			30	U	1	NA			33	U	1	34	U	1
2,4-Dichlorophenol	NS	NS	1.2	U	1	55	U	1	NA			NA			NA			NA			48	U	1	NA			53	U	1	54	U	1
2,4-Dimethylphenol	NS	NS	1.5	U	1	57	U	1	NA			NA			NA			NA			51	U	1	NA			56	U	1	90.6	J	1
2,4-Dinitrophenol	NS	NS	17	U	1	41	U	1	NA			NA			NA			NA			37	U	1	NA			41	U	1	41	U	1
4,6-Dinitro-o-cresol	NS	NS	0.99	U	1	41	U	1	NA			NA			NA			NA			37	U	1	NA			41	U	1	41	U	1
2-Methylphenol	330	500000	1.0	U	1	39	U	1	NA			NA			NA			NA			34	U	1	NA			38	U	1	38	U	1
3&4-Methylphenol	NS	NS	0.93	U	1	43	U	1	NA			NA			NA			NA			69.3		1	NA			42	U	1	119		1
2-Nitrophenol	NS	NS	1.5	U	1	36	U	1	NA			NA			NA			NA			32	U	1	NA			35	U	1	36	U	1
4-Nitrophenol	NS	NS	5.2	U	1	57	U	1	NA			NA			NA			NA			51	U	1	NA			56	U	1	57	U	1
Pentachlorophenol	800	6700	1.4	U	1	58	U	1	NA			NA			NA			NA			51	U	1	NA			57	U	1	58	U	1
Phenol	330	500000	1.3	U	1	36	U	1	NA			NA			NA			NA			37.7	J	1	NA			35	U	1	49.2	J	1
2,3,4,6-Tetrachlorophenol	NS	NS	0.94	U	1	35	U	1	NA			NA			NA			NA			31	U	1	NA			34	U	1	35	U	1
2,4,5-Trichlorophenol	NS	NS	1.6	U	1	39	U	1	NA			NA			NA			NA			35	U	1	NA			39	U	1	39	U	1
2,4,6-Trichlorophenol	NS	NS	1.3	U	1	32	U	1	NA			NA			NA			NA			28	U	1	NA			31	U	1	32	U	1
Acenaphthene	20000	500000	0.26	U	1	73.4		1	NA			NA			NA			NA			1580		1	NA			269		1	1680		1
Acenaphthylene	100000	500000	0.23	U	1	176		1	NA			NA			NA			NA			455		1	NA			87.3		1	5200		20
Acetophenone	NS	NS	0.29	U	1	6.0	U	1	NA			NA			NA			NA			5.3	U	1	NA			5.8	U	1	5.9	U	1
Anthracene	100000	500000	0.29	U	1	468		1	NA			NA			NA			NA			4560		10	NA			536		1	7680		20
Atrazine	NS	NS	0.49	U	1	6.7	U	1	NA			NA			NA			NA			5.9	U	1	NA			6.5	U	1	6.6	U	1
Benzo(a)anthracene	1000	5600	3.3	U	1	**2600**		1	NA			NA			NA			NA			**7930**		10	NA			**1470**		1	**25000**		20
Benzo(a)pyrene	1000	1000	0.23	U	1	**3760**		5	NA			NA			NA			NA			**7320**		10	NA			**1510**		1	**26300**		20
Benzo(b)fluoranthene	1000	5600	0.23	U	1	**2960**		5	NA			NA			NA			NA			**7090**		10	NA			**1370**		1	**27300**		20
Benzo(g,h,i)perylene	100000	500000	0.46	U	1	3930		5	NA			NA			NA			NA			4290		10	NA			981		1	21800		20
Benzo(k)fluoranthene	800	56000	0.32	U	1	**3300**		5	NA			NA			NA			NA			**3810**		10	NA			1090		1	**13200**		20
4-Bromophenyl phenyl ether	NS	NS	0.51	U	1	12	U	1	NA			NA			NA			NA			11	U	1	NA			12	U	1	12	U	1
Butyl benzyl phthalate	NS	NS	0.36	U	1	20	U	1	NA			NA			NA			NA			17	U	1	NA			19	U	1	20	U	1
1,1'-Biphenyl	NS	NS	0.29	U	1	3.9	U	1	NA			NA			NA			NA			143		1	NA			3.9	U	1	102		1
Benzaldehyde	NS	NS	0.30	U	1	7.8	U	1	NA			NA			NA			NA			6.9	U	1	NA			7.6	U	1	7.8	U	1
2-Chloronaphthalene	NS	NS	0.30	U	1	11	U	1	NA			NA			NA			NA			9.3	U	1	NA			10	U	1	10	U	1
4-Chloroaniline	NS	NS	0.53	U	1	11	U	1	NA			NA			NA			NA			9.6	U	1	NA			11	U	1	11	U	1
Carbazole	NS	NS	0.36	U	1	78.4		1	NA			NA			NA			NA			1280		1	NA			194		1	1060		1
Caprolactam	NS	NS	0.69	U	1	11	U	1	NA			NA			NA			NA			9.5	U	1	NA			10	U	1	11	U	1
Chrysene	1000	56000	0.29	U	1	**2660**		1	NA			NA			NA			NA			**7800**		10	NA			**1490**		1	**24100**		20
bis(2-Chloroethoxy)methane	NS	NS	0.31	U	1	14	U	1	NA			NA			NA			NA			12	U	1	NA			13	U	1	14	U	1
bis(2-Chloroethyl)ether	NS	NS	0.31	U	1	10	U	1	NA			NA			NA			NA			9.1	U	1	NA			10	U	1	10	U	1
bis(2-Chloroisopropyl)ether	NS	NS	0.45	U	1	10	U	1	NA			NA			NA			NA			8.9	U	1	NA			9.9	U	1	10	U	1
4-Chlorophenyl phenyl ether	NS	NS	0.31	U	1	10	U	1	NA			NA			NA			NA			9.1	U	1	NA			10	U	1	10	U	1
2,4-Dinitrotoluene	NS	NS	0.43	U	1	15	U	1	NA			NA			NA			NA			13	U	1	NA			15	U	1	15	U	1
2,6-Dinitrotoluene	NS	NS	0.46	U	1	13	U	1	NA			NA			NA			NA			11	U	1	NA			13	U	1	13	U	1
3,3'-Dichlorobenzidine	NS	NS	0.36	U	1	8.6	U	1	NA			NA			NA			NA			7.6	U	1	NA			8.4	U	1	8.6	U	1
Dibenzo(a,h)anthracene	330	560	0.38	U	1	**1390**		1	NA			NA			NA			NA			**1600**		1	NA			**330**		1	**7040**		20
Dibenzofuran	7000	350000	0.27	U	1	41.4	J	1	NA			NA			NA			NA			1090		1	NA			138		1	734		1
Di-n-butyl phthalate	NS	NS	0.56	U	1	7.6	U	1	NA			NA			NA			NA			6.7	U	1	NA			7.4	U	1	7.5	U	1
Di-n-octyl phthalate	NS	NS	0.31	U	1	17	U	1	NA			NA			NA			NA			15	U	1	NA			16	U	1	16	U	1
Diethyl phthalate	NS	NS	0.33	U	1	12	U	1	NA			NA			NA			NA			10	U	1	NA			11	U	1	12	U	1
Dimethyl phthalate	NS	NS	0.28	U	1	12	U	1	NA			NA			NA			NA			68.9		1	NA			92.1		1	79.9		1
bis(2-Ethylhexyl)phthalate	NS	NS	0.59	U	1	56.5	J	1	NA			NA			NA			NA			90.7		1	NA			56.1	J	1	30	U	1
Fluoranthene	100000	500000	0.32	U	1	2720		1	NA			NA			NA			NA			15100		10	NA			2640		1	36000		20
Fluorene	30000	500000	0.28	U	1	77.2		1	NA			NA			NA			NA			1760		1	NA			218		1	1120		1
Hexachlorobenzene	330	330	0.34	U	1	11	U	1	NA			NA			NA			NA			9.8	U	1	NA			11	U	1	11	U	1
Hexachlorobutadiene	NS	NS	0.51	U	1	9.5	U	1	NA			NA			NA			NA			8.4	U	1	NA			9.2	U	1	9.4	U	1
Hexachlorocyclopentadiene	NS	NS	7.1	U	1	35	U	1	NA			NA			NA			NA			31	U	1	NA			34	U	1	34	U	1
Hexachloroethane	NS	NS	0.55	U	1	9.5	U	1	NA			NA			NA			NA			8.4	U	1	NA			9.2	U	1	9.4	U	1
Indeno(1,2,3-cd)pyrene	500	5600	0.37	U	1	2940		1	NA			NA			NA			NA			**4740**		10	NA			**1090**		1	**21100**		20

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	FB101811 JA89446-6 10/18/2011			B-HS JA89446-1 10/18/2011			SW-HS EAST JA89446-3 10/18/2011			SW-HS NORTH JA89446-2 10/18/2011			SW-HS SOUTH JA89446-5 10/18/2011			SW-HS WEST JA89446-4 10/18/2011			TRIP BLANK JA89559-9 10/19/2011			B-1 JA89559-1 10/19/2011			B-2 JA89559-2 10/19/2011			B-6 JA89559-3 10/19/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Isophorone	NS	NS	0.27	U	1	9.1	U	1	NA			NA			NA			NA			8.1	U	1	NA			8.9	U	1	9.1	U	1
2-Methylnaphthalene	NS	NS	0.38	U	1	47.4	J	1	NA			NA			NA			NA			481		1	NA			35.0	J	1	387		1
2-Nitroaniline	NS	NS	1.1	U	1	15	U	1	NA			NA			NA			NA			13	U	1	NA			15	U	1	15	U	1
3-Nitroaniline	NS	NS	1.3	U	1	14	U	1	NA			NA			NA			NA			12	U	1	NA			13	U	1	13	U	1
4-Nitroaniline	NS	NS	1.7	U	1	13	U	1	NA			NA			NA			NA			12	U	1	NA			13	U	1	507		1
Naphthalene	12000	500000	0.26	U	1	34.3		1	NA			NA			NA			NA			743		1	NA			53.5		1	424		1
Nitrobenzene	NS	NS	0.42	U	1	9.8	U	1	NA			NA			NA			NA			8.7	U	1	NA			9.6	U	1	9.7	U	1
N-Nitroso-di-n-propylamine	NS	NS	0.30	U	1	8.3	U	1	NA			NA			NA			NA			7.3	U	1	NA			8.1	U	1	8.2	U	1
N-Nitrosodiphenylamine	NS	NS	0.31	U	1	20	U	1	NA			NA			NA			NA			18	U	1	NA			20	U	1	20	U	1
Phenanthrene	100000	500000	0.29	U	1	1010		1	NA			NA			NA			NA			15200		10	NA			1850		1	21200		20
Pyrene	100000	500000	0.27	U	1	2310		1	NA			NA			NA			NA			14100		10	NA			2420		1	44900		20
1,2,4,5-Tetrachlorobenzene	NS	NS	0.31	U	1	10	U	1	NA			NA			NA			NA			9.2	U	1	NA			10	U	1	10	U	1
Total TIC, Semi-Volatile	NS	NS	0		1	15380	J	1	NA			NA			NA			NA			23160	J	1	NA			6910	J	1	13350	J	1
Aldrin	5	680	0.0096	U	1	0.35	U	1	NA			NA			NA			NA			0.31	U	1	NA			0.34	U	1	0.35	U	1
2,4-D	NS	NS	0.16	U	1	4.9	U	1	NA			NA			NA			NA			4.4	U	1	NA			4.8	U	1	4.9	U	1
alpha-BHC	20	3400	0.0041	U	1	0.52	U	1	NA			NA			NA			NA			0.46	U	1	NA			0.51	U	1	0.52	U	1
2,4,5-TP (Silvex)	3800	500000	0.026	U	1	0.60	U	1	NA			NA			NA			NA			0.53	U	1	NA			0.58	U	1	0.59	U	1
beta-BHC	36	3000	0.0038	U	1	0.49	U	1	NA			NA			NA			NA			0.44	U	1	NA			0.48	U	1	0.49	U	1
2,4,5-T	NS	NS	0.020	U	1	1.5	U	1	NA			NA			NA			NA			1.3	U	1	NA			1.5	U	1	1.5	U	1
Dalapon	NS	NS	0.035	U	1	1.2	U	1	NA			NA			NA			NA			1.0	U	1	NA			1.1	U	1	1.2	U	1
delta-BHC	40	500000	0.0063	U	1	0.41	U	1	NA			NA			NA			NA			0.36	U	1	NA			0.40	U	1	0.41	U	1
Dicamba	NS	NS	0.042	U	1	0.69	U	1	NA			NA			NA			NA			0.61	U	1	NA			0.68	U	1	0.69	U	1
Dichloroprop	NS	NS	0.13	U	1	4.0	U	1	NA			NA			NA			NA			3.6	U	1	NA			3.9	U	1	4.0	U	1
gamma-BHC (Lindane)	100	9200	0.0042	U	1	0.32	U	1	NA			NA			NA			NA			0.28	U	1	NA			0.31	U	1	0.32	U	1
Dinoseb	NS	NS	0.071	U	1	3.2	U	1	NA			NA			NA			NA			2.8	U	1	NA			3.1	U	1	3.2	U	1
MCPA	NS	NS	16	U	1	540	U	1	NA			NA			NA			NA			480	U	1	NA			520	U	1	530	U	1
MCPP	NS	NS	6.8	U	1	280	U	1	NA			NA			NA			NA			250	U	1	NA			270	U	1	280	U	1
Pentachlorophenol	800	6700	0.024	U	1	1.1	U	1	NA			NA			NA			NA			1.0	U	1	NA			1.1	U	1	1.1	U	1
2,4-DB	NS	NS	0.15	U	1	12	U	1	NA			NA			NA			NA			10	U	1	NA			11	U	1	12	U	1
alpha-Chlordane	94	24000	0.0051	U	1	0.46	U	1	NA			NA			NA			NA			0.40	U	1	NA			0.45	U	1	0.45	U	1
gamma-Chlordane	NS	NS	0.0024	U	1	0.36	U	1	NA			NA			NA			NA			0.32	U	1	NA			1.8		1	0.35	U	1
Dieldrin	5	1400	0.0034	U	1	0.54	U	1	NA			NA			NA			NA			0.48	U	1	NA			0.53	U	1	0.54	U	1
4,4'-DDD	3.3	92000	0.0037	U	1	0.36	U	1	NA			NA			NA			NA			0.32	U	1	NA			0.35	U	1	0.36	U	1
4,4'-DDE	3.3	62000	0.0030	U	1	0.41	U	1	NA			NA			NA			NA			0.37	U	1	NA			0.40	U	1	0.41	U	1
4,4'-DDT	3.3	47000	0.0061	U	1	0.51	U	1	NA			NA			NA			NA			**19.2**		1	NA			**7.6**		1	0.51	U	1
Endrin	14	89000	0.0065	U	1	0.36	U	1	NA			NA			NA			NA			0.32	U	1	NA			0.35	U	1	0.35	U	1
Endosulfan sulfate	2400	200000	0.0066	U	1	0.63	U	1	NA			NA			NA			NA			0.56	U	1	NA			0.62	U	1	0.63	U	1
Endrin aldehyde	NS	NS	0.0029	U	1	0.66	U	1	NA			NA			NA			NA			0.59	U	1	NA			0.65	U	1	0.66	U	1
Endosulfan-I	2400	200000	0.0031	U	1	0.34	U	1	NA			NA			NA			NA			0.30	U	1	NA			0.33	U	1	0.34	U	1
Endosulfan-II	2400	200000	0.0028	U	1	0.46	U	1	NA			NA			NA			NA			0.41	U	1	NA			0.45	U	1	0.46	U	1
Heptachlor	42	15000	0.0086	U	1	0.43	U	1	NA			NA			NA			NA			0.38	U	1	NA			0.42	U	1	0.43	U	1
Heptachlor epoxide	NS	NS	0.0039	U	1	0.35	U	1	NA			NA			NA			NA			0.31	U	1	NA			0.34	U	1	0.34	U	1
Methoxychlor	NS	NS	0.0083	U	1	0.49	U	1	NA			NA			NA			NA			0.44	U	1	NA			0.48	U	1	0.49	U	1
Endrin ketone	NS	NS	0.0042	U	1	0.46	U	1	NA			NA			NA			NA			0.40	U	1	NA			0.44	U	1	0.45	U	1
Toxaphene	NS	NS	0.15	U	1	8.8	U	1	NA			NA			NA			NA			7.8	U	1	NA			8.6	U	1	8.8	U	1
Aroclor 1016	100	1000	0.13	U	1	9.1	U	1	8.2	U	1	8.6	U	1	8.9	U	1	8.9	U	1	8.1	U	1	NA			8.9	U	1	9.0	U	1
Aroclor 1221	100	1000	0.28	U	1	21	U	1	19	U	1	20	U	1	21	U	1	21	U	1	19	U	1	NA			21	U	1	21	U	1
Aroclor 1232	100	1000	0.39	U	1	18	U	1	16	U	1	17	U	1	17	U	1	17	U	1	16	U	1	NA			17	U	1	18	U	1
Aroclor 1242	100	1000	0.088	U	1	11	U	1	10	U	1	10	U	1	11	U	1	11	U	1	9.9	U	1	NA			11	U	1	11	U	1
Aroclor 1248	100	1000	0.15	U	1	11	U	1	9.6	U	1	10	U	1	10	U	1	10	U	1	9.4	U	1	NA			10	U	1	11	U	1
Aroclor 1254	100	1000	0.14	U	1	16	U	1	15	U	1	15	U	1	16	U	1	16	U	1	**340**		1	NA			16	U	1	16	U	1
Aroclor 1260	100	1000	0.21	U	1	**1580**		1	**1420**		1	**321**		1	**3570**		5	**348**		1	**172**		1	NA			11	U	1	11	U	1
Aroclor 1268	100	1000	0.13	U	1	10	U	1	9.3	U	1	9.7	U	1	10	U	1	10	U	1	9.1	U	1	NA			10	U	1	10	U	1
Aroclor 1262	100	1000	0.061	U	1	11	U	1	10	U	1	10	U	1	11	U	1	11	U	1	9.9	U	1	NA			11	U	1	11	U	1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	FB101811 JA89446-6 10/18/2011			B-HS JA89446-1 10/18/2011			SW-HS EAST JA89446-3 10/18/2011			SW-HS NORTH JA89446-2 10/18/2011			SW-HS SOUTH JA89446-5 10/18/2011			SW-HS WEST JA89446-4 10/18/2011			TRIP BLANK JA89559-9 10/19/2011			B-1 JA89559-1 10/19/2011			B-2 JA89559-2 10/19/2011			B-6 JA89559-3 10/19/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Metals Analysis (mg/kg)																															
Aluminum	NS	NS	200	U	1	5030		1	NA			NA			NA			NA			6520		1	NA			7570		1	4980		1
Antimony	NS	NS	6	U	1	2.4	U	1	NA			NA			NA			NA			2.1	U	1	NA			2.2	U	1	2.5	U	1
Arsenic	13	16	3	U	1	6.1		1	NA			NA			NA			NA			6.1		1	NA			12.7		1	12.4		1
Barium	350	400	200	U	1	71.2		1	NA			NA			NA			NA			137		1	NA			110		1	**499**		1
Beryllium	7.2	590	1	U	1	0.4		1	NA			NA			NA			NA			0.38		1	NA			0.43		1	0.36		1
Cadmium	2.5	9.3	3	U	1	0.6	U	1	NA			NA			NA			NA			0.74		1	NA			0.55	U	1	1.4		1
Calcium	NS	NS	5000	U	1	35000		1	NA			NA			NA			NA			24500		1	NA			32800		1	13900		1
Chromium	NS	NS	10	U	1	13.6		1	NA			NA			NA			NA			19.8		1	NA			19.9		1	32.5		1
Cobalt	NS	NS	50	U	1	7.5		1	NA			NA			NA			NA			5.2	U	1	NA			5.5	U	1	6.2	U	1
Copper	50	270	10	U	1	44.4		1	NA			NA			NA			NA			49.2		1	NA			**51.1**		1	**60.6**		1
Iron	NS	NS	100	U	1	10600		1	NA			NA			NA			NA			14600		1	NA			14400		1	41300		1
Lead	63	1000	3	U	1	**66.8**		1	NA			NA			NA			NA			**122**		1	NA			**91.2**		1	**235**		1
Magnesium	NS	NS	5000	U	1	16800		1	NA			NA			NA			NA			4630		1	NA			5470		1	2750		1
Manganese	1600	10000	15	U	1	223		1	NA			NA			NA			NA			218		1	NA			233		1	232		1
Mercury	0.18	2.8	0.2	U	**1**	**0.73**		**1**	NA			NA			NA			NA			**0.55**		**1**	NA			**0.28**		**1**	**0.64**		**1**
Nickel	30	310	10	U	1	24.9		1	NA			NA			NA			NA			18.2		1	NA			19.5		1	27.1		1
Potassium	NS	NS	10000	U	1	1200	U	1	NA			NA			NA			NA			1560		1	NA			1590		1	1200	U	1
Selenium	3.9	1500	10	U	1	2.4	U	1	NA			NA			NA			NA			2.1	U	1	NA			2.2	U	1	2.5	U	1
Silver	2	1500	10	U	1	0.6	U	1	NA			NA			NA			NA			0.52	U	1	NA			0.55	U	1	0.62	U	1
Sodium	NS	NS	10000	U	1	1200	U	1	NA			NA			NA			NA			1000	U	1	NA			1100	U	1	1200	U	1
Thallium	NS	NS	10	U	1	1.2	U	1	NA			NA			NA			NA			1	U	1	NA			1.1	U	1	1.2	U	1
Vanadium	NS	NS	50	U	1	15.2		1	NA			NA			NA			NA			29.8		1	NA			31.4		1	43.3		1
Zinc	109	10000	20	U	1	**202**		1	NA			NA			NA			NA			**194**		1	NA			**135**		1	**434**		1
General Chemistry																															
Solids, Percent (%)	NS	NS	NA			84.0		1	93.3		1	89.1		1	85.8		1	85.7		1	94.9		1	NA			86.0		1	84.7		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Conservation Part 375
Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit (MDL)
& below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 JA89559-4 10/19/2011			SW-1 JA89559-5 10/19/2011			SW-2 JA89559-6 10/19/2011			SW-23 JA89559-8 10/19/2011			SW-24 JA89559-7 10/19/2011			B-13(3.5-4) JA90399-5 10/27/2011			B-14(3.5-4) JA90399-6 10/27/2011			B-15(3.5-4) JA90399-7 10/27/2011			B-18(3.5-4) JA90399-8 10/27/2011			B-3(4.5-5) JA90399-3 10/27/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Acetone	50	500000	7.0	U	1	7.1	U	1	8.2	U	1	7.6	U	1	8.7	U	1	8.3	U	1	8.2	U	1	8.1	U	1	8.0	U	1	NA		
Benzene	60	44000	0.14	U	1	0.14	U	1	0.16	U	1	0.15	U	1	0.18	U	1	0.17	U	1	0.17	U	1	0.33	J	1	0.16	U	1	NA		
Bromochloromethane	NS	NS	0.55	U	1	0.55	U	1	0.64	U	1	0.60	U	1	0.68	U	1	0.65	U	1	0.65	U	1	0.63	U	1	0.63	U	1	NA		
Bromodichloromethane	NS	NS	0.24	U	1	0.24	U	1	0.28	U	1	0.26	U	1	0.30	U	1	0.28	U	1	0.28	U	1	0.27	U	1	0.27	U	1	NA		
Bromoform	NS	NS	0.80	U	1	0.81	U	1	0.93	U	1	0.87	U	1	0.99	U	1	0.94	U	1	0.94	U	1	0.92	U	1	0.92	U	1	NA		
Bromomethane	NS	NS	0.42	U	1	0.42	U	1	0.49	U	1	0.45	U	1	0.52	U	1	0.49	U	1	0.49	U	1	0.48	U	1	0.48	U	1	NA		
2-Butanone (MEK)	120	500000	4.6	U	1	4.6	U	1	5.3	U	1	5.0	U	1	5.7	U	1	5.4	U	1	5.4	U	1	5.3	U	1	5.3	U	1	NA		
Carbon disulfide	NS	NS	0.21	U	1	0.21	U	1	0.24	U	1	0.23	U	1	0.26	U	1	0.24	U	1	0.24	U	1	0.24	U	1	0.24	U	1	NA		
Carbon tetrachloride	760	22000	0.37	U	1	0.37	U	1	0.43	U	1	0.40	U	1	0.46	U	1	0.43	U	1	0.43	U	1	0.42	U	1	0.42	U	1	NA		
Chlorobenzene	1100	500000	0.34	U	1	0.34	U	1	0.40	U	1	0.37	U	1	0.42	U	1	0.40	U	1	0.40	U	1	0.39	U	1	0.39	U	1	NA		
Chloroethane	NS	NS	0.43	U	1	0.44	U	1	0.50	U	1	0.47	U	1	0.54	U	1	0.51	U	1	0.51	U	1	0.50	U	1	0.50	U	1	NA		
Chloroform	370	350000	0.51	U	1	0.52	U	1	0.60	U	1	0.56	U	1	0.64	U	1	0.60	U	1	0.60	U	1	0.59	U	1	0.59	U	1	NA		
Chloromethane	NS	NS	0.66	U	1	0.67	U	1	0.77	U	1	0.72	U	1	0.82	U	1	0.78	U	1	0.78	U	1	0.76	U	1	0.76	U	1	NA		
Cyclohexane	NS	NS	0.40	U	1	0.41	U	1	0.47	U	1	0.44	U	1	0.50	U	1	0.47	U	1	0.47	U	1	0.46	U	1	0.46	U	1	NA		
1,2-Dibromo-3-chloropropane	NS	NS	1.6	U	1	1.6	U	1	1.9	U	1	1.7	U	1	2.0	U	1	1.9	U	1	1.9	U	1	1.8	U	1	1.8	U	1	NA		
Dibromochloromethane	NS	NS	0.18	U	1	0.18	U	1	0.21	U	1	0.19	U	1	0.22	U	1	0.21	U	1	0.21	U	1	0.20	U	1	0.20	U	1	NA		
1,2-Dibromoethane	NS	NS	0.25	U	1	0.25	U	1	0.29	U	1	0.27	U	1	0.31	U	1	0.30	U	1	0.30	U	1	0.29	U	1	0.29	U	1	NA		
1,2-Dichlorobenzene	1100	500000	10.2		1	0.30	U	1	0.34	U	1	0.32	U	1	0.36	U	1	0.35	U	1	0.34	U	1	0.34	U	1	0.34	U	1	NA		
1,3-Dichlorobenzene	2400	280000	0.27	J	1	0.21	U	1	0.24	U	1	0.22	U	1	0.25	U	1	0.24	U	1	0.24	U	1	0.23	U	1	0.23	U	1	NA		
1,4-Dichlorobenzene	1800	130000	2.0	J	1	0.18	U	1	0.21	U	1	0.20	U	1	0.22	U	1	0.21	U	1	0.21	U	1	0.21	U	1	0.21	U	1	NA		
Dichlorodifluoromethane	NS	NS	0.34	U	1	0.34	U	1	0.40	U	1	0.37	U	1	0.42	U	1	0.40	U	1	0.40	U	1	0.39	U	1	0.39	U	1	NA		
1,1-Dichloroethane	270	240000	0.23	U	1	0.23	U	1	0.27	U	1	0.25	U	1	0.29	U	1	0.27	U	1	0.27	U	1	0.27	U	1	0.26	U	1	NA		
1,2-Dichloroethane	20	30000	0.19	U	1	0.19	U	1	0.22	U	1	0.21	U	1	0.24	U	1	0.23	U	1	0.23	U	1	0.22	U	1	0.22	U	1	NA		
1,1-Dichloroethene	330	500000	0.65	U	1	0.66	U	1	0.76	U	1	0.71	U	1	0.81	U	1	0.76	U	1	0.76	U	1	0.75	U	1	0.75	U	1	NA		
cis-1,2-Dichloroethene	250	500000	0.34	U	1	0.34	U	1	0.40	U	1	0.37	U	1	0.42	U	1	0.40	U	1	0.40	U	1	0.39	U	1	0.39	U	1	NA		
trans-1,2-Dichloroethene	190	500000	0.45	U	1	0.45	U	1	0.52	U	1	0.49	U	1	0.56	U	1	0.53	U	1	0.53	U	1	0.52	U	1	0.52	U	1	NA		
1,2-Dichloropropane	NS	NS	0.28	U	1	0.28	U	1	0.33	U	1	0.31	U	1	0.35	U	1	0.33	U	1	0.33	U	1	0.32	U	1	0.32	U	1	NA		
cis-1,3-Dichloropropene	NS	NS	0.16	U	1	0.16	U	1	0.19	U	1	0.18	U	1	0.20	U	1	0.19	U	1	0.19	U	1	0.19	U	1	0.18	U	1	NA		
trans-1,3-Dichloropropene	NS	NS	0.36	U	1	0.36	U	1	0.41	U	1	0.39	U	1	0.44	U	1	0.42	U	1	0.42	U	1	0.41	U	1	0.41	U	1	NA		
1,4-Dioxane	100	130000	62	U	1	62	U	1	72	U	1	67	U	1	77	U	1	73	U	1	72	U	1	71	U	1	71	U	1	NA		
Ethylbenzene	1000	390000	0.16	U	1	0.16	U	1	0.18	U	1	0.17	U	1	0.19	U	1	0.18	U	1	0.18	U	1	0.18	U	1	0.18	U	1	NA		
Freon 113	NS	NS	0.76	U	1	0.77	U	1	0.89	U	1	0.83	U	1	0.94	U	1	0.89	U	1	0.89	U	1	0.87	U	1	0.87	U	1	NA		
2-Hexanone	NS	NS	2.6	U	1	2.7	U	1	3.1	U	1	2.9	U	1	3.3	U	1	3.1	U	1	3.1	U	1	3.0	U	1	3.0	U	1	NA		
Isopropylbenzene	NS	NS	0.15	U	1	0.15	U	1	0.17	U	1	0.16	U	1	0.18	U	1	0.17	U	1	0.27	J	1	0.17	U	1	0.17	U	1	NA		
Methyl Acetate	NS	NS	2.4	U	1	2.4	U	1	2.7	U	1	2.6	U	1	2.9	U	1	2.8	U	1	2.8	U	1	2.7	U	1	2.7	U	1	NA		
Methylcyclohexane	NS	NS	0.26	U	1	0.26	U	1	0.30	U	1	0.28	U	1	0.32	U	1	0.31	U	1	0.30	U	1	0.30	U	1	0.30	U	1	NA		
Methyl Tert Butyl Ether	930	500000	0.19	U	1	0.19	U	1	0.22	U	1	0.21	U	1	0.24	U	1	0.22	U	1	0.22	U	1	0.22	U	1	0.22	U	1	NA		
4-Methyl-2-pentanone(MIBK)	NS	NS	2.8	U	1	2.8	U	1	3.2	U	1	3.0	U	1	3.5	U	1	3.3	U	1	3.3	U	1	3.2	U	1	3.2	U	1	NA		
Methylene chloride	50	500000	0.24	U	1	0.25	U	1	0.28	U	1	0.27	U	1	0.30	U	1	0.29	U	1	0.29	U	1	3.4	J	1	0.28	U	1	NA		
Styrene	NS	NS	0.20	U	1	0.20	U	1	0.23	U	1	0.21	U	1	0.24	U	1	0.23	U	1	0.23	U	1	0.23	U	1	0.22	U	1	NA		
1,1,2,2-Tetrachloroethane	NS	NS	0.19	U	1	0.19	U	1	0.22	U	1	0.21	U	1	0.24	U	1	0.22	U	1	0.22	U	1	0.22	U	1	0.22	U	1	NA		
Tetrachloroethene	1300	150000	0.20	U	1	0.20	U	1	0.24	U	1	0.22	U	1	0.25	U	1	0.24	U	1	0.24	U	1	0.23	U	1	0.83	J	1	NA		
Toluene	700	500000	0.40	U	1	0.40	U	1	0.47	U	1	0.44	U	1	0.50	U	1	0.47	U	1	0.47	U	1	0.46	U	1	0.46	U	1	NA		
1,2,3-Trichlorobenzene	NS	NS	0.47	U	1	0.47	U	1	0.54	U	1	0.51	U	1	0.58	U	1	0.55	U	1	0.55	U	1	0.53	U	1	0.53	U	1	NA		
1,2,4-Trichlorobenzene	NS	NS	0.36	U	1	0.36	U	1	0.42	U	1	0.39	U	1	0.45	U	1	0.43	U	1	0.42	U	1	0.42	U	1	0.41	U	1	NA		
1,1,1-Trichloroethane	680	500000	0.26	U	1	0.26	U	1	0.30	U	1	0.28	U	1	0.32	U	1	0.30	U	1	0.30	U	1	0.29	U	1	0.29	U	1	NA		
1,1,2-Trichloroethane	NS	NS	0.46	U	1	0.46	U	1	0.53	U	1	0.50	U	1	0.57	U	1	0.54	U	1	0.54	U	1	0.53	U	1	0.53	U	1	NA		
Trichloroethene	470	200000	0.26	U	1	0.26	U	1	0.30	U	1	0.29	U	1	0.33	U	1	0.31	U	1	0.31	U	1	0.30	U	1	0.30	U	1	NA		
Trichlorofluoromethane	NS	NS	0.51	U	1	0.52	U	1	0.60	U	1	0.56	U	1	0.64	U	1	0.60	U	1	0.60	U	1	0.59	U	1	0.59	U	1	NA		
Vinyl chloride	20	13000	0.49	U	1	0.49	U	1	0.57	U	1	0.53	U	1	0.61	U	1	0.58	U	1	0.57	U	1	0.56	U	1	0.56	U	1	NA		
m,p-Xylene	260	500000	0.33	U	1	0.34	U	1	0.39	U	1	0.36	U	1	0.41	U	1	0.39	U	1	0.39	U	1	0.38	U	1	0.68	J	1	NA		
o-Xylene	260	500000	0.20	U	1	0.20	U	1	0.23	U	1	0.21	U	1	0.24	U	1	0.23	U	1	0.23	U	1	0.22	U	1	0.33	J	1	NA		
Xylene (total)	260	500000	0.20	U	1	0.20	U	1	0.23	U	1	0.21	U	1	0.24	U	1	0.23	U	1	0.23	U	1	0.22	U	1	1.0	J	1	NA		
Total TIC, Volatile	NS	NS	0		1	0		1	0		1	0		1	0		1	0		1	953	J	1	0		1	1318	J	1	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 JA89559-4 10/19/2011			SW-1 JA89559-5 10/19/2011			SW-2 JA89559-6 10/19/2011			SW-23 JA89559-8 10/19/2011			SW-24 JA89559-7 10/19/2011			B-13(3.5-4) JA90399-5 10/27/2011			B-14(3.5-4) JA90399-6 10/27/2011			B-15(3.5-4) JA90399-7 10/27/2011			B-18(3.5-4) JA90399-8 10/27/2011			B-3(4.5-5) JA90399-3 10/27/2011
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
GC/MS Semi-volatiles (ug/kg)																															
2-Chlorophenol	NS	NS	32	U	1	33	U	1	36	U	1	33	U	1	35	U	1	35	U	1	70	U	2	33	U	1	34	U	1	NA		
4-Chloro-3-methyl phenol	NS	NS	32	U	1	33	U	1	36	U	1	33	U	1	35	U	1	35	U	1	70	U	2	33	U	1	33	U	1	NA		
2,4-Dichlorophenol	NS	NS	51	U	1	53	U	1	58	U	1	53	U	1	56	U	1	56	U	1	110	U	2	53	U	1	54	U	1	NA		
2,4-Dimethylphenol	NS	NS	53	U	1	84.3	J	1	60	U	1	55	U	1	95.9	J	1	108	J	1	188	J	2	55	U	1	56	U	1	NA		
2,4-Dinitrophenol	NS	NS	39	U	1	40	U	1	44	U	1	40	U	1	42	U	1	43	U	1	85	U	2	40	U	1	41	U	1	NA		
4,6-Dinitro-o-cresol	NS	NS	39	U	1	40	U	1	44	U	1	40	U	1	42	U	1	43	U	1	85	U	2	40	U	1	41	U	1	NA		
2-Methylphenol	330	500000	36	U	1	38	U	1	41	U	1	38	U	1	39	U	1	40	U	1	79	U	2	37	U	1	38	U	1	NA		
3&4-Methylphenol	NS	NS	40	U	1	93.9		1	46	U	1	42	U	1	183		1	80.9		1	89	U	2	42	U	1	42	U	1	NA		
2-Nitrophenol	NS	NS	34	U	1	35	U	1	38	U	1	35	U	1	37	U	1	37	U	1	74	U	2	35	U	1	35	U	1	NA		
4-Nitrophenol	NS	NS	53	U	1	56	U	1	61	U	1	56	U	1	59	U	1	59	U	1	120	U	2	55	U	1	56	U	1	NA		
Pentachlorophenol	800	6700	54	U	1	56	U	1	62	U	1	56	U	1	59	U	1	60	U	1	120	U	2	56	U	1	57	U	1	NA		
Phenol	330	500000	33	U	1	35	U	1	38	U	1	35	U	1	97.3		1	39.1	J	1	73	U	2	34	U	1	35	U	1	NA		
2,3,4,6-Tetrachlorophenol	NS	NS	33	U	1	34	U	1	37	U	1	34	U	1	36	U	1	36	U	1	72	U	2	34	U	1	34	U	1	NA		
2,4,5-Trichlorophenol	NS	NS	37	U	1	38	U	1	42	U	1	38	U	1	40	U	1	41	U	1	81	U	2	38	U	1	39	U	1	NA		
2,4,6-Trichlorophenol	NS	NS	30	U	1	31	U	1	34	U	1	31	U	1	33	U	1	33	U	1	66	U	2	31	U	1	31	U	1	NA		
Acenaphthene	20000	500000	197		1	11500		50	209		1	725		1	2140		1	3000		1	1200		2	738		1	172		1	NA		
Acenaphthylene	100000	500000	69.8		1	293		1	144		1	872		1	3370		1	1040		1	1360		2	433		1	83.6		1	NA		
Acetophenone	NS	NS	5.6	U	1	5.8	U	1	6.3	U	1	5.8	U	1	6.1	U	1	6.1	U	1	12	U	2	5.8	U	1	5.9	U	1	NA		
Anthracene	100000	500000	465		1	18100		50	504		1	2250		1	10400		20	7610		20	5720		2	2240		1	525		1	NA		
Atrazine	NS	NS	6.2	U	1	6.5	U	1	7.1	U	1	6.5	U	1	6.8	U	1	6.9	U	1	14	U	2	6.4	U	1	6.6	U	1	NA		
Benzo(a)anthracene	1000	5600	**1360**		1	**34700**		50	**1230**		1	**7310**		10	**25200**		20	**20000**		20	**26000**		20	**6920**		5	**1280**		1	NA		
Benzo(a)pyrene	1000	1000	**1310**		1	**31300**		50	**1310**		1	**7240**		10	**21000**		20	**21700**		20	**28600**		20	**6720**		5	**1430**		1	NA		
Benzo(b)fluoranthene	1000	5600	**1280**		1	**37400**		50	**1330**		1	**6410**		10	**18400**		20	**18900**		20	**46700**		20	**6380**		5	**1360**		1	NA		
Benzo(g,h,i)perylene	100000	500000	909		1	16400		50	858		1	4120		10	9750		20	12700		20	18500		20	3810		5	875		1	NA		
Benzo(k)fluoranthene	800	56000	775		1	**15000**		50	684		1	**5030**		10	**14200**		20	**14400**		20	26	U	2	**2470**		1	**800**		1	NA		
4-Bromophenyl phenyl ether	NS	NS	11	U	1	12	U	1	13	U	1	12	U	1	13	U	1	13	U	1	25	U	2	12	U	1	12	U	1	NA		
Butyl benzyl phthalate	NS	NS	18	U	1	88.1		1	21	U	1	19	U	1	20	U	1	20	U	1	40	U	2	19	U	1	19	U	1	NA		
1,1'-Biphenyl	NS	NS	3.7	U	1	474		1	4.2	U	1	53.9	J	1	271		1	211		1	59.0	J	2	47.4	J	1	15.2	J	1	NA		
Benzaldehyde	NS	NS	7.3	U	1	7.6	U	1	8.3	U	1	7.6	U	1	8.0	U	1	8.0	U	1	16	U	2	7.5	U	1	7.7	U	1	NA		
2-Chloronaphthalene	NS	NS	9.8	U	1	10	U	1	11	U	1	10	U	1	11	U	1	11	U	1	22	U	2	10	U	1	10	U	1	NA		
4-Chloroaniline	NS	NS	10	U	1	11	U	1	12	U	1	11	U	1	11	U	1	11	U	1	22	U	2	10	U	1	11	U	1	NA		
Carbazole	NS	NS	139		1	7210		50	155		1	659		1	2060		1	1680		1	3050		2	850		1	146		1	NA		
Caprolactam	NS	NS	10	U	1	10	U	1	11	U	1	10	U	1	11	U	1	11	U	1	22	U	2	10	U	1	11	U	1	NA		
Chrysene	1000	56000	**1400**		1	**33400**		50	**1300**		1	**6890**		10	22500		20	**21200**		20	**28000**		20	**6850**		5	1390		1	NA		
bis(2-Chloroethoxy)methane	NS	NS	13	U	1	13	U	1	15	U	1	13	U	1	14	U	1	14	U	1	28	U	2	13	U	1	13	U	1	NA		
bis(2-Chloroethyl)ether	NS	NS	9.5	U	1	9.9	U	1	11	U	1	9.9	U	1	10	U	1	11	U	1	21	U	2	9.8	U	1	10	U	1	NA		
bis(2-Chloroisopropyl)ether	NS	NS	9.4	U	1	9.8	U	1	11	U	1	9.8	U	1	10	U	1	10	U	1	21	U	2	9.7	U	1	9.9	U	1	NA		
4-Chlorophenyl phenyl ether	NS	NS	9.5	U	1	9.9	U	1	11	U	1	9.9	U	1	10	U	1	11	U	1	21	U	2	9.8	U	1	10	U	1	NA		
2,4-Dinitrotoluene	NS	NS	14	U	1	14	U	1	16	U	1	14	U	1	15	U	1	15	U	1	30	U	2	14	U	1	15	U	1	NA		
2,6-Dinitrotoluene	NS	NS	12	U	1	13	U	1	14	U	1	13	U	1	13	U	1	13	U	1	27	U	2	12	U	1	13	U	1	NA		
3,3'-Dichlorobenzidine	NS	NS	8.0	U	1	8.4	U	1	9.1	U	1	8.4	U	1	8.8	U	1	8.9	U	1	18	U	2	8.3	U	1	8.5	U	1	NA		
Dibenzo(a,h)anthracene	330	560	308		1	11	U	1	**345**		1	**1770**		1	**3560**		20	**5440**		20	**5610**		2	**1330**		1	**399**		1	NA		
Dibenzofuran	7000	350000	95.0		1	5640		50	115		1	366		1	2070		1	1550		1	1120		2	414		1	82.1		1	NA		
Di-n-butyl phthalate	NS	NS	7.0	U	1	7.3	U	1	8.0	U	1	7.3	U	1	131		1	7.8	U	1	15	U	2	7.3	U	1	7.4	U	1	NA		
Di-n-octyl phthalate	NS	NS	15	U	1	16	U	1	18	U	1	16	U	1	17	U	1	17	U	1	34	U	2	16	U	1	16	U	1	NA		
Diethyl phthalate	NS	NS	11	U	1	11	U	1	12	U	1	11	U	1	12	U	1	12	U	1	24	U	2	11	U	1	11	U	1	NA		
Dimethyl phthalate	NS	NS	11	U	1	12	U	1	13	U	1	59.4	J	1	12	U	1	12	U	1	25	U	2	12	U	1	43.0	J	1	NA		
bis(2-Ethylhexyl)phthalate	NS	NS	28	U	1	176		1	65.1	J	1	81.1		1	41.9	J	1	31	U	1	138	J	2	69.9		1	29	U	1	NA		
Fluoranthene	100000	500000	2420		1	79400		50	2450		1	12600		10	40800		20	42000		20	43000		20	13400		5	2480		1	NA		
Fluorene	30000	500000	153		1	9520		50	215		1	735		1	4720		20	2190		1	1640		2	707		1	139		1	NA		
Hexachlorobenzene	330	330	10	U	1	11	U	1	12	U	1	11	U	1	11	U	1	11	U	1	23	U	2	11	U	1	11	U	1	NA		
Hexachlorobutadiene	NS	NS	8.8	U	1	9.2	U	1	10	U	1	9.2	U	1	9.6	U	1	9.7	U	1	19	U	2	9.1	U	1	9.3	U	1	NA		
Hexachlorocyclopentadiene	NS	NS	32	U	1	34	U	1	37	U	1	34	U	1	35	U	1	36	U	1	71	U	2	33	U	1	34	U	1	NA		
Hexachloroethane	NS	NS	8.8	U	1	9.2	U	1	10	U	1	9.2	U	1	9.6	U	1	9.7	U	1	19	U	2	9.1	U	1	9.3	U	1	NA		
Indeno(1,2,3-cd)pyrene	500	5600	974		1	**21100**		50	**959**		1	**4340**		10	**11900**		20	**11300**		20	**16400**		20	**3160**		1	**801**		1	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 JA89559-4 10/19/2011			SW-1 JA89559-5 10/19/2011			SW-2 JA89559-6 10/19/2011			SW-23 JA89559-8 10/19/2011			SW-24 JA89559-7 10/19/2011			B-13(3.5-4) JA90399-5 10/27/2011			B-14(3.5-4) JA90399-6 10/27/2011			B-15(3.5-4) JA90399-7 10/27/2011			B-18(3.5-4) JA90399-8 10/27/2011			B-3(4.5-5) JA90399-3 10/27/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Isophorone	NS	NS	8.5	U	1	8.9	U	1	9.7	U	1	8.9	U	1	9.3	U	1	9.4	U	1	19	U	2	8.8	U	1	9.0	U	1	NA		
2-Methylnaphthalene	NS	NS	43.9	J	1	1440		1	64.1	J	1	177		1	930		1	540		1	297		2	133		1	43.3	J	1	NA		
2-Nitroaniline	NS	NS	14	U	1	15	U	1	16	U	1	15	U	1	15	U	1	15	U	1	31	U	2	14	U	1	15	U	1	NA		
3-Nitroaniline	NS	NS	13	U	1	13	U	1	14	U	1	13	U	1	14	U	1	14	U	1	28	U	2	13	U	1	13	U	1	NA		
4-Nitroaniline	NS	NS	12	U	1	13	U	1	14	U	1	13	U	1	14	U	1	14	U	1	27	U	2	13	U	1	13	U	1	NA		
Naphthalene	12000	500000	69.2		1	2570		1	86.0		1	231		1	1180		1	894		1	392		2	291		1	84.4		1	NA		
Nitrobenzene	NS	NS	9.1	U	1	9.5	U	1	10	U	1	9.5	U	1	10	U	1	10	U	1	20	U	2	9.4	U	1	9.6	U	1	NA		
N-Nitroso-di-n-propylamine	NS	NS	7.7	U	1	8.1	U	1	8.8	U	1	8.1	U	1	8.5	U	1	8.5	U	1	17	U	2	8.0	U	1	8.1	U	1	NA		
N-Nitrosodiphenylamine	NS	NS	19	U	1	20	U	1	21	U	1	20	U	1	21	U	1	21	U	1	42	U	2	20	U	1	20	U	1	NA		
Phenanthrene	100000	500000	1710		1	71000		50	2010		1	8010		10	30400		20	27900		20	32700		20	8430		5	1490		1	NA		
Pyrene	100000	500000	2580		1	72000		50	2080		1	12200		10	40900		20	38300		20	46200		20	11800		5	2270		1	NA		
1,2,4,5-Tetrachlorobenzene	NS	NS	9.7	U	1	10	U	1	11	U	1	10	U	1	11	U	1	11	U	1	21	U	2	10	U	1	10	U	1	NA		
Total TIC, Semi-Volatile	NS	NS	6370	J	1	14340	J	1	6800	J	1	21050	J	1	20750	J	1	12420	J	1	73320	J	2	26120	J	1	14840	J	1	NA		
Aldrin	5	680	0.32	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-D	NS	NS	4.6	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-BHC	20	3400	0.49	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	3800	500000	0.55	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
beta-BHC	36	3000	0.46	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-T	NS	NS	1.4	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dalapon	NS	NS	1.1	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
delta-BHC	40	500000	0.38	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dicamba	NS	NS	0.64	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dichloroprop	NS	NS	3.7	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	0.30	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dinoseb	NS	NS	3.0	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPA	NS	NS	500	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPP	NS	NS	260	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	800	6700	1.1	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-DB	NS	NS	11	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-Chlordane	94	24000	0.42	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-Chlordane	NS	NS	0.33	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dieldrin	5	1400	0.50	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDD	3.3	92000	0.33	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDE	3.3	62000	1.9		1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDT	3.3	47000	**7.3**		1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	14	89000	0.33	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan sulfate	2400	200000	0.59	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin aldehyde	NS	NS	0.62	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-I	2400	200000	0.31	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-II	2400	200000	0.43	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	42	15000	0.40	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NS	NS	0.32	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NS	NS	0.46	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin ketone	NS	NS	0.42	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NS	NS	8.2	U	1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Aroclor 1016	100	1000	8.5	U	1	8.8	U	1	9.6	U	1	8.8	U	1	9.3	U	1	9.3	U	1	9.3	U	1	8.7	U	1	8.9	U	1	NA		
Aroclor 1221	100	1000	20	U	1	20	U	1	22	U	1	20	U	1	21	U	1	22	U	1	22	U	1	20	U	1	21	U	1	NA		
Aroclor 1232	100	1000	16	U	1	17	U	1	19	U	1	17	U	1	18	U	1	18	U	1	18	U	1	17	U	1	17	U	1	NA		
Aroclor 1242	100	1000	10	U	1	11	U	1	12	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	NA		
Aroclor 1248	100	1000	9.9	U	1	10	U	1	11	U	1	10	U	1	11	U	1	11	U	1	11	U	1	206		1	10	U	1	NA		
Aroclor 1254	100	1000	15	U	1	16	U	1	**172**		1	**227**		1	77.9		1	17	U	1	17	U	1	**183**		1	16	U	1	NA		
Aroclor 1260	100	1000	11	U	1	**325**		1	89.7		1	**261**		1	58.5		1	12	U	1	12	U	1	11	U	1	11	U	1	NA		
Aroclor 1268	100	1000	9.6	U	1	10	U	1	11	U	1	10	U	1	10	U	1	11	U	1	11	U	1	**101**		1	10	U	1	NA		
Aroclor 1262	100	1000	10	U	1	11	U	1	12	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	11	U	1	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 JA89559-4 10/19/2011			SW-1 JA89559-5 10/19/2011			SW-2 JA89559-6 10/19/2011			SW-23 JA89559-8 10/19/2011			SW-24 JA89559-7 10/19/2011			B-13(3.5-4) JA90399-5 10/27/2011			B-14(3.5-4) JA90399-6 10/27/2011			B-15(3.5-4) JA90399-7 10/27/2011			B-18(3.5-4) JA90399-8 10/27/2011			B-3(4.5-5) JA90399-3 10/27/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Metals Analysis (mg/kg)																																
Aluminum	NS	NS	6460		1	7460		1	9420		1	7370		1	6300		1	7410		1	6560		1	6120		1	5030		1	NA		
Antimony	NS	NS	2.2	U	1	2.3	U	1	2	U	1	2.2	U	1	2.4	U	1	2.4	U	1	2.5	U	1	2.3	U	1	2.3	U	1	NA		
Arsenic	13	16	**46.5**		1	7.6		1	5.8		1	10		1	12.2		1	**19.2**		1	10.9		1	8.5		1	**14.1**		1	6.4		1
Barium	350	400	113		1	155		1	138		1	141		1	136		1	232		1	**1120**		1	260		1	90.4		1	NA		
Beryllium	7.2	590	0.65		1	0.59		1	0.45		1	0.48		1	0.39		1	0.51		1	0.58		1	0.4		1	0.33		1	NA		
Cadmium	2.5	9.3	1.5		1	0.58	U	1	0.5	U	1	0.56	U	1	0.61		1	0.64		1	0.62	U	1	0.57	U	1	0.58	U	1	NA		
Calcium	NS	NS	17800		1	36800		1	17700		1	26500		1	19000		1	14400		1	42100		1	30300		1	11300		1	NA		
Chromium	NS	NS	21.8		1	25.4		1	25.4		1	19.8		1	19.3		1	14.4		1	17.2		1	20		1	15.3		1	NA		
Cobalt	NS	NS	5.4		1	5.8	U	1	7.5		1	5.9		1	6.1	U	1	6.4		1	6.2	U	1	5.7	U	1	5.8	U	1	NA		
Copper	50	270	**96.1**		1	49.4		1	**71.6**		1	**72.2**		1	**70.4**		1	**52.3**		1	**74.5**		1	**55**		1	**62.1**		1	NA		
Iron	NS	NS	24000		1	19900		1	17500		1	17100		1	14600		1	17600		1	13700		1	18300		1	13100		1	NA		
Lead	63	1000	**123**		1	**179**		1	**147**		1	**153**		1	**152**		1	**166**		1	**1010**		1	**149**		1	**207**		1	NA		
Magnesium	NS	NS	3140		1	13500		1	3930		1	5810		1	3160		1	4730		1	3260		1	3780		1	1950		1	NA		
Manganese	1600	10000	183		1	240		1	249		1	250		1	217		1	367		1	176		1	217		1	146		1	NA		
Mercury	0.18	2.8	**0.26**		**1**	**0.62**		**1**	**0.49**		**1**	**0.65**		**1**	**0.55**		**1**	**1.1**		**2**	**0.7**		**1**	**0.93**		**2**	**0.28**		**1**	NA		
Nickel	30	310	**38.2**		1	20		1	23		1	24.4		1	21.3		1	21.1		1	15.9		1	18		1	22.5		1	NA		
Potassium	NS	NS	1290		1	1480		1	2060		1	1710		1	1200	U	1	1200	U	1	1200	U	1	1100	U	1	1200	U	1	NA		
Selenium	3.9	1500	2.2	U	1	2.3	U	1	2	U	1	2.2	U	1	2.4	U	1	3.1		1	2.5	U	1	2.3	U	1	2.3	U	1	NA		
Silver	2	1500	0.54	U	1	0.58	U	1	0.5	U	1	0.56	U	1	0.61	U	1	0.59	U	1	0.62	U	1	0.57	U	1	0.58	U	1	NA		
Sodium	NS	NS	1100	U	1	1200	U	1	1000	U	1	1100	U	1	1200	U	1	1200	U	1	1200	U	1	1100	U	1	1200	U	1	NA		
Thallium	NS	NS	2.6		1	1.2	U	1	1	U	1	1.1	U	1	1.2	U	1	1.2	U	1	1.2	U	1	1.1	U	1	1.2	U	1	NA		
Vanadium	NS	NS	113		1	30.7		1	34.5		1	37		1	28.6		1	25.7		1	19.4		1	33.6		1	35.8		1	NA		
Zinc	109	10000	**354**		1	**194**		1	**289**		1	**206**		1	**232**		1	**319**		1	**705**		1	**281**		1	106		1	NA		
General Chemistry																																
Solids, Percent (%)	NS	NS	90.4		1	86.6		1	79.4		1	86.6		1	82.5		1	81.8		1	82.0		1	87.4		1	85.7		1	81.5		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-8(4.5-5) JA90399-4 10/27/2011			SW-3(3-3.5) JA90399-1 10/27/2011			SW-4(3-3.5) JA90399-2 10/27/2011			FB 102811 JA90552-15 10/28/2011			TRIP BLANK JA90552-16 10/28/2011			B-10 (4.5-5) JA90552-3 10/28/2011			B-19 (3.5-4) JA90552-4 10/28/2011			B-20 (3.5-4) JA90552-5 10/28/2011			B-21 (3.5-4) JA90552-7 10/28/2011			B-22 (3.5-4) JA90552-8 10/28/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Acetone	50	500000	NA			7.8	U	1	8.5	U	1	<7.6		1	<7.6		1	NA			<10		1	<8.0		1	<7.5		1	35.2		1
Benzene	60	44000	NA			0.16	U	1	0.17	U	1	<0.22		1	<0.22		1	NA			<0.21		1	<0.16		1	<0.15		1	<0.18		1
Bromochloromethane	NS	NS	NA			0.61	U	1	0.67	U	1	<0.40		1	<0.40		1	NA			<0.81		1	<0.62		1	<0.59		1	<0.70		1
Bromodichloromethane	NS	NS	NA			0.26	U	1	0.29	U	1	<0.23		1	<0.23		1	NA			<0.35		1	<0.27		1	<0.26		1	<0.30		1
Bromoform	NS	NS	NA			0.89	U	1	0.97	U	1	<0.24		1	<0.24		1	NA			<1.2		1	<0.91		1	<0.86		1	<1.0		1
Bromomethane	NS	NS	NA			0.46	U	1	0.50	U	1	<0.31		1	<0.31		1	NA			<0.61		1	<0.47		1	<0.45		1	<0.53		1
2-Butanone (MEK)	120	500000	NA			5.1	U	1	5.5	U	1	<2.9		1	<2.9		1	NA			<6.7		1	<5.2		1	<4.9		1	<5.8		1
Carbon disulfide	NS	NS	NA			0.23	U	1	0.25	U	1	<0.18		1	<0.18		1	NA			<0.31		1	<0.24		1	<0.22		1	0.70	J	1
Carbon tetrachloride	760	22000	NA			0.41	U	1	0.44	U	1	<0.19		1	<0.19		1	NA			<0.54		1	<0.42		1	<0.39		1	<0.46		1
Chlorobenzene	1100	500000	NA			0.38	U	1	0.41	U	1	<0.22		1	<0.22		1	NA			<0.50		1	<0.39		1	<0.37		1	<0.43		1
Chloroethane	NS	NS	NA			0.48	U	1	0.52	U	1	<0.37		1	<0.37		1	NA			<0.64		1	<0.49		1	<0.46		1	<0.55		1
Chloroform	370	350000	NA			0.57	U	1	0.62	U	1	<0.21		1	<0.21		1	NA			<0.75		1	<0.58		1	<0.55		1	<0.65		1
Chloromethane	NS	NS	NA			0.73	U	1	0.80	U	1	<0.22		1	<0.22		1	NA			<0.97		1	<0.75		1	<0.71		1	<0.84		1
Cyclohexane	NS	NS	NA			0.45	U	1	0.49	U	1	<0.29		1	<0.29		1	NA			<0.59		1	<0.46		1	<0.43		1	<0.51		1
1,2-Dibromo-3-chloropropane	NS	NS	NA			1.8	U	1	1.9	U	1	<1.3		1	<1.3		1	NA			<2.4		1	<1.8		1	<1.7		1	<2.0		1
Dibromochloromethane	NS	NS	NA			0.20	U	1	0.22	U	1	<0.20		1	<0.20		1	NA			<0.26		1	<0.20		1	<0.19		1	<0.23		1
1,2-Dibromoethane	NS	NS	NA			0.28	U	1	0.31	U	1	<0.21		1	<0.21		1	NA			<0.37		1	<0.29		1	<0.27		1	<0.32		1
1,2-Dichlorobenzene	1100	500000	NA			0.33	U	1	0.36	U	1	<0.18		1	<0.18		1	NA			<0.43		1	<0.33		1	<0.32		1	<0.37		1
1,3-Dichlorobenzene	2400	280000	NA			0.23	U	1	0.25	U	1	<0.29		1	<0.29		1	NA			<0.30		1	<0.23		1	<0.22		1	<0.26		1
1,4-Dichlorobenzene	1800	130000	NA			0.20	U	1	0.22	U	1	<0.26		1	<0.26		1	NA			<0.26		1	<0.20		1	<0.19		1	<0.23		1
Dichlorodifluoromethane	NS	NS	NA			0.38	U	1	0.41	U	1	<0.31		1	<0.31		1	NA			<0.50		1	<0.39		1	<0.37		1	<0.43		1
1,1-Dichloroethane	270	240000	NA			0.26	U	1	0.28	U	1	<0.19		1	<0.19		1	NA			<0.34		1	<0.26		1	<0.25		1	<0.29		1
1,2-Dichloroethane	20	30000	NA			0.21	U	1	0.23	U	1	<0.18		1	<0.18		1	NA			<0.28		1	<0.22		1	<0.21		1	<0.24		1
1,1-Dichloroethene	330	500000	NA			0.72	U	1	0.79	U	1	<0.28		1	<0.28		1	NA			<0.96		1	<0.74		1	<0.70		1	<0.82		1
cis-1,2-Dichloroethene	250	500000	NA			0.38	U	1	0.41	U	1	<0.22		1	<0.22		1	NA			<0.50		1	<0.39		1	<0.37		1	<0.43		1
trans-1,2-Dichloroethene	190	500000	NA			0.50	U	1	0.54	U	1	<0.31		1	<0.31		1	NA			<0.66		1	<0.51		1	<0.48		1	<0.57		1
1,2-Dichloropropane	NS	NS	NA			0.31	U	1	0.34	U	1	<0.22		1	<0.22		1	NA			<0.41		1	<0.32		1	<0.30		1	<0.36		1
cis-1,3-Dichloropropene	NS	NS	NA			0.18	U	1	0.19	U	1	<0.22		1	<0.22		1	NA			<0.24		1	<0.18		1	<0.17		1	<0.20		1
trans-1,3-Dichloropropene	NS	NS	NA			0.40	U	1	0.43	U	1	<0.19		1	<0.19		1	NA			<0.52		1	<0.40		1	<0.38		1	<0.45		1
1,4-Dioxane	100	130000	NA			69	U	1	75	U	1	<72		1	<72		1	NA			<91		1	<70		1	<66		1	<78		1
Ethylbenzene	1000	390000	NA			0.17	U	1	0.19	U	1	<0.21		1	<0.21		1	NA			<0.23		1	<0.18		1	0.46	J	1	<0.20		1
Freon 113	NS	NS	NA			0.84	U	1	0.92	U	1	<0.49		1	<0.49		1	NA			<1.1		1	<0.86		1	<0.82		1	<0.96		1
2-Hexanone	NS	NS	NA			2.9	U	1	3.2	U	1	<3.0		1	<3.0		1	NA			<3.9		1	<3.0		1	<2.8		1	<3.3		1
Isopropylbenzene	NS	NS	NA			0.16	U	1	0.18	U	1	<0.19		1	<0.19		1	NA			<0.21		1	<0.16		1	<0.16		1	<0.18		1
Methyl Acetate	NS	NS	NA			2.6	U	1	2.8	U	1	<2.9		1	<2.9		1	NA			<3.5		1	<2.7		1	<2.5		1	<3.0		1
Methylcyclohexane	NS	NS	NA			0.29	U	1	0.31	U	1	<0.18		1	<0.18		1	NA			<0.38		1	<0.29		1	<0.28		1	<0.33		1
Methyl Tert Butyl Ether	930	500000	NA			0.21	U	1	0.23	U	1	<0.18		1	<0.18		1	NA			<0.28		1	<0.22		1	<0.20		1	<0.24		1
4-Methyl-2-pentanone(MIBK)	NS	NS	NA			3.1	U	1	3.4	U	1	<1.2		1	<1.2		1	NA			<4.1		1	<3.2		1	<3.0		1	<3.5		1
Methylene chloride	50	500000	NA			0.27	U	1	0.29	U	1	<0.20		1	<0.20		1	NA			<0.36		1	<0.28		1	<0.26		1	<0.31		1
Styrene	NS	NS	NA			0.22	U	1	0.24	U	1	<0.23		1	<0.23		1	NA			<0.29		1	<0.22		1	<0.21		1	1.4	J	1
1,1,2,2-Tetrachloroethane	NS	NS	NA			0.21	U	1	0.23	U	1	<0.20		1	<0.20		1	NA			<0.28		1	<0.22		1	<0.20		1	<0.24		1
Tetrachloroethene	1300	150000	NA			0.22	U	1	0.24	U	1	<0.32		1	<0.32		1	NA			<0.30		1	<0.23		1	<0.22		1	<0.26		1
Toluene	700	500000	NA			0.44	U	1	0.48	U	1	<0.15		1	<0.15		1	NA			<0.59		1	<0.45		1	<0.43		1	<0.51		1
1,2,3-Trichlorobenzene	NS	NS	NA			0.52	U	1	0.56	U	1	<0.69		1	<0.69		1	NA			<0.68		1	<0.53		1	<0.50		1	<0.59		1
1,2,4-Trichlorobenzene	NS	NS	NA			0.40	U	1	0.44	U	1	<0.15		1	<0.15		1	NA			<0.53		1	<0.41		1	<0.39		1	<0.46		1
1,1,1-Trichloroethane	680	500000	NA			0.28	U	1	0.31	U	1	<0.24		1	<0.24		1	NA			<0.38		1	<0.29		1	<0.27		1	<0.32		1
1,1,2-Trichloroethane	NS	NS	NA			0.51	U	1	0.55	U	1	<0.23		1	<0.23		1	NA			<0.67		1	<0.52		1	<0.49		1	<0.58		1
Trichloroethene	470	200000	NA			0.29	U	1	0.32	U	1	<0.21		1	<0.21		1	NA			<0.38		1	<0.30		1	<0.28		1	<0.33		1
Trichlorofluoromethane	NS	NS	NA			0.57	U	1	0.62	U	1	<0.35		1	<0.35		1	NA			<0.75		1	<0.58		1	<0.55		1	<0.65		1
Vinyl chloride	20	13000	NA			0.54	U	1	0.59	U	1	<0.27		1	<0.27		1	NA			<0.72		1	<0.55		1	<0.53		1	<0.62		1
m,p-Xylene	260	500000	NA			0.37	U	1	0.40	U	1	<0.32		1	<0.32		1	NA			<0.49		1	<0.38		1	1.4		1	<0.42		1
o-Xylene	260	500000	NA			0.22	U	1	0.24	U	1	<0.17		1	<0.17		1	NA			<0.29		1	<0.22		1	0.45	J	1	<0.25		1
Xylene (total)	260	500000	NA			0.22	U	1	0.24	U	1	<0.17		1	<0.17		1	NA			<0.29		1	<0.22		1	1.9		1	0.36	J	1
Total TIC, Volatile	NS	NS	NA			0		1	62	J	1	0			0			0			0			0			4.21			37.66		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-8(4.5-5) JA90399-4 10/27/2011			SW-3(3-3.5) JA90399-1 10/27/2011			SW-4(3-3.5) JA90399-2 10/27/2011			FB 102811 JA90552-15 10/28/2011			TRIP BLANK JA90552-16 10/28/2011			B-10 (4.5-5) JA90552-3 10/28/2011			B-19 (3.5-4) JA90552-4 10/28/2011			B-20 (3.5-4) JA90552-5 10/28/2011			B-21 (3.5-4) JA90552-7 10/28/2011			B-22 (3.5-4) JA90552-8 10/28/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
GC/MS Semi-volatiles (ug/kg)																																
2-Chlorophenol	NS	NS	NA			33	U	1	35	U	1	<0.97		1	NA			NA			<36		1	<34		1	<33		1	<35		1
4-Chloro-3-methyl phenol	NS	NS	NA			32	U	1	34	U	1	<1.8		1	NA			NA			<36		1	<34		1	<33		1	<35		1
2,4-Dichlorophenol	NS	NS	NA			52	U	1	55	U	1	<1.2		1	NA			NA			<57		1	<54		1	<52		1	<56		1
2,4-Dimethylphenol	NS	NS	NA			73.5	J	1	58	U	1	<1.5		1	NA			NA			<60		1	159	J	1	<55		1	75.3	J	1
2,4-Dinitrophenol	NS	NS	NA			39	U	1	42	U	1	<17		1	NA			NA			<43		1	<41		1	<40		1	<42		1
4,6-Dinitro-o-cresol	NS	NS	NA			39	U	1	42	U	1	<0.99		1	NA			NA			<43		1	<41		1	<40		1	<42		1
2-Methylphenol	330	500000	NA			37	U	1	39	U	1	<1.0		1	NA			NA			<41		1	61.2	J	1	<37		1	<39		1
3&4-Methylphenol	NS	NS	NA			46.1	J	1	44	U	1	<0.93		1	NA			NA			<45		1	219		1	<41		1	<44		1
2-Nitrophenol	NS	NS	NA			34	U	1	36	U	1	<1.5		1	NA			NA			<38		1	<36		1	<34		1	<37		1
4-Nitrophenol	NS	NS	NA			55	U	1	58	U	1	<5.2		1	NA			NA			<60		1	<57		1	<55		1	<58		1
Pentachlorophenol	800	6700	NA			55	U	1	59	U	1	<1.4		1	NA			NA			<61		1	<58		1	<56		1	<59		1
Phenol	330	500000	NA			34	U	1	36	U	1	<1.3		1	NA			NA			<37		1	<35		1	<34		1	<36		1
2,3,4,6-Tetrachlorophenol	NS	NS	NA			33	U	1	35	U	1	<0.94		1	NA			NA			<37		1	<35		1	<34		1	<36		1
2,4,5-Trichlorophenol	NS	NS	NA			37	U	1	40	U	1	<1.6		1	NA			NA			<41		1	<39		1	<38		1	<40		1
2,4,6-Trichlorophenol	NS	NS	NA			30	U	1	32	U	1	<1.3		1	NA			NA			<33		1	<32		1	<31		1	<32		1
Acenaphthene	20000	500000	NA			1500		1	4800		20	<0.26		1	NA			NA			196		1	1000		1	52.4		1	5890		50
Acenaphthylene	100000	500000	NA			143		1	387		1	<0.23		1	NA			NA			141		1	1310		1	58.9		1	301		1
Acetophenone	NS	NS	NA			5.7	U	1	6.1	U	1	<0.29		1	NA			NA			<6.3		1	<5.9		1	<5.7		1	83.1	J	1
Anthracene	100000	500000	NA			2590		1	7050		20	<0.29		1	NA			NA			260		1	2020		1	136		1	9340		50
Atrazine	NS	NS	NA			6.4	U	1	6.8	U	1	<0.49		1	NA			NA			<7.0		1	<6.6		1	<6.4		1	<6.8		1
Benzo(a)anthracene	1000	5600	NA			**5730**		10	**11300**		20	<3.3		1	NA			NA			529		1	**4800**		10	429		1	**14100**		50
Benzo(a)pyrene	1000	1000	NA			**4470**		10	**8190**		20	<0.23		1	NA			NA			571		1	**11700**		10	463		1	**13200**		50
Benzo(b)fluoranthene	1000	5600	NA			**4490**		10	**11500**		20	<0.23		1	NA			NA			506		1	**11000**		10	331		1	**11700**		50
Benzo(g,h,i)perylene	100000	500000	NA			2260		1	5140		20	<0.46		1	NA			NA			478		1	12000		10	310		1	7210		50
Benzo(k)fluoranthene	800	56000	NA			**2400**		1	**2580**		1	<0.32		1	NA			NA			379		1	**8070**		10	388		1	**9970**		50
4-Bromophenyl phenyl ether	NS	NS	NA			12	U	1	12	U	1	<0.51		1	NA			NA			<13		1	<12		1	<12		1	<13		1
Butyl benzyl phthalate	NS	NS	NA			19	U	1	20	U	1	<0.36		1	NA			NA			<21		1	<19		1	<19		1	181		1
1,1'-Biphenyl	NS	NS	NA			107		1	395		1	<0.29		1	NA			NA			25.3	J	1	72.2		1	<3.8		1	344		1
Benzaldehyde	NS	NS	NA			7.4	U	1	7.9	U	1	<0.30		1	NA			NA			<8.2		1	<7.7		1	<7.5		1	<7.9		1
2-Chloronaphthalene	NS	NS	NA			10	U	1	11	U	1	<0.30		1	NA			NA			<11		1	<10		1	<10		1	<11		1
4-Chloroaniline	NS	NS	NA			10	U	1	11	U	1	<0.53		1	NA			NA			<11		1	<11		1	<10		1	<11		1
Carbazole	NS	NS	NA			869		1	2800		1	<0.36		1	NA			NA			40.7	J	1	405		1	40.9	J	1	3710		50
Caprolactam	NS	NS	NA			10	U	1	11	U	1	<0.69		1	NA			NA			<11		1	<11		1	<10		1	<11		1
Chrysene	1000	56000	NA			**5400**		10	10800		20	<0.29		1	NA			NA			648		1	**5900**		10	456		1	**14500**		50
bis(2-Chloroethoxy)methane	NS	NS	NA			13	U	1	14	U	1	<0.31		1	NA			NA			<14		1	<14		1	<13		1	<14		1
bis(2-Chloroethyl)ether	NS	NS	NA			9.7	U	1	10	U	1	<0.31		1	NA			NA			<11		1	<10		1	<9.8		1	<10		1
bis(2-Chloroisopropyl)ether	NS	NS	NA			9.6	U	1	10	U	1	<0.45		1	NA			NA			<11		1	<10		1	<9.7		1	<10		1
4-Chlorophenyl phenyl ether	NS	NS	NA			9.7	U	1	10	U	1	<0.31		1	NA			NA			<11		1	<10		1	<9.8		1	<10		1
2,4-Dinitrotoluene	NS	NS	NA			14	U	1	15	U	1	<0.43		1	NA			NA			<16		1	<15		1	<14		1	<15		1
2,6-Dinitrotoluene	NS	NS	NA			12	U	1	13	U	1	<0.46		1	NA			NA			<14		1	<13		1	<12		1	<13		1
3,3'-Dichlorobenzidine	NS	NS	NA			8.2	U	1	8.7	U	1	<0.36		1	NA			NA			<9.0		1	<8.5		1	<8.3		1	<8.8		1
Dibenzo(a,h)anthracene	330	560	NA			1240		1	**2260**		1	<0.38		1	NA			NA			114		1	**3490**		10	86.7		1	**3540**		50
Dibenzofuran	7000	350000	NA			767		1	2240		1	<0.27		1	NA			NA			73.0		1	452		1	26.9	J	1	2580		1
Di-n-butyl phthalate	NS	NS	NA			7.2	U	1	7.6	U	1	<0.56		1	NA			NA			<7.9		1	<7.5		1	<7.2		1	<7.7		1
Di-n-octyl phthalate	NS	NS	NA			16	U	1	17	U	1	<0.31		1	NA			NA			<17		1	<16		1	<16		1	<17		1
Diethyl phthalate	NS	NS	NA			11	U	1	12	U	1	<0.33		1	NA			NA			<12		1	<11		1	<11		1	<12		1
Dimethyl phthalate	NS	NS	NA			11	U	1	36.5	J	1	<0.28		1	NA			NA			76.8		1	95.1		1	<11		1	85.4		1
bis(2-Ethylhexyl)phthalate	NS	NS	NA			161		1	4970		20	<0.59		1	NA			NA			<31		1	<30		1	141		1	540		1
Fluoranthene	100000	500000	NA			12600		10	26700		20	<0.32		1	NA			NA			1010		1	7870		10	790		1	36800		50
Fluorene	30000	500000	NA			1110		1	3390		1	<0.28		1	NA			NA			148		1	647		1	47.8		1	4540		50
Hexachlorobenzene	330	330	NA			11	U	1	11	U	1	<0.34		1	NA			NA			<12		1	<11		1	<11		1	<11		1
Hexachlorobutadiene	NS	NS	NA			9.0	U	1	9.6	U	1	<0.51		1	NA			NA			<9.9		1	<9.4		1	<9.0		1	<9.6		1
Hexachlorocyclopentadiene	NS	NS	NA			33	U	1	35	U	1	<7.1		1	NA			NA			<36		1	<34		1	<33		1	<35		1
Hexachloroethane	NS	NS	NA			9.0	U	1	9.6	U	1	<0.55		1	NA			NA			<9.9		1	<9.4		1	<9.0		1	<9.6		1
Indeno(1,2,3-cd)pyrene	500	5600	NA			**2150**		1	**5730**		20	<0.37		1	NA			NA			359		1	**8810**		10	268		1	**7110**		50

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-8(4.5-5) JA90399-4 10/27/2011			SW-3(3-3.5) JA90399-1 10/27/2011			SW-4(3-3.5) JA90399-2 10/27/2011			FB 102811 JA90552-15 10/28/2011			TRIP BLANK JA90552-16 10/28/2011			B-10 (4.5-5) JA90552-3 10/28/2011			B-19 (3.5-4) JA90552-4 10/28/2011			B-20 (3.5-4) JA90552-5 10/28/2011			B-21 (3.5-4) JA90552-7 10/28/2011			B-22 (3.5-4) JA90552-8 10/28/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Isophorone	NS	NS	NA			8.7	U	1	9.3	U	1	<0.27		1	NA			NA			<9.6		1	<9.1		1	<8.8		1	<9.3		1
2-Methylnaphthalene	NS	NS	NA			298		1	1310		1	<0.38		1	NA			NA			35.9	J	1	249		1	21.1	J	1	1040		1
2-Nitroaniline	NS	NS	NA			14	U	1	15	U	1	<1.1		1	NA			NA			<16		1	<15		1	<14		1	<15		1
3-Nitroaniline	NS	NS	NA			13	U	1	14	U	1	<1.3		1	NA			NA			<14		1	<13		1	<13		1	<14		1
4-Nitroaniline	NS	NS	NA			13	U	1	13	U	1	<1.7		1	NA			NA			<14		1	<13		1	<13		1	<13		1
Naphthalene	12000	500000	NA			461		1	1790		1	<0.26		1	NA			NA			51.8		1	675		1	27.1	J	1	1840		1
Nitrobenzene	NS	NS	NA			9.3	U	1	9.9	U	1	<0.42		1	NA			NA			<10		1	<9.7		1	<9.4		1	<10		1
N-Nitroso-di-n-propylamine	NS	NS	NA			7.9	U	1	8.4	U	1	<0.30		1	NA			NA			<8.7		1	<8.2		1	<7.9		1	<8.4		1
N-Nitrosodiphenylamine	NS	NS	NA			19	U	1	21	U	1	<0.31		1	NA			NA			<21		1	<20		1	<19		1	<21		1
Phenanthrene	100000	500000	NA			11000		10	24300		20	<0.29		1	NA			NA			795		1	4180		10	417		1	29800		50
Pyrene	100000	500000	NA			10300		10	19100		20	<0.27		1	NA			NA			944		1	8030		10	734		1	27500		50
1,2,4,5-Tetrachlorobenzene	NS	NS	NA			9.9	U	1	11	U	1	<0.31		1	NA			NA			<11		1	<10		1	<10		1	<11		1
Total TIC, Semi-Volatile	NS	NS	NA			17670	J	1	43940	J	1	0			0			0			7381.5			93214.5			5224.8			205979.8		
Aldrin	5	680	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-D	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-BHC	20	3400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	3800	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
beta-BHC	36	3000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-T	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dalapon	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
delta-BHC	40	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dicamba	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dichloroprop	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dinoseb	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPA	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPP	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	800	6700	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-DB	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-Chlordane	94	24000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-Chlordane	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dieldrin	5	1400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDD	3.3	92000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDE	3.3	62000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDT	3.3	47000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	14	89000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan sulfate	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin aldehyde	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-I	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-II	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	42	15000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin ketone	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Aroclor 1016	100	1000	NA			8.6	U	1	9.2	U	1	<0.14		1	NA			NA			<9.5		1	<9.0		1	<8.6		1	<9.2		1
Aroclor 1221	100	1000	NA			20	U	1	21	U	1	<0.29		1	NA			NA			<22		1	<21		1	<20		1	<21		1
Aroclor 1232	100	1000	NA			17	U	1	18	U	1	<0.42		1	NA			NA			<19		1	<18		1	<17		1	<18		1
Aroclor 1242	100	1000	NA			11	U	1	11	U	1	<0.093		1	NA			NA			<12		1	<11		1	<11		1	<11		1
Aroclor 1248	100	1000	NA			10	U	1	11	U	1	<0.16		1	NA			NA			<11		1	<11		1	<10		1	<11		1
Aroclor 1254	100	1000	NA			16	U	1	17	U	1	<0.15		1	NA			NA			<17		1	<16		1	<15		1	<17		1
Aroclor 1260	100	1000	NA			11	U	1	12	U	1	<0.23		1	NA			NA			<12		1	**107**		1	42.9		1	**488**		1
Aroclor 1268	100	1000	NA			9.8	U	1	10	U	1	<0.14		1	NA			NA			<11		1	<10		1	<9.7		1	<10		1
Aroclor 1262	100	1000	NA			11	U	1	11	U	1	<0.065		1	NA			NA			<12		1	<11		1	<11		1	<11		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-8(4.5-5) JA90399-4 10/27/2011			SW-3(3-3.5) JA90399-1 10/27/2011			SW-4(3-3.5) JA90399-2 10/27/2011			FB 102811 JA90552-15 10/28/2011			TRIP BLANK JA90552-16 10/28/2011			B-10 (4.5-5) JA90552-3 10/28/2011			B-19 (3.5-4) JA90552-4 10/28/2011			B-20 (3.5-4) JA90552-5 10/28/2011			B-21 (3.5-4) JA90552-7 10/28/2011			B-22 (3.5-4) JA90552-8 10/28/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Metals Analysis (mg/kg)																																
Aluminum	NS	NS	NA			5670		1	6260		1	<200		1	NA			NA			3670		1	6570		1	4850		3	7030		1
Antimony	NS	NS	NA			2.3	U	1	2.5	U	1	<6.0		1	NA			NA			2.7		1	<2.5		1	<2.3		1	<2.4		1
Arsenic	13	16	**35.4**		2	9.8		1	**25.4**		1	<3.0		1	NA			6.3		1	8.7		1	8.9		1	5		1	9.1		1
Barium	350	400	NA			146		1	**385**		1	<200		1	NA			NA			164		1	**796**		1	81		1	211		1
Beryllium	7.2	590	NA			0.35		1	0.42		1	<1.0		1	NA			NA			0.81		1	0.39		1	0.42		1	0.64		1
Cadmium	2.5	9.3	NA			0.58	U	1	0.61	U	1	<3.0		1	NA			NA			<0.65		1	<0.61		1	<0.58		1	0.81		1
Calcium	NS	NS	NA			9630		1	29900		1	<5000		1	NA			NA			6540		1	11700		1	189000		3	41900		1
Chromium	NS	NS	NA			17.1		1	17.8		1	<10		1	NA			NA			9.1		1	12.5		1	9.2		3	27.1		1
Cobalt	NS	NS	NA			5.8	U	1	6.1	U	1	<50		1	NA			NA			<6.5		1	<6.1		1	<5.8		1	6.3		1
Copper	50	270	NA			**68.2**		1	**168**		1	<10		1	NA			NA			**106**		1	41.3		1	26.8		1	**72.8**		1
Iron	NS	NS	NA			17400		1	31100		1	<100		1	NA			NA			10000		1	14400		1	11100		1	17200		1
Lead	63	1000	NA			**221**		1	**1330**		1	<3.0		1	NA			NA			**112**		1	**328**		1	42.2		1	**184**		1
Magnesium	NS	NS	NA			2670		1	2940		1	<5000		1	NA			NA			1190		1	3040		1	18700		1	6300		1
Manganese	1600	10000	NA			161		1	266		1	<15		1	NA			NA			96.3		1	253		1	680		1	284		1
Mercury	0.18	2.8	NA			**2.2**		**5**	**4**		**5**	<0.20		**1**	NA			NA			**0.19**		**1**	**7.6**		**20**	0.1		**1**	**0.3**		**1**
Nickel	30	310	NA			19.2		1	**41.5**		1	<10		1	NA			NA			14.3		1	16.3		1	16.4		1	29.3		1
Potassium	NS	NS	NA			1460		1	1200	U	1	<10000		1	NA			NA			<1300		1	<1200		1	1640		1	<1200		1
Selenium	3.9	1500	NA			2.3	U	1	2.7		1	<10		1	NA			NA			<2.6		1	<2.5		1	<2.3		1	<2.4		1
Silver	2	1500	NA			0.58	U	1	0.61	U	1	<10		1	NA			NA			<0.65		1	<0.61		1	<0.58		1	<0.61		1
Sodium	NS	NS	NA			1200	U	1	1200	U	1	<10000		1	NA			NA			<1300		1	<1200		1	<1200		1	<1200		1
Thallium	NS	NS	NA			1.2	U	1	1.2	U	1	<2.0		1	NA			NA			<1.3		1	<1.2		1	<3.5		3	<1.2		1
Vanadium	NS	NS	NA			28.3		1	48.9		1	<50		1	NA			NA			16.1		1	21.3		1	10.8		1	39.1		1
Zinc	109	10000	NA			**261**		1	**416**		1	<20		1	NA			NA			75.9		1	**115**		1	**131**		3	**347**		1
General Chemistry																																
Solids, Percent (%)	NS	NS	71.2		1	88.5		1	83.0		1	NA			NA			83.5		1	80.2		1	84.9		1	87.8		1	82.7		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-26 (3.5-4) JA90552-9 10/28/2011			B-27 (3.5-4) JA90552-10 10/28/2011			B-31 (3.5-4) JA90552-11 10/28/2011			B-4 (4.5-5) JA90552-2 10/28/2011			B-9 (4.5-5) JA90552-1 10/28/2011			SW-5 (3-3.5) JA90552-6 10/28/2011			SW-6 (3-3.5) JA90552-12 10/28/2011			SW-7 (3-3.5) JA90552-13 10/28/2011			SW-71 (3-3.5) JA90552-14 10/28/2011			B-10(5-5.5) JA90802-6 11/1/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Acetone	50	500000	<8.2		1	<7.4		1	<8.0		1	NA			NA			<8.5		1	<8.0		1	<7.7		1	<7.7		1	NA		
Benzene	60	44000	<0.16		1	<0.15		1	<0.16		1	NA			NA			<0.17		1	<0.16		1	<0.15		1	<0.15		1	NA		
Bromochloromethane	NS	NS	<0.64		1	<0.58		1	<0.62		1	NA			NA			<0.67		1	<0.63		1	<0.60		1	<0.60		1	NA		
Bromodichloromethane	NS	NS	<0.28		1	<0.25		1	<0.27		1	NA			NA			<0.29		1	<0.27		1	<0.26		1	<0.26		1	NA		
Bromoform	NS	NS	<0.94		1	<0.84		1	<0.91		1	NA			NA			<0.97		1	<0.92		1	<0.88		1	<0.88		1	NA		
Bromomethane	NS	NS	<0.49		1	<0.44		1	<0.47		1	NA			NA			<0.51		1	<0.48		1	<0.46		1	<0.46		1	NA		
2-Butanone (MEK)	120	500000	<5.4		1	<4.8		1	<5.2		1	NA			NA			<5.6		1	<5.3		1	<5.0		1	<5.0		1	NA		
Carbon disulfide	NS	NS	<0.24		1	<0.22		1	<0.24		1	NA			NA			<0.25		1	<0.24		1	<0.23		1	<0.23		1	NA		
Carbon tetrachloride	760	22000	<0.43		1	<0.39		1	<0.42		1	NA			NA			<0.44		1	<0.42		1	<0.40		1	<0.40		1	NA		
Chlorobenzene	1100	500000	<0.40		1	<0.36		1	0.52	J	1	NA			NA			<0.41		1	<0.39		1	<0.37		1	<0.37		1	NA		
Chloroethane	NS	NS	<0.51		1	<0.46		1	<0.49		1	NA			NA			<0.52		1	<0.49		1	<0.47		1	<0.47		1	NA		
Chloroform	370	350000	<0.60		1	<0.54		1	<0.58		1	NA			NA			<0.62		1	<0.59		1	<0.56		1	<0.56		1	NA		
Chloromethane	NS	NS	<0.77		1	<0.70		1	<0.75		1	NA			NA			<0.80		1	<0.76		1	<0.73		1	<0.72		1	NA		
Cyclohexane	NS	NS	<0.47		1	<0.42		1	<0.46		1	NA			NA			<0.49		1	<0.46		1	<0.44		1	<0.44		1	NA		
1,2-Dibromo-3-chloropropane	NS	NS	<1.9		1	<1.7		1	<1.8		1	NA			NA			<1.9		1	<1.8		1	<1.8		1	<1.8		1	NA		
Dibromochloromethane	NS	NS	<0.21		1	<0.19		1	<0.20		1	NA			NA			<0.22		1	<0.20		1	<0.20		1	<0.19		1	NA		
1,2-Dibromoethane	NS	NS	<0.29		1	<0.27		1	<0.29		1	NA			NA			<0.31		1	<0.29		1	<0.28		1	<0.28		1	NA		
1,2-Dichlorobenzene	1100	500000	<0.34		1	<0.31		1	<0.33		1	NA			NA			<0.36		1	<0.34		1	<0.32		1	<0.32		1	NA		
1,3-Dichlorobenzene	2400	280000	<0.24		1	<0.21		1	<0.23		1	NA			NA			<0.25		1	<0.23		1	<0.22		1	<0.22		1	NA		
1,4-Dichlorobenzene	1800	130000	<0.21		1	<0.19		1	<0.20		1	NA			NA			<0.22		1	<0.21		1	<0.20		1	<0.20		1	NA		
Dichlorodifluoromethane	NS	NS	<0.40		1	<0.36		1	<0.39		1	NA			NA			<0.41		1	<0.39		1	<0.37		1	<0.37		1	NA		
1,1-Dichloroethane	270	240000	<0.27		1	<0.24		1	<0.26		1	NA			NA			<0.28		1	<0.26		1	<0.25		1	<0.25		1	NA		
1,2-Dichloroethane	20	30000	<0.23		1	<0.20		1	<0.22		1	NA			NA			<0.23		1	<0.22		1	<0.21		1	<0.21		1	NA		
1,1-Dichloroethene	330	500000	<0.76		1	<0.68		1	<0.74		1	NA			NA			<0.79		1	<0.74		1	<0.71		1	<0.71		1	NA		
cis-1,2-Dichloroethene	250	500000	<0.40		1	<0.36		1	<0.39		1	NA			NA			<0.41		1	<0.39		1	<0.37		1	<0.37		1	NA		
trans-1,2-Dichloroethene	190	500000	<0.53		1	<0.47		1	<0.51		1	NA			NA			<0.54		1	<0.51		1	<0.49		1	<0.49		1	NA		
1,2-Dichloropropane	NS	NS	<0.33		1	<0.30		1	<0.32		1	NA			NA			<0.34		1	<0.32		1	<0.31		1	<0.31		1	NA		
cis-1,3-Dichloropropene	NS	NS	<0.19		1	<0.17		1	<0.18		1	NA			NA			<0.20		1	<0.18		1	<0.18		1	<0.18		1	NA		
trans-1,3-Dichloropropene	NS	NS	<0.42		1	<0.38		1	<0.40		1	NA			NA			<0.43		1	<0.41		1	<0.39		1	<0.39		1	NA		
1,4-Dioxane	100	130000	<72		1	<65		1	<70		1	NA			NA			<75		1	<71		1	<68		1	<68		1	NA		
Ethylbenzene	1000	390000	<0.18		1	0.30	J	1	0.72	J	1	NA			NA			<0.19		1	<0.18		1	<0.17		1	<0.17		1	NA		
Freon 113	NS	NS	<0.89		1	<0.80		1	<0.86		1	NA			NA			<0.92		1	<0.87		1	<0.83		1	<0.83		1	NA		
2-Hexanone	NS	NS	<3.1		1	<2.8		1	<3.0		1	NA			NA			<3.2		1	<3.0		1	<2.9		1	<2.9		1	NA		
Isopropylbenzene	NS	NS	<0.17		1	<0.15		1	<0.16		1	NA			NA			<0.18		1	<0.17		1	<0.16		1	<0.16		1	NA		
Methyl Acetate	NS	NS	<2.8		1	<2.5		1	<2.7		1	NA			NA			<2.9		1	<2.7		1	<2.6		1	<2.6		1	NA		
Methylcyclohexane	NS	NS	<0.30		1	<0.27		1	<0.29		1	NA			NA			<0.31		1	<0.30		1	<0.28		1	<0.28		1	NA		
Methyl Tert Butyl Ether	930	500000	<0.22		1	0.46	J	1	<0.22		1	NA			NA			<0.23		1	<0.22		1	<0.21		1	<0.21		1	NA		
4-Methyl-2-pentanone(MIBK)	NS	NS	<3.3		1	<2.9		1	<3.2		1	NA			NA			<3.4		1	<3.2		1	<3.1		1	<3.1		1	NA		
Methylene chloride	50	500000	<0.29		1	<0.26		1	<0.28		1	NA			NA			<0.30		1	<0.28		1	<0.27		1	<0.27		1	NA		
Styrene	NS	NS	<0.23		1	<0.21		1	<0.22		1	NA			NA			<0.24		1	<0.22		1	<0.22		1	<0.21		1	NA		
1,1,2,2-Tetrachloroethane	NS	NS	<0.22		1	<0.20		1	<0.22		1	NA			NA			<0.23		1	<0.22		1	<0.21		1	<0.21		1	NA		
Tetrachloroethene	1300	150000	<0.24		1	<0.21		1	<0.23		1	NA			NA			<0.25		1	<0.23		1	<0.22		1	<0.22		1	NA		
Toluene	700	500000	<0.47		1	<0.42		1	0.71	J	1	NA			NA			<0.49		1	<0.46		1	<0.44		1	<0.44		1	NA		
1,2,3-Trichlorobenzene	NS	NS	<0.54		1	<0.49		1	<0.53		1	NA			NA			<0.56		1	<0.53		1	<0.51		1	<0.51		1	NA		
1,2,4-Trichlorobenzene	NS	NS	<0.42		1	<0.38		1	<0.41		1	NA			NA			<0.44		1	<0.41		1	<0.40		1	<0.40		1	NA		
1,1,1-Trichloroethane	680	500000	<0.30		1	<0.27		1	<0.29		1	NA			NA			<0.31		1	<0.29		1	<0.28		1	<0.28		1	NA		
1,1,2-Trichloroethane	NS	NS	<0.54		1	<0.48		1	<0.52		1	NA			NA			<0.56		1	<0.53		1	<0.50		1	<0.50		1	NA		
Trichloroethene	470	200000	<0.31		1	<0.28		1	<0.30		1	NA			NA			<0.32		1	<0.30		1	<0.29		1	<0.29		1	NA		
Trichlorofluoromethane	NS	NS	<0.60		1	<0.54		1	<0.58		1	NA			NA			<0.62		1	<0.58		1	<0.56		1	<0.56		1	NA		
Vinyl chloride	20	13000	<0.57		1	<0.52		1	<0.55		1	NA			NA			<0.59		1	<0.56		1	<0.54		1	<0.53		1	NA		
m,p-Xylene	260	500000	<0.39		1	0.83	J	1	2.6		1	NA			NA			<0.40		1	<0.38		1	<0.37		1	<0.36		1	NA		
o-Xylene	260	500000	<0.23		1	0.33	J	1	0.91	J	1	NA			NA			<0.24		1	<0.22		1	<0.21		1	<0.21		1	NA		
Xylene (total)	260	500000	<0.23		1	1.2		1	3.5		1	NA			NA			<0.24		1	<0.22		1	<0.21		1	<0.21		1	NA		
Total TIC, Volatile	NS	NS	0			3.12			8.96			0			0			0			0			0			0			NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-26 (3.5-4) JA90552-9 10/28/2011			B-27 (3.5-4) JA90552-10 10/28/2011			B-31 (3.5-4) JA90552-11 10/28/2011			B-4 (4.5-5) JA90552-2 10/28/2011			B-9 (4.5-5) JA90552-1 10/28/2011			SW-5 (3-3.5) JA90552-6 10/28/2011			SW-6 (3-3.5) JA90552-12 10/28/2011			SW-7 (3-3.5) JA90552-13 10/28/2011			SW-71 (3-3.5) JA90552-14 10/28/2011			B-10(5-5.5) JA90802-6 11/1/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
GC/MS Semi-volatiles (ug/kg)																															
2-Chlorophenol	NS	NS	<33		1	<32		1	<33		1	NA			NA			<33		1	<33		1	<34		1	<33		1	NA		
4-Chloro-3-methyl phenol	NS	NS	<33		1	<32		1	<33		1	NA			NA			<33		1	<33		1	<33		1	<33		1	NA		
2,4-Dichlorophenol	NS	NS	<52		1	<51		1	<53		1	NA			NA			<53		1	<52		1	<53		1	<53		1	NA		
2,4-Dimethylphenol	NS	NS	<55		1	<54		1	97.9	J	1	NA			NA			<55		1	110	J	1	<56		1	99.0	J	1	NA		
2,4-Dinitrophenol	NS	NS	<40		1	<39		1	<40		1	NA			NA			<40		1	<40		1	<41		1	<40		1	NA		
4,6-Dinitro-o-cresol	NS	NS	<40		1	<39		1	<40		1	NA			NA			<40		1	<40		1	<41		1	<40		1	NA		
2-Methylphenol	330	500000	<37		1	<36		1	<38		1	NA			NA			<38		1	39.6	J	1	<38		1	50.0	J	1	NA		
3&4-Methylphenol	NS	NS	<41		1	<41		1	65.0	J	1	NA			NA			<42		1	114		1	<42		1	88.9		1	NA		
2-Nitrophenol	NS	NS	<35		1	<34		1	<35		1	NA			NA			<35		1	<35		1	<35		1	<35		1	NA		
4-Nitrophenol	NS	NS	<55		1	<54		1	<56		1	NA			NA			<56		1	<55		1	<56		1	<56		1	NA		
Pentachlorophenol	800	6700	<56		1	<55		1	<56		1	NA			NA			<56		1	<56		1	<57		1	<57		1	NA		
Phenol	330	500000	<34		1	<34		1	<35		1	NA			NA			<35		1	<34		1	<35		1	<35		1	NA		
2,3,4,6-Tetrachlorophenol	NS	NS	<34		1	<33		1	<34		1	NA			NA			<34		1	<34		1	<34		1	<34		1	NA		
2,4,5-Trichlorophenol	NS	NS	<38		1	<37		1	<38		1	NA			NA			<38		1	<38		1	<39		1	<38		1	NA		
2,4,6-Trichlorophenol	NS	NS	<31		1	<30		1	<31		1	NA			NA			<31		1	<31		1	<31		1	<31		1	NA		
Acenaphthene	20000	500000	397		1	325		1	344		1	NA			NA			1860		1	15600		50	1600		1	854		1	2010		1
Acenaphthylene	100000	500000	88.3		1	1150		1	457		1	NA			NA			244		1	248		1	189		1	252		1	714		1
Acetophenone	NS	NS	<5.7		1	<5.6		1	30.2	J	1	NA			NA			<5.8		1	<5.7		1	<5.8		1	<5.8		1	NA		
Anthracene	100000	500000	729		1	1450		1	998		1	NA			NA			3770		10	21100		50	2650		1	1680		1	5350		10
Atrazine	NS	NS	<6.4		1	<6.3		1	<6.5		1	NA			NA			<6.5		1	<6.4		1	<6.5		1	<6.5		1	NA		
Benzo(a)anthracene	1000	5600	**1480**		1	**3820**		10	**1640**		1	NA			NA			**8610**		10	**39300**		50	**6990**		10	**4760**		10	**7720**		10
Benzo(a)pyrene	1000	1000	**1490**		1	**5220**		10	**1960**		1	NA			NA			**7330**		10	**34700**		50	**6190**		10	**4420**		10	**8450**		10
Benzo(b)fluoranthene	1000	5600	**1330**		1	**5350**		10	**1720**		1	NA			NA			**6930**		10	**39300**		50	**6280**		10	**5420**		10	**9050**		10
Benzo(g,h,i)perylene	100000	500000	962		1	4180		10	1460		1	NA			NA			4270		10	18700		50	3900		10	2480		1	5550		10
Benzo(k)fluoranthene	800	56000	**1090**		1	**3010**		1	**1300**		1	NA			NA			**5230**		10	**21500**		50	2140		1	**1940**		1	**4440**		10
4-Bromophenyl phenyl ether	NS	NS	<12		1	<12		1	<12		1	NA			NA			<12		1	<12		1	<12		1	<12		1	NA		
Butyl benzyl phthalate	NS	NS	152		1	<18		1	66.2		1	NA			NA			<19		1	<19		1	<19		1	<19		1	NA		
1,1'-Biphenyl	NS	NS	27.4	J	1	47.2	J	1	18.0	J	1	NA			NA			112		1	536		1	80.4		1	52.9	J	1	NA		
Benzaldehyde	NS	NS	<7.5		1	<7.3		1	<7.6		1	NA			NA			<7.6		1	<7.5		1	<7.6		1	<7.6		1	NA		
2-Chloronaphthalene	NS	NS	<10		1	<9.9		1	<10		1	NA			NA			<10		1	<10		1	<10		1	<10		1	NA		
4-Chloroaniline	NS	NS	<10		1	<10		1	<11		1	NA			NA			<11		1	<10		1	<11		1	<11		1	NA		
Carbazole	NS	NS	308		1	319		1	235		1	NA			NA			1470		1	11000		50	1200		1	645		1	NA		
Caprolactam	NS	NS	<10		1	<10		1	<10		1	NA			NA			<10		1	<10		1	<10		1	<10		1	NA		
Chrysene	1000	56000	**1530**		1	**4340**		10	**1710**		1	NA			NA			**8600**		10	**42200**		50	6850		10	**4770**		10	**8320**		10
bis(2-Chloroethoxy)methane	NS	NS	<13		1	<13		1	<13		1	NA			NA			<13		1	<13		1	<13		1	<13		1	NA		
bis(2-Chloroethyl)ether	NS	NS	<9.8		1	<9.6		1	<9.9		1	NA			NA			<9.9		1	<9.8		1	<10		1	<10		1	NA		
bis(2-Chloroisopropyl)ether	NS	NS	<9.7		1	<9.5		1	<9.8		1	NA			NA			<9.8		1	<9.7		1	<9.9		1	<9.8		1	NA		
4-Chlorophenyl phenyl ether	NS	NS	<9.8		1	<9.6		1	<9.9		1	NA			NA			<9.9		1	<9.8		1	<10		1	<10		1	NA		
2,4-Dinitrotoluene	NS	NS	<14		1	<14		1	<14		1	NA			NA			<14		1	<14		1	<15		1	<14		1	NA		
2,6-Dinitrotoluene	NS	NS	<12		1	<12		1	<13		1	NA			NA			<13		1	<12		1	<13		1	<13		1	NA		
3,3'-Dichlorobenzidine	NS	NS	<8.3		1	<8.1		1	<8.4		1	NA			NA			<8.4		1	<8.3		1	<8.4		1	<8.4		1	NA		
Dibenzo(a,h)anthracene	330	560	**419**		1	**1620**		1	**376**		1	NA			NA			**1960**		1	**10800**		50	**1790**		1	**1200**		1	**3350**		1
Dibenzofuran	7000	350000	163		1	201		1	150		1	NA			NA			931		1	6270		50	619		1	387		1	NA		
Di-n-butyl phthalate	NS	NS	<7.2		1	<7.1		1	<7.3		1	NA			NA			<7.3		1	<7.2		1	<7.4		1	<7.4		1	NA		
Di-n-octyl phthalate	NS	NS	<16		1	<16		1	<16		1	NA			NA			<16		1	<16		1	<16		1	<16		1	NA		
Diethyl phthalate	NS	NS	<11		1	<11		1	<11		1	NA			NA			<11		1	<11		1	<11		1	<11		1	NA		
Dimethyl phthalate	NS	NS	46.3	J	1	42.5	J	1	67.0		1	NA			NA			53.3	J	1	54.1	BJ	1	<12		1	72.1		1	NA		
bis(2-Ethylhexyl)phthalate	NS	NS	164		1	83.7		1	104		1	NA			NA			81.9		1	256		1	110		1	114		1	NA		
Fluoranthene	100000	500000	2950		2	6740		10	3450		2	NA			NA			19800		10	**104000**		50	15300		10	10200		10	16700		10
Fluorene	30000	500000	312		1	319		1	306		1	NA			NA			1430		1	10600		50	1110		1	698		1	1660		1
Hexachlorobenzene	330	330	<11		1	<10		1	<11		1	NA			NA			<11		1	<11		1	<11		1	<11		1	NA		
Hexachlorobutadiene	NS	NS	<9.1		1	<8.9		1	<9.2		1	NA			NA			<9.2		1	<9.1		1	<9.2		1	<9.2		1	NA		
Hexachlorocyclopentadiene	NS	NS	<33		1	<33		1	<34		1	NA			NA			<34		1	<33		1	<34		1	<34		1	NA		
Hexachloroethane	NS	NS	<9.1		1	<8.9		1	<9.2		1	NA			NA			<9.2		1	<9.1		1	<9.2		1	<9.2		1	NA		
Indeno(1,2,3-cd)pyrene	500	5600	**879**		1	**3390**		10	1170		1	NA			NA			**4280**		10	**18700**		50	**3220**		1	**2250**		1	**4880**		10

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-26 (3.5-4) JA90552-9 10/28/2011			B-27 (3.5-4) JA90552-10 10/28/2011			B-31 (3.5-4) JA90552-11 10/28/2011			B-4 (4.5-5) JA90552-2 10/28/2011			B-9 (4.5-5) JA90552-1 10/28/2011			SW-5 (3-3.5) JA90552-6 10/28/2011			SW-6 (3-3.5) JA90552-12 10/28/2011			SW-7 (3-3.5) JA90552-13 10/28/2011			SW-71 (3-3.5) JA90552-14 10/28/2011			B-10(5-5.5) JA90802-6 11/1/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Isophorone	NS	NS	<8.8		1	<8.6		1	<8.9		1	NA			NA			<8.9		1	<8.8		1	<8.9		1	<8.9		1	NA		
2-Methylnaphthalene	NS	NS	73.5		1	125		1	54.4	J	1	NA			NA			262		1	1720		1	224		1	218		1	NA		
2-Nitroaniline	NS	NS	<14		1	<14		1	<14		1	NA			NA			<15		1	<14		1	<15		1	<15		1	NA		
3-Nitroaniline	NS	NS	<13		1	<13		1	<13		1	NA			NA			<13		1	<13		1	<13		1	<13		1	NA		
4-Nitroaniline	NS	NS	<13		1	<12		1	<13		1	NA			NA			<13		1	<13		1	<13		1	<13		1	NA		
Naphthalene	12000	500000	96.3		1	213		1	98.4		1	NA			NA			507		1	2900		1	373		1	907		1	566		1
Nitrobenzene	NS	NS	<9.4		1	<9.2		1	<9.5		1	NA			NA			<9.5		1	<9.4		1	<9.6		1	<9.6		1	NA		
N-Nitroso-di-n-propylamine	NS	NS	<7.9		1	<7.8		1	<8.0		1	NA			NA			<8.1		1	<7.9		1	<8.1		1	<8.1		1	NA		
N-Nitrosodiphenylamine	NS	NS	<19		1	<19		1	<20		1	NA			NA			<20		1	<19		1	<20		1	<20		1	NA		
Phenanthrene	100000	500000	2390		1	2640		1	2090		1	NA			NA			15400		10	82600		50	10800		10	7340		10	11700		10
Pyrene	100000	500000	2700		1	6710		10	3070		2	NA			NA			16600		10	76200		50	12000		10	8430		10	16100		10
1,2,4,5-Tetrachlorobenzene	NS	NS	<10		1	<9.8		1	<10		1	NA			NA			<10		1	<10		1	<10		1	<10		1	NA		
Total TIC, Semi-Volatile	NS	NS	19776.8			51295.4			23037.1			0			0			109431.2			558493.6			83715.4			59327.9			NA		
Aldrin	5	680	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-D	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-BHC	20	3400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	3800	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
beta-BHC	36	3000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-T	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dalapon	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
delta-BHC	40	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dicamba	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dichloroprop	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dinoseb	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPA	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPP	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	800	6700	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-DB	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-Chlordane	94	24000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-Chlordane	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dieldrin	5	1400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDD	3.3	92000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDE	3.3	62000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDT	3.3	47000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	14	89000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan sulfate	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin aldehyde	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-I	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-II	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	42	15000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin ketone	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Aroclor 1016	100	1000	<8.6		1	<8.5		1	<8.8		1	NA			NA			<8.8		1	<8.7		1	<8.9		1	<8.9		1	NA		
Aroclor 1221	100	1000	<20		1	<20		1	<20		1	NA			NA			<20		1	<20		1	<21		1	<21		1	NA		
Aroclor 1232	100	1000	<17		1	<17		1	<17		1	NA			NA			<17		1	<17		1	<17		1	<17		1	NA		
Aroclor 1242	100	1000	<10		1	<10		1	<11		1	NA			NA			<11		1	<11		1	<11		1	<11		1	NA		
Aroclor 1248	100	1000	<10		1	<10		1	<10		1	NA			NA			<10		1	<10		1	<10		1	<10		1	NA		
Aroclor 1254	100	1000	<15		1	**359**		1	<16		1	NA			NA			<16		1	<16		1	<16		1	<16		1	NA		
Aroclor 1260	100	1000	**150**		1	78.8		1	67.1		1	NA			NA			**128**		1	70.8		1	56.3		1	46.8		1	NA		
Aroclor 1268	100	1000	<9.7		1	<9.7		1	<10		1	NA			NA			<10		1	<9.8		1	<10		1	<10		1	NA		
Aroclor 1262	100	1000	<10		1	<10		1	<11		1	NA			NA			<11		1	<11		1	<11		1	<11		1	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-26 (3.5-4) JA90552-9 10/28/2011			B-27 (3.5-4) JA90552-10 10/28/2011			B-31 (3.5-4) JA90552-11 10/28/2011			B-4 (4.5-5) JA90552-2 10/28/2011			B-9 (4.5-5) JA90552-1 10/28/2011			SW-5 (3-3.5) JA90552-6 10/28/2011			SW-6 (3-3.5) JA90552-12 10/28/2011			SW-7 (3-3.5) JA90552-13 10/28/2011			SW-71 (3-3.5) JA90552-14 10/28/2011			B-10(5-5.5) JA90802-6 11/1/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Metals Analysis (mg/kg)																															
Aluminum	NS	NS	5990		1	5130		1	8630		1	NA			NA			6780		1	7440		1	8570		1	6060		1	NA		
Antimony	NS	NS	<2.3		1	<2.2		1	<2.3		1	NA			NA			<2.3		1	<2.3		1	<2.4		1	<2.3		1	NA		
Arsenic	13	16	4.6		1	**16.6**		1	5.1		1	5.8		1	**16.2**		1	9.3		1	6.4		1	10.6		1	11		1	NA		
Barium	350	400	62.4		1	287		1	161		1	NA			NA			**511**		1	151		1	167		1	100		1	NA		
Beryllium	7.2	590	0.64		1	0.54		1	0.45		1	NA			NA			0.37		1	0.51		1	0.53		1	0.36		1	NA		
Cadmium	2.5	9.3	<0.57		1	0.97		1	0.96		1	NA			NA			1.3		1	0.76		1	0.82		1	<0.57		1	NA		
Calcium	NS	NS	28100		1	14200		1	32200		1	NA			NA			38600		1	34000		1	29800		1	9630		1	NA		
Chromium	NS	NS	20		1	20.1		1	20.7		1	NA			NA			25.5		1	24.2		1	23.1		1	16.8		1	NA		
Cobalt	NS	NS	6.1		1	7.1		1	5.7		1	NA			NA			<5.8		1	5.9		1	7.2		1	<5.7		1	NA		
Copper	50	270	**56.9**		1	**90.2**		1	30.7		1	14.2		1	NA			**81.7**		1	48.1		1	**81.9**		1	**54.9**		1	NA		
Iron	NS	NS	16400		1	28000		1	14400		1	NA			NA			18700		1	21900		1	18300		1	14400		1	NA		
Lead	63	1000	**88.6**		1	**333**		1	**98.1**		1	NA			NA			**212**		1	**162**		1	**202**		1	**131**		1	NA		
Magnesium	NS	NS	10500		1	4980		1	11500		1	NA			NA			15300		1	6720		1	6120		1	3070		1	NA		
Manganese	1600	10000	182		1	217		1	264		1	NA			NA			417		1	324		1	301		1	202		1	NA		
Mercury	0.18	2.8	0.14		**1**	**0.65**		**1**	**0.47**		**1**	NA			NA			**0.87**		**1**	**1.1**		**2**	**9**		**20**	**1.6**		**5**	NA		
Nickel	30	310	27.6		1	24.3		1	16.5		1	NA			NA			17.4		1	29.9		1	22.9		1	17		1	NA		
Potassium	NS	NS	<1100		1	<1100		1	1900		1	NA			NA			2100		1	1650		1	1730		1	1420		1	NA		
Selenium	3.9	1500	<2.3		1	<2.2		1	<2.3		1	NA			NA			<2.3		1	<2.3		1	<2.4		1	<2.3		1	NA		
Silver	2	1500	<0.57		1	<0.55		1	<0.57		1	NA			NA			<0.58		1	<0.57		1	<0.59		1	<0.57		1	NA		
Sodium	NS	NS	<1100		1	<1100		1	<1100		1	NA			NA			<1200		1	<1100		1	<1200		1	<1100		1	NA		
Thallium	NS	NS	<1.1		1	<1.1		1	<1.1		1	NA			NA			<1.2		1	<1.1		1	<1.2		1	<1.1		1	NA		
Vanadium	NS	NS	36		1	50.1		1	25.8		1	NA			NA			30.4		1	46.1		1	43.3		1	23.9		1	NA		
Zinc	109	10000	**225**		1	**358**		1	**145**		1	NA			NA			**456**		1	**205**		1	**387**		1	**149**		1	NA		
General Chemistry																															
Solids, Percent (%)	NS	NS	87.7		1	89.5		1	86.7		1	82.9		1	85.0		1	86.5		1	87.7		1	86.0		1	86.2		1	83.0		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-5(5-5.5) JA90802-7 11/1/2011			B-8(6-6.5) JA90802-5 11/1/2011			SW-21(3-3.5) JA90802-4 11/1/2011			SW-22(3-3.5) JA90802-3 11/1/2011			SW-8(3-3.5) JA90802-1 11/1/2011			SW-9(3-3.5) JA90802-2 11/1/2011			TRIP BLANK JA91441-11 11/8/2011			B-23 (4-4.5) JA91441-1 11/8/2011			B-24 (4-4.5) JA91441-3 11/8/2011			B-25 (4-4.5) JA91441-5 11/8/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Acetone	50	500000	NA			NA			9.0	U	1	8.2	U	1	8.3	U	1	7.6	U	1	<7.6	1		<8.9	1		<8.7	1		<8.3	1	
Benzene	60	44000	NA			NA			0.18	U	1	0.17	U	1	0.17	U	1	0.15	U	1	<0.22	1		<0.18	1		<0.18	1		<0.17	1	
Bromochloromethane	NS	NS	NA			NA			0.70	U	1	0.65	U	1	0.65	U	1	0.60	U	1	<0.40	1		<0.69	1		<0.68	1		<0.65	1	
Bromodichloromethane	NS	NS	NA			NA			0.30	U	1	0.28	U	1	0.28	U	1	0.26	U	1	<0.23	1		<0.30	1		<0.30	1		<0.28	1	
Bromoform	NS	NS	NA			NA			1.0	U	1	0.94	U	1	0.94	U	1	0.87	U	1	<0.24	1		<1.0	1		<0.99	1		<0.94	1	
Bromomethane	NS	NS	NA			NA			0.53	U	1	0.49	U	1	0.49	U	1	0.45	U	1	<0.31	1		<0.53	1		<0.52	1		<0.49	1	
2-Butanone (MEK)	120	500000	NA			NA			5.9	U	1	5.4	U	1	5.4	U	1	5.0	U	1	<2.9	1		<5.8	1		<5.7	1		<5.4	1	
Carbon disulfide	NS	NS	NA			NA			0.27	U	1	0.24	U	1	0.24	U	1	0.23	U	1	<0.18	1		<0.26	1		<0.26	1		<0.25	1	
Carbon tetrachloride	760	22000	NA			NA			0.47	U	1	0.43	U	1	0.43	U	1	0.40	U	1	<0.19	1		<0.46	1		<0.46	1		<0.43	1	
Chlorobenzene	1100	500000	NA			NA			0.44	U	1	0.40	U	1	0.40	U	1	0.37	U	1	<0.22	1		<0.43	1		<0.42	1		<0.40	1	
Chloroethane	NS	NS	NA			NA			0.55	U	1	0.51	U	1	0.51	U	1	0.47	U	1	<0.37	1		<0.55	1		<0.54	1		<0.51	1	
Chloroform	370	350000	NA			NA			0.65	U	1	0.60	U	1	0.60	U	1	0.56	U	1	<0.21	1		<0.65	1		<0.64	1		<0.60	1	
Chloromethane	NS	NS	NA			NA			0.84	U	1	0.78	U	1	0.78	U	1	0.72	U	1	<0.22	1		<0.84	1		<0.82	1		<0.78	1	
Cyclohexane	NS	NS	NA			NA			0.51	U	1	0.47	U	1	0.47	U	1	0.44	U	1	<0.29	1		<0.51	1		<0.50	1		<0.47	1	
1,2-Dibromo-3-chloropropane	NS	NS	NA			NA			2.0	U	1	1.9	U	1	1.9	U	1	1.7	U	1	<1.3	1		<2.0	1		<2.0	1		<1.9	1	
Dibromochloromethane	NS	NS	NA			NA			0.23	U	1	0.21	U	1	0.21	U	1	0.19	U	1	<0.20	1		<0.22	1		<0.22	1		<0.21	1	
1,2-Dibromoethane	NS	NS	NA			NA			0.32	U	1	0.30	U	1	0.30	U	1	0.27	U	1	<0.21	1		<0.32	1		<0.31	1		<0.30	1	
1,2-Dichlorobenzene	1100	500000	NA			NA			0.37	U	1	0.34	U	1	0.35	U	1	0.32	U	1	<0.18	1		<0.37	1		<0.36	1		<0.35	1	
1,3-Dichlorobenzene	2400	280000	NA			NA			0.26	U	1	0.24	U	1	0.24	U	1	0.22	U	1	<0.29	1		<0.26	1		<0.25	1		<0.24	1	
1,4-Dichlorobenzene	1800	130000	NA			NA			0.23	U	1	0.21	U	1	0.21	U	1	0.20	U	1	<0.26	1		<0.23	1		<0.22	1		<0.21	1	
Dichlorodifluoromethane	NS	NS	NA			NA			0.43	U	1	0.40	U	1	0.40	U	1	0.37	U	1	<0.31	1		<0.43	1		<0.42	1		<0.40	1	
1,1-Dichloroethane	270	240000	NA			NA			0.29	U	1	0.27	U	1	0.27	U	1	0.25	U	1	<0.19	1		<0.29	1		<0.29	1		<0.27	1	
1,2-Dichloroethane	20	30000	NA			NA			0.25	U	1	0.23	U	1	0.23	U	1	0.21	U	1	<0.18	1		<0.24	1		<0.24	1		<0.23	1	
1,1-Dichloroethene	330	500000	NA			NA			0.83	U	1	0.76	U	1	0.77	U	1	0.70	U	1	<0.28	1		<0.82	1		<0.81	1		<0.77	1	
cis-1,2-Dichloroethene	250	500000	NA			NA			0.44	U	1	0.40	U	1	0.40	U	1	0.37	U	1	<0.22	1		<0.43	1		<0.42	1		<0.40	1	
trans-1,2-Dichloroethene	190	500000	NA			NA			0.57	U	1	0.53	U	1	0.53	U	1	0.49	U	1	<0.31	1		<0.57	1		<0.56	1		<0.53	1	
1,2-Dichloropropane	NS	NS	NA			NA			0.36	U	1	0.33	U	1	0.33	U	1	0.31	U	1	<0.22	1		<0.36	1		<0.35	1		<0.33	1	
cis-1,3-Dichloropropene	NS	NS	NA			NA			0.21	U	1	0.19	U	1	0.19	U	1	0.17	U	1	<0.22	1		<0.20	1		<0.20	1		<0.19	1	
trans-1,3-Dichloropropene	NS	NS	NA			NA			0.45	U	1	0.42	U	1	0.42	U	1	0.39	U	1	<0.19	1		<0.45	1		<0.44	1		<0.42	1	
1,4-Dioxane	100	130000	NA			NA			79	U	1	72	U	1	73	U	1	67	U	1	<72	1		<78	1		<77	1		<73	1	
Ethylbenzene	1000	390000	NA			NA			0.20	U	1	0.18	U	1	0.18	U	1	0.17	U	1	<0.21	1		<0.20	1		<0.19	1		<0.19	1	
Freon 113	NS	NS	NA			NA			0.97	U	1	0.89	U	1	0.90	U	1	0.82	U	1	<0.49	1		<0.96	1		<0.94	1		<0.90	1	
2-Hexanone	NS	NS	NA			NA			3.4	U	1	3.1	U	1	3.1	U	1	2.9	U	1	<3.0	1		<3.3	1		<3.3	1		<3.1	1	
Isopropylbenzene	NS	NS	NA			NA			0.19	U	1	0.17	U	1	0.17	U	1	0.16	U	1	<0.19	1		<0.18	1		<0.18	1		<0.17	1	
Methyl Acetate	NS	NS	NA			NA			3.0	U	1	2.8	U	1	2.8	U	1	2.6	U	1	<2.9	1		11.3	1		11.6	1		27.7	1	
Methylcyclohexane	NS	NS	NA			NA			0.33	U	1	0.30	U	1	0.31	U	1	0.28	U	1	<0.18	1		<0.33	1		<0.32	1		<0.31	1	
Methyl Tert Butyl Ether	930	500000	NA			NA			0.24	U	1	0.22	U	1	0.22	U	1	0.21	U	1	<0.18	1		<0.24	1		<0.24	1		<0.22	1	
4-Methyl-2-pentanone(MIBK)	NS	NS	NA			NA			3.6	U	1	3.3	U	1	3.3	U	1	3.0	U	1	<1.2	1		<3.5	1		<3.5	1		<3.3	1	
Methylene chloride	50	500000	NA			NA			0.31	U	1	0.29	U	1	0.29	U	1	0.26	U	1	<0.20	1		<0.31	1		<0.30	1		<0.29	1	
Styrene	NS	NS	NA			NA			0.25	U	1	0.23	U	1	0.23	U	1	0.21	U	1	<0.23	1		<0.25	1		<0.24	1		<0.23	1	
1,1,2,2-Tetrachloroethane	NS	NS	NA			NA			0.24	U	1	0.22	U	1	0.22	U	1	0.21	U	1	<0.20	1		<0.24	1		<0.24	1		<0.22	1	
Tetrachloroethene	1300	150000	NA			NA			0.26	U	1	0.24	U	1	0.24	U	1	0.22	U	1	<0.32	1		7.2	1		<0.25	1		<0.24	1	
Toluene	700	500000	NA			NA			0.51	U	1	0.47	U	1	0.47	U	1	0.43	U	1	<0.15	1		<0.51	1		<0.50	1		<0.47	1	
1,2,3-Trichlorobenzene	NS	NS	NA			NA			0.59	U	1	0.54	U	1	0.55	U	1	0.50	U	1	<0.69	1		<0.59	1		<0.58	1		<0.55	1	
1,2,4-Trichlorobenzene	NS	NS	NA			NA			0.46	U	1	0.42	U	1	0.43	U	1	0.39	U	1	<0.15	1		<0.46	1		<0.45	1		<0.43	1	
1,1,1-Trichloroethane	680	500000	NA			NA			0.33	U	1	0.30	U	1	0.30	U	1	0.28	U	1	<0.24	1		<0.32	1		<0.32	1		<0.30	1	
1,1,2-Trichloroethane	NS	NS	NA			NA			0.59	U	1	0.54	U	1	0.54	U	1	0.50	U	1	<0.23	1		<0.58	1		<0.57	1		<0.54	1	
Trichloroethene	470	200000	NA			NA			0.33	U	1	0.31	U	1	0.31	U	1	0.28	U	1	<0.21	1		<0.33	1		<0.33	1		<0.31	1	
Trichlorofluoromethane	NS	NS	NA			NA			0.65	U	1	0.60	U	1	0.60	U	1	0.55	U	1	<0.35	1		<0.65	1		<0.64	1		<0.60	1	
Vinyl chloride	20	13000	NA			NA			0.62	U	1	0.57	U	1	0.58	U	1	0.53	U	1	<0.27	1		<0.62	1		<0.61	1		<0.58	1	
m,p-Xylene	260	500000	NA			NA			0.42	U	1	0.39	U	1	0.39	U	1	0.36	U	1	<0.32	1		<0.42	1		<0.41	1		<0.39	1	
o-Xylene	260	500000	NA			NA			0.25	U	1	0.23	U	1	0.23	U	1	0.21	U	1	<0.17	1		<0.25	1		<0.24	1		<0.23	1	
Xylene (total)	260	500000	NA			NA			0.25	U	1	0.23	U	1	0.23	U	1	0.21	U	1	<0.17	1		<0.25	1		<0.24	1		<0.23	1	
Total TIC, Volatile	NS	NS	NA			NA			0		1	0		1	0		1	0		1	0			18.5			11.6			27.7		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-5(5-5.5) JA90802-7 11/1/2011			B-8(6-6.5) JA90802-5 11/1/2011			SW-21(3-3.5) JA90802-4 11/1/2011			SW-22(3-3.5) JA90802-3 11/1/2011			SW-8(3-3.5) JA90802-1 11/1/2011			SW-9(3-3.5) JA90802-2 11/1/2011			TRIP BLANK JA91441-11 11/8/2011			B-23 (4-4.5) JA91441-1 11/8/2011			B-24 (4-4.5) JA91441-3 11/8/2011			B-25 (4-4.5) JA91441-5 11/8/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
GC/MS Semi-volatiles (ug/kg)																															
2-Chlorophenol	NS	NS	NA			NA			34	U	1	32	U	1	34	U	1	32	U	1	NA			<35		1	<35		1	<36		1
4-Chloro-3-methyl phenol	NS	NS	NA			NA			33	U	1	32	U	1	34	U	1	32	U	1	NA			<34		1	<35		1	<36		1
2,4-Dichlorophenol	NS	NS	NA			NA			53	U	1	51	U	1	54	U	1	51	U	1	NA			<55		1	<56		1	<58		1
2,4-Dimethylphenol	NS	NS	NA			NA			56	U	1	54	U	1	93.8	J	1	53	U	1	NA			<58		1	<58		1	<60		1
2,4-Dinitrophenol	NS	NS	NA			NA			41	U	1	39	U	1	41	U	1	38	U	1	NA			<42		1	<42		1	<44		1
4,6-Dinitro-o-cresol	NS	NS	NA			NA			41	U	1	39	U	1	41	U	1	38	U	1	NA			<42		1	<42		1	<44		1
2-Methylphenol	330	500000	NA			NA			38	U	1	36	U	1	38	U	1	36	U	1	NA			<39		1	<39		1	<41		1
3&4-Methylphenol	NS	NS	NA			NA			42	U	1	69.9		1	43	U	1	40	U	1	NA			<44		1	<44		1	<45		1
2-Nitrophenol	NS	NS	NA			NA			35	U	1	34	U	1	36	U	1	33	U	1	NA			<36		1	<37		1	<38		1
4-Nitrophenol	NS	NS	NA			NA			56	U	1	54	U	1	57	U	1	53	U	1	NA			<58		1	<59		1	<60		1
Pentachlorophenol	800	6700	NA			NA			57	U	1	55	U	1	57	U	1	54	U	1	NA			<59		1	<59		1	<61		1
Phenol	330	500000	NA			NA			35	U	1	34	U	1	35	U	1	33	U	1	NA			<36		1	<36		1	<38		1
2,3,4,6-Tetrachlorophenol	NS	NS	NA			NA			34	U	1	33	U	1	35	U	1	32	U	1	NA			<35		1	<36		1	<37		1
2,4,5-Trichlorophenol	NS	NS	NA			NA			39	U	1	37	U	1	39	U	1	37	U	1	NA			<40		1	<40		1	<41		1
2,4,6-Trichlorophenol	NS	NS	NA			NA			31	U	1	30	U	1	32	U	1	30	U	1	NA			<32		1	<33		1	<34		1
Acenaphthene	20000	500000	2780		1	NA			510		1	630		1	1720		1	612		1	NA			686		1	1660		1	4640		20
Acenaphthylene	100000	500000	218		1	NA			355		1	1540		1	319		1	146		1	NA			235		1	240		1	290		1
Acetophenone	NS	NS	NA			NA			5.8	U	1	5.6	U	1	5.9	U	1	5.6	U	1	NA			<6.1		1	<6.1		1	<6.3		1
Anthracene	100000	500000	4380		10	NA			1480		1	2760		1	2940		1	1460		1	NA			1380		1	3210		1	6750		20
Atrazine	NS	NS	NA			NA			6.5	U	1	6.3	U	1	6.6	U	1	6.2	U	1	NA			<6.8		1	<6.8		1	<7.0		1
Benzo(a)anthracene	1000	5600	**7900**		10	NA			**3210**		1	**12800**		10	**7160**		10	**3090**		1	NA			**3730**		5	**5950**		5	**11900**		20
Benzo(a)pyrene	1000	1000	**7260**		10	NA			**3300**		1	**13200**		10	**7180**		10	**3090**		1	NA			**3600**		5	**6340**		5	**10400**		20
Benzo(b)fluoranthene	1000	5600	**7690**		10	NA			**3070**		1	**11600**		10	**7710**		10	**3640**		5	NA			**4680**		5	**7070**		5	**12600**		20
Benzo(g,h,i)perylene	100000	500000	4140		10	NA			1830		1	7920		10	4080		10	1650		1	NA			2390		1	3820		5	5970		20
Benzo(k)fluoranthene	800	56000	**2840**		1	NA			**2060**		1	**8430**		10	**3100**		1	**1690**		1	NA			**1400**		1	**2170**		1	**3380**		1
4-Bromophenyl phenyl ether	NS	NS	NA			NA			12	U	1	12	U	1	12	U	1	11	U	1	NA			<12		1	<13		1	<13		1
Butyl benzyl phthalate	NS	NS	NA			NA			34.5	J	1	19	U	1	92.1		1	18	U	1	NA			<20		1	<20		1	<21		1
1,1'-Biphenyl	NS	NS	NA			NA			35.3	J	1	41.2	J	1	86.9		1	36.5	J	1	NA			32.0	J	1	104		1	279		1
Benzaldehyde	NS	NS	NA			NA			7.6	U	1	7.4	U	1	7.7	U	1	7.3	U	1	NA			<7.9		1	<8.0		1	<8.2		1
2-Chloronaphthalene	NS	NS	NA			NA			10	U	1	9.9	U	1	10	U	1	9.8	U	1	NA			<11		1	<11		1	<11		1
4-Chloroaniline	NS	NS	NA			NA			11	U	1	10	U	1	11	U	1	10	U	1	NA			<11		1	<11		1	<11		1
Carbazole	NS	NS	NA			NA			533		1	296		1	1040		1	471		1	NA			368		1	1420		1	2870		1
Caprolactam	NS	NS	NA			NA			10	U	1	10	U	1	11	U	1	9.9	U	1	NA			<11		1	<11		1	<11		1
Chrysene	1000	56000	**7640**		10	NA			**2910**		1	**12600**		10	**7470**		10	**4210**		5	NA			**3570**		5	**5350**		5	11200		20
bis(2-Chloroethoxy)methane	NS	NS	NA			NA			13	U	1	13	U	1	14	U	1	13	U	1	NA			<14		1	<14		1	<14		1
bis(2-Chloroethyl)ether	NS	NS	NA			NA			10	U	1	9.6	U	1	10	U	1	9.5	U	1	NA			<10		1	<10		1	<11		1
bis(2-Chloroisopropyl)ether	NS	NS	NA			NA			9.9	U	1	9.5	U	1	10	U	1	9.4	U	1	NA			<10		1	<10		1	<11		1
4-Chlorophenyl phenyl ether	NS	NS	NA			NA			10	U	1	9.6	U	1	10	U	1	9.5	U	1	NA			<10		1	<10		1	<11		1
2,4-Dinitrotoluene	NS	NS	NA			NA			15	U	1	14	U	1	15	U	1	14	U	1	NA			<15		1	<15		1	<16		1
2,6-Dinitrotoluene	NS	NS	NA			NA			13	U	1	12	U	1	13	U	1	12	U	1	NA			<13		1	<13		1	<14		1
3,3'-Dichlorobenzidine	NS	NS	NA			NA			8.4	U	1	8.1	U	1	8.5	U	1	8.0	U	1	NA			<8.7		1	<8.8		1	<9.1		1
Dibenzo(a,h)anthracene	330	560	**2150**		1	NA			**876**		1	**2370**		1	**1770**		1	**755**		1	NA			**790**		1	**1280**		1	**2200**		1
Dibenzofuran	7000	350000	NA			NA			276		1	355		1	717		1	347		1	NA			296		1	1160		1	1990		1
Di-n-butyl phthalate	NS	NS	NA			NA			7.4	U	1	7.1	U	1	7.4	U	1	7.0	U	1	NA			<7.6		1	<7.7		1	<7.9		1
Di-n-octyl phthalate	NS	NS	NA			NA			16	U	1	16	U	1	16	U	1	15	U	1	NA			<17		1	<17		1	<17		1
Diethyl phthalate	NS	NS	NA			NA			11	U	1	11	U	1	11	U	1	11	U	1	NA			<12		1	<12		1	<12		1
Dimethyl phthalate	NS	NS	NA			NA			12	U	1	11	U	1	37.1	J	1	11	U	1	NA			<12		1	<12		1	<13		1
bis(2-Ethylhexyl)phthalate	NS	NS	NA			NA			75.6		1	68.8		1	326		1	55.7	J	1	NA			<30		1	111		1	412		1
Fluoranthene	100000	500000	19800		10	NA			8700		5	23000		10	16700		10	8840		5	NA			8270		5	11100		5	30800		20
Fluorene	30000	500000	2140		1	NA			509		1	719		1	1330		1	559		1	NA			388		1	1700		1	3030		1
Hexachlorobenzene	330	330	NA			NA			11	U	1	10	U	1	11	U	1	10	U	1	NA			<11		1	<11		1	<12		1
Hexachlorobutadiene	NS	NS	NA			NA			9.2	U	1	8.9	U	1	9.3	U	1	8.8	U	1	NA			<9.6		1	<9.6		1	<9.9		1
Hexachlorocyclopentadiene	NS	NS	NA			NA			34	U	1	33	U	1	34	U	1	32	U	1	NA			<35		1	<35		1	<36		1
Hexachloroethane	NS	NS	NA			NA			9.2	U	1	8.9	U	1	9.3	U	1	8.8	U	1	NA			<9.6		1	<9.6		1	<9.9		1
Indeno(1,2,3-cd)pyrene	500	5600	**4050**		10	NA			**1680**		1	**7680**		10	**3780**		10	**1490**		1	NA			**2110**		1	**3390**		5	**5790**		20

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-5(5-5.5) JA90802-7 11/1/2011			B-8(6-6.5) JA90802-5 11/1/2011			SW-21(3-3.5) JA90802-4 11/1/2011			SW-22(3-3.5) JA90802-3 11/1/2011			SW-8(3-3.5) JA90802-1 11/1/2011			SW-9(3-3.5) JA90802-2 11/1/2011			TRIP BLANK JA91441-11 11/8/2011			B-23 (4-4.5) JA91441-1 11/8/2011			B-24 (4-4.5) JA91441-3 11/8/2011			B-25 (4-4.5) JA91441-5 11/8/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Isophorone	NS	NS	NA			NA			8.9	U	1	8.6	U	1	9.0	U	1	8.5	U	1	NA			<9.3		1	<9.3		1	<9.6		1
2-Methylnaphthalene	NS	NS	NA			NA			113		1	136		1	225		1	99.8		1	NA			148		1	432		1	1040		1
2-Nitroaniline	NS	NS	NA			NA			15	U	1	14	U	1	15	U	1	14	U	1	NA			<15		1	<15		1	<16		1
3-Nitroaniline	NS	NS	NA			NA			13	U	1	13	U	1	13	U	1	13	U	1	NA			<14		1	<14		1	<14		1
4-Nitroaniline	NS	NS	NA			NA			13	U	1	12	U	1	13	U	1	12	U	1	NA			<13		1	<14		1	<14		1
Naphthalene	12000	500000	808		1	NA			214		1	207		1	398		1	242		1	NA			147		1	493		1	1480		1
Nitrobenzene	NS	NS	NA			NA			9.6	U	1	9.2	U	1	9.7	U	1	9.1	U	1	NA			<9.9		1	<10		1	<10		1
N-Nitroso-di-n-propylamine	NS	NS	NA			NA			8.1	U	1	7.8	U	1	8.2	U	1	7.7	U	1	NA			<8.4		1	<8.5		1	<8.7		1
N-Nitrosodiphenylamine	NS	NS	NA			NA			20	U	1	19	U	1	20	U	1	19	U	1	NA			<21		1	<21		1	<21		1
Phenanthrene	100000	500000	15600		10	NA			6300		5	9350		10	11400		10	6600		5	NA			3630		5	10800		5	24300		20
Pyrene	100000	500000	15300		10	NA			7580		5	20800		10	13600		10	7620		5	NA			8530		5	11500		5	25900		20
1,2,4,5-Tetrachlorobenzene	NS	NS	NA			NA			10	U	1	9.8	U	1	10	U	1	9.7	U	1	NA			<11		1	<11		1	<11		1
Total TIC, Semi-Volatile	NS	NS	NA			NA			8590	J	1	13270	J	1	19640	J	1	8800	J	1	NA			46380			79300			167221		
Aldrin	5	680	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-D	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-BHC	20	3400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	3800	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
beta-BHC	36	3000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-T	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dalapon	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
delta-BHC	40	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dicamba	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dichloroprop	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dinoseb	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPA	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPP	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	800	6700	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-DB	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-Chlordane	94	24000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-Chlordane	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dieldrin	5	1400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDD	3.3	92000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDE	3.3	62000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDT	3.3	47000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	14	89000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan sulfate	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin aldehyde	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-I	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-II	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	42	15000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin ketone	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Aroclor 1016	100	1000	NA			NA			8.9	U	1	8.6	U	1	9.0	U	1	8.4	U	1	NA			<9.2		1	<9.3		1	<9.6		1
Aroclor 1221	100	1000	NA			NA			21	U	1	20	U	1	21	U	1	20	U	1	NA			<21		1	<21		1	<22		1
Aroclor 1232	100	1000	NA			NA			17	U	1	17	U	1	17	U	1	16	U	1	NA			<18		1	<18		1	<19		1
Aroclor 1242	100	1000	NA			NA			11	U	1	10	U	1	11	U	1	10	U	1	NA			<11		1	<11		1	<12		1
Aroclor 1248	100	1000	NA			NA			10	U	1	10	U	1	10	U	1	9.9	U	1	NA			<11		1	<11		1	<11		1
Aroclor 1254	100	1000	NA			NA			16	U	1	15	U	1	16	U	1	15	U	1	NA			<17		1	<17		1	<17		1
Aroclor 1260	100	1000	NA			NA			96.8		1	**271**		1	11	U	1	41.2		1	NA			<12		1	<12		1	900		1
Aroclor 1268	100	1000	NA			NA			10	U	1	9.7	U	1	10	U	1	9.5	U	1	NA			<10		1	<10		1	<11		1
Aroclor 1262	100	1000	NA			NA			11	U	1	10	U	1	11	U	1	10	U	1	NA			<11		1	<11		1	<12		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-5(5-5.5) JA90802-7 11/1/2011			B-8(6-6.5) JA90802-5 11/1/2011			SW-21(3-3.5) JA90802-4 11/1/2011			SW-22(3-3.5) JA90802-3 11/1/2011			SW-8(3-3.5) JA90802-1 11/1/2011			SW-9(3-3.5) JA90802-2 11/1/2011			TRIP BLANK JA91441-11 11/8/2011			B-23 (4-4.5) JA91441-1 11/8/2011			B-24 (4-4.5) JA91441-3 11/8/2011			B-25 (4-4.5) JA91441-5 11/8/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Metals Analysis (mg/kg)																															
Aluminum	NS	NS	NA			NA			6680		1	5540		1	5710		1	5760		1	NA			11000		1	12500		1	8230		1
Antimony	NS	NS	NA			NA			2.4	U	1	2.2	U	1	2.3	U	1	2.3	U	1	NA			<2.4		1	<2.4		1	<2.6		1
Arsenic	13	16	NA			**89.5**		1	9.8		1	11.6		1	7.5		1	5.3		1	NA			**13.6**		1	6.2		1	11.4		1
Barium	350	400	NA			NA			134		1	147		1	81.4		1	94.8		1	NA			86.6		1	148		1	123		1
Beryllium	7.2	590	NA			NA			0.47		1	0.68		1	0.34		1	0.37		1	NA			0.43		1	<0.24		1	0.41		1
Cadmium	2.5	9.3	NA			NA			0.62		1	0.54	U	1	0.56	U	1	0.57	U	1	NA			1		1	0.68		1	1.1		1
Calcium	NS	NS	NA			NA			31700		1	17100		1	17100		1	20200		1	NA			9350		1	6850		1	36200		1
Chromium	NS	NS	NA			NA			16.4		1	19.9		1	14.5		1	13.7		1	NA			18.8		1	31.9		1	21.6		1
Cobalt	NS	NS	NA			NA			6	U	1	6.8		1	5.6	U	1	5.7	U	1	NA			8.5		1	13.8		1	6.4		1
Copper	50	270	NA			NA			**53**		1	**107**		1	46.3		1	36.5		1	NA			**61.9**		1	**54.5**		1	**67.6**		1
Iron	NS	NS	NA			NA			19300		1	23100		1	13300		1	14000		1	NA			24400		1	21700		1	15400		1
Lead	63	1000	NA			NA			**143**		1	**160**		1	**145**		1	**88.7**		1	NA			**125**		1	**76.9**		1	**240**		1
Magnesium	NS	NS	NA			NA			3690		1	3420		1	4890		1	7140		1	NA			3840		1	6750		1	6430		1
Manganese	1600	10000	NA			NA			249		1	240		1	186		1	222		1	NA			262		1	320		1	320		1
Mercury	0.18	2.8	NA			NA			**0.43**		**1**	**0.41**		**1**	**1.4**		**2**	**0.66**		**1**	NA			**0.72**		**1**	**0.5**		**1**	**4.9**		**10**
Nickel	30	310	NA			NA			22.2		1	**33.7**		1	19.4		1	14.9		1	NA			23.7		1	**33.3**		1	20.4		1
Potassium	NS	NS	NA			NA			1200	U	1	1100	U	1	1100	U	1	1100	U	1	NA			2600		1	6040		1	1530		1
Selenium	3.9	1500	NA			NA			2.4	U	1	2.2	U	1	2.3	U	1	2.3	U	1	NA			3		1	<2.4		1	<2.6		1
Silver	2	1500	NA			NA			0.6	U	1	0.54	U	1	0.56	U	1	0.57	U	1	NA			<0.61		1	<0.60		1	<0.64		1
Sodium	NS	NS	NA			NA			1200	U	1	1100	U	1	1100	U	1	1100	U	1	NA			<1200		1	<1200		1	<1300		1
Thallium	NS	NS	NA			NA			1.2	U	1	1.1	U	1	1.1	U	1	1.1	U	1	NA			<1.2		1	<1.2		1	<1.3		1
Vanadium	NS	NS	NA			NA			35.2		1	29.9		1	24.2		1	28.3		1	NA			26.8		1	41.5		1	36.1		1
Zinc	109	10000	NA			NA			**208**		1	**242**		1	**220**		1	99.9		1	NA			**144**		1	105		1	**181**		1
General Chemistry																															
Solids, Percent (%)	NS	NS	82.0		1	88.5		1	86.0		1	89.4		1	85.2		1	90.6		1	NA			83.0		1	82.5		1	80.0		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25 (6-6.5) JA91441-12 11/8/2011			B-28 (4-4.5) JA91441-6 11/8/2011			B-29 (4-4.5) JA91441-8 11/8/2011			B-30 (4-4.5) JA91441-10 11/8/2011			B-32(4-4.5) JA92256-1 11/16/2011			B-33(4-4.5) JA92256-2 11/16/2011			B-34(4-4.5) JA92256-3 11/16/2011			FB111711 JA92397-7 11/17/2011			TRIP BLANK JA92397-8 11/17/2011			SW-10(3-3.5) JA92397-1 11/17/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Acetone	50	500000	NA			<7.1		1	<8.1		1	<7.8		1	<7.9		1	<8.7		1	<8.3		1	<7.6		1	<7.6		1	<7.6		1
Benzene	60	44000	NA			<0.14		1	<0.16		1	<0.16		1	<0.16		1	<0.18		1	<0.17		1	<0.22		1	<0.22		1	<0.15		1
Bromochloromethane	NS	NS	NA			<0.56		1	<0.64		1	<0.61		1	<0.62		1	<0.69		1	<0.65		1	<0.40		1	<0.40		1	<0.59		1
Bromodichloromethane	NS	NS	NA			<0.24		1	<0.28		1	<0.26		1	<0.27		1	<0.30		1	<0.28		1	<0.23		1	<0.23		1	<0.26		1
Bromoform	NS	NS	NA			<0.81		1	<0.93		1	<0.89		1	<0.90		1	<1.0		1	<0.94		1	<0.24		1	<0.24		1	<0.86		1
Bromomethane	NS	NS	NA			<0.42		1	<0.48		1	<0.46		1	<0.47		1	<0.52		1	<0.49		1	<0.31		1	<0.31		1	<0.45		1
2-Butanone (MEK)	120	500000	NA			<4.7		1	<5.3		1	<5.1		1	<5.1		1	<5.7		1	<5.4		1	<2.9		1	<2.9		1	<5.0		1
Carbon disulfide	NS	NS	NA			<0.21		1	0.66	J	1	<0.23		1	<0.23		1	<0.26		1	<0.25		1	<0.18		1	<0.18		1	<0.22		1
Carbon tetrachloride	760	22000	NA			<0.37		1	<0.43		1	<0.41		1	<0.41		1	<0.46		1	<0.43		1	<0.19		1	<0.19		1	<0.40		1
Chlorobenzene	1100	500000	NA			<0.35		1	<0.40		1	<0.38		1	<0.38		1	<0.43		1	<0.40		1	<0.22		1	<0.22		1	<0.37		1
Chloroethane	NS	NS	NA			<0.44		1	<0.50		1	<0.48		1	<0.48		1	<0.54		1	<0.51		1	<0.37		1	<0.37		1	<0.47		1
Chloroform	370	350000	NA			<0.52		1	<0.59		1	<0.57		1	<0.57		1	<0.64		1	<0.60		1	<0.21		1	<0.21		1	<0.55		1
Chloromethane	NS	NS	NA			<0.67		1	<0.77		1	<0.74		1	<0.74		1	<0.82		1	<0.78		1	<0.22		1	<0.22		1	<0.71		1
Cyclohexane	NS	NS	NA			<0.41		1	<0.47		1	<0.45		1	<0.45		1	<0.50		1	<0.47		1	<0.29		1	<0.29		1	<0.43		1
1,2-Dibromo-3-chloropropane	NS	NS	NA			<1.6		1	<1.9		1	<1.8		1	<1.8		1	<2.0		1	<1.9		1	<1.3		1	<1.3		1	<1.7		1
Dibromochloromethane	NS	NS	NA			<0.18		1	<0.21		1	<0.20		1	<0.20		1	<0.22		1	<0.21		1	<0.20		1	<0.20		1	<0.19		1
1,2-Dibromoethane	NS	NS	NA			<0.26		1	<0.29		1	<0.28		1	<0.28		1	<0.31		1	<0.30		1	<0.21		1	<0.21		1	<0.27		1
1,2-Dichlorobenzene	1100	500000	NA			<0.30		1	<0.34		1	<0.33		1	<0.33		1	<0.37		1	<0.35		1	<0.18		1	<0.18		1	<0.32		1
1,3-Dichlorobenzene	2400	280000	NA			<0.21		1	<0.24		1	<0.23		1	<0.23		1	<0.25		1	<0.24		1	<0.29		1	<0.29		1	<0.22		1
1,4-Dichlorobenzene	1800	130000	NA			<0.18		1	<0.21		1	<0.20		1	<0.20		1	<0.22		1	<0.21		1	<0.26		1	<0.26		1	<0.19		1
Dichlorodifluoromethane	NS	NS	NA			<0.35		1	<0.39		1	<0.38		1	<0.38		1	<0.42		1	<0.40		1	<0.31		1	<0.31		1	<0.37		1
1,1-Dichloroethane	270	240000	NA			<0.23		1	<0.27		1	<0.26		1	<0.26		1	<0.29		1	<0.27		1	<0.19		1	<0.19		1	<0.25		1
1,2-Dichloroethane	20	30000	NA			<0.20		1	<0.22		1	<0.21		1	<0.22		1	<0.24		1	<0.23		1	<0.18		1	<0.18		1	<0.21		1
1,1-Dichloroethene	330	500000	NA			<0.66		1	<0.75		1	<0.72		1	<0.73		1	<0.81		1	<0.77		1	<0.28		1	<0.28		1	<0.70		1
cis-1,2-Dichloroethene	250	500000	NA			<0.35		1	<0.40		1	<0.38		1	<0.38		1	<0.43		1	<0.40		1	<0.22		1	<0.22		1	<0.37		1
trans-1,2-Dichloroethene	190	500000	NA			<0.46		1	<0.52		1	<0.50		1	<0.50		1	<0.56		1	<0.53		1	<0.31		1	<0.31		1	<0.49		1
1,2-Dichloropropane	NS	NS	NA			<0.29		1	<0.33		1	<0.31		1	<0.32		1	<0.35		1	<0.33		1	<0.22		1	<0.22		1	<0.30		1
cis-1,3-Dichloropropene	NS	NS	NA			<0.16		1	<0.19		1	<0.18		1	<0.18		1	<0.20		1	<0.19		1	<0.22		1	<0.22		1	<0.17		1
trans-1,3-Dichloropropene	NS	NS	NA			<0.36		1	<0.41		1	<0.40		1	<0.40		1	<0.44		1	<0.42		1	<0.19		1	<0.19		1	<0.38		1
1,4-Dioxane	100	130000	NA			<63		1	<72		1	<69		1	<69		1	<77		1	<73		1	<72		1	<72		1	<67		1
Ethylbenzene	1000	390000	NA			<0.16		1	<0.18		1	0.86	J	1	<0.18		1	<0.20		1	<0.19		1	<0.21		1	<0.21		1	0.72	J	1
Freon 113	NS	NS	NA			<0.77		1	<0.88		1	<0.84		1	<0.85		1	<0.95		1	<0.90		1	<0.49		1	<0.49		1	<0.82		1
2-Hexanone	NS	NS	NA			<2.7		1	<3.1		1	<2.9		1	<2.9		1	<3.3		1	<3.1		1	<3.0		1	<3.0		1	<2.8		1
Isopropylbenzene	NS	NS	NA			<0.15		1	<0.17		1	<0.16		1	<0.16		1	<0.18		1	<0.17		1	<0.19		1	<0.19		1	<0.16		1
Methyl Acetate	NS	NS	NA			<2.4		1	<2.7		1	<2.6		1	<2.6		1	11.2		1	9.7		1	<2.9		1	<2.9		1	8.4		1
Methylcyclohexane	NS	NS	NA			<0.26		1	<0.30		1	<0.29		1	<0.29		1	<0.32		1	<0.31		1	<0.18		1	<0.18		1	<0.28		1
Methyl Tert Butyl Ether	930	500000	NA			<0.19		1	<0.22		1	<0.21		1	<0.21		1	<0.24		1	<0.22		1	<0.18		1	<0.18		1	<0.20		1
4-Methyl-2-pentanone(MIBK)	NS	NS	NA			<2.8		1	<3.2		1	<3.1		1	<3.1		1	<3.5		1	<3.3		1	<1.2		1	<1.2		1	<3.0		1
Methylene chloride	50	500000	NA			<0.25		1	<0.28		1	<0.27		1	<0.27		1	<0.30		1	<0.29		1	<0.20		1	<0.20		1	6.1		1
Styrene	NS	NS	NA			<0.20		1	<0.23		1	<0.22		1	<0.22		1	<0.24		1	<0.23		1	<0.23		1	<0.23		1	<0.21		1
1,1,2,2-Tetrachloroethane	NS	NS	NA			<0.19		1	<0.22		1	<0.21		1	<0.21		1	<0.24		1	<0.22		1	<0.20		1	<0.20		1	<0.20		1
Tetrachloroethene	1300	150000	NA			0.68	J	1	2.7	J	1	0.54	J	1	<0.23		1	<0.25		1	<0.24		1	<0.32		1	<0.32		1	<0.22		1
Toluene	700	500000	NA			<0.41		1	<0.46		1	1.5		1	<0.45		1	<0.50		1	<0.47		1	<0.15		1	<0.15		1	<0.43		1
1,2,3-Trichlorobenzene	NS	NS	NA			<0.47		1	<0.54		1	<0.52		1	<0.52		1	<0.58		1	<0.55		1	<0.69		1	<0.69		1	<0.50		1
1,2,4-Trichlorobenzene	NS	NS	NA			<0.37		1	<0.42		1	<0.40		1	<0.41		1	<0.45		1	<0.43		1	<0.15		1	<0.15		1	<0.39		1
1,1,1-Trichloroethane	680	500000	NA			<0.26		1	<0.30		1	<0.28		1	<0.29		1	<0.32		1	<0.30		1	<0.24		1	<0.24		1	<0.28		1
1,1,2-Trichloroethane	NS	NS	NA			<0.47		1	<0.53		1	<0.51		1	<0.51		1	<0.57		1	<0.54		1	<0.23		1	<0.23		1	<0.50		1
Trichloroethene	470	200000	NA			<0.27		1	<0.30		1	<0.29		1	<0.29		1	<0.33		1	<0.31		1	<0.21		1	<0.21		1	<0.28		1
Trichlorofluoromethane	NS	NS	NA			<0.52		1	<0.59		1	<0.57		1	<0.57		1	<0.64		1	<0.60		1	<0.35		1	<0.35		1	<0.55		1
Vinyl chloride	20	13000	NA			<0.50		1	<0.57		1	<0.54		1	<0.55		1	<0.61		1	<0.58		1	<0.27		1	<0.27		1	<0.53		1
m,p-Xylene	260	500000	NA			<0.34		1	<0.39		1	3.0		1	<0.37		1	<0.41		1	0.61	J	1	<0.32		1	<0.32		1	2.3		1
o-Xylene	260	500000	NA			<0.20		1	<0.23		1	1.2		1	<0.22		1	<0.24		1	<0.23		1	<0.17		1	<0.17		1	0.61	J	1
Xylene (total)	260	500000	NA			<0.20		1	<0.23		1	4.2		1	<0.22		1	<0.24		1	0.61	J	1	<0.17		1	<0.17		1	2.9		1
Total TIC, Volatile	NS	NS	0			0.68			3.36			11.3			0			11.2			10.92			0			0			21.03		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25 (6-6.5) JA91441-12 11/8/2011			B-28 (4-4.5) JA91441-6 11/8/2011			B-29 (4-4.5) JA91441-8 11/8/2011			B-30 (4-4.5) JA91441-10 11/8/2011			B-32(4-4.5) JA92256-1 11/16/2011			B-33(4-4.5) JA92256-2 11/16/2011			B-34(4-4.5) JA92256-3 11/16/2011			FB111711 JA92397-7 11/17/2011			TRIP BLANK JA92397-8 11/17/2011			SW-10(3-3.5) JA92397-1 11/17/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
GC/MS Semi-volatiles (ug/kg)																																
2-Chlorophenol	NS	NS	NA			<32		1	<38		1	<33		1	<35		1	<35		1	<34		1	<0.97		1	NA			<67		2
4-Chloro-3-methyl phenol	NS	NS	NA			<31		1	<37		1	<33		1	<34		1	<34		1	<34		1	<1.8		1	NA			<66		2
2,4-Dichlorophenol	NS	NS	NA			<50		1	<60		1	<53		1	<55		1	<55		1	<55		1	<1.2		1	NA			<110		2
2,4-Dimethylphenol	NS	NS	NA			<53		1	<63		1	60.9	J	1	<58		1	87.7	J	1	272		1	<1.5		1	NA			<110		2
2,4-Dinitrophenol	NS	NS	NA			<38		1	<45		1	<40		1	<42		1	<42		1	<41		1	<17		1	NA			<81		2
4,6-Dinitro-o-cresol	NS	NS	NA			<38		1	<45		1	<40		1	<42		1	<42		1	<41		1	<0.99		1	NA			<81		2
2-Methylphenol	330	500000	NA			<36		1	<42		1	<38		1	<39		1	<39		1	83.3		1	<1.0		1	NA			<75		2
3&4-Methylphenol	NS	NS	NA			<40		1	<47		1	<42		1	<44		1	83.1		1	312		1	<0.93		1	NA			<84		2
2-Nitrophenol	NS	NS	NA			<33		1	<39		1	<35		1	<37		1	<36		1	<36		1	<1.5		1	NA			<70		2
4-Nitrophenol	NS	NS	NA			<53		1	<63		1	<56		1	<58		1	<58		1	<57		1	<5.2		1	NA			<110		2
Pentachlorophenol	800	6700	NA			<54		1	<64		1	<56		1	<59		1	<59		1	<58		1	<1.4		1	NA			<110		2
Phenol	330	500000	NA			<33		1	<39		1	<35		1	<36		1	<36		1	114		1	<1.3		1	NA			<69		2
2,3,4,6-Tetrachlorophenol	NS	NS	NA			<32		1	<38		1	<34		1	<35		1	<35		1	<35		1	<0.94		1	NA			<68		2
2,4,5-Trichlorophenol	NS	NS	NA			<36		1	<43		1	<38		1	<40		1	<40		1	<39		1	<1.6		1	NA			<77		2
2,4,6-Trichlorophenol	NS	NS	NA			<29		1	<35		1	<31		1	<32		1	<32		1	<32		1	<1.3		1	NA			<62		2
Acenaphthene	20000	500000	NA			197		1	394		1	2560		1	352		1	1810		1	15500		50	<0.26		1	NA			1220		2
Acenaphthylene	100000	500000	NA			46.3		1	1200		1	639		1	236		1	356		1	2260		1	<0.23		1	NA			306		2
Acetophenone	NS	NS	NA			<5.5		1	<6.6		1	<5.8		1	<6.1		1	<6.1		1	<6.0		1	<0.29		1	NA			<12		2
Anthracene	100000	500000	NA			483		1	1490		1	5180		5	792		1	3340		1	28300		50	<0.29		1	NA			2680		2
Atrazine	NS	NS	NA			<6.2		1	<7.3		1	<6.5		1	<6.8		1	<6.8		1	<6.7		1	<0.49		1	NA			<13		2
Benzo(a)anthracene	1000	5600	NA			919		1	**6700**		5	**8800**		5	**1360**		1	**9580**		10	**64700**		50	<3.3		1	NA			**7980**		10
Benzo(a)pyrene	1000	1000	NA			848		1	**7230**		5	**7730**		5	**1410**		1	**8560**		10	**60500**		50	<0.23		1	NA			**6450**		2
Benzo(b)fluoranthene	1000	5600	NA			**1040**		1	**8930**		5	**9120**		5	**1570**		1	**7640**		10	**63800**		50	<0.23		1	NA			**7650**		10
Benzo(g,h,i)perylene	100000	500000	NA			487		1	4940		5	4500		5	1080		1	5450		10	45000		50	<0.46		1	NA			4270		2
Benzo(k)fluoranthene	800	56000	NA			274		1	**2790**		1	2940		1	686		1	**5690**		10	**3000**		50	<0.32		1	NA			**5180**		10
4-Bromophenyl phenyl ether	NS	NS	NA			<11		1	<14		1	<12		1	<13		1	<12		1	<12		1	<0.51		1	NA			<24		2
Butyl benzyl phthalate	NS	NS	NA			<18		1	<22		1	<19		1	379		1	<20		1	<20		1	<0.36		1	NA			129	J	2
1,1'-Biphenyl	NS	NS	NA			12.9	J	1	29.9	J	1	142		1	<4.0		1	115		1	944		1	<0.29		1	NA			110	J	2
Benzaldehyde	NS	NS	NA			<7.2		1	<8.6		1	<7.6		1	<7.9		1	<7.9		1	<7.8		1	<0.30		1	NA			<15		2
2-Chloronaphthalene	NS	NS	NA			<9.7		1	<12		1	<10		1	<11		1	<11		1	<11		1	<0.30		1	NA			<20		2
4-Chloroaniline	NS	NS	NA			<10		1	<12		1	<11		1	<11		1	<11		1	<11		1	<0.53		1	NA			<21		2
Carbazole	NS	NS	NA			156		1	250		1	1540		1	219		1	1200		1	8870		50	<0.36		1	NA			800		2
Caprolactam	NS	NS	NA			<9.9		1	<12		1	<10		1	<11		1	<11		1	<11		1	<0.69		1	NA			<21		2
Chrysene	1000	56000	NA			822		1	**6220**		5	**8060**		5	**1330**		1	**9380**		10	**64400**		50	<0.29		1	NA			**7650**		10
bis(2-Chloroethoxy)methane	NS	NS	NA			<13		1	<15		1	<13		1	<14		1	<14		1	<14		1	<0.31		1	NA			<27		2
bis(2-Chloroethyl)ether	NS	NS	NA			<9.4		1	<11		1	<9.9		1	<10		1	<10		1	<10		1	<0.31		1	NA			<20		2
bis(2-Chloroisopropyl)ether	NS	NS	NA			<9.3		1	<11		1	<9.8		1	<10		1	<10		1	<10		1	<0.45		1	NA			<20		2
4-Chlorophenyl phenyl ether	NS	NS	NA			<9.4		1	<11		1	<9.9		1	<10		1	<10		1	<10		1	<0.31		1	NA			<20		2
2,4-Dinitrotoluene	NS	NS	NA			<14		1	<16		1	<14		1	<15		1	<15		1	<15		1	<0.43		1	NA			<29		2
2,6-Dinitrotoluene	NS	NS	NA			<12		1	<14		1	<13		1	<13		1	<13		1	<13		1	<0.46		1	NA			<25		2
3,3'-Dichlorobenzidine	NS	NS	NA			<8.0		1	<9.5		1	<8.4		1	<8.7		1	<8.7		1	<8.6		1	<0.36		1	NA			<17		2
Dibenzo(a,h)anthracene	330	560	NA			206		1	**1620**		1	**1720**		1	**374**		1	**1850**		1	**11100**		50	<0.38		1	NA			**2290**		2
Dibenzofuran	7000	350000	NA			95.0		1	187		1	1360		1	165		1	901		1	**9000**		50	<0.27		1	NA			679		2
Di-n-butyl phthalate	NS	NS	NA			<7.0		1	<8.3		1	<7.3		1	<7.6		1	<7.6		1	<7.5		1	<0.56		1	NA			<15		2
Di-n-octyl phthalate	NS	NS	NA			<15		1	<18		1	<16		1	<17		1	<17		1	<17		1	<0.31		1	NA			<32		2
Diethyl phthalate	NS	NS	NA			<11		1	<13		1	<11		1	<12		1	<12		1	<12		1	<0.33		1	NA			<23		2
Dimethyl phthalate	NS	NS	NA			<11		1	<13		1	<12		1	40.7	J	1	<12		1	<12		1	<0.28		1	NA			<23		2
bis(2-Ethylhexyl)phthalate	NS	NS	NA			<28		1	<33		1	<29		1	47.7	J	1	<30		1	<30		1	<0.59		1	NA			126	J	2
Fluoranthene	100000	500000	NA			1810		1	13200		5	22500		10	2870		1	19500		10	**149000**		50	<0.32		1	NA			17000		10
Fluorene	30000	500000	NA			162		1	326		1	2140		1	278		1	1410		1	10600		50	<0.28		1	NA			1070		2
Hexachlorobenzene	330	330	NA			<10		1	<12		1	<11		1	<11		1	<11		1	<11		1	<0.34		1	NA			<22		2
Hexachlorobutadiene	NS	NS	NA			<8.7		1	<10		1	<9.2		1	<9.6		1	<9.6		1	<9.5		1	<0.51		1	NA			<18		2
Hexachlorocyclopentadiene	NS	NS	NA			<32		1	<38		1	<34		1	<35		1	<35		1	<35		1	<7.1		1	NA			<67		2
Hexachloroethane	NS	NS	NA			<8.7		1	<10		1	<9.2		1	<9.6		1	<9.6		1	<9.5		1	<0.55		1	NA			<18		2
Indeno(1,2,3-cd)pyrene	500	5600	NA			435		1	**4330**		5	**4280**		5	**927**		1	**5480**		10	**39700**		50	<0.37		1	NA			**4130**		2

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25 (6-6.5) JA91441-12 11/8/2011			B-28 (4-4.5) JA91441-6 11/8/2011			B-29 (4-4.5) JA91441-8 11/8/2011			B-30 (4-4.5) JA91441-10 11/8/2011			B-32(4-4.5) JA92256-1 11/16/2011			B-33(4-4.5) JA92256-2 11/16/2011			B-34(4-4.5) JA92256-3 11/16/2011			FB111711 JA92397-7 11/17/2011			TRIP BLANK JA92397-8 11/17/2011			SW-10(3-3.5) JA92397-1 11/17/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Isophorone	NS	NS	NA			<8.4		1	<10		1	<8.9		1	<9.3		1	<9.3		1	<9.1		1	<0.27		1	NA			<18		2
2-Methylnaphthalene	NS	NS	NA			33.6	J	1	83.9		1	595		1	81.6		1	414		1	2640		1	<0.38		1	NA			364		2
2-Nitroaniline	NS	NS	NA			<14		1	<16		1	<15		1	<15		1	<15		1	<15		1	<1.1		1	NA			<29		2
3-Nitroaniline	NS	NS	NA			<13		1	<15		1	<13		1	<14		1	<14		1	<14		1	<1.3		1	NA			<26		2
4-Nitroaniline	NS	NS	NA			<12		1	<15		1	<13		1	<13		1	<13		1	<13		1	<1.7		1	NA			<26		2
Naphthalene	12000	500000	NA			26.2	J	1	143		1	756		1	128		1	453		1	7240		50	<0.26		1	NA			699		2
Nitrobenzene	NS	NS	NA			<9.1		1	<11		1	<9.5		1	<10		1	<9.9		1	<9.8		1	<0.42		1	NA			<19		2
N-Nitroso-di-n-propylamine	NS	NS	NA			<7.7		1	<9.1		1	<8.1		1	<8.4		1	<8.4		1	<8.3		1	<0.30		1	NA			<16		2
N-Nitrosodiphenylamine	NS	NS	NA			<19		1	<22		1	<20		1	<21		1	<21		1	<20		1	<0.31		1	NA			<39		2
Phenanthrene	100000	500000	NA			1470		1	5160		5	16000		5	1910		1	16000		10	**116000**		50	<0.29		1	NA			10200		10
Pyrene	100000	500000	NA			1550		1	13200		5	20700		10	2370		1	16800		10	**118000**		50	<0.27		1	NA			14800		10
1,2,4,5-Tetrachlorobenzene	NS	NS	NA			<9.6		1	<11		1	<10		1	<11		1	<11		1	<10		1	<0.31		1	NA			<20		2
Total TIC, Semi-Volatile	NS	NS	0			11073			78423.8			121322.9			18606			116099.8			848335.3			0			0			95783		
Aldrin	5	680	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-D	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-BHC	20	3400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	3800	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
beta-BHC	36	3000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-T	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dalapon	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
delta-BHC	40	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dicamba	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dichloroprop	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dinoseb	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPA	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPP	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	800	6700	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-DB	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-Chlordane	94	24000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-Chlordane	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dieldrin	5	1400	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDD	3.3	92000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDE	3.3	62000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDT	3.3	47000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	14	89000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan sulfate	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin aldehyde	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-I	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-II	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	42	15000	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin ketone	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Aroclor 1016	100	1000	NA			<8.4		1	<10		1	<8.8		1	<9.3		1	<9.3		1	<9.2		1	<0.13		1	NA			<8.7		1
Aroclor 1221	100	1000	NA			<19		1	<23		1	<20		1	<21		1	<22		1	<21		1	<0.27		1	NA			<20		1
Aroclor 1232	100	1000	NA			<16		1	<19		1	<17		1	<18		1	<18		1	<18		1	<0.39		1	NA			<17		1
Aroclor 1242	100	1000	NA			<10		1	<12		1	<11		1	<11		1	<11		1	<11		1	<0.087		1	NA			<11		1
Aroclor 1248	100	1000	NA			<9.8		1	<12		1	<10		1	<11		1	<11		1	<11		1	<0.15		1	NA			<10		1
Aroclor 1254	100	1000	NA			<15		1	<18		1	<16		1	<17		1	<17		1	<17		1	<0.14		1	NA			<16		1
Aroclor 1260	100	1000	NA			<11		1	<13		1	<11		1	<12		1	<12		1	<12		1	<0.21		1	NA			147		1
Aroclor 1268	100	1000	NA			<9.5		1	<11		1	<10		1	<10		1	<11		1	<10		1	<0.13		1	NA			<9.9		1
Aroclor 1262	100	1000	NA			<10		1	<12		1	<11		1	<11		1	<11		1	<11		1	<0.061		1	NA			<11		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25 (6-6.5) JA91441-12 11/8/2011			B-28 (4-4.5) JA91441-6 11/8/2011			B-29 (4-4.5) JA91441-8 11/8/2011			B-30 (4-4.5) JA91441-10 11/8/2011			B-32(4-4.5) JA92256-1 11/16/2011			B-33(4-4.5) JA92256-2 11/16/2011			B-34(4-4.5) JA92256-3 11/16/2011			FB111711 JA92397-7 11/17/2011			TRIP BLANK JA92397-8 11/17/2011			SW-10(3-3.5) JA92397-1 11/17/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																																
Metals Analysis (mg/kg)																																
Aluminum	NS	NS	NA			6860		1	8700		1	9560		1	9340		1	9450		1	8560		1	<200		1	NA			6910		1
Antimony	NS	NS	NA			<2.1		1	<2.7		1	<2.4		1	<2.5		1	<2.5		1	<2.4		1	<6.0		1	NA			<4.5		2
Arsenic	13	16	NA			**15.8**		1	**17.2**		1	**15.5**		1	6.4		1	**17.6**		1	9.1		1	<3.0		1	NA			**23**		2
Barium	350	400	NA			50.5		1	227		1	**363**		1	123		1	91.3		1	80.4		1	<200		1	NA			133		1
Beryllium	7.2	590	NA			0.3		1	0.4		1	0.44		1	0.34		1	0.39		1	0.4		1	<1.0		1	NA			0.46		1
Cadmium	2.5	9.3	NA			<0.53		1	0.79		1	1.9		1	<0.62		1	<0.63		1	<0.61		1	<3.0		1	NA			<1.1		2
Calcium	NS	NS	NA			3870		1	14400		1	18800		1	18800		1	26800		1	6030		1	<5000		1	NA			22500		1
Chromium	NS	NS	NA			12.8		1	19.9		1	33		1	18.6		1	16.1		1	14.2		1	<10		1	NA			51.6		2
Cobalt	NS	NS	NA			6.4		1	7		1	10.4		1	8.1		1	9		1	<6.1		1	<50		1	NA			<11		2
Copper	50	270	NA			39.5		1	**55.7**		1	**95.7**		1	**59.9**		1	42.9		1	22.8		1	<10		1	NA			**206**		2
Iron	NS	NS	NA			16500		1	17200		1	24700		1	19500		1	27000		1	15000		1	<100		1	NA			92100		2
Lead	63	1000	NA			**142**		1	**272**		1	**192**		1	**90.7**		1	**106**		1	**129**		1	<3.0		1	NA			**165**		2
Magnesium	NS	NS	NA			1910		1	3630		1	5950		1	5710		1	4960		1	2800		1	<5000		1	NA			5740		1
Manganese	1600	10000	NA			404		1	239		1	483		1	246		1	252		1	220		1	<15		1	NA			589		2
Mercury	0.18	2.8	**0.71**		**1**	0.14		**1**	**0.65**		**1**	**0.64**		**1**	**0.35**		**1**	**0.33**		**1**	**0.53**		**1**	<0.20		**1**	NA			**5.3**		**20**
Nickel	30	310	NA			17.8		1	22.5		1	**33.6**		1	20.1		1	20.3		1	16.3		1	<10		1	NA			**117**		2
Potassium	NS	NS	NA			1100		1	1660		1	1540		1	2200		1	1600		1	<1200		1	<10000		1	NA			1350		1
Selenium	3.9	1500	NA			<2.1		1	<2.7		1	**5.4**		1	<2.5		1	<2.5		1	<2.4		1	<10		1	NA			<4.5		2
Silver	2	1500	NA			<0.53		1	<0.67		1	<0.59		1	<0.62		1	<0.63		1	<0.61		1	<10		1	NA			<1.1		**2**
Sodium	NS	NS	NA			<1100		1	<1300		1	<1200		1	<1200		1	<1300		1	<1200		1	<10000		1	NA			<1100		1
Thallium	NS	NS	NA			<1.1		1	<1.3		1	<1.2		1	<1.2		1	<1.3		1	<1.2		1	<2.0		1	NA			<2.2		2
Vanadium	NS	NS	NA			23.6		1	25.2		1	42.1		1	32.8		1	31.8		1	20.3		1	<50		1	NA			288		1
Zinc	109	10000	NA			94.6		1	**165**		1	**257**		1	**158**		1	**118**		1	100		1	<20		1	NA			**208**		1
General Chemistry																																
Solids, Percent (%)	NS	NS	77.7		1	91.1		1	76.7		1	86.6		1	82.5		1	82.3		1	83.3		1	NA			NA			85.7		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons
Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit
& below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-101(3-3.5) JA92397-6 11/17/2011			SW-11(3-3.5) JA92397-2 11/17/2011			SW-18(4-4.5) JA92397-3 11/17/2011			SW-19(4-4.5) JA92397-4 11/17/2011			SW-20(4-4.5) JA92397-5 11/17/2011			B-8(7-7.5) JA91031-1 11/3/2011			B-11 (5-5.5') JA90903-2 11/2/2011			B-16 (5-5.5') JA90903-3 11/2/2011			B-17 (5-5.5') JA90903-4 11/2/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																												
Acetone	50	500000	<9.0		1	<8.5		1	<7.9		1	<8.0		1	<7.5		1	NA			NA			NA			NA		
Benzene	60	44000	<0.18		1	<0.17		1	<0.16		1	<0.16		1	<0.15		1	NA			NA			NA			NA		
Bromochloromethane	NS	NS	<0.71		1	<0.67		1	<0.62		1	<0.63		1	<0.59		1	NA			NA			NA			NA		
Bromodichloromethane	NS	NS	<0.31		1	<0.29		1	<0.27		1	<0.27		1	<0.26		1	NA			NA			NA			NA		
Bromoform	NS	NS	<1.0		1	<0.97		1	<0.90		1	<0.92		1	<0.86		1	NA			NA			NA			NA		
Bromomethane	NS	NS	<0.54		1	<0.51		1	<0.47		1	<0.48		1	<0.45		1	NA			NA			NA			NA		
2-Butanone (MEK)	120	500000	<5.9		1	<5.6		1	<5.1		1	<5.3		1	<4.9		1	NA			NA			NA			NA		
Carbon disulfide	NS	NS	<0.27		1	<0.25		1	<0.23		1	<0.24		1	<0.22		1	NA			NA			NA			NA		
Carbon tetrachloride	760	22000	<0.47		1	<0.45		1	<0.41		1	<0.42		1	<0.39		1	NA			NA			NA			NA		
Chlorobenzene	1100	500000	<0.44		1	<0.41		1	<0.38		1	<0.39		1	<0.37		1	NA			NA			NA			NA		
Chloroethane	NS	NS	<0.56		1	<0.53		1	<0.48		1	<0.50		1	<0.46		1	NA			NA			NA			NA		
Chloroform	370	350000	<0.66		1	<0.62		1	<0.57		1	<0.59		1	<0.55		1	NA			NA			NA			NA		
Chloromethane	NS	NS	<0.85		1	<0.80		1	<0.74		1	<0.76		1	<0.71		1	NA			NA			NA			NA		
Cyclohexane	NS	NS	<0.52		1	<0.49		1	<0.45		1	<0.46		1	<0.43		1	NA			NA			NA			NA		
1,2-Dibromo-3-chloropropane	NS	NS	<2.1		1	<1.9		1	<1.8		1	<1.8		1	<1.7		1	NA			NA			NA			NA		
Dibromochloromethane	NS	NS	<0.23		1	<0.22		1	<0.20		1	<0.20		1	<0.19		1	NA			NA			NA			NA		
1,2-Dibromoethane	NS	NS	<0.33		1	<0.31		1	<0.28		1	<0.29		1	<0.27		1	NA			NA			NA			NA		
1,2-Dichlorobenzene	1100	500000	<0.38		1	<0.36		1	<0.33		1	<0.34		1	<0.32		1	NA			NA			NA			NA		
1,3-Dichlorobenzene	2400	280000	<0.26		1	<0.25		1	<0.23		1	<0.23		1	<0.22		1	NA			NA			NA			NA		
1,4-Dichlorobenzene	1800	130000	<0.23		1	<0.22		1	<0.20		1	<0.21		1	<0.19		1	NA			NA			NA			NA		
Dichlorodifluoromethane	NS	NS	<0.44		1	<0.41		1	<0.38		1	<0.39		1	<0.37		1	NA			NA			NA			NA		
1,1-Dichloroethane	270	240000	<0.30		1	<0.28		1	<0.26		1	<0.27		1	<0.25		1	NA			NA			NA			NA		
1,2-Dichloroethane	20	30000	<0.25		1	<0.23		1	<0.22		1	<0.22		1	<0.21		1	NA			NA			NA			NA		
1,1-Dichloroethene	330	500000	<0.84		1	<0.79		1	<0.73		1	<0.75		1	<0.70		1	NA			NA			NA			NA		
cis-1,2-Dichloroethene	250	500000	<0.44		1	<0.41		1	<0.38		1	<0.39		1	<0.37		1	NA			NA			NA			NA		
trans-1,2-Dichloroethene	190	500000	<0.58		1	<0.55		1	<0.50		1	<0.52		1	<0.48		1	NA			NA			NA			NA		
1,2-Dichloropropane	NS	NS	<0.36		1	<0.34		1	<0.32		1	<0.32		1	<0.30		1	NA			NA			NA			NA		
cis-1,3-Dichloropropene	NS	NS	<0.21		1	<0.20		1	<0.18		1	<0.18		1	<0.17		1	NA			NA			NA			NA		
trans-1,3-Dichloropropene	NS	NS	<0.46		1	<0.43		1	<0.40		1	<0.41		1	<0.38		1	NA			NA			NA			NA		
1,4-Dioxane	100	130000	<80		1	<75		1	<69		1	<71		1	<66		1	NA			NA			NA			NA		
Ethylbenzene	1000	390000	<0.20		1	<0.19		1	0.56	J	1	0.58	J	1	<0.17		1	NA			NA			NA			NA		
Freon 113	NS	NS	<0.98		1	<0.92		1	<0.85		1	<0.87		1	<0.82		1	NA			NA			NA			NA		
2-Hexanone	NS	NS	<3.4		1	<3.2		1	<2.9		1	<3.0		1	<2.8		1	NA			NA			NA			NA		
Isopropylbenzene	NS	NS	<0.19		1	<0.18		1	<0.16		1	<0.17		1	<0.16		1	NA			NA			NA			NA		
Methyl Acetate	NS	NS	28.1		1	20.3		1	7.2		1	21.4		1	12.1		1	NA			NA			NA			NA		
Methylcyclohexane	NS	NS	<0.33		1	<0.32		1	<0.29		1	<0.30		1	<0.28		1	NA			NA			NA			NA		
Methyl Tert Butyl Ether	930	500000	<0.24		1	<0.23		1	<0.21		1	<0.22		1	<0.20		1	NA			NA			NA			NA		
4-Methyl-2-pentanone(MIBK)	NS	NS	<3.6		1	<3.4		1	<3.1		1	<3.2		1	<3.0		1	NA			NA			NA			NA		
Methylene chloride	50	500000	3.9	J	1	5.6	J	1	4.4	J	1	5.6	J	1	2.3	J	1	NA			NA			NA			NA		
Styrene	NS	NS	<0.25		1	<0.24		1	<0.22		1	<0.22		1	<0.21		1	NA			NA			NA			NA		
1,1,2,2-Tetrachloroethane	NS	NS	<0.24		1	<0.23		1	<0.21		1	<0.22		1	<0.20		1	NA			NA			NA			NA		
Tetrachloroethene	1300	150000	<0.26		1	<0.25		1	<0.23		1	<0.23		1	<0.22		1	NA			NA			NA			NA		
Toluene	700	500000	<0.52		1	<0.49		1	<0.45		1	<0.46		1	<0.43		1	NA			NA			NA			NA		
1,2,3-Trichlorobenzene	NS	NS	<0.60		1	<0.56		1	<0.52		1	<0.53		1	<0.50		1	NA			NA			NA			NA		
1,2,4-Trichlorobenzene	NS	NS	<0.47		1	<0.44		1	<0.41		1	<0.41		1	<0.39		1	NA			NA			NA			NA		
1,1,1-Trichloroethane	680	500000	<0.33		1	<0.31		1	<0.29		1	<0.29		1	<0.27		1	NA			NA			NA			NA		
1,1,2-Trichloroethane	NS	NS	<0.59		1	<0.56		1	<0.51		1	<0.53		1	<0.49		1	NA			NA			NA			NA		
Trichloroethene	470	200000	<0.34		1	<0.32		1	<0.29		1	<0.30		1	<0.28		1	NA			NA			NA			NA		
Trichlorofluoromethane	NS	NS	<0.66		1	<0.62		1	<0.57		1	<0.59		1	<0.55		1	NA			NA			NA			NA		
Vinyl chloride	20	13000	<0.63		1	<0.59		1	<0.55		1	<0.56		1	<0.53		1	NA			NA			NA			NA		
m,p-Xylene	260	500000	1.2	J	1	1.4		1	2.1		1	2.1		1	<0.36		1	NA			NA			NA			NA		
o-Xylene	260	500000	<0.25		1	<0.24		1	0.51	J	1	0.57	J	1	<0.21		1	NA			NA			NA			NA		
Xylene (total)	260	500000	1.2	J	1	1.4		1	2.6		1	2.7		1	<0.21		1	NA			NA			NA			NA		
Total TIC, Volatile	NS	NS	34.4			28.7			17.37			32.95			14.4			NA			NA			NA			NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-101(3-3.5) JA92397-6 11/17/2011			SW-11(3-3.5) JA92397-2 11/17/2011			SW-18(4-4.5) JA92397-3 11/17/2011			SW-19(4-4.5) JA92397-4 11/17/2011			SW-20(4-4.5) JA92397-5 11/17/2011			B-8(7-7.5) JA91031-1 11/3/2011		B-11 (5-5.5') JA90903-2 11/2/2011		B-16 (5-5.5') JA90903-3 11/2/2011		B-17 (5-5.5') JA90903-4 11/2/2011	
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q D	Result	Q D	Result	Q D	Result	Q D
GC/MS Volatiles (ug/kg)																										
GC/MS Semi-volatiles (ug/kg)																										
2-Chlorophenol	NS	NS	<34		1	<67		2	<32		1	<32		1	<32		1	NA		NA		NA		NA	
4-Chloro-3-methyl phenol	NS	NS	<34		1	<66		2	<31		1	<31		1	<32		1	NA		NA		NA		NA	
2,4-Dichlorophenol	NS	NS	<54		1	<110		2	<51		1	<51		1	<51		1	NA		NA		NA		NA	
2,4-Dimethylphenol	NS	NS	<56		1	<110		2	<53		1	<53		1	<54		1	NA		NA		NA		NA	
2,4-Dinitrophenol	NS	NS	<41		1	<81		2	<38		1	<38		1	<39		1	NA		NA		NA		NA	
4,6-Dinitro-o-cresol	NS	NS	<41		1	<81		2	<38		1	<38		1	<39		1	NA		NA		NA		NA	
2-Methylphenol	330	500000	<38		1	<75		2	<36		1	<36		1	<36		1	NA		NA		NA		NA	
3&4-Methylphenol	NS	NS	48.8	J	1	<84		2	<40		1	<40		1	<40		1	NA		NA		NA		NA	
2-Nitrophenol	NS	NS	<36		1	<70		2	<33		1	<33		1	<34		1	NA		NA		NA		NA	
4-Nitrophenol	NS	NS	<57		1	<110		2	<53		1	<53		1	<54		1	NA		NA		NA		NA	
Pentachlorophenol	800	6700	<57		1	<110		2	<54		1	<54		1	<55		1	NA		NA		NA		NA	
Phenol	330	500000	<35		1	<70		2	<33		1	<33		1	<33		1	NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	NS	NS	<35		1	<68		2	<32		1	<32		1	<33		1	NA		NA		NA		NA	
2,4,5-Trichlorophenol	NS	NS	<39		1	<77		2	<36		1	<36		1	<37		1	NA		NA		NA		NA	
2,4,6-Trichlorophenol	NS	NS	<32		1	<62		2	<30		1	<30		1	<30		1	NA		NA		NA		NA	
Acenaphthene	20000	500000	1000		1	1250		2	19.9	J	1	746		1	684		1	NA		NA		NA		NA	
Acenaphthylene	100000	500000	194		1	507		2	37.3		1	323		1	382		1	NA		NA		NA		NA	
Acetophenone	NS	NS	<5.9		1	33.3	J	2	16.9	J	1	<5.5		1	<5.6		1	NA		NA		NA		NA	
Anthracene	100000	500000	1890		1	2440		2	83.0		1	1820		1	1930		1	NA		NA		NA		NA	
Atrazine	NS	NS	<6.6		1	<13		2	<6.2		1	<6.2		1	<6.3		1	NA		NA		NA		NA	
Benzo(a)anthracene	1000	5600	**4280**		10	**8560**		10	342		1	**3810**		5	**3990**		5	NA		NA		NA		NA	
Benzo(a)pyrene	1000	1000	**3860**		10	**8820**		10	322		1	**3500**		5	**3770**		5	NA		NA		NA		NA	
Benzo(b)fluoranthene	1000	5600	**5300**		10	**10000**		10	422		1	**4060**		5	**3920**		5	NA		NA		NA		NA	
Benzo(g,h,i)perylene	100000	500000	2990		1	6220		2	240		1	2640		1	2470		1	NA		NA		NA		NA	
Benzo(k)fluoranthene	800	56000	**2000**		1	**6040**		10	164		1	**1950**		5	**2400**		5	NA		NA		NA		NA	
4-Bromophenyl phenyl ether	NS	NS	<12		1	<24		2	<11		1	<11		1	<12		1	NA		NA		NA		NA	
Butyl benzyl phthalate	NS	NS	<19		1	251		2	<18		1	42.3	J	1	51.0	J	1	NA		NA		NA		NA	
1,1'-Biphenyl	NS	NS	61.1	J	1	71.1	J	2	<3.6		1	58.2	J	1	75.7		1	NA		NA		NA		NA	
Benzaldehyde	NS	NS	<7.7		1	<15		2	<7.2		1	<7.2		1	<7.3		1	NA		NA		NA		NA	
2-Chloronaphthalene	NS	NS	<10		1	<21		2	<9.7		1	<9.7		1	<9.9		1	NA		NA		NA		NA	
4-Chloroaniline	NS	NS	<11		1	<21		2	<10		1	<10		1	<10		1	NA		NA		NA		NA	
Carbazole	NS	NS	679		1	1010		2	29.8	J	1	665		1	657		1	NA		NA		NA		NA	
Caprolactam	NS	NS	<11		1	<21		2	<9.9		1	<9.9		1	<10		1	NA		NA		NA		NA	
Chrysene	1000	56000	**4330**		10	**8700**		10	343		1	**3460**		5	**3680**		5	NA		NA		NA		NA	
bis(2-Chloroethoxy)methane	NS	NS	<14		1	<27		2	<13		1	<13		1	<13		1	NA		NA		NA		NA	
bis(2-Chloroethyl)ether	NS	NS	<10		1	<20		2	<9.4		1	<9.5		1	<9.6		1	NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	NS	NS	<10		1	<20		2	<9.3		1	<9.3		1	<9.5		1	NA		NA		NA		NA	
4-Chlorophenyl phenyl ether	NS	NS	<10		1	<20		2	<9.4		1	<9.5		1	<9.6		1	NA		NA		NA		NA	
2,4-Dinitrotoluene	NS	NS	<15		1	<29		2	<14		1	<14		1	<14		1	NA		NA		NA		NA	
2,6-Dinitrotoluene	NS	NS	<13		1	<25		2	<12		1	<12		1	<12		1	NA		NA		NA		NA	
3,3'-Dichlorobenzidine	NS	NS	<8.5		1	<17		2	<8.0		1	<8.0		1	<8.1		1	NA		NA		NA		NA	
Dibenzo(a,h)anthracene	330	560	**1370**		1	**3040**		2	74.0		1	**1260**		1	**1240**		1	NA		NA		NA		NA	
Dibenzofuran	7000	350000	524		1	582		2	12.7	J	1	424		1	457		1	NA		NA		NA		NA	
Di-n-butyl phthalate	NS	NS	<7.5		1	<15		2	<7.0		1	<7.0		1	<7.1		1	NA		NA		NA		NA	
Di-n-octyl phthalate	NS	NS	<16		1	<32		2	<15		1	<15		1	<16		1	NA		NA		NA		NA	
Diethyl phthalate	NS	NS	<11		1	<23		2	<11		1	<11		1	<11		1	NA		NA		NA		NA	
Dimethyl phthalate	NS	NS	39.4	J	1	75.0	J	2	32.6	J	1	38.4	J	1	55.1	J	1	NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	NS	NS	103		1	942		2	144		1	149		1	152		1	NA		NA		NA		NA	
Fluoranthene	100000	500000	9610		10	18500		10	595		1	8300		5	8840		5	NA		NA		NA		NA	
Fluorene	30000	500000	785		1	834		2	23.6	J	1	703		1	683		1	NA		NA		NA		NA	
Hexachlorobenzene	330	330	<11		1	<22		2	<10		1	<10		1	<10		1	NA		NA		NA		NA	
Hexachlorobutadiene	NS	NS	<9.3		1	<18		2	<8.7		1	<8.7		1	<8.9		1	NA		NA		NA		NA	
Hexachlorocyclopentadiene	NS	NS	<34		1	<68		2	<32		1	<32		1	<33		1	NA		NA		NA		NA	
Hexachloroethane	NS	NS	<9.3		1	<18		2	<8.7		1	<8.7		1	<8.9		1	NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	500	5600	**2800**		1	**5710**		2	223		1	**2490**		1	**2410**		1	NA		NA		NA		NA	

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-101(3-3.5) JA92397-6 11/17/2011			SW-11(3-3.5) JA92397-2 11/17/2011			SW-18(4-4.5) JA92397-3 11/17/2011			SW-19(4-4.5) JA92397-4 11/17/2011			SW-20(4-4.5) JA92397-5 11/17/2011			B-8(7-7.5) JA91031-1 11/3/2011			B-11 (5-5.5') JA90903-2 11/2/2011			B-16 (5-5.5') JA90903-3 11/2/2011			B-17 (5-5.5') JA90903-4 11/2/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																												
Isophorone	NS	NS	<9.0		1	<18		2	<8.4		1	<8.5		1	<8.6		1	NA			NA			NA			NA		
2-Methylnaphthalene	NS	NS	180		1	222		2	<18		1	149		1	203		1	NA			NA			NA			NA		
2-Nitroaniline	NS	NS	<15		1	<29		2	<14		1	<14		1	<14		1	NA			NA			NA			NA		
3-Nitroaniline	NS	NS	<13		1	<26		2	<13		1	<13		1	<13		1	NA			NA			NA			NA		
4-Nitroaniline	NS	NS	<13		1	<26		2	<12		1	<12		1	<12		1	NA			NA			NA			NA		
Naphthalene	12000	500000	302		1	422		2	<8.6		1	246		1	381		1	NA			NA			NA			NA		
Nitrobenzene	NS	NS	<9.7		1	<19		2	<9.1		1	<9.1		1	<9.2		1	NA			NA			NA			NA		
N-Nitroso-di-n-propylamine	NS	NS	<8.2		1	<16		2	<7.7		1	<7.7		1	<7.8		1	NA			NA			NA			NA		
N-Nitrosodiphenylamine	NS	NS	<20		1	<40		2	<19		1	<19		1	<19		1	NA			NA			NA			NA		
Phenanthrene	100000	500000	6020		10	9600		10	307		1	6060		5	6690		5	NA			NA			NA			NA		
Pyrene	100000	500000	8010		10	16300		10	607		1	7620		5	7950		5	NA			NA			NA			NA		
1,2,4,5-Tetrachlorobenzene	NS	NS	<10		1	<20		2	<9.6		1	<9.6		1	<9.8		1	NA			NA			NA			NA		
Total TIC, Semi-Volatile	NS	NS	56376.3			110129.4			4038.8			50513.9			53070.8			NA			NA			NA			NA		
Aldrin	5	680	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-D	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-BHC	20	3400	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-TP (Silvex)	3800	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
beta-BHC	36	3000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4,5-T	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dalapon	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
delta-BHC	40	500000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dicamba	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dichloroprop	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dinoseb	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPA	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
MCPP	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	800	6700	NA			NA			NA			NA			NA			NA			NA			NA			NA		
2,4-DB	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
alpha-Chlordane	94	24000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
gamma-Chlordane	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Dieldrin	5	1400	NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDD	3.3	92000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDE	3.3	62000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
4,4'-DDT	3.3	47000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin	14	89000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan sulfate	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin aldehyde	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-I	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endosulfan-II	2400	200000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor	42	15000	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Heptachlor epoxide	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Methoxychlor	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Endrin ketone	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Toxaphene	NS	NS	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Aroclor 1016	100	1000	<9.0		1	<8.9		1	<8.3		1	<8.6		1	<8.5		1	NA			NA			NA			NA		
Aroclor 1221	100	1000	<21		1	<21		1	<19		1	<20		1	<20		1	NA			NA			NA			NA		
Aroclor 1232	100	1000	<17		1	<17		1	<16		1	<17		1	<17		1	NA			NA			NA			NA		
Aroclor 1242	100	1000	<11		1	<11		1	<10		1	<10		1	<10		1	NA			NA			NA			NA		
Aroclor 1248	100	1000	<11		1	<10		1	<9.8		1	<10		1	<10		1	NA			NA			NA			NA		
Aroclor 1254	100	1000	<16		1	<16		1	<15		1	<15		1	<15		1	NA			NA			NA			NA		
Aroclor 1260	100	1000	535		1	67.1		1	<11		1	45.8		1	354		1	NA			NA			NA			NA		
Aroclor 1268	100	1000	<10		1	<10		1	<9.4		1	<9.7		1	<9.7		1	NA			NA			NA			NA		
Aroclor 1262	100	1000	<11		1	<11		1	<10		1	<10		1	<10		1	NA			NA			NA			NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-101(3-3.5) JA92397-6 11/17/2011			SW-11(3-3.5) JA92397-2 11/17/2011			SW-18(4-4.5) JA92397-3 11/17/2011			SW-19(4-4.5) JA92397-4 11/17/2011			SW-20(4-4.5) JA92397-5 11/17/2011			B-8(7-7.5) JA91031-1 11/3/2011			B-11 (5-5.5') JA90903-2 11/2/2011			B-16 (5-5.5') JA90903-3 11/2/2011			B-17 (5-5.5') JA90903-4 11/2/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																												
Metals Analysis (mg/kg)																												
Aluminum	NS	NS	7070		1	6280		1	8310		1	6630		1	7140		1	NA			NA			NA			NA		
Antimony	NS	NS	<2.4		1	<2.3		1	<2.1		1	<2.3		1	<2.2		1	NA			NA			NA			NA		
Arsenic	13	16	10.5		1	8.7		1	2.9		1	6.6		1	9.2		1	11.5		1	9.6		1	**32.6**		1	NA		
Barium	350	400	135		1	129		1	126		1	92.7		1	133		1	NA			99.9		1	NA			NA		
Beryllium	7.2	590	0.42		1	0.5		1	0.45		1	0.4		1	0.43		1	NA			NA			NA			NA		
Cadmium	2.5	9.3	<0.59		1	<0.57		1	<0.54		1	<0.56		1	0.63		1	NA			NA			NA			NA		
Calcium	NS	NS	28200		1	25000		1	15200		1	30600		1	24200		1	NA			NA			NA			NA		
Chromium	NS	NS	17.8		1	23.4		1	26.2		1	15.3		1	21.6		1	NA			NA			NA			NA		
Cobalt	NS	NS	<5.9		1	<5.7		1	6.6		1	<5.6		1	<5.5		1	NA			NA			NA			NA		
Copper	50	270	**72**		1	**91.2**		1	33.2		1	39.3		1	**72.5**		1	NA			44.8		1	NA			NA		
Iron	NS	NS	14900		1	19700		1	14200		1	14000		1	16500		1	NA			NA			NA			NA		
Lead	63	1000	**175**		1	**173**		1	**74.7**		1	**132**		1	**186**		1	NA			NA			NA			NA		
Magnesium	NS	NS	6680		1	5510		1	5130		1	3620		1	4660		1	NA			NA			NA			NA		
Manganese	1600	10000	291		1	356		1	220		1	282		1	232		1	NA			NA			NA			NA		
Mercury	0.18	2.8	**3.3**		**10**	**14.6**		**20**	0.14		**1**	**1**		**2**	**0.8**		**1**	NA			NA			**1.8**		**2**	**3.4**		**5**
Nickel	30	310	19.4		1	20.1		1	28.1		1	13		1	19.3		1	NA			NA			NA			NA		
Potassium	NS	NS	<1200		1	<1100		1	2900		1	<1100		1	1160		1	NA			NA			NA			NA		
Selenium	3.9	1500	<2.4		1	<2.3		1	<2.1		1	<2.3		1	<2.2		1	NA			NA			NA			NA		
Silver	2	1500	0.59		1	0.67		1	<0.54		1	<0.56		1	0.83		1	NA			NA			NA			NA		
Sodium	NS	NS	<1200		1	<1100		1	<1100		1	<1100		1	<1100		1	NA			NA			NA			NA		
Thallium	NS	NS	<1.2		1	<1.1		1	<1.1		1	<1.1		1	<1.1		1	NA			NA			NA			NA		
Vanadium	NS	NS	30.3		1	21.7		1	27.9		1	27.1		1	33.9		1	NA			NA			NA			NA		
Zinc	109	10000	**199**		1	**429**		1	85.9		1	**148**		1	**213**		1	NA			NA			NA			NA		
General Chemistry																												
Solids, Percent (%)	NS	NS	85.1		1	86.3		1	89.5		1	89.4		1	89.6		1	73.2		1	79.0		1	75.5		1	78.6		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25(5-5.5) JA93030-1 11/28/2011			B-30(5-5.5) JA93030-2 11/28/2011			B-11 (3.5-4) JA90022-9RL 10/24/2011			TRIP BLANK JA92694-7 11/21/2011			SW-12 (3-3.5) JA92694-5 11/21/2011			SW-13 (3-3.5) JA92694-6 11/21/2011			SW-14 (0-0.5) JA92694-1 11/21/2011			SW-14 (1.5-2) JA92694-2 11/21/2011			SW-15 (0-0.5) JA92694-3 11/21/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																												
Acetone	50	500000	NA			NA			NA			<7.6		1	<8.3		1	<8.5		1	<6.1		1	<8.0		1	<7.5		1
Benzene	60	44000	NA			NA			NA			<0.22		1	<0.17		1	<0.17		1	<0.12		1	<0.16		1	<0.15		1
Bromochloromethane	NS	NS	NA			NA			NA			<0.40		1	<0.65		1	<0.66		1	<0.48		1	<0.62		1	<0.59		1
Bromodichloromethane	NS	NS	NA			NA			NA			<0.23		1	<0.28		1	<0.29		1	<0.21		1	<0.27		1	<0.25		1
Bromoform	NS	NS	NA			NA			NA			<0.24		1	<0.95		1	<0.96		1	<0.70		1	<0.91		1	<0.85		1
Bromomethane	NS	NS	NA			NA			NA			<0.31		1	<0.50		1	<0.50		1	<0.36		1	<0.47		1	<0.45		1
2-Butanone (MEK)	120	500000	NA			NA			NA			<2.9		1	<5.5		1	<5.5		1	<4.0		1	<5.2		1	<4.9		1
Carbon disulfide	NS	NS	NA			NA			NA			<0.18		1	<0.25		1	<0.25		1	<0.18		1	<0.24		1	<0.22		1
Carbon tetrachloride	760	22000	NA			NA			NA			<0.19		1	<0.44		1	<0.44		1	<0.32		1	<0.42		1	<0.39		1
Chlorobenzene	1100	500000	NA			NA			NA			<0.22		1	<0.41		1	<0.41		1	<0.30		1	<0.39		1	<0.36		1
Chloroethane	NS	NS	NA			NA			NA			<0.37		1	<0.51		1	<0.52		1	<0.38		1	<0.49		1	<0.46		1
Chloroform	370	350000	NA			NA			NA			<0.21		1	<0.61		1	<0.62		1	<0.44		1	<0.58		1	<0.55		1
Chloromethane	NS	NS	NA			NA			NA			<0.22		1	<0.79		1	<0.80		1	<0.57		1	<0.75		1	<0.71		1
Cyclohexane	NS	NS	NA			NA			NA			<0.29		1	<0.48		1	<0.48		1	<0.35		1	<0.46		1	<0.43		1
1,2-Dibromo-3-chloropropane	NS	NS	NA			NA			NA			<1.3		1	<1.9		1	<1.9		1	<1.4		1	<1.8		1	<1.7		1
Dibromochloromethane	NS	NS	NA			NA			NA			<0.20		1	<0.21		1	<0.21		1	<0.15		1	<0.20		1	<0.19		1
1,2-Dibromoethane	NS	NS	NA			NA			NA			<0.21		1	<0.30		1	<0.30		1	<0.22		1	<0.29		1	<0.27		1
1,2-Dichlorobenzene	1100	500000	NA			NA			NA			<0.18		1	<0.35		1	<0.35		1	<0.26		1	<0.33		1	<0.31		1
1,3-Dichlorobenzene	2400	280000	NA			NA			NA			<0.29		1	<0.24		1	<0.25		1	<0.18		1	<0.23		1	<0.22		1
1,4-Dichlorobenzene	1800	130000	NA			NA			NA			<0.26		1	<0.21		1	<0.22		1	<0.16		1	<0.20		1	<0.19		1
Dichlorodifluoromethane	NS	NS	NA			NA			NA			<0.31		1	<0.40		1	<0.41		1	<0.30		1	<0.39		1	<0.36		1
1,1-Dichloroethane	270	240000	NA			NA			NA			<0.19		1	<0.27		1	<0.28		1	<0.20		1	<0.26		1	<0.25		1
1,2-Dichloroethane	20	30000	NA			NA			NA			<0.18		1	<0.23		1	<0.23		1	<0.17		1	<0.22		1	<0.21		1
1,1-Dichloroethene	330	500000	NA			NA			NA			<0.28		1	<0.77		1	<0.78		1	<0.56		1	<0.74		1	<0.69		1
cis-1,2-Dichloroethene	250	500000	NA			NA			NA			<0.22		1	<0.41		1	<0.41		1	<0.30		1	<0.39		1	<0.36		1
trans-1,2-Dichloroethene	190	500000	NA			NA			NA			<0.31		1	<0.53		1	<0.54		1	<0.39		1	<0.51		1	<0.48		1
1,2-Dichloropropane	NS	NS	NA			NA			NA			<0.22		1	<0.34		1	<0.34		1	<0.24		1	<0.32		1	<0.30		1
cis-1,3-Dichloropropene	NS	NS	NA			NA			NA			<0.22		1	<0.19		1	<0.19		1	<0.14		1	<0.18		1	<0.17		1
trans-1,3-Dichloropropene	NS	NS	NA			NA			NA			<0.19		1	<0.42		1	<0.43		1	<0.31		1	<0.40		1	<0.38		1
1,4-Dioxane	100	130000	NA			NA			NA			<72		1	<73		1	<74		1	<54		1	<70		1	<66		1
Ethylbenzene	1000	390000	NA			NA			NA			<0.21		1	<0.19		1	<0.19		1	<0.14		1	<0.18		1	<0.17		1
Freon 113	NS	NS	NA			NA			NA			<0.49		1	<0.90		1	<0.92		1	<0.66		1	<0.86		1	<0.81		1
2-Hexanone	NS	NS	NA			NA			NA			<3.0		1	<3.1		1	<3.2		1	<2.3		1	<3.0		1	<2.8		1
Isopropylbenzene	NS	NS	NA			NA			NA			<0.19		1	<0.17		1	<0.18		1	<0.13		1	<0.16		1	<0.15		1
Methyl Acetate	NS	NS	NA			NA			NA			<2.9		1	<2.8		1	<2.8		1	<2.0		1	<2.7		1	<2.5		1
Methylcyclohexane	NS	NS	NA			NA			NA			<0.18		1	<0.31		1	<0.31		1	<0.23		1	<0.29		1	<0.28		1
Methyl Tert Butyl Ether	930	500000	NA			NA			NA			<0.18		1	<0.23		1	<0.23		1	<0.16		1	<0.22		1	<0.20		1
4-Methyl-2-pentanone(MIBK)	NS	NS	NA			NA			NA			<1.2		1	<3.3		1	<3.4		1	<2.4		1	<3.2		1	<3.0		1
Methylene chloride	50	500000	NA			NA			NA			<0.20		1	4.0	J	1	4.6	J	1	<0.21		1	<0.28		1	3.7	J	1
Styrene	NS	NS	NA			NA			NA			<0.23		1	<0.23		1	<0.24		1	<0.17		1	<0.22		1	<0.21		1
1,1,2,2-Tetrachloroethane	NS	NS	NA			NA			NA			<0.20		1	<0.23		1	<0.23		1	<0.16		1	<0.22		1	<0.20		1
Tetrachloroethene	1300	150000	NA			NA			NA			<0.32		1	<0.24		1	<0.24		1	<0.18		1	<0.23		1	<0.22		1
Toluene	700	500000	NA			NA			NA			<0.15		1	<0.48		1	<0.48		1	<0.35		1	<0.45		1	<0.43		1
1,2,3-Trichlorobenzene	NS	NS	NA			NA			NA			<0.69		1	<0.55		1	<0.56		1	<0.40		1	<0.53		1	<0.49		1
1,2,4-Trichlorobenzene	NS	NS	NA			NA			NA			<0.15		1	<0.43		1	<0.44		1	<0.31		1	<0.41		1	<0.39		1
1,1,1-Trichloroethane	680	500000	NA			NA			NA			<0.24		1	<0.30		1	<0.31		1	<0.22		1	<0.29		1	<0.27		1
1,1,2-Trichloroethane	NS	NS	NA			NA			NA			<0.23		1	<0.55		1	<0.55		1	<0.40		1	<0.52		1	<0.49		1
Trichloroethene	470	200000	NA			NA			NA			<0.21		1	<0.31		1	<0.32		1	<0.23		1	<0.30		1	<0.28		1
Trichlorofluoromethane	NS	NS	NA			NA			NA			<0.35		1	<0.61		1	<0.62		1	<0.44		1	<0.58		1	<0.54		1
Vinyl chloride	20	13000	NA			NA			NA			<0.27		1	<0.58		1	<0.59		1	<0.42		1	<0.55		1	<0.52		1
m,p-Xylene	260	500000	NA			NA			NA			<0.32		1	<0.40		1	0.73	J	1	<0.29		1	<0.38		1	<0.35		1
o-Xylene	260	500000	NA			NA			NA			<0.17		1	<0.23		1	<0.24		1	<0.17		1	<0.22		1	<0.21		1
Xylene (total)	260	500000	NA			NA			NA			<0.17		1	<0.23		1	0.73	J	1	<0.17		1	<0.22		1	<0.21		1
Total TIC, Volatile	NS	NS	NA			NA			NA			0			4			6.06			0			0			3.7		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25(5-5.5) JA93030-1 11/28/2011			B-30(5-5.5) JA93030-2 11/28/2011			B-11 (3.5-4) JA90022-9RL 10/24/2011			TRIP BLANK JA92694-7 11/21/2011			SW-12 (3-3.5) JA92694-5 11/21/2011			SW-13 (3-3.5) JA92694-6 11/21/2011			SW-14 (0-0.5) JA92694-1 11/21/2011			SW-14 (1.5-2) JA92694-2 11/21/2011			SW-15 (0-0.5) JA92694-3 11/21/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																												
GC/MS Semi-volatiles (ug/kg)																												
2-Chlorophenol	NS	NS	NA			NA			NA			NA			<36		1	<35		1	<32		1	<35		1	<32		1
4-Chloro-3-methyl phenol	NS	NS	NA			NA			NA			NA			<36		1	<35		1	<32		1	<34		1	<32		1
2,4-Dichlorophenol	NS	NS	NA			NA			NA			NA			<58		1	<56		1	<52		1	<55		1	<51		1
2,4-Dimethylphenol	NS	NS	NA			NA			NA			NA			159	J	1	<59		1	<54		1	<58		1	<53		1
2,4-Dinitrophenol	NS	NS	NA			NA			NA			NA			<44		1	<43		1	<39		1	<42		1	<39		1
4,6-Dinitro-o-cresol	NS	NS	NA			NA			NA			NA			<44		1	<43		1	<39		1	<42		1	<39		1
2-Methylphenol	330	500000	NA			NA			NA			NA			79.9		1	<40		1	<37		1	<39		1	<36		1
3&4-Methylphenol	NS	NS	NA			NA			NA			NA			217		1	<45		1	<41		1	<44		1	<40		1
2-Nitrophenol	NS	NS	NA			NA			NA			NA			<38		1	<37		1	<34		1	<36		1	<34		1
4-Nitrophenol	NS	NS	NA			NA			NA			NA			<61		1	<59		1	<54		1	<58		1	<53		1
Pentachlorophenol	800	6700	NA			NA			NA			NA			<62		1	<60		1	<55		1	<59		1	<54		1
Phenol	330	500000	NA			NA			NA			NA			<38		1	<37		1	<34		1	<36		1	<33		1
2,3,4,6-Tetrachlorophenol	NS	NS	NA			NA			NA			NA			<37		1	<36		1	<33		1	<35		1	<33		1
2,4,5-Trichlorophenol	NS	NS	NA			NA			NA			NA			<42		1	<41		1	<37		1	<40		1	<37		1
2,4,6-Trichlorophenol	NS	NS	NA			NA			NA			NA			<34		1	<33		1	<30		1	<32		1	<30		1
Acenaphthene	20000	500000	NA			NA			NA			NA			9780		50	628		1	15.3	J	1	29.1	J	1	114		1
Acenaphthylene	100000	500000	NA			NA			NA			NA			494		1	200		1	79.8		1	81.1		1	88.8		1
Acetophenone	NS	NS	NA			NA			NA			NA			62.2	J	1	<6.2		1	<5.7		1	<6.0		1	<5.6		1
Anthracene	100000	500000	NA			NA			NA			NA			13400		50	1160		1	65.6		1	123		1	480		1
Atrazine	NS	NS	NA			NA			NA			NA			<7.1		1	<6.9		1	<6.3		1	<6.8		1	<6.2		1
Benzo(a)anthracene	1000	5600	NA			NA			NA			NA			**21400**		50	**3290**		1	226		1	312		1	**1110**		1
Benzo(a)pyrene	1000	1000	NA			NA			NA			NA			**18900**		50	**3520**		5	319		1	365		1	**1010**		1
Benzo(b)fluoranthene	1000	5600	NA			NA			NA			NA			**18800**		50	**2850**		1	302		1	388		1	**1160**		1
Benzo(g,h,i)perylene	100000	500000	NA			NA			NA			NA			10500		50	2750		1	318		1	326		1	630		1
Benzo(k)fluoranthene	800	56000	NA			NA			NA			NA			**13200**		50	**3110**		1	185		1	161		1	493		1
4-Bromophenyl phenyl ether	NS	NS	NA			NA			NA			NA			<13		1	<13		1	<12		1	<12		1	<11		1
Butyl benzyl phthalate	NS	NS	NA			NA			NA			NA			1710		1	251		1	<19		1	<20		1	<18		1
1,1'-Biphenyl	NS	NS	NA			NA			NA			NA			1060		1	28.2	J	1	<3.7		1	<4.0		1	<3.7		1
Benzaldehyde	NS	NS	NA			NA			NA			NA			<8.3		1	<8.1		1	<7.4		1	<7.9		1	<7.3		1
2-Chloronaphthalene	NS	NS	NA			NA			NA			NA			<11		1	<11		1	<10		1	<11		1	<9.8		1
4-Chloroaniline	NS	NS	NA			NA			NA			NA			<12		1	<11		1	<10		1	<11		1	<10		1
Carbazole	NS	NS	NA			NA			NA			NA			6440		50	469		1	25.8	J	1	39.2	J	1	92.4		1
Caprolactam	NS	NS	NA			NA			NA			NA			<11		1	<11		1	<10		1	<11		1	<10		1
Chrysene	1000	56000	NA			NA			NA			NA			**20600**		50	**3420**		1	244		1	314		1	**1040**		1
bis(2-Chloroethoxy)methane	NS	NS	NA			NA			NA			NA			<15		1	<14		1	<13		1	<14		1	<13		1
bis(2-Chloroethyl)ether	NS	NS	NA			NA			NA			NA			<11		1	<11		1	<9.7		1	<10		1	<9.5		1
bis(2-Chloroisopropyl)ether	NS	NS	NA			NA			NA			NA			<11		1	<10		1	<9.5		1	<10		1	<9.4		1
4-Chlorophenyl phenyl ether	NS	NS	NA			NA			NA			NA			<11		1	<11		1	<9.7		1	<10		1	<9.5		1
2,4-Dinitrotoluene	NS	NS	NA			NA			NA			NA			<16		1	<15		1	<14		1	<15		1	<14		1
2,6-Dinitrotoluene	NS	NS	NA			NA			NA			NA			<14		1	<13		1	<12		1	<13		1	<12		1
3,3'-Dichlorobenzidine	NS	NS	NA			NA			NA			NA			<9.1		1	<8.9		1	<8.2		1	<8.7		1	<8.0		1
Dibenzo(a,h)anthracene	330	560	NA			NA			NA			NA			**4890**		50	**1080**		1	112		1	116		1	152		1
Dibenzofuran	7000	350000	NA			NA			NA			NA			5450		50	237		1	<9.5		1	<10		1	57.3	J	1
Di-n-butyl phthalate	NS	NS	NA			NA			NA			NA			<8.0		1	<7.8		1	<7.1		1	<7.6		1	<7.0		1
Di-n-octyl phthalate	NS	NS	NA			NA			NA			NA			<18		1	<17		1	<16		1	<17		1	<15		1
Diethyl phthalate	NS	NS	NA			NA			NA			NA			<12		1	<12		1	<11		1	<12		1	<11		1
Dimethyl phthalate	NS	NS	NA			NA			NA			NA			104		1	<12		1	<11		1	117		1	<11		1
bis(2-Ethylhexyl)phthalate	NS	NS	NA			NA			NA			NA			130		1	84.3		1	57.3	J	1	94.3		1	330		1
Fluoranthene	100000	500000	NA			NA			NA			NA			48700		50	6560		5	432		1	575		1	2270		1
Fluorene	30000	500000	NA			NA			NA			NA			7880		50	475		1	13.7	J	1	41.6		1	146		1
Hexachlorobenzene	330	330	NA			NA			NA			NA			<12		1	<11		1	<10		1	<11		1	<10		1
Hexachlorobutadiene	NS	NS	NA			NA			NA			NA			<10		1	<9.7		1	<8.9		1	<9.5		1	<8.8		1
Hexachlorocyclopentadiene	NS	NS	NA			NA			NA			NA			<37		1	<36		1	<33		1	<35		1	<32		1
Hexachloroethane	NS	NS	NA			NA			NA			NA			<10		1	<9.7		1	<8.9		1	<9.5		1	<8.8		1
Indeno(1,2,3-cd)pyrene	500	5600	NA			NA			NA			NA			**12300**		50	**2800**		1	277		1	319		1	**698**		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25(5-5.5) JA93030-1 11/28/2011			B-30(5-5.5) JA93030-2 11/28/2011			B-11 (3.5-4) JA90022-9RL 10/24/2011			TRIP BLANK JA92694-7 11/21/2011			SW-12 (3-3.5) JA92694-5 11/21/2011			SW-13 (3-3.5) JA92694-6 11/21/2011			SW-14 (0-0.5) JA92694-1 11/21/2011			SW-14 (1.5-2) JA92694-2 11/21/2011			SW-15 (0-0.5) JA92694-3 11/21/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																												
Isophorone	NS	NS	NA			NA			NA			NA			<9.7		1	<9.4		1	<8.6		1	<9.2		1	<8.5		1
2-Methylnaphthalene	NS	NS	NA			NA			NA			NA			3580		1	86.8		1	<18		1	<19		1	<18		1
2-Nitroaniline	NS	NS	NA			NA			NA			NA			<16		1	<15		1	<14		1	<15		1	<14		1
3-Nitroaniline	NS	NS	NA			NA			NA			NA			<14		1	<14		1	<13		1	<14		1	<13		1
4-Nitroaniline	NS	NS	NA			NA			NA			NA			<14		1	<14		1	<13		1	<13		1	<12		1
Naphthalene	12000	500000	NA			NA			NA			NA			4260		50	118		1	<8.8		1	<9.4		1	<8.6		1
Nitrobenzene	NS	NS	NA			NA			NA			NA			<10		1	<10		1	<9.3		1	<9.9		1	<9.1		1
N-Nitroso-di-n-propylamine	NS	NS	NA			NA			NA			NA			<8.8		1	<8.6		1	<7.8		1	<8.4		1	<7.7		1
N-Nitrosodiphenylamine	NS	NS	NA			NA			NA			NA			<21		1	<21		1	<19		1	<21		1	<19		1
Phenanthrene	100000	500000	NA			NA			NA			NA			45300		50	3720		5	200		1	335		1	1620		1
Pyrene	100000	500000	NA			NA			NA			NA			39000		50	5700		5	401		1	552		1	1890		1
1,2,4,5-Tetrachlorobenzene	NS	NS	NA			NA			NA			NA			<11		1	<11		1	<9.9		1	<11		1	<9.7		1
Total TIC, Semi-Volatile	NS	NS	NA			NA			NA			NA			308396.1			42537.3			3273.5			4288.3			13381.5		
Aldrin	5	680	NA			NA			NA			NA			<0.37		1	<0.36		1	2.1		1	<0.35		1	<0.33		1
2,4-D	NS	NS	NA			NA			NA			NA			<5.2		1	<5.1		1	<4.7		1	<5.0		1	<4.6		1
alpha-BHC	20	3400	NA			NA			NA			NA			<0.55		1	<0.54		1	<0.50		1	<0.53		1	<0.49		1
2,4,5-TP (Silvex)	3800	500000	NA			NA			NA			NA			<0.63		1	<0.61		1	<0.56		1	<0.60		1	<0.55		1
beta-BHC	36	3000	NA			NA			NA			NA			<0.52		1	<0.51		1	<0.46		1	<0.50		1	<0.46		1
2,4,5-T	NS	NS	NA			NA			NA			NA			<1.6		1	<1.5		1	<1.4		1	<1.5		1	<1.4		1
Dalapon	NS	NS	NA			NA			NA			NA			<1.2		1	<1.2		1	<1.1		1	<1.2		1	<1.1		1
delta-BHC	40	500000	NA			NA			NA			NA			<0.43		1	<0.42		1	<0.39		1	<0.41		1	<0.38		1
Dicamba	NS	NS	NA			NA			NA			NA			<0.73		1	<0.72		1	<0.65		1	<0.70		1	<0.65		1
Dichloroprop	NS	NS	NA			NA			NA			NA			<4.2		1	<4.1		1	<3.8		1	<4.1		1	<3.7		1
gamma-BHC (Lindane)	100	9200	NA			NA			NA			NA			<0.34		1	<0.33		1	<0.30		1	<0.32		1	<0.30		1
Dinoseb	NS	NS	NA			NA			NA			NA			<3.4		1	<3.3		1	<3.0		1	<3.2		1	<3.0		1
MCPA	NS	NS	NA			NA			NA			NA			<570		1	<550		1	<510		1	<540		1	<500		1
MCPP	NS	NS	NA			NA			NA			NA			<290		1	<290		1	<260		1	<280		1	<260		1
Pentachlorophenol	800	6700	NA			NA			NA			NA			<1.2		1	<1.2		1	<1.1		1	<1.2		1	<1.1		1
2,4-DB	NS	NS	NA			NA			NA			NA			<12		1	<12		1	<11		1	<12		1	<11		1
alpha-Chlordane	94	24000	NA			NA			NA			NA			<0.48		1	<0.47		1	3.8		1	2.5		1	4.4		1
gamma-Chlordane	NS	NS	NA			NA			NA			NA			<0.38		1	<0.37		1	4.5		1	3.5		1	5.9		1
Dieldrin	5	1400	NA			NA			NA			NA			<0.57		1	<0.56		1	4.0		1	2.5		1	<0.50		1
4,4'-DDD	3.3	92000	NA			NA			NA			NA			<0.38		1	<0.37		1	<0.34		1	<0.36		1	<0.33		1
4,4'-DDE	3.3	62000	NA			NA			NA			NA			<0.44		1	<0.43		1	<0.39		1	<0.42		1	<0.38		1
4,4'-DDT	3.3	47000	NA			NA			NA			NA			<0.54		1	<0.53		1	2.7		1	2.8		1	**7.8**		1
Endrin	14	89000	NA			NA			NA			NA			<0.38		1	<0.37		1	<0.34		1	<0.36		1	<0.33		1
Endosulfan sulfate	2400	200000	NA			NA			NA			NA			<0.67		1	<0.65		1	<0.60		1	<0.64		1	<0.59		1
Endrin aldehyde	NS	NS	NA			NA			NA			NA			<0.70		1	<0.68		1	<0.63		1	<0.67		1	<0.62		1
Endosulfan-I	2400	200000	NA			NA			NA			NA			<0.36		1	<0.35		1	<0.32		1	<0.34		1	<0.32		1
Endosulfan-II	2400	200000	NA			NA			NA			NA			<0.49		1	<0.48		1	<0.44		1	<0.47		1	<0.43		1
Heptachlor	42	15000	NA			NA			NA			NA			<0.45		1	<0.44		1	<0.41		1	<0.43		1	<0.40		1
Heptachlor epoxide	NS	NS	NA			NA			NA			NA			<0.37		1	<0.36		1	<0.33		1	<0.35		1	<0.32		1
Methoxychlor	NS	NS	NA			NA			NA			NA			<0.52		1	<0.51		1	<0.47		1	<0.50		1	<0.46		1
Endrin ketone	NS	NS	NA			NA			NA			NA			<0.48		1	<0.47		1	<0.43		1	<0.46		1	<0.42		1
Toxaphene	NS	NS	NA			NA			NA			NA			<9.3		1	<9.1		1	<8.3		1	<8.9		1	<8.2		1
Aroclor 1016	100	1000	NA			NA			NA			NA			<9.6		1	<9.4		1	<8.6		1	<9.2		1	<8.5		1
Aroclor 1221	100	1000	NA			NA			NA			NA			<22		1	<22		1	<20		1	<21		1	<20		1
Aroclor 1232	100	1000	NA			NA			NA			NA			<19		1	<18		1	<17		1	<18		1	<16		1
Aroclor 1242	100	1000	NA			NA			NA			NA			<12		1	<11		1	<11		1	<11		1	<10		1
Aroclor 1248	100	1000	NA			NA			NA			NA			<11		1	<11		1	<10		1	<11		1	<9.9		1
Aroclor 1254	100	1000	NA			NA			NA			NA			<17		1	<17		1	<15		1	<17		1	<15		1
Aroclor 1260	100	1000	NA			NA			NA			NA			<12		1	<12		1	<11		1	<12		1	<11		1
Aroclor 1268	100	1000	NA			NA			NA			NA			<11		1	<11		1	<9.7		1	<10		1	<9.6		1
Aroclor 1262	100	1000	NA			NA			NA			NA			<12		1	<11		1	<11		1	<11		1	<10		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-25(5-5.5) JA93030-1 11/28/2011			B-30(5-5.5) JA93030-2 11/28/2011			B-11 (3.5-4) JA90022-9RL 10/24/2011			TRIP BLANK JA92694-7 11/21/2011			SW-12 (3-3.5) JA92694-5 11/21/2011			SW-13 (3-3.5) JA92694-6 11/21/2011			SW-14 (0-0.5) JA92694-1 11/21/2011			SW-14 (1.5-2) JA92694-2 11/21/2011			SW-15 (0-0.5) JA92694-3 11/21/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																												
Metals Analysis (mg/kg)																												
Aluminum	NS	NS	NA			NA			NA			NA			8930		1	8530		1	8300		1	8290		1	8420		1
Antimony	NS	NS	NA			NA			NA			NA			<2.6		1	<2.5		1	<2.3		1	<2.3		1	<2.2		1
Arsenic	13	16	NA			NA			0.50*	U	1	NA			6.1		1	5		1	2.8		1	3.2		1	3.1		1
Barium	350	400	NA			NA			NA			NA			70.2		1	100		1	64.2		1	97.8		1	150		1
Beryllium	7.2	590	NA			NA			NA			NA			0.5		1	0.61		1	0.42		1	0.49		1	0.54		1
Cadmium	2.5	9.3	NA			NA			NA			NA			<0.64		1	<0.61		1	<0.57		1	<0.58		1	<0.54		1
Calcium	NS	NS	NA			NA			NA			NA			8300		1	22200		1	36800		1	43700		1	13500		1
Chromium	NS	NS	NA			NA			NA			NA			17.5		1	16.4		1	14.7		1	18.1		1	20.3		1
Cobalt	NS	NS	NA			NA			NA			NA			<6.4		1	6.8		1	7		1	7		1	5.8		1
Copper	50	270	NA			NA			NA			NA			30.1		1	**50.8**		1	42.3		1	33		1	31.3		1
Iron	NS	NS	NA			NA			NA			NA			15200		1	14400		1	13400		1	13500		1	13200		1
Lead	63	1000	NA			NA			NA			NA			**103**		1	**111**		1	29		1	44.1		1	**105**		1
Magnesium	NS	NS	NA			NA			NA			NA			3400		1	7160		1	8360		1	8720		1	4730		1
Manganese	1600	10000	NA			NA			NA			NA			212		1	271		1	212		1	208		1	224		1
Mercury	0.18	2.8	**1.5**		**2**	**1.4**		**2**	NA			NA			**0.95**		**2**	**1.6**		**2**	0.057		**1**	**0.74**		**1**	**0.24**		**1**
Nickel	30	310	NA			NA			NA			NA			16.3		1	19.5		1	17.1		1	18.6		1	23.4		1
Potassium	NS	NS	NA			NA			NA			NA			1350		1	1590		1	1410		1	1970		1	2330		1
Selenium	3.9	1500	NA			NA			NA			NA			<2.6		1	<2.5		1	<2.3		1	<2.3		1	<2.2		1
Silver	2	1500	NA			NA			NA			NA			<0.64		1	<0.61		1	<0.57		1	<0.58		1	<0.54		1
Sodium	NS	NS	NA			NA			NA			NA			<1300		1	<1200		1	<1100		1	<1200		1	<1100		1
Thallium	NS	NS	NA			NA			NA			NA			<1.3		1	<1.2		1	<1.1		1	<1.2		1	<1.1		1
Vanadium	NS	NS	NA			NA			NA			NA			27.5		1	33.7		1	41.3		1	31.9		1	40.7		1
Zinc	109	10000	NA			NA			NA			NA			107		1	**234**		1	73.4		1	98		1	**196**		1
General Chemistry																												
Solids, Percent (%)	NS	NS	88.7		1	84.3		1	NA			NA			79.4		1	81.5		1	89.0		1	83.2		1	90.3		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-15 (1.5-2) JA92694-4 11/21/2011			FB102411 JA90022-14 10/24/2011			TRIP BLANK JA90022-15 10/24/2011		
			Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)											
Acetone	50	500000	<8.4		1	<7.6		1	<7.6		1
Benzene	60	44000	<0.17		1	<0.22		1	<0.22		1
Bromochloromethane	NS	NS	<0.66		1	<0.40		1	<0.40		1
Bromodichloromethane	NS	NS	<0.28		1	<0.23		1	<0.23		1
Bromoform	NS	NS	<0.96		1	<0.24		1	<0.24		1
Bromomethane	NS	NS	<0.50		1	<0.31		1	<0.31		1
2-Butanone (MEK)	120	500000	<5.5		1	<2.9		1	<2.9		1
Carbon disulfide	NS	NS	<0.25		1	<0.18		1	<0.18		1
Carbon tetrachloride	760	22000	<0.44		1	<0.19		1	<0.19		1
Chlorobenzene	1100	500000	<0.41		1	<0.22		1	<0.22		1
Chloroethane	NS	NS	<0.52		1	<0.37		1	<0.37		1
Chloroform	370	350000	<0.61		1	<0.21		1	<0.21		1
Chloromethane	NS	NS	<0.79		1	<0.22		1	<0.22		1
Cyclohexane	NS	NS	<0.48		1	<0.29		1	<0.29		1
1,2-Dibromo-3-chloropropane	NS	NS	<1.9		1	<1.3		1	<1.3		1
Dibromochloromethane	NS	NS	<0.21		1	<0.20		1	<0.20		1
1,2-Dibromoethane	NS	NS	<0.30		1	<0.21		1	<0.21		1
1,2-Dichlorobenzene	1100	500000	<0.35		1	<0.18		1	<0.18		1
1,3-Dichlorobenzene	2400	280000	<0.24		1	<0.29		1	<0.29		1
1,4-Dichlorobenzene	1800	130000	<0.22		1	<0.26		1	<0.26		1
Dichlorodifluoromethane	NS	NS	<0.41		1	<0.31		1	<0.31		1
1,1-Dichloroethane	270	240000	<0.28		1	<0.19		1	<0.19		1
1,2-Dichloroethane	20	30000	<0.23		1	<0.18		1	<0.18		1
1,1-Dichloroethene	330	500000	<0.78		1	<0.28		1	<0.28		1
cis-1,2-Dichloroethene	250	500000	<0.41		1	<0.22		1	<0.22		1
trans-1,2-Dichloroethene	190	500000	<0.54		1	<0.31		1	<0.31		1
1,2-Dichloropropane	NS	NS	<0.34		1	<0.22		1	<0.22		1
cis-1,3-Dichloropropene	NS	NS	<0.19		1	<0.22		1	<0.22		1
trans-1,3-Dichloropropene	NS	NS	<0.43		1	<0.19		1	<0.19		1
1,4-Dioxane	100	130000	<74		1	<72		1	<72		1
Ethylbenzene	1000	390000	<0.19		1	<0.21		1	<0.21		1
Freon 113	NS	NS	<0.91		1	<0.49		1	<0.49		1
2-Hexanone	NS	NS	<3.1		1	<3.0		1	<3.0		1
Isopropylbenzene	NS	NS	<0.17		1	<0.19		1	<0.19		1
Methyl Acetate	NS	NS	<2.8		1	<2.9		1	<2.9		1
Methylcyclohexane	NS	NS	<0.31		1	<0.18		1	<0.18		1
Methyl Tert Butyl Ether	930	500000	<0.23		1	<0.18		1	<0.18		1
4-Methyl-2-pentanone(MIBK)	NS	NS	<3.3		1	<1.2		1	<1.2		1
Methylene chloride	50	500000	3.4	J	1	<0.20		1	<0.20		1
Styrene	NS	NS	<0.23		1	<0.23		1	<0.23		1
1,1,2,2-Tetrachloroethane	NS	NS	<0.23		1	<0.20		1	<0.20		1
Tetrachloroethene	1300	150000	<0.24		1	<0.32		1	<0.32		1
Toluene	700	500000	<0.48		1	<0.15		1	<0.15		1
1,2,3-Trichlorobenzene	NS	NS	<0.56		1	<0.69		1	<0.69		1
1,2,4-Trichlorobenzene	NS	NS	<0.43		1	<0.15		1	<0.15		1
1,1,1-Trichloroethane	680	500000	<0.31		1	<0.24		1	<0.24		1
1,1,2-Trichloroethane	NS	NS	<0.55		1	<0.23		1	<0.23		1
Trichloroethene	470	200000	<0.31		1	<0.21		1	<0.21		1
Trichlorofluoromethane	NS	NS	<0.61		1	<0.35		1	<0.35		1
Vinyl chloride	20	13000	<0.58		1	<0.27		1	<0.27		1
m,p-Xylene	260	500000	<0.40		1	<0.32		1	<0.32		1
o-Xylene	260	500000	<0.23		1	<0.17		1	<0.17		1
Xylene (total)	260	500000	<0.23		1	<0.17		1	<0.17		1
Total TIC, Volatile	NS	NS	3.4			0			0		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-15 (1.5-2) JA92694-4 11/21/2011			FB102411 JA90022-14 10/24/2011			TRIP BLANK JA90022-15 10/24/2011		
			Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)											
GC/MS Semi-volatiles (ug/kg)											
2-Chlorophenol	NS	NS	<36		1	<0.97		1	NA		
4-Chloro-3-methyl phenol	NS	NS	<35		1	<1.8		1	NA		
2,4-Dichlorophenol	NS	NS	<57		1	<1.2		1	NA		
2,4-Dimethylphenol	NS	NS	<60		1	<1.5		1	NA		
2,4-Dinitrophenol	NS	NS	<43		1	<17		1	NA		
4,6-Dinitro-o-cresol	NS	NS	<43		1	<0.99		1	NA		
2-Methylphenol	330	500000	<40		1	<1.0		1	NA		
3&4-Methylphenol	NS	NS	<45		1	<0.93		1	NA		
2-Nitrophenol	NS	NS	<38		1	<1.5		1	NA		
4-Nitrophenol	NS	NS	<60		1	<5.2		1	NA		
Pentachlorophenol	800	6700	<61		1	<1.4		1	NA		
Phenol	330	500000	<37		1	<1.3		1	NA		
2,3,4,6-Tetrachlorophenol	NS	NS	<37		1	<0.94		1	NA		
2,4,5-Trichlorophenol	NS	NS	<41		1	<1.6		1	NA		
2,4,6-Trichlorophenol	NS	NS	<33		1	<1.3		1	NA		
Acenaphthene	20000	500000	58.0		1	<0.26		1	NA		
Acenaphthylene	100000	500000	94.5		1	<0.23		1	NA		
Acetophenone	NS	NS	<6.2		1	<0.29		1	NA		
Anthracene	100000	500000	262		1	<0.29		1	NA		
Atrazine	NS	NS	<7.0		1	<0.49		1	NA		
Benzo(a)anthracene	1000	5600	737		1	<3.3		1	NA		
Benzo(a)pyrene	1000	1000	718		1	<0.23		1	NA		
Benzo(b)fluoranthene	1000	5600	746		1	<0.23		1	NA		
Benzo(g,h,i)perylene	100000	500000	476		1	<0.46		1	NA		
Benzo(k)fluoranthene	800	56000	431		1	<0.32		1	NA		
4-Bromophenyl phenyl ether	NS	NS	<13		1	<0.51		1	NA		
Butyl benzyl phthalate	NS	NS	207		1	<0.36		1	NA		
1,1'-Biphenyl	NS	NS	<4.1		1	<0.29		1	NA		
Benzaldehyde	NS	NS	<8.2		1	<0.30		1	NA		
2-Chloronaphthalene	NS	NS	<11		1	<0.30		1	NA		
4-Chloroaniline	NS	NS	<11		1	<0.53		1	NA		
Carbazole	NS	NS	64.4	J	1	<0.36		1	NA		
Caprolactam	NS	NS	<11		1	<0.69		1	NA		
Chrysene	1000	56000	733		1	<0.29		1	NA		
bis(2-Chloroethoxy)methane	NS	NS	<14		1	<0.31		1	NA		
bis(2-Chloroethyl)ether	NS	NS	<11		1	<0.31		1	NA		
bis(2-Chloroisopropyl)ether	NS	NS	<11		1	<0.45		1	NA		
4-Chlorophenyl phenyl ether	NS	NS	<11		1	<0.31		1	NA		
2,4-Dinitrotoluene	NS	NS	<16		1	<0.43		1	NA		
2,6-Dinitrotoluene	NS	NS	<14		1	<0.46		1	NA		
3,3'-Dichlorobenzidine	NS	NS	<9.0		1	<0.36		1	NA		
Dibenzo(a,h)anthracene	330	560	176		1	<0.38		1	NA		
Dibenzofuran	7000	350000	38.2	J	1	<0.27		1	NA		
Di-n-butyl phthalate	NS	NS	82.2		1	<0.56		1	NA		
Di-n-octyl phthalate	NS	NS	<17		1	<0.31		1	NA		
Diethyl phthalate	NS	NS	<12		1	<0.33		1	NA		
Dimethyl phthalate	NS	NS	<12		1	<0.28		1	NA		
bis(2-Ethylhexyl)phthalate	NS	NS	235		1	<0.59		1	NA		
Fluoranthene	100000	500000	1460		1	<0.32		1	NA		
Fluorene	30000	500000	107		1	<0.28		1	NA		
Hexachlorobenzene	330	330	<12		1	<0.34		1	NA		
Hexachlorobutadiene	NS	NS	<9.9		1	<0.51		1	NA		
Hexachlorocyclopentadiene	NS	NS	<36		1	<7.1		1	NA		
Hexachloroethane	NS	NS	<9.9		1	<0.55		1	NA		
Indeno(1,2,3-cd)pyrene	500	5600	**518**		1	<0.37		1	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-15 (1.5-2) JA92694-4 11/21/2011			FB102411 JA90022-14 10/24/2011			TRIP BLANK JA90022-15 10/24/2011		
			Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)											
Isophorone	NS	NS	<9.5		1	<0.27		1	NA		
2-Methylnaphthalene	NS	NS	<20		1	<0.38		1	NA		
2-Nitroaniline	NS	NS	<16		1	<1.1		1	NA		
3-Nitroaniline	NS	NS	<14		1	<1.3		1	NA		
4-Nitroaniline	NS	NS	<14		1	<1.7		1	NA		
Naphthalene	12000	500000	<9.7		1	<0.26		1	NA		
Nitrobenzene	NS	NS	<10		1	<0.42		1	NA		
N-Nitroso-di-n-propylamine	NS	NS	<8.7		1	<0.30		1	NA		
N-Nitrosodiphenylamine	NS	NS	<21		1	<0.31		1	NA		
Phenanthrene	100000	500000	937		1	<0.29		1	NA		
Pyrene	100000	500000	1260		1	<0.27		1	NA		
1,2,4,5-Tetrachlorobenzene	NS	NS	<11		1	<0.31		1	NA		
Total TIC, Semi-Volatile	NS	NS	9340.3			0			0		
Aldrin	5	680	<0.36		1	<0.0095		1	NA		
2,4-D	NS	NS	<5.1		1	<0.16		1	NA		
alpha-BHC	20	3400	<0.55		1	<0.0040		1	NA		
2,4,5-TP (Silvex)	3800	500000	<0.62		1	<0.026		1	NA		
beta-BHC	36	3000	<0.51		1	<0.0038		1	NA		
2,4,5-T	NS	NS	<1.6		1	<0.020		1	NA		
Dalapon	NS	NS	<1.2		1	<0.035		1	NA		
delta-BHC	40	500000	<0.43		1	<0.0062		1	NA		
Dicamba	NS	NS	<0.72		1	<0.042		1	NA		
Dichloroprop	NS	NS	<4.2		1	<0.13		1	NA		
gamma-BHC (Lindane)	100	9200	<0.33		1	<0.0041		1	NA		
Dinoseb	NS	NS	<3.3		1	<0.071		1	NA		
MCPA	NS	NS	<560		1	<16		1	NA		
MCPP	NS	NS	<290		1	<6.8		1	NA		
Pentachlorophenol	800	6700	<1.2		1	<0.024		1	NA		
2,4-DB	NS	NS	<12		1	<0.15		1	NA		
alpha-Chlordane	94	24000	1.7		1	<0.0050		1	NA		
gamma-Chlordane	NS	NS	6.3		1	<0.0023		1	NA		
Dieldrin	5	1400	<0.57		1	<0.0033		1	NA		
4,4'-DDD	3.3	92000	<0.37		1	<0.0036		1	NA		
4,4'-DDE	3.3	62000	<0.43		1	<0.0030		1	NA		
4,4'-DDT	3.3	47000	<0.54		1	<0.0060		1	NA		
Endrin	14	89000	<0.37		1	<0.0064		1	NA		
Endosulfan sulfate	2400	200000	<0.66		1	<0.0064		1	NA		
Endrin aldehyde	NS	NS	<0.69		1	<0.0029		1	NA		
Endosulfan-I	2400	200000	<0.35		1	<0.0041		1	NA		
Endosulfan-II	2400	200000	<0.48		1	<0.0030		1	NA		
Heptachlor	42	15000	<0.45		1	<0.0028		1	NA		
Heptachlor epoxide	NS	NS	<0.36		1	<0.0084		1	NA		
Methoxychlor	NS	NS	<0.52		1	<0.0038		1	NA		
Endrin ketone	NS	NS	<0.47		1	<0.0082		1	NA		
Toxaphene	NS	NS	<9.2		1	<0.15		1	NA		
Aroclor 1016	100	1000	<9.5		1	<0.13		1	NA		
Aroclor 1221	100	1000	<22		1	<0.27		1	NA		
Aroclor 1232	100	1000	<18		1	<0.39		1	NA		
Aroclor 1242	100	1000	<12		1	<0.086		1	NA		
Aroclor 1248	100	1000	<11		1	<0.15		1	NA		
Aroclor 1254	100	1000	<17		1	<0.14		1	NA		
Aroclor 1260	100	1000	<12		1	<0.21		1	NA		
Aroclor 1268	100	1000	<11		1	<0.13		1	NA		
Aroclor 1262	100	1000	<12		1	<0.060		1	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	SW-15 (1.5-2) JA92694-4 11/21/2011			FB102411 JA90022-14 10/24/2011			TRIP BLANK JA90022-15 10/24/2011		
			Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)											
Metals Analysis (mg/kg)											
Aluminum	NS	NS	4440		1	<200		1	NA		
Antimony	NS	NS	<2.5		1	<6.0		1	NA		
Arsenic	13	16	<2.5		1	<3.0		1	NA		
Barium	350	400	76.4		1	<200		1	NA		
Beryllium	7.2	590	0.28		1	<1.0		1	NA		
Cadmium	2.5	9.3	<0.63		1	<3.0		1	NA		
Calcium	NS	NS	14400		1	<5000		1	NA		
Chromium	NS	NS	12.9		1	<10		1	NA		
Cobalt	NS	NS	<6.3		1	<50		1	NA		
Copper	50	270	21.4		1	<10		1	NA		
Iron	NS	NS	7580		1	<100		1	NA		
Lead	63	1000	55.6		1	<3.0		1	NA		
Magnesium	NS	NS	2880		1	<5000		1	NA		
Manganese	1600	10000	139		1	<15		1	NA		
Mercury	0.18	2.8	0.14		**1**	<0.20		**1**	NA		
Nickel	30	310	12.1		1	<10		1	NA		
Potassium	NS	NS	<1300		1	<10000		1	NA		
Selenium	3.9	1500	<2.5		1	<10		1	NA		
Silver	2	1500	<0.63		1	<10		1	NA		
Sodium	NS	NS	<1300		1	<10000		1	NA		
Thallium	NS	NS	<1.3		1	<2.0		1	NA		
Vanadium	NS	NS	17.3		1	<50		1	NA		
Zinc	109	10000	**267**		1	<20		1	NA		
General Chemistry											
Solids, Percent (%)	NS	NS	80.5		1	NA			NA		

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-10 (3.5-4) JA90022-8 10/24/2011			B-11 (3.5-4) JA90022-9 10/24/2011			B-12 (3.5-4) JA90022-10 10/24/2011			B-16 (3.5-4) JA90022-11 10/24/2011			B-16I (3.5-4) JA90022-12 10/24/2011			B-17 (3.5-4) JA90022-13 10/24/2011			B-3 (3.5-4) JA90022-3 10/24/2011			B-4 (3.5-4) JA90022-4 10/24/2011			B-5 (3.5-4) JA90022-7 10/24/2011			B-6 (5-5.5) JA90022-2 10/24/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Acetone	50	500000	<7.6	1		<9.6	1		<8.5	1		<8.5	1		<8.8	1		<9.5	1		<8.4	1		<8.6	1		<9.1	1		NA		
Benzene	60	44000	<0.15	1		<0.19	1		<0.17	1		<0.17	1		<0.18	1		<0.19	1		0.24	J	1	<0.17	1		<0.18	1		NA		
Bromochloromethane	NS	NS	<0.59	1		<0.75	1		<0.67	1		<0.67	1		<0.69	1		<0.75	1		<0.66	1		<0.67	1		<0.71	1		NA		
Bromodichloromethane	NS	NS	<0.26	1		<0.33	1		<0.29	1		<0.29	1		<0.30	1		<0.32	1		<0.29	1		<0.29	1		<0.31	1		NA		
Bromoform	NS	NS	<0.86	1		<1.1	1		<0.97	1		<0.97	1		<1.0	1		<1.1	1		<0.96	1		<0.98	1		<1.0	1		NA		
Bromomethane	NS	NS	<0.45	1		<0.57	1		<0.51	1		<0.50	1		<0.53	1		<0.57	1		<0.50	1		<0.51	1		<0.54	1		NA		
2-Butanone (MEK)	120	500000	<4.9	1		<6.3	1		<5.6	1		<5.5	1		<5.8	1		<6.2	1		<5.5	1		<5.6	1		<5.9	1		NA		
Carbon disulfide	NS	NS	<0.22	1		<0.28	1		<0.25	1		<0.25	1		<0.26	1		<0.28	1		<0.25	1		<0.25	1		<0.27	1		NA		
Carbon tetrachloride	760	22000	<0.40	1		<0.50	1		<0.45	1		<0.44	1		<0.46	1		<0.50	1		<0.44	1		<0.45	1		<0.47	1		NA		
Chlorobenzene	1100	500000	<0.37	1		<0.47	1		<0.41	1		<0.41	1		<0.43	1		<0.46	1		<0.41	1		<0.42	1		<0.44	1		NA		
Chloroethane	NS	NS	<0.47	1		<0.59	1		<0.53	1		<0.52	1		<0.54	1		<0.59	1		<0.52	1		<0.53	1		<0.56	1		NA		
Chloroform	370	350000	<0.55	1		<0.70	1		<0.62	1		<0.62	1		<0.64	1		<0.69	1		<0.61	1		<0.63	1		<0.66	1		NA		
Chloromethane	NS	NS	<0.71	1		<0.91	1		<0.80	1		<0.80	1		<0.83	1		<0.90	1		<0.79	1		<0.81	1		<0.86	1		NA		
Cyclohexane	NS	NS	<0.43	1		<0.55	1		<0.49	1		<0.49	1		<0.51	1		<0.54	1		<0.48	1		<0.49	1		<0.52	1		NA		
1,2-Dibromo-3-chloropropane	NS	NS	<1.7	1		<2.2	1		<1.9	1		<1.9	1		<2.0	1		<2.2	1		<1.9	1		<2.0	1		<2.1	1		NA		
Dibromochloromethane	NS	NS	<0.19	1		<0.24	1		<0.22	1		<0.22	1		<0.22	1		<0.24	1		<0.21	1		<0.22	1		<0.23	1		NA		
1,2-Dibromoethane	NS	NS	<0.27	1		<0.35	1		<0.31	1		<0.31	1		<0.32	1		<0.34	1		<0.30	1		<0.31	1		<0.33	1		NA		
1,2-Dichlorobenzene	1100	500000	<0.32	1		<0.40	1		<0.36	1		<0.35	1		<0.37	1		<0.40	1		<0.35	1		<0.36	1		<0.38	1		NA		
1,3-Dichlorobenzene	2400	280000	<0.22	1		<0.28	1		<0.25	1		<0.25	1		<0.26	1		<0.28	1		<0.24	1		<0.25	1		<0.26	1		NA		
1,4-Dichlorobenzene	1800	130000	<0.19	1		<0.25	1		<0.22	1		<0.22	1		<0.23	1		<0.24	1		<0.22	1		<0.22	1		<0.23	1		NA		
Dichlorodifluoromethane	NS	NS	<0.37	1		<0.47	1		<0.41	1		<0.41	1		<0.43	1		<0.46	1		<0.41	1		<0.42	1		<0.44	1		NA		
1,1-Dichloroethane	270	240000	<0.25	1		<0.32	1		<0.28	1		<0.28	1		<0.29	1		<0.31	1		<0.28	1		<0.28	1		<0.30	1		NA		
1,2-Dichloroethane	20	30000	<0.21	1		<0.26	1		<0.23	1		<0.23	1		<0.24	1		<0.26	1		<0.23	1		<0.24	1		<0.25	1		NA		
1,1-Dichloroethene	330	500000	<0.70	1		<0.89	1		<0.79	1		<0.79	1		<0.82	1		<0.88	1		<0.78	1		<0.79	1		<0.84	1		NA		
cis-1,2-Dichloroethene	250	500000	<0.37	1		<0.47	1		<0.41	1		<0.41	1		<0.43	1		<0.46	1		<0.41	1		<0.42	1		<0.44	1		NA		
trans-1,2-Dichloroethene	190	500000	<0.48	1		<0.62	1		<0.55	1		<0.54	1		<0.57	1		<0.61	1		<0.54	1		<0.55	1		<0.58	1		NA		
1,2-Dichloropropane	NS	NS	<0.30	1		<0.39	1		<0.34	1		<0.34	1		<0.35	1		<0.38	1		<0.34	1		<0.34	1		<0.37	1		NA		
cis-1,3-Dichloropropene	NS	NS	<0.17	1		<0.22	1		<0.20	1		<0.19	1		<0.20	1		<0.22	1		<0.19	1		<0.20	1		<0.21	1		NA		
trans-1,3-Dichloropropene	NS	NS	<0.38	1		<0.49	1		<0.43	1		<0.43	1		<0.45	1		<0.48	1		<0.43	1		<0.44	1		<0.46	1		NA		
1,4-Dioxane	100	130000	<67	1		<85	1		<75	1		<75	1		<78	1		<84	1		<74	1		<75	1		<80	1		NA		
Ethylbenzene	1000	390000	<0.17	1		<0.22	1		<0.19	1		<0.19	1		<0.20	1		<0.21	1		0.46	J	1	0.27	J	1	<0.20	1		NA		
Freon 113	NS	NS	<0.82	1		<1.0	1		<0.92	1		<0.92	1		<0.96	1		<1.0	1		<0.91	1		<0.93	1		<0.98	1		NA		
2-Hexanone	NS	NS	<2.8	1		<3.6	1		<3.2	1		<3.2	1		<3.3	1		<3.6	1		<3.2	1		<3.2	1		<3.4	1		NA		
Isopropylbenzene	NS	NS	<0.16	1		<0.20	1		<0.18	1		<0.18	1		<0.18	1		<0.20	1		<0.17	1		<0.18	1		<0.19	1		NA		
Methyl Acetate	NS	NS	<2.5	1		<3.2	1		<2.9	1		<2.8	1		<3.0	1		<3.2	1		<2.8	1		<2.9	1		<3.0	1		NA		
Methylcyclohexane	NS	NS	<0.28	1		<0.36	1		<0.32	1		<0.31	1		<0.33	1		<0.35	1		<0.31	1		<0.32	1		<0.34	1		NA		
Methyl Tert Butyl Ether	930	500000	<0.20	1		<0.26	1		<0.23	1		<0.23	1		<0.24	1		<0.26	1		<0.23	1		<0.23	1		<0.25	1		NA		
4-Methyl-2-pentanone(MIBK)	NS	NS	<3.0	1		<3.8	1		<3.4	1		<3.4	1		<3.5	1		<3.8	1		<3.3	1		<3.4	1		<3.6	1		NA		
Methylene chloride	50	500000	<0.26	1		<0.33	1		<0.30	1		<0.29	1		<0.31	1		<0.33	1		<0.29	1		<0.30	1		<0.32	1		NA		
Styrene	NS	NS	<0.21	1		<0.27	1		<0.24	1		<0.24	1		<0.25	1		<0.27	1		<0.24	1		<0.24	1		<0.25	1		NA		
1,1,2,2-Tetrachloroethane	NS	NS	<0.20	1		<0.26	1		<0.23	1		<0.23	1		<0.24	1		<0.26	1		<0.23	1		<0.23	1		<0.25	1		NA		
Tetrachloroethene	1300	150000	<0.22	1		<0.28	1		<0.25	1		<0.24	1		<0.25	1		<0.27	1		<0.24	1		<0.25	1		<0.26	1		NA		
Toluene	700	500000	<0.43	1		<0.55	1		0.49	J	1	<0.48	1		<0.50	1		<0.54	1		0.66	J	1	<0.49	1		<0.52	1		NA		
1,2,3-Trichlorobenzene	NS	NS	<0.50	1		<0.64	1		<0.56	1		<0.56	1		<0.58	1		<0.63	1		<0.56	1		<0.57	1		<0.60	1		NA		
1,2,4-Trichlorobenzene	NS	NS	<0.39	1		<0.50	1		<0.44	1		<0.44	1		<0.45	1		<0.49	1		<0.43	1		<0.44	1		<0.47	1		NA		
1,1,1-Trichloroethane	680	500000	<0.28	1		<0.35	1		<0.31	1		<0.31	1		<0.32	1		<0.35	1		<0.31	1		<0.31	1		<0.33	1		NA		
1,1,2-Trichloroethane	NS	NS	<0.49	1		<0.63	1		<0.56	1		<0.55	1		<0.58	1		<0.62	1		<0.55	1		<0.56	1		<0.59	1		NA		
Trichloroethene	470	200000	<0.28	1		<0.36	1		<0.32	1		<0.32	1		<0.33	1		<0.36	1		<0.31	1		<0.32	1		<0.34	1		NA		
Trichlorofluoromethane	NS	NS	<0.55	1		<0.70	1		<0.62	1		<0.62	1		<0.64	1		<0.69	1		<0.61	1		<0.62	1		<0.66	1		NA		
Vinyl chloride	20	13000	<0.53	1		<0.67	1		<0.59	1		<0.59	1		<0.61	1		<0.66	1		<0.59	1		<0.60	1		<0.63	1		NA		
m,p-Xylene	260	500000	<0.36	1		<0.46	1		0.70	J	1	<0.40	1		<0.42	1		<0.45	1		1.3		1	0.74	J	1	<0.43	1		NA		
o-Xylene	260	500000	<0.21	1		<0.27	1		<0.24	1		<0.24	1		<0.25	1		<0.26	1		0.38	J	1	<0.24	1		<0.25	1		NA		
Xylene (total)	260	500000	<0.21	1		<0.27	1		0.70	J	1	<0.24	1		<0.25	1		<0.26	1		1.7		1	0.97	J	1	<0.25	1		NA		
Total TIC, Volatile	NS	NS	0			0			1.89			0			0			0			4.74			1.98			0			0		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-10 (3.5-4) JA90022-8 10/24/2011			B-11 (3.5-4) JA90022-9 10/24/2011			B-12 (3.5-4) JA90022-10 10/24/2011			B-16 (3.5-4) JA90022-11 10/24/2011			B-16I (3.5-4) JA90022-12 10/24/2011			B-17 (3.5-4) JA90022-13 10/24/2011			B-3 (3.5-4) JA90022-3 10/24/2011			B-4 (3.5-4) JA90022-4 10/24/2011			B-5 (3.5-4) JA90022-7 10/24/2011			B-6 (5-5.5) JA90022-2 10/24/2011	
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
GC/MS Semi-volatiles (ug/kg)																															
2-Chlorophenol	NS	NS	<34		1	<34		1	<34		1	<33		1	<34		1	<36		1	<34		1	<180		1	<70		2	NA		
4-Chloro-3-methyl phenol	NS	NS	<33		1	<34		1	<34		1	<33		1	<34		1	<35		1	<33		1	<180		1	<69		2	NA		
2,4-Dichlorophenol	NS	NS	<54		1	<55		1	<55		1	<53		1	<54		1	<57		1	<54		1	<290		1	<110		2	NA		
2,4-Dimethylphenol	NS	NS	244		1	<57		1	271		1	<55		1	<56		1	<59		1	<56		1	<300		1	<120		2	NA		
2,4-Dinitrophenol	NS	NS	<41		1	<42		1	<41		1	<40		1	<41		1	<43		1	<41		1	<220		1	<84		2	NA		
4,6-Dinitro-o-cresol	NS	NS	<41		1	<42		1	<41		1	<40		1	<41		1	<43		1	<41		1	<220		1	<84		2	NA		
2-Methylphenol	330	500000	109		1	<39		1	134		1	<38		1	<38		1	<40		1	<38		1	<210		1	<79		2	NA		
3&4-Methylphenol	NS	NS	283		1	<43		1	279		1	<42		1	<43		1	<45		1	<42		1	<230		1	<88		2	NA		
2-Nitrophenol	NS	NS	<35		1	<36		1	<36		1	<35		1	<36		1	<37		1	<35		1	<190		1	<73		2	NA		
4-Nitrophenol	NS	NS	<56		1	<58		1	<57		1	<56		1	<57		1	<60		1	<57		1	<310		1	<120		2	NA		
Pentachlorophenol	800	6700	<57		1	<58		1	<58		1	<56		1	<57		1	<60		1	<57		1	<310		1	<120		2	NA		
Phenol	330	500000	97.5		1	<36		1	108		1	<35		1	<35		1	<37		1	<35		1	<190		1	<72		2	NA		
2,3,4,6-Tetrachlorophenol	NS	NS	<34		1	<35		1	<35		1	<34		1	<35		1	<36		1	<34		1	<190		1	<71		2	NA		
2,4,5-Trichlorophenol	NS	NS	<39		1	<40		1	<39		1	<38		1	<39		1	<41		1	<39		1	<210		1	<80		2	NA		
2,4,6-Trichlorophenol	NS	NS	<31		1	<32		1	<32		1	<31		1	<32		1	<33		1	<31		1	<170		1	<65		2	NA		
Acenaphthene	20000	500000	1230		1	102		1	1570		1	272		1	77.5		1	180		1	159		1	<53		1	773		2	NA		
Acenaphthylene	100000	500000	2610		1	206		1	1860		1	147		1	132		1	115		1	748		1	458		1	426		2	NA		
Acetophenone	NS	NS	<5.9		1	<6.0		1	<6.0		1	<5.8		1	<5.9		1	<6.2		1	<5.9		1	<32		1	<12		2	NA		
Anthracene	100000	500000	7270		20	412		1	7380		20	380		1	281		1	490		1	1160		1	420		1	1650		2	NA		
Atrazine	NS	NS	<6.6		1	<6.7		1	<6.7		1	<6.5		1	<6.6		1	<7.0		1	<6.6		1	<36		1	<14		2	NA		
Benzo(a)anthracene	1000	5600	**16800**		20	**1650**		1	**15500**		20	**1170**		1	**1030**		1	**1620**		1	**3730**		4	**1470**		1	**3910**		2	NA		
Benzo(a)pyrene	1000	1000	**15900**		20	**1690**		1	**13200**		20	**1170**		1	**1050**		1	**1490**		1	**5670**		4	**1700**		1	**4280**		2	NA		
Benzo(b)fluoranthene	1000	5600	**15500**		20	**1890**		1	**13900**		20	**1120**		1	**1050**		1	**1750**		1	**3110**		1	**1620**		1	**5580**		2	NA		
Benzo(g,h,i)perylene	100000	500000	10700		20	979		1	7510		20	701		1	698		1	899		1	4620		4	1420		1	3430		2	NA		
Benzo(k)fluoranthene	800	56000	**10900**		20	**997**		1	**7390**		20	**891**		1	**962**		1	**941**		1	**2590**		4	**1080**		1	**2040**		2	NA		
4-Bromophenyl phenyl ether	NS	NS	<12		1	<12		1	<12		1	<12		1	<12		1	<13		1	<12		1	<66		1	<25		2	NA		
Butyl benzyl phthalate	NS	NS	<19		1	<20		1	<20		1	<19		1	<19		1	<20		1	<19		1	<110		1	<40		2	NA		
1,1'-Biphenyl	NS	NS	180		1	<4.0		1	353		1	35.4	J	1	<3.9		1	20.4	J	1	86.4		1	<21		1	<8.0		2	NA		
Benzaldehyde	NS	NS	<7.7		1	<7.8		1	<7.8		1	<7.6		1	<7.7		1	<8.1		1	<7.7		1	<42		1	<16		2	NA		
2-Chloronaphthalene	NS	NS	<10		1	<11		1	<10		1	<10		1	<10		1	<11		1	<10		1	<56		1	<21		2	NA		
4-Chloroaniline	NS	NS	<11		1	<11		1	<11		1	<11		1	<11		1	<11		1	<11		1	<58		1	<22		2	NA		
Carbazole	NS	NS	1670		1	176		1	1790		1	136		1	110		1	214		1	77.9		1	<84		1	360		2	NA		
Caprolactam	NS	NS	<10		1	<11		1	<11		1	<10		1	<11		1	<11		1	<11		1	<57		1	<22		2	NA		
Chrysene	1000	56000	**16800**		20	**1800**		1	**14400**		20	**1300**		1	**1190**		1	**1800**		1	**3300**		1	**1560**		1	**4310**		2	NA		
bis(2-Chloroethoxy)methane	NS	NS	<13		1	<14		1	<14		1	<13		1	<14		1	<14		1	<14		1	<73		1	<28		2	NA		
bis(2-Chloroethyl)ether	NS	NS	<10		1	<10		1	<10		1	<9.9		1	<10		1	<11		1	<10		1	<55		1	<21		2	NA		
bis(2-Chloroisopropyl)ether	NS	NS	<9.9		1	<10		1	<10		1	<9.8		1	<10		1	<10		1	<9.9		1	<54		1	<20		2	NA		
4-Chlorophenyl phenyl ether	NS	NS	<10		1	<10		1	<10		1	<9.9		1	<10		1	<11		1	<10		1	<55		1	<21		2	NA		
2,4-Dinitrotoluene	NS	NS	<15		1	<15		1	<15		1	<14		1	<15		1	<15		1	<15		1	<79		1	<30		2	NA		
2,6-Dinitrotoluene	NS	NS	<13		1	<13		1	<13		1	<13		1	<13		1	<13		1	<13		1	<69		1	<26		2	NA		
3,3'-Dichlorobenzidine	NS	NS	<8.5		1	<8.6		1	<8.6		1	<8.4		1	<8.5		1	<9.0		1	<8.5		1	<46		1	<18		2	NA		
Dibenzo(a,h)anthracene	330	560	**3270**		1	**453**		1	**2190**		1	**336**		1	326		1	**445**		1	**1420**		1	**703**		1	**1240**		2	NA		
Dibenzofuran	7000	350000	1170		1	49.3	J	1	1630		1	165		1	40.5	J	1	122		1	64.5	J	1	<54		1	381		2	NA		
Di-n-butyl phthalate	NS	NS	<7.4		1	91.6		1	<7.5		1	<7.3		1	<7.4		1	<7.8		1	<7.4		1	<40		1	<15		2	NA		
Di-n-octyl phthalate	NS	NS	<16		1	<17		1	<16		1	<16		1	<16		1	<17		1	<16		1	<88		1	<34		2	NA		
Diethyl phthalate	NS	NS	<11		1	<12		1	<12		1	<11		1	<11		1	<12		1	<11		1	<62		1	<24		2	NA		
Dimethyl phthalate	NS	NS	228	B	1	140	B	1	116	B	1	169	B	1	132	B	1	221	B	1	184	B	1	358	JB	1	389	B	2	NA		
bis(2-Ethylhexyl)phthalate	NS	NS	<29		1	<30		1	121		1	<29		1	<30		1	<31		1	<30		1	<160		1	<61		2	NA		
Fluoranthene	100000	500000	34000		20	2140		1	29600		20	1770		1	1520		1	2360		1	3290		1	1920		1	6870		4	NA		
Fluorene	30000	500000	1230		1	111		1	2860		1	216		1	67.5		1	144		1	53.6		1	<60		1	478		2	NA		
Hexachlorobenzene	330	330	<11		1	<11		1	<11		1	<11		1	<11		1	<12		1	<11		1	<59		1	<22		2	NA		
Hexachlorobutadiene	NS	NS	<9.3		1	<9.5		1	<9.4		1	<9.2		1	<9.3		1	<9.8		1	<9.3		1	<50		1	<19		2	NA		
Hexachlorocyclopentadiene	NS	NS	<34		1	<35		1	<35		1	<34		1	<34		1	<36		1	<34		1	<190		1	<70		2	NA		
Hexachloroethane	NS	NS	<9.3		1	<9.5		1	<9.4		1	<9.2		1	<9.3		1	<9.8		1	<9.3		1	<50		1	<19		2	NA		
Indeno(1,2,3-cd)pyrene	500	5600	**9740**		20	961		1	**7560**		20	**673**		1	**663**		1	**894**		1	**2790**		1	**1080**		1	2570		2	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-10 (3.5-4) JA90022-8 10/24/2011			B-11 (3.5-4) JA90022-9 10/24/2011			B-12 (3.5-4) JA90022-10 10/24/2011			B-16 (3.5-4) JA90022-11 10/24/2011			B-16I (3.5-4) JA90022-12 10/24/2011			B-17 (3.5-4) JA90022-13 10/24/2011			B-3 (3.5-4) JA90022-3 10/24/2011			B-4 (3.5-4) JA90022-4 10/24/2011			B-5 (3.5-4) JA90022-7 10/24/2011			B-6 (5-5.5) JA90022-2 10/24/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Isophorone	NS	NS	<9.0		1	<9.2		1	<9.1		1	<8.9		1	<9.0		1	<9.5		1	<9.0		1	<49		1	<19		2	NA		
2-Methylnaphthalene	NS	NS	504		1	22.4	J	1	1280		1	116		1	<19		1	49.8	J	1	77.2		1	<100		1	97.1	J	2	NA		
2-Nitroaniline	NS	NS	<15		1	<15		1	<15		1	<14		1	<15		1	<16		1	<15		1	<80		1	<30		2	NA		
3-Nitroaniline	NS	NS	<13		1	<14		1	<14		1	<13		1	<13		1	<14		1	<13		1	<73		1	<28		2	NA		
4-Nitroaniline	NS	NS	<13		1	<13		1	<13		1	<13		1	<13		1	<14		1	<13		1	<71		1	<27		2	NA		
Naphthalene	12000	500000	1160		1	45.2		1	3080		1	186		1	25.5	J	1	117		1	352		1	<50		1	145		2	NA		
Nitrobenzene	NS	NS	<9.6		1	<9.8		1	<9.8		1	<9.5		1	<9.7		1	<10		1	<9.7		1	<52		1	<20		2	NA		
N-Nitroso-di-n-propylamine	NS	NS	<8.1		1	<8.3		1	<8.3		1	<8.0		1	<8.2		1	<8.6		1	<8.2		1	<44		1	<17		2	NA		
N-Nitrosodiphenylamine	NS	NS	<20		1	<20		1	<20		1	<20		1	<20		1	<21		1	<20		1	<110		1	<41		2	NA		
Phenanthrene	100000	500000	26400		20	1260		1	26300		20	1670		1	925		1	1950		1	2770		1	1010		1	5740		2	NA		
Pyrene	100000	500000	40700		20	2600		1	23400		20	2110		1	1770		1	2750		1	7510		4	2450		1	7420		4	NA		
1,2,4,5-Tetrachlorobenzene	NS	NS	<10		1	<10		1	<10		1	<10		1	<10		1	<11		1	<10		1	<56		1	<21		2	NA		
Total TIC, Semi-Volatile	NS	NS	218467.5			17635.5			183666			14564.4			11918			18351.2			43578.6			16891			51700.1			0		
Aldrin	5	680	<0.34		1	<0.35		1	<0.35		1	<0.34		1	NA			<0.36		1	<0.34		1	<0.37		1	<0.35		1	NA		
2,4-D	NS	NS	<4.8		1	<4.9		1	<4.9		1	<4.8		1	NA			<5.1		1	<4.9		1	<5.3		1	<5.0		1	NA		
alpha-BHC	20	3400	<0.51		1	<0.53		1	<0.52		1	<0.51		1	NA			<0.54		1	<0.52		1	<0.56		1	<0.53		1	NA		
2,4,5-TP (Silvex)	3800	500000	<0.58		1	<0.60		1	<0.59		1	<0.58		1	NA			<0.62		1	<0.59		1	<0.64		1	<0.60		1	NA		
beta-BHC	36	3000	<0.48		1	<0.49		1	<0.49		1	<0.48		1	NA			<0.51		1	<0.48		1	<0.52		1	<0.50		1	NA		
2,4,5-T	NS	NS	<1.5		1	<1.5		1	<1.5		1	<1.4		1	NA			<1.6		1	<1.5		1	<1.6		1	<1.5		1	NA		
Dalapon	NS	NS	<1.1		1	<1.2		1	<1.2		1	<1.1		1	NA			<1.2		1	<1.2		1	<1.2		1	<1.2		1	NA		
delta-BHC	40	500000	<0.40		1	<0.41		1	<0.41		1	<0.40		1	NA			<0.42		1	<0.40		1	<0.44		1	<0.41		1	NA		
Dicamba	NS	NS	<0.68		1	<0.69		1	<0.69		1	<0.67		1	NA			<0.72		1	<0.68		1	<0.74		1	<0.70		1	NA		
Dichloroprop	NS	NS	<3.9		1	<4.0		1	<4.0		1	<3.9		1	NA			<4.2		1	<3.9		1	<4.3		1	<4.1		1	NA		
gamma-BHC (Lindane)	100	9200	<0.31		1	<0.32		1	<0.32		1	<0.31		1	NA			<0.33		1	<0.31		1	<0.34		1	<0.32		1	NA		
Dinoseb	NS	NS	<3.1		1	<3.2		1	<3.2		1	<3.1		1	NA			<3.3		1	<3.1		1	<3.4		1	<3.2		1	NA		
MCPA	NS	NS	<530		1	<540		1	<530		1	<520		1	NA			<560		1	<530		1	<570		1	<550		1	NA		
MCPP	NS	NS	<270		1	<280		1	<280		1	<270		1	NA			<290		1	<270		1	<300		1	<280		1	NA		
Pentachlorophenol	800	6700	3.8		1	3.0		1	2.1		1	<1.1		1	NA			2.7		1	<1.1		1	<1.2		1	<1.2		1	NA		
2,4-DB	NS	NS	<11		1	<12		1	<12		1	<11		1	NA			<12		1	<11		1	<12		1	<12		1	NA		
alpha-Chlordane	94	24000	<0.45		1	<0.46		1	<0.45		1	<0.44		1	NA			<0.47		1	<0.45		1	<0.49		1	<0.46		1	NA		
gamma-Chlordane	NS	NS	<0.35		1	<0.36		1	<0.36		1	<0.35		1	NA			<0.37		1	<0.35		1	<0.38		1	<0.36		1	NA		
Dieldrin	5	1400	<0.53		1	<0.54		1	<0.54		1	<0.53		1	NA			<0.56		1	<0.53		1	<0.58		1	<0.55		1	NA		
4,4'-DDD	3.3	92000	<0.35		1	<0.36		1	<0.36		1	<0.35		1	NA			3.1		1	<0.35		1	<0.38		1	<0.36		1	NA		
4,4'-DDE	3.3	62000	<0.40		1	<0.41		1	<0.41		1	<0.40		1	NA			**4.6**		1	<0.41		1	<0.44		1	<0.42		1	NA		
4,4'-DDT	3.3	47000	**16.4**		1	**7.2**		1	**20.3**		1	<0.50		1	NA			**7.1**		1	<0.50		1	<0.55		1	**12.4**		1	NA		
Endrin	14	89000	<0.35		1	<0.36		1	<0.36		1	<0.35		1	NA			<0.37		1	<0.35		1	<0.38		1	<0.36		1	NA		
Endosulfan sulfate	2400	200000	<0.62		1	<0.63		1	4.6		1	<0.61		1	NA			<0.66		1	<0.62		1	<0.68		1	<0.64		1	NA		
Endrin aldehyde	NS	NS	<0.65		1	<0.66		1	<0.66		1	<0.64		1	NA			<0.69		1	<0.65		1	<0.71		1	<0.67		1	NA		
Endosulfan-I	2400	200000	<0.33		1	<0.34		1	<0.34		1	<0.33		1	NA			<0.35		1	<0.33		1	<0.36		1	<0.34		1	NA		
Endosulfan-II	2400	200000	<0.45		1	<0.46		1	<0.46		1	<0.45		1	NA			<0.48		1	<0.45		1	<0.49		1	<0.47		1	NA		
Heptachlor	42	15000	<0.42		1	<0.43		1	<0.43		1	<0.42		1	NA			<0.45		1	<0.42		1	<0.46		1	<0.44		1	NA		
Heptachlor epoxide	NS	NS	<0.34		1	<0.35		1	<0.34		1	<0.33		1	NA			<0.36		1	<0.34		1	<0.37		1	<0.35		1	NA		
Methoxychlor	NS	NS	<0.48		1	<0.49		1	<0.49		1	<0.48		1	NA			<0.51		1	<0.49		1	<0.53		1	<0.50		1	NA		
Endrin ketone	NS	NS	43.0		1	8.5		1	23.4		1	<0.44		1	NA			<0.47		1	28.9		1	<0.49		1	23.2		1	NA		
Toxaphene	NS	NS	<8.6		1	<8.8		1	<8.8		1	<8.5		1	NA			<9.2		1	<8.7		1	<9.4		1	<9.0		1	NA		
Aroclor 1016	100	1000	<8.9		1	<9.1		1	<9.1		1	<8.8		1	<9.0		1	<9.5		1	<9.0		1	<9.7		1	<9.2		1	NA		
Aroclor 1221	100	1000	<21		1	<21		1	<21		1	<20		1	<21		1	<22		1	<21		1	<22		1	<21		1	NA		
Aroclor 1232	100	1000	<17		1	<18		1	<18		1	<17		1	<17		1	<18		1	<17		1	<19		1	<18		1	NA		
Aroclor 1242	100	1000	<11		1	<11		1	<11		1	<11		1	<11		1	<12		1	<11		1	<12		1	<11		1	NA		
Aroclor 1248	100	1000	<10		1	<11		1	<11		1	<10		1	<10		1	<11		1	<10		1	<11		1	<11		1	NA		
Aroclor 1254	100	1000	<16		1	<16		1	<16		1	<16		1	<16		1	<17		1	<16		1	<17		1	<17		1	NA		
Aroclor 1260	100	1000	<11		1	<11		1	41.8		1	<11		1	<11		1	58.8		1	<11		1	<12		1	<12		1	NA		
Aroclor 1268	100	1000	<10		1	<10		1	<10		1	<10		1	<10		1	<11		1	<10		1	<11		1	<10		1	NA		
Aroclor 1262	100	1000	<11		1	<11		1	<11		1	<11		1	<11		1	<12		1	<11		1	<12		1	<11		1	NA		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-10 (3.5-4) JA90022-8 10/24/2011			B-11 (3.5-4) JA90022-9 10/24/2011			B-12 (3.5-4) JA90022-10 10/24/2011			B-16 (3.5-4) JA90022-11 10/24/2011			B-16I (3.5-4) JA90022-12 10/24/2011			B-17 (3.5-4) JA90022-13 10/24/2011			B-3 (3.5-4) JA90022-3 10/24/2011			B-4 (3.5-4) JA90022-4 10/24/2011			B-5 (3.5-4) JA90022-7 10/24/2011			B-6 (5-5.5) JA90022-2 10/24/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Metals Analysis (mg/kg)																															
Aluminum	NS	NS	7890		1	5440		1	8060		1	3380		1	2440		1	7660		1	7370		1	4730		1	8040		1	NA		
Antimony	NS	NS	<2.3		1	7.3		1	<2.4		1	2.5		1	2.6		1	<2.4		1	<2.4		1	202		1	<2.4		1	NA		
Arsenic	13	16	**29.3**		1	**72.6**		3	12.6		1	**52.6**		1	**51.6**		1	8.2		1	**43.7**		1	**41.5**		1	**13.3**		1	NA		
Barium	350	400	93.4		1	**897**		1	151		1	182		1	167		1	128		1	158		1	272		1	80.8		1	168		1
Beryllium	7.2	590	0.47		1	0.86		1	0.57		1	0.82		1	0.67		1	0.72		1	1.1		1	0.5		1	0.46		1	NA		
Cadmium	2.5	9.3	<0.58		1	**2.6**		3	0.86		1	**4.2**		1	0.92		1	<0.60		1	<0.59		1	0.71		1	<0.59		1	NA		
Calcium	NS	NS	19500		1	11900		1	42300		1	11800		1	4230		1	34300		1	3560		1	45700		1	6220		1	NA		
Chromium	NS	NS	17.3		1	72.6		1	16.1		1	22.1		1	18.2		1	19.5		1	16.9		1	14.5		1	15.9		1	NA		
Cobalt	NS	NS	5.8		1	13.4		1	9.3		1	6.8		1	6.1		1	8.2		1	8.5		1	<6.4		1	<5.9		1	NA		
Copper	50	270	28		1	**322**		1	**87.9**		1	**117**		1	**63.8**		1	**95.5**		1	34.5		1	**449**		1	35.9		1	NA		
Iron	NS	NS	18500		1	103000		3	14900		1	42600		1	26300		1	16700		1	27900		1	22100		1	17900		1	NA		
Lead	63	1000	**100**		1	**603**		3	**154**		1	**166**		1	**217**		1	**147**		1	42		1	**564**		1	**99.6**		1	NA		
Magnesium	NS	NS	3370		1	3450		1	4370		1	1710		1	890		1	5360		1	<590		1	12300		1	3500		1	NA		
Manganese	1600	10000	278		1	696		1	270		1	272		1	356		1	278		1	33		1	307		1	213		1	NA		
Mercury	0.18	2.8	**0.41**		**1**	**10.5**		**20**	**0.34**		**1**	**1.5**		**2**	**3.2**		**5**	**6.1**		**10**	0.13		**1**	**0.79**		**1**	**0.84**		**1**	NA		
Nickel	30	310	16.5		1	**78.7**		1	25.8		1	**54.8**		1	23.7		1	**32.3**		1	28.2		1	**46.3**		1	18.3		1	NA		
Potassium	NS	NS	1290		1	<1200		1	1360		1	<1100		1	<1200		1	1860		1	<1200		1	<1300		1	1370		1	NA		
Selenium	3.9	1500	3.4		1	**8.9**		3	<2.4		1	**4.5**		1	**4.2**		1	<2.4		1	**4**		1	<2.6		1	<2.4		1	NA		
Silver	2	1500	<0.58		1	<0.58		1	<0.60		1	<0.56		1	<0.60		1	<0.60		1	<0.59		1	<0.64		1	<0.59		1	NA		
Sodium	NS	NS	<1200		1	<1200		1	<1200		1	<1100		1	<1200		1	<1200		1	<1200		1	<1300		1	<1200		1	NA		
Thallium	NS	NS	<1.2		1	<3.5		3	<1.2		1	<1.1		1	<1.2		1	<1.2		1	<1.2		1	<1.3		1	<1.2		1	NA		
Vanadium	NS	NS	24.3		1	225		1	43.4		1	52.6		1	26.9		1	27.2		1	50.9		1	91.6		1	25		1	NA		
Zinc	109	10000	88.2		1	**1330**		3	**262**		1	**1360**		1	**382**		1	**268**		1	44.3		1	**389**		1	**141**		1	NA		
General Chemistry																															
Solids, Percent (%)	NS	NS	85.8		1	83.9		1	84.4		1	86.7		1	85.2		1	80.9		1	85.4		1	78.7		1	82.8		1	91.4		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Conservation Part 375
Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit (MDL)
& below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 (5-5.5) JA90022-1 10/24/2011			B-8 (3.5-4) JA90022-5 10/24/2011			B-9 (3.5-4) JA90022-6 10/24/2011			B-16(6-6.5) JA91348-1 11/7/2011			B-17(6-6.5) JA91348-2 11/7/2011			B-20(5-5.5) JA91348-3 11/7/2011			TRIP BLANK JA93266-6 11/30/2011			B-21 (7-7.5) JA93266-1 11/30/2011			B-22 (7-7.5) JA93266-2 11/30/2011			B-26 (7-7.5) JA93266-3 11/30/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Acetone	50	500000	NA			<7.9		1	<8.6		1	NA			NA			NA			<7.6		1	<8.4		1	<2400		1	<10		1
Benzene	60	44000	NA			<0.16		1	<0.17		1	NA			NA			NA			<0.22		1	<0.17		1	**453**		1	<0.20		1
Bromochloromethane	NS	NS	NA			<0.62		1	<0.68		1	NA			NA			NA			<0.40		1	<0.66		1	<190		1	<0.80		1
Bromodichloromethane	NS	NS	NA			<0.27		1	<0.29		1	NA			NA			NA			<0.23		1	<0.28		1	<81		1	<0.34		1
Bromoform	NS	NS	NA			<0.90		1	<0.98		1	NA			NA			NA			<0.24		1	<0.96		1	<270		1	<1.2		1
Bromomethane	NS	NS	NA			<0.47		1	<0.51		1	NA			NA			NA			<0.31		1	<0.50		1	<140		1	<0.60		1
2-Butanone (MEK)	120	500000	NA			<5.2		1	<5.6		1	NA			NA			NA			<2.9		1	<5.5		1	<1600		1	<6.6		1
Carbon disulfide	NS	NS	NA			<0.23		1	<0.26		1	NA			NA			NA			<0.18		1	<0.25		1	<71		1	<0.30		1
Carbon tetrachloride	760	22000	NA			<0.41		1	<0.45		1	NA			NA			NA			<0.19		1	<0.44		1	<130		1	<0.53		1
Chlorobenzene	1100	500000	NA			<0.38		1	<0.42		1	NA			NA			NA			<0.22		1	<0.41		1	<120		1	<0.49		1
Chloroethane	NS	NS	NA			<0.49		1	<0.53		1	NA			NA			NA			<0.37		1	<0.52		1	<150		1	<0.63		1
Chloroform	370	350000	NA			<0.58		1	<0.63		1	NA			NA			NA			<0.21		1	<0.61		1	<170		1	<0.74		1
Chloromethane	NS	NS	NA			<0.74		1	<0.81		1	NA			NA			NA			<0.22		1	<0.79		1	<230		1	<0.96		1
Cyclohexane	NS	NS	NA			<0.45		1	<0.49		1	NA			NA			NA			<0.29		1	<0.48		1	<140		1	<0.58		1
1,2-Dibromo-3-chloropropane	NS	NS	NA			<1.8		1	<2.0		1	NA			NA			NA			<1.3		1	<1.9		1	<550		1	<2.3		1
Dibromochloromethane	NS	NS	NA			<0.20		1	<0.22		1	NA			NA			NA			<0.20		1	<0.21		1	<61		1	<0.26		1
1,2-Dibromoethane	NS	NS	NA			<0.28		1	<0.31		1	NA			NA			NA			<0.21		1	<0.30		1	<86		1	<0.37		1
1,2-Dichlorobenzene	1100	500000	NA			<0.33		1	<0.36		1	NA			NA			NA			<0.18		1	<0.35		1	<100		1	<0.43		1
1,3-Dichlorobenzene	2400	280000	NA			<0.23		1	<0.25		1	NA			NA			NA			<0.29		1	<0.24		1	<70		1	<0.29		1
1,4-Dichlorobenzene	1800	130000	NA			<0.20		1	<0.22		1	NA			NA			NA			<0.26		1	<0.22		1	<62		1	<0.26		1
Dichlorodifluoromethane	NS	NS	NA			<0.38		1	<0.42		1	NA			NA			NA			<0.31		1	<0.41		1	<120		1	<0.49		1
1,1-Dichloroethane	270	240000	NA			<0.26		1	<0.28		1	NA			NA			NA			<0.19		1	<0.28		1	<79		1	<0.33		1
1,2-Dichloroethane	20	30000	NA			<0.22		1	<0.24		1	NA			NA			NA			<0.18		1	<0.23		1	<66		1	<0.28		1
1,1-Dichloroethene	330	500000	NA			<0.73		1	<0.80		1	NA			NA			NA			<0.28		1	<0.78		1	<220		1	<0.94		1
cis-1,2-Dichloroethene	250	500000	NA			<0.38		1	<0.42		1	NA			NA			NA			<0.22		1	<0.41		1	<120		1	<0.49		1
trans-1,2-Dichloroethene	190	500000	NA			<0.51		1	<0.55		1	NA			NA			NA			<0.31		1	<0.54		1	<150		1	<0.65		1
1,2-Dichloropropane	NS	NS	NA			<0.32		1	<0.35		1	NA			NA			NA			<0.22		1	<0.34		1	<96		1	<0.41		1
cis-1,3-Dichloropropene	NS	NS	NA			<0.18		1	<0.20		1	NA			NA			NA			<0.22		1	<0.19		1	<55		1	<0.23		1
trans-1,3-Dichloropropene	NS	NS	NA			<0.40		1	<0.44		1	NA			NA			NA			<0.19		1	<0.43		1	<120		1	<0.52		1
1,4-Dioxane	100	130000	NA			<69		1	<76		1	NA			NA			NA			<72		1	<74		1	<21000		1	<89		1
Ethylbenzene	1000	390000	NA			<0.18		1	<0.19		1	NA			NA			NA			<0.21		1	<0.19		1	292	J	1	<0.23		1
Freon 113	NS	NS	NA			<0.85		1	<0.93		1	NA			NA			NA			<0.49		1	<0.91		1	<260		1	<1.1		1
2-Hexanone	NS	NS	NA			<3.0		1	<3.2		1	NA			NA			NA			<3.0		1	<3.2		1	<900		1	<3.8		1
Isopropylbenzene	NS	NS	NA			<0.16		1	<0.18		1	NA			NA			NA			<0.19		1	<0.17		1	148	J	1	<0.21		1
Methyl Acetate	NS	NS	NA			<2.6		1	<2.9		1	NA			NA			NA			<2.9		1	<2.8		1	<800		1	<3.4		1
Methylcyclohexane	NS	NS	NA			<0.29		1	<0.32		1	NA			NA			NA			<0.18		1	<0.31		1	<89		1	<0.38		1
Methyl Tert Butyl Ether	930	500000	NA			<0.21		1	<0.23		1	NA			NA			NA			<0.18		1	<0.23		1	<65		1	<0.27		1
4-Methyl-2-pentanone(MIBK)	NS	NS	NA			<3.1		1	<3.4		1	NA			NA			NA			<1.2		1	<3.3		1	<950		1	<4.0		1
Methylene chloride	50	500000	NA			<0.27		1	<0.30		1	NA			NA			NA			<0.20		1	<0.29		1	<83		1	<0.35		1
Styrene	NS	NS	NA			<0.22		1	<0.24		1	NA			NA			NA			<0.23		1	<0.24		1	<67		1	<0.28		1
1,1,2,2-Tetrachloroethane	NS	NS	NA			<0.21		1	<0.23		1	NA			NA			NA			<0.20		1	<0.23		1	<65		1	<0.27		1
Tetrachloroethene	1300	150000	NA			<0.23		1	<0.25		1	NA			NA			NA			<0.32		1	<0.24		1	<69		1	<0.29		1
Toluene	700	500000	NA			<0.45		1	<0.49		1	NA			NA			NA			<0.15		1	<0.48		1	**1100**		1	<0.58		1
1,2,3-Trichlorobenzene	NS	NS	NA			<0.52		1	<0.57		1	NA			NA			NA			<0.69		1	<0.56		1	<160		1	<0.67		1
1,2,4-Trichlorobenzene	NS	NS	NA			<0.41		1	<0.44		1	NA			NA			NA			<0.15		1	<0.43		1	<120		1	<0.52		1
1,1,1-Trichloroethane	680	500000	NA			<0.29		1	<0.31		1	NA			NA			NA			<0.24		1	<0.31		1	<87		1	<0.37		1
1,1,2-Trichloroethane	NS	NS	NA			<0.52		1	<0.56		1	NA			NA			NA			<0.23		1	<0.55		1	<160		1	<0.66		1
Trichloroethene	470	200000	NA			<0.29		1	<0.32		1	NA			NA			NA			<0.21		1	<0.31		1	<89		1	<0.38		1
Trichlorofluoromethane	NS	NS	NA			<0.57		1	<0.63		1	NA			NA			NA			<0.35		1	<0.61		1	<170		1	<0.74		1
Vinyl chloride	20	13000	NA			<0.55		1	<0.60		1	NA			NA			NA			<0.27		1	<0.59		1	<170		1	<0.71		1
m,p-Xylene	260	500000	NA			0.43	J	1	<0.41		1	NA			NA			NA			<0.32		1	<0.40		1	**1970**		1	<0.48		1
o-Xylene	260	500000	NA			<0.22		1	<0.24		1	NA			NA			NA			<0.17		1	<0.23		1	**820**		1	<0.28		1
Xylene (total)	260	500000	NA			0.43	J	1	<0.24		1	NA			NA			NA			<0.17		1	<0.23		1	**2790**		1	<0.28		1
Total TIC, Volatile	NS	NS	0			0.86			0			NA			NA			NA			0			0			7573			0		

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 (5-5.5) JA90022-1 10/24/2011			B-8 (3.5-4) JA90022-5 10/24/2011			B-9 (3.5-4) JA90022-6 10/24/2011			B-16(6-6.5) JA91348-1 11/7/2011			B-17(6-6.5) JA91348-2 11/7/2011			B-20(5-5.5) JA91348-3 11/7/2011			TRIP BLANK JA93266-6 11/30/2011			B-21 (7-7.5) JA93266-1 11/30/2011			B-22 (7-7.5) JA93266-2 11/30/2011			B-26 (7-7.5) JA93266-3 11/30/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
GC/MS Semi-volatiles (ug/kg)																															
2-Chlorophenol	NS	NS	NA			<67		2	<170		5	NA			NA			NA			NA			<180		5	<180		5	<170		5
4-Chloro-3-methyl phenol	NS	NS	NA			<67		2	<170		5	NA			NA			NA			NA			<180		5	<170		5	<170		5
2,4-Dichlorophenol	NS	NS	NA			<110		2	<280		5	NA			NA			NA			NA			<290		5	<280		5	<270		5
2,4-Dimethylphenol	NS	NS	NA			<110		2	<290		5	NA			NA			NA			NA			<310		5	1140		5	<280		5
2,4-Dinitrophenol	NS	NS	NA			<81		2	<210		5	NA			NA			NA			NA			<220		5	<210		5	<200		5
4,6-Dinitro-o-cresol	NS	NS	NA			<81		2	<210		5	NA			NA			NA			NA			<220		5	<210		5	<200		5
2-Methylphenol	330	500000	NA			<76		2	<200		5	NA			NA			NA			NA			<210		5	**637**		5	<190		5
3&4-Methylphenol	NS	NS	NA			<85		2	<220		5	NA			NA			NA			NA			<230		5	686		5	<210		5
2-Nitrophenol	NS	NS	NA			<71		2	<180		5	NA			NA			NA			NA			<190		5	<190		5	<180		5
4-Nitrophenol	NS	NS	NA			<110		2	<290		5	NA			NA			NA			NA			<310		5	<300		5	<280		5
Pentachlorophenol	800	6700	NA			<110		2	<290		5	NA			NA			NA			NA			<310		5	<300		5	<290		5
Phenol	330	500000	NA			<70		2	<180		5	NA			NA			NA			NA			<190		5	**376**		5	<180		5
2,3,4,6-Tetrachlorophenol	NS	NS	NA			<69		2	<180		5	NA			NA			NA			NA			<190		5	<180		5	<170		5
2,4,5-Trichlorophenol	NS	NS	NA			<77		2	<200		5	NA			NA			NA			NA			<210		5	<200		5	<190		5
2,4,6-Trichlorophenol	NS	NS	NA			<63		2	<160		5	NA			NA			NA			NA			<170		5	<160		5	<160		5
Acenaphthene	20000	500000	NA			2470		2	4080		5	NA			NA			NA			NA			111	J	5	4230		5	77.3	J	5
Acenaphthylene	100000	500000	NA			21900		200	2570		5	NA			NA			NA			NA			268		5	9900		5	256		5
Acetophenone	NS	NS	NA			<12		2	<30		5	NA			NA			NA			NA			<32		5	<31		5	<29		5
Anthracene	100000	500000	NA			20600		200	14100		5	NA			NA			NA			NA			419		5	12500		5	230		5
Atrazine	NS	NS	NA			<13		2	<34		5	NA			NA			NA			NA			<36		5	<34		5	<33		5
Benzo(a)anthracene	1000	5600	NA			**71800**		200	**37800**		50	NA			NA			NA			NA			**1880**		5	**24100**		25	**1210**		5
Benzo(a)pyrene	1000	1000	NA			**65500**		200	**31400**		50	NA			NA			NA			NA			**1890**		5	**23700**		25	**1170**		5
Benzo(b)fluoranthene	1000	5600	NA			**65600**		200	**28500**		50	NA			NA			NA			NA			**1910**		5	**21800**		25	900		5
Benzo(g,h,i)perylene	100000	500000	NA			36700		200	12400		5	NA			NA			NA			NA			1160		5	17400		25	525		5
Benzo(k)fluoranthene	800	56000	NA			**39300**		200	**23500**		50	NA			NA			NA			NA			**1220**		5	**17200**		25	**897**		5
4-Bromophenyl phenyl ether	NS	NS	NA			<24		2	<62		5	NA			NA			NA			NA			<66		5	<63		5	<61		5
Butyl benzyl phthalate	NS	NS	NA			<39		2	<99		5	NA			NA			NA			NA			<110		5	<100		5	<97		5
1,1'-Biphenyl	NS	NS	NA			248		2	542		5	NA			NA			NA			NA			<21		5	2860		5	<19		5
Benzaldehyde	NS	NS	NA			<15		2	<39		5	NA			NA			NA			NA			<42		5	<40		5	<38		5
2-Chloronaphthalene	NS	NS	NA			<21		2	<53		5	NA			NA			NA			NA			<56		5	<54		5	<52		5
4-Chloroaniline	NS	NS	NA			<21		2	<55		5	NA			NA			NA			NA			<58		5	<56		5	<53		5
Carbazole	NS	NS	NA			1050		2	3000		5	NA			NA			NA			NA			85.5	J	5	4790		5	109	J	5
Caprolactam	NS	NS	NA			<21		2	<54		5	NA			NA			NA			NA			<57		5	<55		5	<53		5
Chrysene	1000	56000	NA			**65600**		200	**34800**		50	NA			NA			NA			NA			**1850**		5	**22000**		25	**1060**		5
bis(2-Chloroethoxy)methane	NS	NS	NA			<27		2	<69		5	NA			NA			NA			NA			<73		5	<71		5	<67		5
bis(2-Chloroethyl)ether	NS	NS	NA			<20		2	<51		5	NA			NA			NA			NA			<55		5	<53		5	<50		5
bis(2-Chloroisopropyl)ether	NS	NS	NA			<20		2	<51		5	NA			NA			NA			NA			<54		5	<52		5	<50		5
4-Chlorophenyl phenyl ether	NS	NS	NA			<20		2	<51		5	NA			NA			NA			NA			<55		5	<53		5	<50		5
2,4-Dinitrotoluene	NS	NS	NA			<29		2	<75		5	NA			NA			NA			NA			<79		5	<76		5	<73		5
2,6-Dinitrotoluene	NS	NS	NA			<25		2	<65		5	NA			NA			NA			NA			<69		5	<67		5	<64		5
3,3'-Dichlorobenzidine	NS	NS	NA			<17		2	<43		5	NA			NA			NA			NA			<46		5	<44		5	<42		5
Dibenzo(a,h)anthracene	330	560	NA			**15800**		200	**5490**		5	NA			NA			NA			NA			**593**		5	**7370**		5	**368**		5
Dibenzofuran	7000	350000	NA			1790		2	3520		5	NA			NA			NA			NA			103	J	5	**9320**		5	86.4	J	5
Di-n-butyl phthalate	NS	NS	NA			<15		2	<38		5	NA			NA			NA			NA			<40		5	<39		5	<37		5
Di-n-octyl phthalate	NS	NS	NA			<33		2	<83		5	NA			NA			NA			NA			<89		5	<85		5	<81		5
Diethyl phthalate	NS	NS	NA			<23		2	<58		5	NA			NA			NA			NA			<62		5	<60		5	<57		5
Dimethyl phthalate	NS	NS	NA			179		2	<60		5	NA			NA			NA			NA			<64		5	<62		5	<59		5
bis(2-Ethylhexyl)phthalate	NS	NS	NA			<59		2	<150		5	NA			NA			NA			NA			<160		5	<150		5	<150		5
Fluoranthene	100000	500000	NA			**145000**		200	70400		50	NA			NA			NA			NA			3160		5	44400		25	1500		5
Fluorene	30000	500000	NA			4370		2	5600		5	NA			NA			NA			NA			152	J	5	11200		5	171		5
Hexachlorobenzene	330	330	NA			<22		2	<56		5	NA			NA			NA			NA			<59		5	<57		5	<54		5
Hexachlorobutadiene	NS	NS	NA			<19		2	<48		5	NA			NA			NA			NA			<51		5	<49		5	<46		5
Hexachlorocyclopentadiene	NS	NS	NA			<68		2	<170		5	NA			NA			NA			NA			<190		5	<180		5	<170		5
Hexachloroethane	NS	NS	NA			<19		2	<48		5	NA			NA			NA			NA			<51		5	<49		5	<46		5
Indeno(1,2,3-cd)pyrene	500	5600	NA			**35700**		200	**13300**		5	NA			NA			NA			NA			**1100**		5	**16300**		5	**513**		5

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 (5-5.5) JA90022-1 10/24/2011			B-8 (3.5-4) JA90022-5 10/24/2011			B-9 (3.5-4) JA90022-6 10/24/2011			B-16(6-6.5) JA91348-1 11/7/2011			B-17(6-6.5) JA91348-2 11/7/2011			B-20(5-5.5) JA91348-3 11/7/2011			TRIP BLANK JA93266-6 11/30/2011			B-21 (7-7.5) JA93266-1 11/30/2011			B-22 (7-7.5) JA93266-2 11/30/2011			B-26 (7-7.5) JA93266-3 11/30/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Isophorone	NS	NS	NA			<18		2	<46		5	NA			NA			NA			NA			<49		5	<47		5	<45		5
2-Methylnaphthalene	NS	NS	NA			620		2	874		5	NA			NA			NA			NA			<100		5	11000		5	<93		5
2-Nitroaniline	NS	NS	NA			<29		2	<75		5	NA			NA			NA			NA			<80		5	<77		5	<73		5
3-Nitroaniline	NS	NS	NA			<27		2	<68		5	NA			NA			NA			NA			<73		5	<70		5	<67		5
4-Nitroaniline	NS	NS	NA			<26		2	<67		5	NA			NA			NA			NA			<71		5	<68		5	<65		5
Naphthalene	12000	500000	NA			1880		2	1370		5	NA			NA			NA			NA			153	J	5	**51700**		25	133	J	5
Nitrobenzene	NS	NS	NA			<19		2	<49		5	NA			NA			NA			NA			<53		5	<51		5	<48		5
N-Nitroso-di-n-propylamine	NS	NS	NA			<16		2	<42		5	NA			NA			NA			NA			<44		5	<43		5	<41		5
N-Nitrosodiphenylamine	NS	NS	NA			<40		2	<100		5	NA			NA			NA			NA			<110		5	<100		5	<100		5
Phenanthrene	100000	500000	NA			71700		200	58400		50	NA			NA			NA			NA			1320		5	45200		25	679		5
Pyrene	100000	500000	NA			178000		200	79900		50	NA			NA			NA			NA			3240		5	48800		25	2170		5
1,2,4,5-Tetrachlorobenzene	NS	NS	NA			<20		2	<53		5	NA			NA			NA			NA			<56		5	<54		5	<51		5
Total TIC, Semi-Volatile	NS	NS	0			845807			431546			NA			NA			NA			NA			20614.5			408609			12054.7		
Aldrin	5	680	NA			<0.34		1	<0.35		1	NA			NA			NA			NA			<0.37		1	<0.36		1	<0.34		1
2,4-D	NS	NS	NA			<4.8		1	<5.0		1	NA			NA			NA			NA			NA			NA			NA		
alpha-BHC	20	3400	NA			<0.51		1	<0.53		1	NA			NA			NA			NA			12.2		1	<0.54		1	11.7		1
2,4,5-TP (Silvex)	3800	500000	NA			<0.58		1	<0.60		1	NA			NA			NA			NA			NA			NA			NA		
beta-BHC	36	3000	NA			<0.48		1	<0.49		1	NA			NA			NA			NA			<0.53		1	<0.51		1	3.3		1
2,4,5-T	NS	NS	NA			<1.5		1	<1.5		1	NA			NA			NA			NA			NA			NA			NA		
Dalapon	NS	NS	NA			<1.1		1	<1.2		1	NA			NA			NA			NA			NA			NA			NA		
delta-BHC	40	500000	NA			<0.40		1	<0.41		1	NA			NA			NA			NA			5.7		1	<0.42		1	15.1		1
Dicamba	NS	NS	NA			<0.68		1	<0.70		1	NA			NA			NA			NA			NA			NA			NA		
Dichloroprop	NS	NS	NA			22.9		1	<4.0		1	NA			NA			NA			NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	NA			<0.31		1	<0.32		1	NA			NA			NA			NA			<0.34		1	<0.33		1	<0.31		1
Dinoseb	NS	NS	NA			<3.1		1	<3.2		1	NA			NA			NA			NA			NA			NA			NA		
MCPA	NS	NS	NA			<530		1	<540		1	NA			NA			NA			NA			NA			NA			NA		
MCPP	NS	NS	NA			<270		1	<280		1	NA			NA			NA			NA			NA			NA			NA		
Pentachlorophenol	800	6700	NA			<1.1		1	<1.2		1	NA			NA			NA			NA			NA			NA			NA		
2,4-DB	NS	NS	NA			<11		1	<12		1	NA			NA			NA			NA			NA			NA			NA		
alpha-Chlordane	94	24000	NA			<0.45		1	<0.46		1	NA			NA			NA			NA			<0.49		1	<0.47		1	<0.45		1
gamma-Chlordane	NS	NS	NA			<0.35		1	<0.36		1	NA			NA			NA			NA			<0.38		1	<0.37		1	<0.35		1
Dieldrin	5	1400	NA			<0.53		1	<0.55		1	NA			NA			NA			NA			<0.58		1	<0.56		1	<0.53		1
4,4'-DDD	3.3	92000	NA			<0.35		1	<0.36		1	NA			NA			NA			NA			**14.4**		1	<0.37		1	**203**		25
4,4'-DDE	3.3	62000	NA			<0.41		1	<0.42		1	NA			NA			NA			NA			<0.44		1	<0.42		1	**11.7**		1
4,4'-DDT	3.3	47000	NA			<0.50		1	<0.52		1	NA			NA			NA			NA			**81.3**		4	<0.53		1	**663**		25
Endrin	14	89000	NA			<0.35		1	<0.36		1	NA			NA			NA			NA			<0.38		1	<0.37		1	<0.35		1
Endosulfan sulfate	2400	200000	NA			<0.62		1	<0.64		1	NA			NA			NA			NA			<0.68		1	<0.65		1	<0.62		1
Endrin aldehyde	NS	NS	NA			<0.65		1	<0.67		1	NA			NA			NA			NA			<0.71		1	<0.68		1	<0.65		1
Endosulfan-I	2400	200000	NA			<0.33		1	<0.34		1	NA			NA			NA			NA			<0.36		1	<0.35		1	<0.33		1
Endosulfan-II	2400	200000	NA			<0.45		1	<0.46		1	NA			NA			NA			NA			<0.49		1	<0.47		1	<0.45		1
Heptachlor	42	15000	NA			<0.42		1	<0.43		1	NA			NA			NA			NA			<0.46		1	<0.44		1	<0.42		1
Heptachlor epoxide	NS	NS	NA			<0.34		1	<0.35		1	NA			NA			NA			NA			<0.37		1	<0.35		1	<0.34		1
Methoxychlor	NS	NS	NA			<0.49		1	<0.50		1	NA			NA			NA			NA			<0.53		1	<0.51		1	<0.48		1
Endrin ketone	NS	NS	NA			98.6		10	55.5		1	NA			NA			NA			NA			<0.49		1	<0.47		1	<0.45		1
Toxaphene	NS	NS	NA			<8.7		1	<8.9		1	NA			NA			NA			NA			<9.4		1	<9.1		1	<8.6		1
Aroclor 1016	100	1000	NA			<8.9		1	<9.2		1	NA			NA			NA			NA			<9.7		1	<9.4		1	<8.9		1
Aroclor 1221	100	1000	NA			<21		1	<21		1	NA			NA			NA			NA			<23		1	<22		1	<21		1
Aroclor 1232	100	1000	NA			<17		1	<18		1	NA			NA			NA			NA			<19		1	<18		1	<17		1
Aroclor 1242	100	1000	NA			<11		1	<11		1	NA			NA			NA			NA			<12		1	<11		1	<11		1
Aroclor 1248	100	1000	NA			<10		1	<11		1	NA			NA			NA			NA			<11		1	<11		1	<10		1
Aroclor 1254	100	1000	NA			<16		1	<16		1	NA			NA			NA			NA			<18		1	<17		1	<16		1
Aroclor 1260	100	1000	NA			<11		1	<12		1	NA			NA			NA			NA			**258**		1	**2690**		2	<11		1
Aroclor 1268	100	1000	NA			<10		1	<10		1	NA			NA			NA			NA			<11		1	<11		1	<10		1
Aroclor 1262	100	1000	NA			<11		1	<11		1	NA			NA			NA			NA			<12		1	<11		1	<11		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-7 (5-5.5) JA90022-1 10/24/2011			B-8 (3.5-4) JA90022-5 10/24/2011			B-9 (3.5-4) JA90022-6 10/24/2011			B-16(6-6.5) JA91348-1 11/7/2011			B-17(6-6.5) JA91348-2 11/7/2011			B-20(5-5.5) JA91348-3 11/7/2011			TRIP BLANK JA93266-6 11/30/2011			B-21 (7-7.5) JA93266-1 11/30/2011			B-22 (7-7.5) JA93266-2 11/30/2011			B-26 (7-7.5) JA93266-3 11/30/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)																															
Metals Analysis (mg/kg)																															
Aluminum	NS	NS	NA			8520		1	3300		1	NA			NA			NA			NA			7800		1	6090		1	6890		1
Antimony	NS	NS	NA			2.4		1	<2.4		1	NA			NA			NA			NA			2.8		1	<2.4		1	<2.4		1
Arsenic	13	16	**18.2**		1	**23.1**		1	**19**		1	10.7		1	NA			NA			NA			**27.1**		1	10.9		1	4.6		1
Barium	350	400	NA			98.4		1	77.5		1	NA			NA			93.6		1	NA			190		1	65.6		1	30.5		1
Beryllium	7.2	590	NA			0.42		1	0.27		1	NA			NA			NA			NA			0.64		1	0.41		1	0.32		1
Cadmium	2.5	9.3	NA			<0.59		1	<0.59		1	NA			NA			NA			NA			<0.61		1	<0.61		1	<0.60		1
Calcium	NS	NS	NA			2390		1	9190		1	NA			NA			NA			NA			8690		1	36100		1	1110		1
Chromium	NS	NS	NA			14		1	17.1		1	NA			NA			NA			NA			32.9		1	10.5		1	10		1
Cobalt	NS	NS	NA			6.4		1	<5.9		1	NA			NA			NA			NA			18.7		1	<6.1		1	6		1
Copper	50	270	NA			26.6		1	**50.1**		1	NA			NA			NA			NA			**164**		1	41.4		1	15.7		1
Iron	NS	NS	NA			16500		1	15700		1	NA			NA			NA			NA			77900		1	18700		1	13700		1
Lead	63	1000	NA			**102**		1	**85.5**		1	NA			NA			NA			NA			**375**		1	**157**		1	12.5		1
Magnesium	NS	NS	NA			2560		1	3660		1	NA			NA			NA			NA			1810		1	3740		1	2610		1
Manganese	1600	10000	NA			202		1	123		1	NA			NA			NA			NA			916		1	379		1	174		1
Mercury	0.18	2.8	NA			**0.63**		**1**	**0.52**		**1**	NA			**0.22**		**1**	**5.1**		**10**	NA			**2.1**		**5**	**2**		**2**	<0.036		**1**
Nickel	30	310	NA			21.1		1	**32**		1	NA			NA			NA			NA			**37.3**		1	12.3		1	13.5		1
Potassium	NS	NS	NA			<1200		1	<1200		1	NA			NA			NA			NA			<1200		1	<1200		1	<1200		1
Selenium	3.9	1500	NA			<2.4		1	2.7		1	NA			NA			NA			NA			**7.1**		1	<2.4		1	<2.4		1
Silver	2	1500	NA			<0.59		1	<0.59		1	NA			NA			NA			NA			<0.61		1	<0.61		1	<0.60		1
Sodium	NS	NS	NA			<1200		1	<1200		1	NA			NA			NA			NA			<1200		1	1270		1	<1200		1
Thallium	NS	NS	NA			<1.2		1	<1.2		1	NA			NA			NA			NA			<2.4		2	<1.2		1	<1.2		1
Vanadium	NS	NS	NA			26.4		1	78.5		1	NA			NA			NA			NA			50.8		1	15.9		1	13		1
Zinc	109	10000	NA			**158**		1	80.4		1	NA			NA			NA			NA			**1030**		1	**121**		1	43.2		1
General Chemistry																															
Solids, Percent (%)	NS	NS	85.5		1	85.6		1	83.5		1	82.0		1	78.4		1	83.6		1	NA			78.6		1	81.7		1	85.7		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-31 (7-7.5) JA93266-4 11/30/2011			B-HS (7-7.5) JA93266-5 11/30/2011			GC-7 UST 1 (8-8.5)' JA93100-1 11/29/2011			GC-8 UST 2 (9-9.5)' JA93100-2 11/29/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)														
Acetone	50	500000	<4000		1	<10		1	<3100		1	<1400		1
Benzene	60	44000	**162**	J	1	<0.20		1	**89500**		1	**1480**		1
Bromochloromethane	NS	NS	<320		1	<0.80		1	<240		1	<110		1
Bromodichloromethane	NS	NS	<140		1	<0.35		1	<100		1	<47		1
Bromoform	NS	NS	<460		1	<1.2		1	<350		1	<160		1
Bromomethane	NS	NS	<240		1	<0.61		1	<180		1	<82		1
2-Butanone (MEK)	120	500000	<2600		1	<6.7		1	<2000		1	<900		1
Carbon disulfide	NS	NS	<120		1	<0.30		1	<92		1	<41		1
Carbon tetrachloride	760	22000	<210		1	<0.53		1	<160		1	<72		1
Chlorobenzene	1100	500000	<200		1	<0.50		1	<150		1	<67		1
Chloroethane	NS	NS	<250		1	<0.63		1	<190		1	<85		1
Chloroform	370	350000	<300		1	<0.74		1	<230		1	<100		1
Chloromethane	NS	NS	<380		1	<0.96		1	<290		1	<130		1
Cyclohexane	NS	NS	<230		1	<0.58		1	744	J	1	1320		1
1,2-Dibromo-3-chloropropane	NS	NS	<920		1	<2.3		1	<710		1	<310		1
Dibromochloromethane	NS	NS	<100		1	<0.26		1	<79		1	<35		1
1,2-Dibromoethane	NS	NS	<150		1	<0.37		1	<110		1	<50		1
1,2-Dichlorobenzene	1100	500000	<170		1	<0.43		1	<130		1	<58		1
1,3-Dichlorobenzene	2400	280000	<120		1	<0.30		1	<90		1	<40		1
1,4-Dichlorobenzene	1800	130000	<100		1	<0.26		1	<80		1	<35		1
Dichlorodifluoromethane	NS	NS	<200		1	<0.49		1	<150		1	<67		1
1,1-Dichloroethane	270	240000	<130		1	<0.34		1	<100		1	<45		1
1,2-Dichloroethane	20	30000	<110		1	<0.28		1	<85		1	<38		1
1,1-Dichloroethene	330	500000	<370		1	<0.94		1	<290		1	<130		1
cis-1,2-Dichloroethene	250	500000	<200		1	<0.50		1	<150		1	<67		1
trans-1,2-Dichloroethene	190	500000	<260		1	<0.65		1	<200		1	<88		1
1,2-Dichloropropane	NS	NS	<160		1	<0.41		1	<120		1	<55		1
cis-1,3-Dichloropropene	NS	NS	<93		1	<0.23		1	<71		1	<32		1
trans-1,3-Dichloropropene	NS	NS	<210		1	<0.52		1	<160		1	<70		1
1,4-Dioxane	100	130000	<36000		1	<90		1	<27000		1	<12000		1
Ethylbenzene	1000	390000	1860		1	1.5		1	**17000**		1	**10900**		1
Freon 113	NS	NS	<440		1	<1.1		1	<340		1	<150		1
2-Hexanone	NS	NS	<1500		1	<3.8		1	<1200		1	<520		1
Isopropylbenzene	NS	NS	543	J	1	<0.21		1	4640		1	4470		1
Methyl Acetate	NS	NS	<1400		1	<3.4		1	<1000		1	<460		1
Methylcyclohexane	NS	NS	634	J	1	<0.38		1	3110		1	6550		1
Methyl Tert Butyl Ether	930	500000	<110		1	<0.28		1	<84		1	**113**	J	1
4-Methyl-2-pentanone(MIBK)	NS	NS	<1600		1	<4.1		1	<1200		1	<550		1
Methylene chloride	50	500000	<140		1	<0.35		1	<110		1	<48		1
Styrene	NS	NS	<110		1	<0.29		1	16200		1	<38		1
1,1,2,2-Tetrachloroethane	NS	NS	<110		1	<0.28		1	<84		1	<37		1
Tetrachloroethene	1300	150000	<120		1	<0.29		1	<89		1	<40		1
Toluene	700	500000	498	J	1	1.5		1	**158000**		1	**2340**		1
1,2,3-Trichlorobenzene	NS	NS	<270		1	<0.68		1	<200		1	<91		1
1,2,4-Trichlorobenzene	NS	NS	<210		1	<0.53		1	<160		1	<71		1
1,1,1-Trichloroethane	680	500000	<150		1	1.3	J	1	<110		1	<50		1
1,1,2-Trichloroethane	NS	NS	<260		1	<0.67		1	<200		1	<90		1
Trichloroethene	470	200000	<150		1	<0.38		1	<120		1	<51		1
Trichlorofluoromethane	NS	NS	<290		1	<0.74		1	<230		1	<100		1
Vinyl chloride	20	13000	<280		1	<0.71		1	<220		1	<96		1
m,p-Xylene	260	500000	**4180**		1	4.2		1	**120000**		1	**19100**		1
o-Xylene	260	500000	**1820**		1	3.0		1	**39700**		1	**9590**		1
Xylene (total)	260	500000	**6000**		1	7.2		1	**159000**		1	**28600**		1
Total TIC, Volatile	NS	NS	15697			18.7			2808000	J	1	266000	J	1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-31 (7-7.5) JA93266-4 11/30/2011			B-HS (7-7.5) JA93266-5 11/30/2011			GC-7 UST 1 (8-8.5)' JA93100-1 11/29/2011			GC-8 UST 2 (9-9.5)' JA93100-2 11/29/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)														
GC/MS Semi-volatiles (ug/kg)														
2-Chlorophenol	NS	NS	<160		5	<180		5	<200		5	<150		2
4-Chloro-3-methyl phenol	NS	NS	<160		5	<180		5	<200		5	<150		2
2,4-Dichlorophenol	NS	NS	<260		5	<280		5	<320		5	<240		2
2,4-Dimethylphenol	NS	NS	708	J	5	<300		5	54700		250	<250		2
2,4-Dinitrophenol	NS	NS	<190		5	<210		5	<240		5	<180		2
4,6-Dinitro-o-cresol	NS	NS	<190		5	<210		5	<240		5	<180		2
2-Methylphenol	330	500000	298	J	5	<200		5	**52900**		250	<170		2
3&4-Methylphenol	NS	NS	711		5	<220		5	126000		250	<190		2
2-Nitrophenol	NS	NS	<170		5	<190		5	<210		5	<160		2
4-Nitrophenol	NS	NS	<270		5	<300		5	<340		5	<260		2
Pentachlorophenol	800	6700	<270		5	<300		5	<340		5	<260		2
Phenol	330	500000	215	J	5	<180		5	**79800**		250	<160		2
2,3,4,6-Tetrachlorophenol	NS	NS	<160		5	<180		5	<210		5	<160		2
2,4,5-Trichlorophenol	NS	NS	<180		5	<200		5	<230		5	<180		2
2,4,6-Trichlorophenol	NS	NS	<150		5	<170		5	<190		5	<140		2
Acenaphthene	20000	500000	17300		50	5130		5	**61300**		250	**96800**		100
Acenaphthylene	100000	500000	4020		5	1790		5	**28100**		250	**4030**		2
Acetophenone	NS	NS	<28		5	<31		5	<35		5	<27		2
Anthracene	100000	500000	22800		50	13400		5	**90600**		250	**80200**		100
Atrazine	NS	NS	<31		5	<35		5	<39		5	<30		2
Benzo(a)anthracene	1000	5600	**23800**		50	**32500**		25	**99300**		250	**56000**		100
Benzo(a)pyrene	1000	1000	**17200**		50	**26500**		25	**79200**		250	**39900**		100
Benzo(b)fluoranthene	1000	5600	**14400**		5	**30000**		25	**79700**		250	**34500**		100
Benzo(g,h,i)perylene	100000	500000	7830		5	12200		5	**37200**		250	**12900**		2
Benzo(k)fluoranthene	800	56000	**8800**		5	8230		5	**46100**		250	**31600**		100
4-Bromophenyl phenyl ether	NS	NS	<58		5	<64		5	<73		5	<55		2
Butyl benzyl phthalate	NS	NS	<92		5	<100		5	<120		5	<87		2
1,1'-Biphenyl	NS	NS	3060		5	787		5	47200		250	14700		2
Benzaldehyde	NS	NS	<37		5	<41		5	<46		5	<35		2
2-Chloronaphthalene	NS	NS	<49		5	<55		5	<62		5	<47		2
4-Chloroaniline	NS	NS	<51		5	<56		5	<64		5	<48		2
Carbazole	NS	NS	6700		5	2810		5	57200		250	13100		2
Caprolactam	NS	NS	<50		5	<55		5	<63		5	<48		2
Chrysene	1000	56000	**21300**		50	**29900**		25	**88500**		250	**51500**		100
bis(2-Chloroethoxy)methane	NS	NS	<64		5	<71		5	<81		5	<61		2
bis(2-Chloroethyl)ether	NS	NS	<48		5	<53		5	<60		5	<45		2
bis(2-Chloroisopropyl)ether	NS	NS	<47		5	<52		5	<59		5	<45		2
4-Chlorophenyl phenyl ether	NS	NS	<48		5	<53		5	<60		5	<45		2
2,4-Dinitrotoluene	NS	NS	<69		5	<77		5	<87		5	<66		2
2,6-Dinitrotoluene	NS	NS	<60		5	<67		5	<76		5	<58		2
3,3'-Dichlorobenzidine	NS	NS	<40		5	<45		5	<51		5	<38		2
Dibenzo(a,h)anthracene	330	560	**5010**		5	**7170**		5	**20100**		250	**6520**		2
Dibenzofuran	7000	350000	**17000**		50	4250		5	**119000**		250	**80400**		100
Di-n-butyl phthalate	NS	NS	<35		5	<39		5	<44		5	<34		2
Di-n-octyl phthalate	NS	NS	<77		5	<86		5	<97		5	<74		2
Diethyl phthalate	NS	NS	<54		5	<60		5	<68		5	<51		2
Dimethyl phthalate	NS	NS	<56		5	<62		5	<70		5	<53		2
bis(2-Ethylhexyl)phthalate	NS	NS	<140		5	<160		5	<180		5	<130		2
Fluoranthene	100000	500000	52600		50	64000		25	**291000**		250	**155000**		100
Fluorene	30000	500000	22600		50	5900		5	**142000**		250	**101000**		100
Hexachlorobenzene	330	330	<52		5	<57		5	<65		5	<49		2
Hexachlorobutadiene	NS	NS	<44		5	<49		5	<56		5	<42		2
Hexachlorocyclopentadiene	NS	NS	<160		5	<180		5	<200		5	<150		2
Hexachloroethane	NS	NS	<44		5	<49		5	<56		5	<42		2
Indeno(1,2,3-cd)pyrene	500	5600	**8060**		5	**12400**		5	**37900**		250	**13000**		2

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-31 (7-7.5) JA93266-4 11/30/2011			B-HS (7-7.5) JA93266-5 11/30/2011			GC-7 UST 1 (8-8.5)' JA93100-1 11/29/2011			GC-8 UST 2 (9-9.5)' JA93100-2 11/29/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)														
Isophorone	NS	NS	<43		5	<47		5	<54		5	<41		2
2-Methylnaphthalene	NS	NS	17900		50	1890		5	233000		250	175000		100
2-Nitroaniline	NS	NS	<70		5	<78		5	<88		5	<66		2
3-Nitroaniline	NS	NS	<63		5	<70		5	<80		5	<60		2
4-Nitroaniline	NS	NS	<62		5	<69		5	<78		5	<59		2
Naphthalene	12000	500000	**78800**		50	3870		5	**1430000**		500	**377000**		100
Nitrobenzene	NS	NS	<46		5	<51		5	<58		5	<44		2
N-Nitroso-di-n-propylamine	NS	NS	<39		5	<43		5	<49		5	<37		2
N-Nitrosodiphenylamine	NS	NS	<95		5	<110		5	<120		5	<90		2
Phenanthrene	100000	500000	77800		50	47500		25	**467000**		250	**262000**		100
Pyrene	100000	500000	46000		50	62600		25	**217000**		250	**128000**		100
1,2,4,5-Tetrachlorobenzene	NS	NS	<49		5	<54		5	<61		5	<46		2
Total TIC, Semi-Volatile	NS	NS	474912			372827			192500	J	5	430400	J	2
Aldrin	5	680	<0.33		1	<0.36		1	NA			NA		
2,4-D	NS	NS	NA			NA			NA			NA		
alpha-BHC	20	3400	<0.49		1	11.1		1	NA			NA		
2,4,5-TP (Silvex)	3800	500000	NA			NA			NA			NA		
beta-BHC	36	3000	<0.46		1	<0.51		1	NA			NA		
2,4,5-T	NS	NS	NA			NA			NA			NA		
Dalapon	NS	NS	NA			NA			NA			NA		
delta-BHC	40	500000	<0.38		1	<0.42		1	NA			NA		
Dicamba	NS	NS	NA			NA			NA			NA		
Dichloroprop	NS	NS	NA			NA			NA			NA		
gamma-BHC (Lindane)	100	9200	<0.30		1	<0.33		1	NA			NA		
Dinoseb	NS	NS	NA			NA			NA			NA		
MCPA	NS	NS	NA			NA			NA			NA		
MCPP	NS	NS	NA			NA			NA			NA		
Pentachlorophenol	800	6700	NA			NA			NA			NA		
2,4-DB	NS	NS	NA			NA			NA			NA		
alpha-Chlordane	94	24000	<0.43		1	<0.47		1	NA			NA		
gamma-Chlordane	NS	NS	<0.33		1	<0.37		1	NA			NA		
Dieldrin	5	1400	<0.51		1	<0.56		1	NA			NA		
4,4'-DDD	3.3	92000	**16.9**		1	<0.37		1	NA			NA		
4,4'-DDE	3.3	62000	<0.39		1	<0.43		1	NA			NA		
4,4'-DDT	3.3	47000	**117**		4	**98.6**		4	NA			NA		
Endrin	14	89000	<0.33		1	<0.37		1	NA			NA		
Endosulfan sulfate	2400	200000	<0.59		1	<0.66		1	NA			NA		
Endrin aldehyde	NS	NS	<0.62		1	<0.69		1	NA			NA		
Endosulfan-I	2400	200000	<0.32		1	<0.35		1	NA			NA		
Endosulfan-II	2400	200000	<0.43		1	<0.48		1	NA			NA		
Heptachlor	42	15000	<0.40		1	<0.44		1	NA			NA		
Heptachlor epoxide	NS	NS	<0.32		1	<0.36		1	NA			NA		
Methoxychlor	NS	NS	<0.46		1	<0.51		1	NA			NA		
Endrin ketone	NS	NS	<0.42		1	<0.47		1	NA			NA		
Toxaphene	NS	NS	<8.2		1	<9.1		1	NA			NA		
Aroclor 1016	100	1000	<8.5		1	<9.4		1	<11		1	<17		1
Aroclor 1221	100	1000	<20		1	<22		1	<25		1	<39		1
Aroclor 1232	100	1000	<17		1	<18		1	<21		1	<32		1
Aroclor 1242	100	1000	133		1	<12		1	<13		1	<20		1
Aroclor 1248	100	1000	<9.9		1	<11		1	<13		1	<20		1
Aroclor 1254	100	1000	<15		1	<17		1	<19		1	<30		1
Aroclor 1260	100	1000	**754**		1	**359**		1	**313**		1	<21		1
Aroclor 1268	100	1000	<9.6		1	<11		1	<12		1	<19		1
Aroclor 1262	100	1000	<10		1	<12		1	<13		1	<20		1

Table 14
Queens West, Parcel 8
Post-Excavation Soil Results
BCP No. C241087

Client ID Lab Sample ID Date Sampled	NY Soil Cleanup Unrestricted Use	NY Soil Cleanup Commercial Use	B-31 (7-7.5) JA93266-4 11/30/2011			B-HS (7-7.5) JA93266-5 11/30/2011			GC-7 UST 1 (8-8.5)' JA93100-1 11/29/2011			GC-8 UST 2 (9-9.5)' JA93100-2 11/29/2011		
			Result	Q	D	Result	Q	D	Result	Q	D	Result	Q	D
GC/MS Volatiles (ug/kg)														
Metals Analysis (mg/kg)														
Aluminum	NS	NS	7620		1	6960		1	9330		1	8170		1
Antimony	NS	NS	<2.3		1	<2.4		1	<2.7		1	<2.6		1
Arsenic	13	16	6.3		1	**48.4**		1	12.3		1	4.8		1
Barium	350	400	87.2		1	52.6		1	174		1	46.6		1
Beryllium	7.2	590	0.36		1	<0.24		1	0.67		1	0.48		1
Cadmium	2.5	9.3	<0.58		1	<0.59		1	<0.69		1	<0.65		1
Calcium	NS	NS	49400		1	2290		1	20300		1	4930		1
Chromium	NS	NS	12.8		1	12.6		1	19.8		1	12.9		1
Cobalt	NS	NS	<5.8		1	<5.9		1	<6.9		1	<6.5		1
Copper	50	270	38.3		1	26.2		1	**51.9**		1	19.1		1
Iron	NS	NS	12700		1	21200		1	19600		1	15700		1
Lead	63	1000	**91.4**		1	**71.3**		1	**116**		1	39.1		1
Magnesium	NS	NS	13700		1	2380		1	5260		1	3320		1
Manganese	1600	10000	194		1	112		1	254		1	155		1
Mercury	0.18	2.8	**0.51**		**1**	**0.31**		**1**	**0.74**		1	**0.19**		1
Nickel	30	310	12.1		1	15.1		1	20.3		1	14.4		1
Potassium	NS	NS	1260		1	<1200		1	1700		1	<1300		1
Selenium	3.9	1500	<2.3		1	**5**		1	<2.7		1	<2.6		1
Silver	2	1500	<0.58		1	<0.59		1	<0.69		1	<0.65		1
Sodium	NS	NS	<1200		1	<1200		1	1860		1	<1300		1
Thallium	NS	NS	<1.2		1	<1.2		1	<1.4		1	<1.3		1
Vanadium	NS	NS	22.5		1	16.4		1	28.5		1	17.1		1
Zinc	109	10000	**181**		1	70.1		1	**204**		1	78.2		1
General Chemistry														
Solids, Percent (%)	NS	NS	90.0		1	81.1		1	71.5		1	77.9		1

Notes:
Soil cleanup standards refer to the New York State Dept. of Env. Cons Part 6.8 rules for Unrestricted and Commercial use
NS - No standard
Bold values exceed the Unrestricted Use Standards.
Bold and Highlighted values exceed the Commercial Use Standards.
J - Estimated value detected above quantitative method detection limit & below the quantitative reporting detection limit (RDL).
D - Dilution factor
NA - Not analyzed