Queens West Development – Parcel 9

QUEENS, NEW YORK

Off-Site Investigation Report

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1.0 INTRODUCTION

The Queens West Development is a project of the Queens West Development Corporation (QWDC), a subsidiary of New York State's Empire State Development Corp., under the collective sponsorship of The Port Authority of New York and New Jersey, The New York City Economic Development Corporation, and Empire State Development Corporation. The overall Queens West Development site comprises 74 acres along the East River in Hunters Point, Queens, extending from Anable Basin to the north to Newtown Creek to the south (Figure 1). Stage I of the development involves construction of residential buildings on the portion of the site between 47th Road and 50th Avenue. The development sites in this area have been designated Parcels 8, 9, 10, and 11 (Figure 2).

In August 1998, a Voluntary Cleanup Agreement was entered into between New York State Department of Environmental Conservation (NYSDEC) and QWDC. This agreement covered Parcels 8, 9, and 11 and the portion of Center Boulevard between Parcels 8 and 9. In July 2000, the Voluntary Cleanup Agreement was amended to allow it to be separated into separate agreements for each parcel, which would be executed by the designated developer for the parcel. Accordingly, after AvalonBay Communities, Inc. (AvalonBay) was selected as the developer of Parcels 8, 9, and 11, AvalonBay executed separate agreements for each of the three parcels in September 2000. In March 2004, AvalonBay requested that DEC transition Parcels 8 and 9 into the Brownfields Cleanup Program.

Parcel 9 is currently undergoing remediation as specified in the Remedial Action Work Plan (RAWP), dated August 2005. This Off-Site Investigation was performed to identify and characterize potential soil and groundwater contamination in the off-site area downgradient from Parcel 9, which includes Parcel 8 and a portion of Center Boulevard, as shown on Figure 3.

2.0 SITE DESCRIPTION

2.1 Site Location

Parcel 9 is located in the Hunters Point section of Queens, New York. The parcel is bounded by 5th Street on the east, 48th Avenue on the south, Center Boulevard on the west, and 47th Road on the north. The Parcel 9 Off-Site Investigation area includes: Parcel 8, which is across Center Boulevard to the west of the Parcel 9; Center Boulevard roadway and sidewalks between 47th Road and 49th Avenues; and 48th Avenue sidewalks and roadway located adjacent to the southwestern corner of Parcel 9 (see Figure 3).

2.2 Site and Vicinity Characteristics

Both Parcels 8 and 9 are vacant; all former structures having been demolished in 2001. Parcel 9 is currently undergoing remediation and construction activities and is surrounded by construction fencing and barriers. Parcel 8 is surrounded by chain link fence on its northern, eastern, and western sides, and by wooden barriers on its southern side. Parcel 10, located across 48th Avenue south of the site, is occupied by a high-rise residential building (a.k.a., Citylights), which also includes a public elementary school, P.S. 78, and a day care center. The area between Parcel 8 and the East River is Gantry Plaza State Park. A portion of Gantry Plaza State Park is located to the south of Parcel 8. The East River is located roughly 300 feet west of the site. The area north of the site, across 47th Road, is currently undergoing construction activities for high-rise residential buildings.

2.3 Nearby Public Areas of Concern

There is a high-rise residential building and a public elementary school south of Parcel 9, across 48th Avenue. Peninsular Park, a portion of the Queens West waterfront park, is located immediately west and south of Parcel 8, about 200 feet from Parcel 9. The area east of the site contains a mix of light industrial, commercial, and residential uses.

2.4 Description of Contemplated Site Use

The proposed development on Parcel 9 is a high-rise residential building, which would be located on the western half of the site. A multi-level parking garage would occupy the eastern half of the site. Neither structure would have a basement or any subgrade levels. Proposed development on Parcel 8 has not been finalized at this time, but could include a park ranger station, a public library, and/or a residential apartment building.

2.5 Site History

The history of the site and the surrounding area is summarized in the Hunters Point Development Final Environmental Impact Statement (June 1990). Hunters Point area was originally a rocky outcrop surrounded by low-lying marshlands and tidal meadows. Filling of the wetlands and development of the area began in the mid-19th century. Starting around 1890, the area became a major industrial center. Historic Sanborn insurance maps show the following uses on Parcel 9 and adjacent areas, including Center Boulevard and Parcel 8 to the west:

Historical On-Site and Area Uses

Year	Parcel 9	Adjacent Areas
1898	Lawson-Valentine Boiler Works	West – Warren Chemical Co. (Parcel 8 and Center Blvd.) North – vacant, small commercial bldgs East – manufacturing, commercial, residential South – Barber Asphalt
1915	Edward Smith Varnish Works Blau Gas Company of America Barber Asphalt	West – vacant North – National Varnish Co. East – manufacturing, commercial, residential South – railyards
1936	Edward Smith Varnish Works Harlem Chemical Co. Stanley Barrel Corp. Crest Mfg – Plumbers Supplies Kelly Dry Ginger Ale Corp.	West – Liquid Carbonic Corp. (Parcel 8 and Center Blvd.) North – Quimby Corp East – manufacturing, commercial, residential South – railyards
1950	Paint and Varnish Works Harlem Chemical Co. Refrigeration Equip. Mfr. Crest Mfg – Plumbers Supplies Auto Repair.	West – Liquid Carbonic Corp. (Parcel 8 and Center Blvd.) North – Buchman Spark Wheel Mfr., Mfr. of Detergents and Insecticides East – manufacturing, commercial, residential South – railyards
1970	Hub Paint Works Adam Metal Supply	West – Metal Storage Warehouse North – Buchman Spark Wheel, Mfr., Mfr. of Detergents and Insecticides East – manufacturing, commercial, residential South – railyards

1979	Vacant Charles Offset Co.	West – Hallen Contractors North – Buchman Spark Wheel Mfr., Mfr. of Detergents and Insecticides East – manufacturing, commercial, residential South – railyards
1988	Vacant Charles Offset Co.	West – Hallen Contractors North – Buchman Spark Wheel Mfr., Mfr. of Detergents and Insecticides East – manufacturing, commercial, residential South – railyards
1996	Vacant Charles Offset Co.	West – Hallen Contractors North – Buchman Spark Wheel Mfr., Mfr. of Detergents and Insecticides East – manufacturing, commercial, residential South – vacant

In summary, the eastern end of Parcel 9 was occupied by varnish or paint manufacturers from sometime prior to 1915 until the 1970's. It has been mostly vacant since that time. The western portion of Parcel 9 has been occupied by a variety of manufacturing uses. The Blau Gas Company of America occupied a portion of the site in 1915, but was gone by 1936. The Blau Gas process involved "cracking" petroleum to increase the concentrations of the lighter fractions, which were then distilled off, purified, and compressed into cylinders. The waste from this type of process would be a petroleum-product distinguishable from MGP wastes derived from coal. The Blau Gas plant on the site was a small facility which occupied only about a one-half acre portion of the site, and is not comparable to a typical MGP facility either in the type of process or the scale of operations. Other historic uses on the western portion of Parcel 9 include: an asphalt company; the Harlem Chemical Company, which apparently manufactured insecticides; a plumbing supply manufacturer; a refrigeration equipment manufacturer; a barrel manufacturer; and an auto repair shop.

The majority of Parcel 8, Center Boulevard and a small portion of the western side of Parcel 9 was occupied by the Warren Chemical Company, a manufacturer of roofing and paving materials in 1898. By 1915, the former Warren Chemical site was vacant. From 1936 through 1950, this area was occupied by the Liquid Carbonic Company, which produced carbon dioxide gas for soda fountains. A construction company used this site from the 1970s until the buildings were demolished in the 1990s.

2.6 Off-site History

Most of the area to the south of Parcels 8 & 9 was occupied by rail yards since the early development of Hunters Point in the 19th century. The area directly south of the site (on the south side of what is now 48th Avenue) was occupied by an asphalt paving company in 1898, but the rail yards were expanded to occupy this area by 1915.

The adjacent area to the north (across what is now 47th Road) has been used historically for a variety of manufacturing operations. The New York Mastics Company was in this area in 1898. From 1915 through 1936, the area was occupied by a varnish company. Later uses included Eagle Paint and Varnish Works, the Tempo Chemical Company, a manufacturer of industrial sanitary and chemical products, and the Buchmann Sparkwheel Corporation, a manufacturer of machine products.

2.7 On-site Geology, Hydrogeology and Subsurface Characteristics

Mueser Rutledge Consulting Engineers performed a geotechnical study on Parcel 9, the results of which are reported in a Geotechnical Report dated May 25, 2004. The study included 37 soil borings to bedrock and the installation of two piezometers to monitor groundwater levels. The Mueser Rutledge report indicates that the top 10 to 12 feet of soil on the parcel was miscellaneous fill. This was underlain in most borings by a layer of alluvial sand up to 17 feet thick. About two-thirds of the borings encountered a stratum of soft gray organic silty clay, representing old marsh deposits. The organic deposits were generally less than 10 feet thick, and were found directly below the fill at some locations, and interlayered with the sand stratum at others. Below the sand and organic deposits was a layer of glacial till up to 30 feet thick. This consisted of compact fine to coarse sand with some gravel, silt, clay, clay pockets, and boulders. The surface of the till was found at an elevation of -10 to -12 feet (Queens Borough Datum) over most of the parcel, dipping sharply to a depth of -30 feet in the southwest corner of the parcel. Bedrock was encountered at elevation -20 to -30 over most of the parcel, dipping in the southwest corner, to a minimum elevation of -55 feet.

Ground water studies performed by TRC Engineers in publicly accessible off-site areas north and west of Parcel 9 indicated local groundwater flowing towards a depression in 47th Road, about 150 feet west of 5th Street. The groundwater surface elevation at that location was about -2.4 feet, rising to about -0.5 feet near the corner of 47th Road and Center Boulevard, and to -1.0 feet on 48th Avenue. The groundwater depression in 47th Road was also noted in the studies performed by AKRF in 1989. The ground water elevations observed by AKRF during the Supplemental Remedial Investigation (RI) in 2005 indicate a general flow towards the west or southwest. Groundwater studies performed elsewhere in the Queens West area also have shown groundwater flow to the west, towards the East River, with some tidal influence at locations close to the river. The groundwater elevations observed in this study show different flow patterns that are consistent with the data previously documented by TRC and AKRF (see Section 4.2).

2.8 On-Site Contamination

2.8.1 Previous Studies

Several environmental studies of Parcel 9 have been conducted between 1985 and 2005 to identify and characterize subsurface contamination resulting from historic on-site and off-site uses. Soil and groundwater sampling programs were performed on the site in 1985, 1986, and 1989 as part of assessments of the entire Queens West Development area (then known as the Hunters Point Waterfront Development). The results are reported in the Final Environmental Impact Statement, Hunters Point Waterfront Development, dated June 1990. Testing performed by AKRF in 1998 is reported in Site Assessment Report, Queens West Development Site, Parcels 8 and 9, Queens, New York, dated June 1998. This additional testing was requested by NYSDEC, which reviewed and approved the work plan. In 2000, when it was possible to gain access to the interiors of the buildings on Parcel 9, a supplemental sampling program was performed, following a sampling protocol approved by NYSDEC (Supplemental Site Assessment Report, Queens West Development Site, Parcel 9, Building Interiors, Queens, New York, dated September 2001). When the buildings on Parcel 9 were demolished in September-October 2000, two steel vaults set in concrete full of oily water, sludge and debris were discovered. A spill (00-0618) was reported for the site and the steel vaults and the concrete surrounding them were removed.

A Supplemental Remedial Investigation (RI) was performed by AKRF on Parcel 9 in 2005 (Supplemental Remedial Investigation Report, April 2005). The investigation was intended to assess potential contamination from the Blau Gas manufacturing facility, which was located on the western portion of Parcel 9 of the Queens West Development area around 1915, and to provide the data required for development of a Supplemental Remedial Work Plan. Following completion of the Supplemental RI, additional testing was performed to better delineate the horizontal and vertical extent of soil contamination (Additional Delineation Testing Report, Queens West Development Parcel 9, prepared by ARKF, dated June 2005). The locations of soil borings and monitoring wells installed on Parcel 9 during the Supplemental Remedial Investigation and Additional Delineation Testing are shown on Figure 3.

2.8.2 Soil Contamination

Cumulative results from the previous studies on Parcel 9 indicated the presence of two separate types of soil contamination on the site. Petroleum contamination, including the presence of light non-aqueous phase liquid (LNAPL) was centered in the north-central portion of the site. A vault containing underground storage tanks was found in this area during the Supplemental Remedial Investigation. Coal tar contamination, including the presence of dense non-aqueous phase liquid (DNAPL), was found in the southwestern corner of the site, and along the western boundary of the site adjacent to Center Boulevard.

The petroleum-contaminated soil was characterized by high levels of benzene, toluene, ethylbenzene, and xylenes (BTEX), as well as other relatively light, monocyclic hydrocarbons, including cyclohexane and methylcyclohexane. Naphthalene was present in the petroleum-contaminated soil, but at lower levels than the monocyclic compounds. The heavier polycyclic aromatic hydrocarbons (PAHs) were present at relatively low concentrations (except for samples from the historic fill layer). The petroleum-contaminated soils were also characterized by low fluoranthene/pyrene and dibenzofuran/fluorene ratios (less than 1.0), as is typical of petroleum-derived products which have not been subjected to heat treatments.

An area of deep contamination was identified in the southwestern corner of the site where DNAPL was found. This area corresponds to a low point in the lower confining layer (till or clay) where it is not unexpected that DNAPL would tend to accumulate. A second area of coal tar contamination was identified further north along the western boundary of the site, around sampling locations S-1 and P-2. The coal tar-contaminated soil was characterized by high levels of naphthalene and 2-methylnaphthalene, with BTEX present, but at lower levels than naphthalene. The coal tar-contaminated soils were also characterized by higher fluoranthene/pyrene and dibenzofuran/fluorene ratios.

The surface soils on the site were characterized as historic fill material incorporating ash as well as brick, concrete, and other demolition debris. The fill contained higher and more variable concentrations of metals and heavy PAHs than the underlying native soils. Metals were detected generally at concentrations typical of soil background levels. Above-background concentrations of mercury were detected in a few soil samples. However, these appeared to be randomly distributed in the fill. In general, BTEX, naphthalene, and total semivolatile organic compound (SVOC) concentrations were below their respective RSCOs in fill material overlying the hydrocarbon-contaminated

soil in the western portion of the site and above the native soil in the eastern portion of the site (outside of the area of hydrocarbon contamination).

2.8.3 Groundwater Contamination

Petroleum and coal tar-related volatile and semivolatile organic compounds were present at elevated levels in groundwater samples from wells in the northwest quadrant of Parcel 9, and in the area of coal tar contamination at the southwestern corner and along the western edge of the parcel. The most common compounds detected were BTEX and naphthalene, and 2-methylnaphthalene. In general, the higher levels of naphthalene were associated with the coal tar contamination along the western edge of the site, and the higher levels of benzene were associated with the petroleum contamination in the north-central portion of the site. Metals were generally either not detected or detected at concentrations well below the Class GA groundwater standards. PCBs and pesticides were not detected in any of the groundwater samples analyzed.

2.9 On-Site Remediation

Remediation of the petroleum and coal tar contamination identified on Parcel 9 commenced in August 2005. The remediation was conducted in accordance with the approved Remedial Work Plan (RWP), dated May 2005 (Revised August 2005). The selected remedy consisted of excavating all soil containing contaminant concentrations exceeding the Site Specific Soil Action Levels (SSSALs), with soil excavation conducted under a temporary containment structure equipped with an air handling system to control fugitive odors and dust. The remedy also included installation of a permanent subsurface containment wall, constructed of steel sheet piles driven into the low permeability till layer, to facilitate soil removal and isolate the site from off-site contamination (see Figure 3). The remediation program also included pumping out and removing several underground storage tanks that were discovered during soil excavation activities.

Excavation and off-site disposal of all contaminated soil from within the containment wall was completed on March 30, 2006. During remediation activities, soil excavation was terminated generally at the till layer based on field screening indicating the end of gross contamination and technical limitations of excavating the till, which consisted of densely packed clay, silt, and gravel, and contained numerous cobbles and boulders. Contaminated soil was removed from the southwestern portion of the excavation to the top of a dense clay layer at approximately 27 to 34 feet below grade, on top of the till layer. DNAPL was observed in an approximately six-inch interval in sandy material just above the clay layer, indicating that the clay was acting as a confining layer preventing downward migration of DNAPL in this portion of the site. These observations were consistent with findings from the Supplemental Remedial Investigation, which identified DNAPL in monitoring wells in the southwestern corner of the parcel.

As of this writing, the Parcel 9 excavation area has been backfilled with imported sand, and construction activities for the planned high-rise residential building have commenced. Portions of the remedy that still remain to be completed include: installation of a vapor mitigation system under the proposed building slab; installation of soil borings around the perimeter of the containment wall to collect post excavation soil samples; and preparation of a Remedial Action Report and Site Management Plan.

3.0 FIELD ACTIVITIES

Field work for the Off-site Investigation was performed in accordance with the Off-site Investigation Work Plan, which was finalized on August 2, 2005 based on a comments received from the NYSDEC on Ju1y 7, 2005. Soil gas sampling was performed in accordance with the June 30, 2005 Soil Gas Sampling Work Plan, which was approved by the NYSDEC on July, 1 2005. This section provides a description of work performed, any deviations from the work plans, and the rationale for those deviations. Sampling locations are shown on Figure 3.

3.1 Soil Gas Sampling

On July 8, 2005, thirteen soil gas sampling points (SG-1 through SG-13) were installed by Zebra Environmental of Lynbrook, New York at locations shown on Figure 3. The points consisted of six-inch long stainless steel perforated sampling ports connected to new, clean ⅛-inch inside diameter polyethylene sampling tubing. The sampling points were installed by advancing an expendable drive tip using a direct push probe (DPP) to approximately four feet below grade. The stainless steel sampling port with connected tubing was installed through the push probe rods and threaded into the drive point. The push probe rods were then removed and the boring was backfilled with approximately 6-inches of sand around the sample port. Bentonite chips were placed above the sand pack to just below the ground surface to provide a seal and prevent short-circuiting via the surface. All soil gas sampling points were completed with a flush-with-grade 3-inch diameter road box with an expandable plug.

Soil gas samples were collected from the sampling points on July 11 and 12, 2005. Prior to collecting a sample, each sampling assembly was purged of at least one liter of air by pumping at an approximate flow rate of 0.1 liters per minute for at least ten minutes. This process ensured that a minimum of one volume of the overall sampling train was purged, and a representative sample collected. During purging, a plastic shroud was placed over the sampling point and a flow of helium gas was introduced at the ground surface near the top of the soil gas sampling point (inside the road box). The Tedlar bag containing the purged air was analyzed in the field using a Marks Model 9822 helium detector to check for short-circuiting of outside air into the sampling port.

Following purging, soil gas samples were collected at each point by connecting the sample tubing to a one-liter Summa canister equipped with a vacuum gauge and flow regulator set to collect a one-liter sample over a 30-minute sampling period. Vacuum readings were taken before and after sample collection. All Summa canisters were placed in a shipping carton, sealed for shipment, and delivered to the STL Burlington in Colchester, Vermont to be analyzed for VOCs using EPA Method TO-15. Soil gas sampling logs are included in Appendix A.

During soil gas sampling activities, two ambient air samples were collected (AS-1, located on the southern side of 47th Road, and AS-2, located on the southern side of 48th Avenue) to determine background air concentrations. The ambient air samples were collected over a 30-minute period using one-liter Summa canisters.

On August 2, 2005, a second soil gas sample was collected from soil gas sampling point SG-11 using the same procedures described above. This sample was collected to confirm analytical results from the initial sample collected at this location, as described in Section 4.4.1.

3.2 Soil Sampling

Soil sampling was performed between September 8, 2005 and October 28, 2005. Boring SB-23 was not completed because it was located between the construction fencing and aboveground

portion of the sheet pile wall on Parcel 9, and was, therefore, not accessible to the drill rig. Drilling of this boring will be completed during the perimeter post-excavation closure sampling scheduled to be conducted upon completion of the Parcel 9 remediation activities. Soil boring/monitoring well SB-8/MW-8 could not be installed at its planned location due to the presence of mounded fill material mixed in with some concrete and other construction and demolition (C&D) debris in the northeastern portion of Parcel 8. Therefore, SB/MW-8 was relocated to the Center Boulevard sidewalk just outside of the northeastern corner of the Parcel 8 fence. All other soil borings and monitoring wells were installed at their planned locations. Table 1 provides a summary of soil boring depths, sampling intervals, and observations. Soil boring logs are provided in Appendix B.

Between September 12, 2005 and September 28, 2005, Aquifer Drilling and Testing Inc. (ADT), of New Hyde Park, New York, advanced borings SB-1 through SB-10 at locations shown on Figure 3. A hollow-stem auger (HSA) rotary rig fitted with 6.25-inch outside diameter augers was used to advance the soil borings into the subsurface, and soil samples were collected by driving a two-foot split-spoon sampler through the augers.

Between September 8, 2005 and October 28, 2005, Environmental Probing Investigations, Inc. (EPI) of Cream Ridge, New Jersey, advanced borings SB-11 through SB-22, and SB-24 at locations shown on Figure 3. The borings were advanced using a direct-push probe rig. Soil samples were collected on a continuous basis using a 4-foot long, 2-inch diameter, macrocore piston rod sampler fitted with an acetate liner.

Each sample was logged by AKRF field personnel by describing the soil according to the modified Burmister Classification System; describing any evidence of contamination (e.g., oil-like or tar-like NAPL, staining, sheens, odors); and screening for organic vapors using a photoionization detector (PID). The borings were advanced to a depth of five feet below the surface of the glacial till layer, or to refusal, whichever was shallower. Shallow refusal on suspected concrete or metal was encountered at approximately 3.5 to 4 feet below grade in soil borings SB-11, SB-12, and SB-22; therefore, these borings could not be completed to the planned depths.

In general, two soil samples from each probe were selected for laboratory analysis based on PID response and visual and olfactory indications of contamination. In the absence of contamination, soil samples from the vadose and saturated zones were collected immediately above and below the water table, respectively. Due to shallow refusal, only one sample from above the water table was selected for laboratory analysis from SB-22, and no samples from SB-11 or SB-12 were sent for laboratory analysis.

The soil samples were collected into laboratory-supplied containers, sealed and labeled and placed in a chilled cooler. The samples were analyzed by Severn Trent Laboratories, Inc. (STL) of Shelton, Connecticut, following NYSDEC Analytical Services Protocol (ASP) Category B deliverables. Samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, polychlorinated biphenyls (PCBs) by EPA Method 8081, pesticides by EPA Method 8082, and Target Analyte List (TAL) metals.

All sampling equipment (split spoons, probe rods, and macrocore samplers) were decontaminated between sampling locations. The decontamination procedure included scrubbing the equipment using tap water/Simple Green® mixture and a bristle brush, rinsing with tap water, scrubbing again with tap water/Simple Green® mixture, rinsing with tap water and then rinsing with distilled water.

3.3 Test Pits

Excavation of 16 test pits (TP-1 through TP-16) was added to the scope of work to investigate the pile of fill material present in the northeastern portion of Parcel 8. Test pits were excavated on September 27, 2005, by Brookside Environmental of Baldwin, New York at locations shown on Figure 3. The fill pile was partitioned into 4 quadrants with three to four test pits excavated in each quadrant. The placement of test pits was chosen based on accessibility, vegetative overgrowth, and large pieces of concrete that rendered certain areas of the pile inaccessible. The test pits were excavated to approximately 3 to 6 feet below grade, depending on obstructions encountered and/or limitations of the excavator. The width of each test pit was 4 feet and the length ranged from 5 to 12 feet depending on obstructions and structural integrity of the test pit walls. Two types of soil samples were collected from the soil pile; composite samples were taken in each quadrant to characterize soil for possible reuse during future site development; and grab samples were taken from select test pits to identify potential hot spot areas. The samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8081, pesticides by EPA Method 8082, and TAL metals. Test pit logs are provided in Appendix C.

3.4 Well Installation and Groundwater Sampling

Between September 15, 2005 and September 22, 2005, soil borings SB-1 through SB-10 were retrofitted with monitoring wells at locations shown in Figure 3. The wells were installed to detect potential DNAPL and dissolved contaminants in groundwater. The wells were constructed with two-inch diameter PVC, with ten feet of 0.02 slotted screens installed above the top of the glacial till. A one-foot sump was fitted at the bottom of each well to provide a reservoir for potential DNAPL accumulation. The annular space around each well screen was backfilled with sand filter pack, extending from the bottom of the well to one foot above the screen. The annular space around the well riser was sealed with bentonite extending two feet above the sand filter pack and completed with a non-shrinking cement mixture to approximately one foot below grade. Monitoring wells were completed using locking, flush-with-grade gate boxes or stick-up steel casing, depending on their location. A concrete apron was set around each gate box or steel casing to prevent drainage of surface runoff toward the well. On September 23, 2005, each monitoring well was developed via over-pumping. The purge water was monitored for turbidity with measurements collected approximately every five minutes. Development was continued until turbidity was less than 50 nephelometric turbidity units (NTUs) for three successive readings or until at least five well volumes were removed. Table 2 provides a summary of monitoring well details. Monitoring well construction logs are provided in Appendix D.

Between October 4 and 7, 2005, groundwater samples were collected from the newly installed monitoring wells MW-1 through MW-10, and an existing wells installed by TRC along 47th road (TRC-MW-4D). A sample was not collected from TRC well TRC-MW-17, as specified in the work plan, because this well could not be located and was apparently covered during construction activities. All wells were sampled using low-flow methodology as described in the Work Plan. Groundwater samples were collected into laboratory-supplied containers, sealed, labeled and placed in a chilled cooler. The samples were analyzed for VOCs by EPA Method 8260 and SVOCs by EPA Method 8270. Well sampling logs are provided in Appendix D.

3.5 Site Survey

At the completion of sampling activities, the horizontal and vertical locations of the soil borings and monitoring wells were surveyed by In-Site Engineering, P.C. (In-Site), a New York State-

licensed surveyor. Two elevation measurements were taken at each well location: the elevation of the ground beside the well and the elevation of the top of PVC casing. Ground elevations were determined to an accuracy of 0.1 feet. Top of casing elevations were determined to an accuracy of 0.01 feet. During this survey, the elevations of the soil borings were also determined to an accuracy of 0.1 feet. All elevations were referenced to the Queens Borough Datum.

3.6 Fluid Level Measurements

On October 5 and November 15, 2005 the newly installed monitoring wells MW-1 through MW-10 and existing TRC well TRC-MW-4D were gauged to determine the depth to water, and to check for the presence of potential NAPL. Depth to groundwater and potential LNAPL was measured using an electronic oil/water interface probe attached to a measuring tape accurate to 0.01 feet. Depth to potential DNAPL was measured using a weighted measuring tape that was lowered to the bottom of each well.

3.7 Quality Assurance/Quality Control

In addition to laboratory analysis of field soil and groundwater samples, additional analysis was included for quality control measures. The quality control samples included one trip blank per sample shipment, and one equipment rinseate blank, one matrix spike/matrix spike duplicate (MS/MSD), and one set of blind duplicate samples per twenty field samples. The equipment blank, MS/MSD, and duplicate samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8081, pesticides by EPA Method 8082, and TAL metals. Equipment blanks were not submitted for analysis for TAL metals, PCBs, or pesticides if samples in the accompanying shipment were not submitted for those analyses. The trip blank samples were analyzed for VOCs using EPA Method 8260.

3.8 Management of Investigation Derived Waste

All investigation-derived waste (IDW) was containerized in DOT-approved 55-gallon drums as it was generated. The drums were sealed at the end of each workday and labeled with the date, the well or boring number(s), the type of waste (i.e., drill cuttings, development water, or purge water) and the telephone number of an AKRF point-of-contact. All drums were labeled "pending analysis" until laboratory data were available.

Analytical results from soil and groundwater samples collected from soil borings and monitoring well were used for waste characterization of the IDW. Based on the results, the liquid (monitoring well development and purge water) and soil cuttings were disposed of as non-hazardous, industrial waste at Clean Water of New York, Inc. in Staten Island, New York.

4.0 OFF-SITE INVESTIGATION RESULTS

4.1 Field Observations

Stained soils, odors, and/or elevated organic vapor headspace readings were recorded in all of the soil sampling locations except for in SB-4, SB-11 and SB-12. In most cases, there was no evidence of contamination in the top eight feet of soil. Contamination was observed to extend from the groundwater smear zone downward into the first few feet of the till layer or the top of the clay layer, which overlays the till in some areas. NAPL was detected in soil borings SB-1, SB-9, and SB-13 through SB-21 at depths ranging from 13 to 35 feet below grade. In general, NAPL was not observed at or above the water table. Coal tar-like odors were noted in most borings, with slight petroleum-like odors also reported in borings SB-2, SB-3, and SB-5, located in the southern portion of the study area.

Typical materials encountered in the test pits excavated on Parcel 8 included, but were not limited to brick concrete, boulders, plastic, wood, tires, rebar, sand and silt, cobbles, gravel, organics, coal, slag, and ash. No evidence of contamination, such as odors, visible staining, and/or product, was encountered.

4.2 Geology and Hydrogeology

Geological cross sections A-A' and B-B', constructed from the off-site investigation soil boring logs and data from previous investigations of Parcel 9, are depicted in Figures 4 and 5, respectively. The geological features identified by AKRF during the off-site subsurface investigation are consistent with investigations conducted at Parcel 9. The top 8 to 18 feet of soil on the off-site area is miscellaneous fill, which is underlain by a layer of sand and silt between 7 and 25 feet thick. Below the alluvial sand and silt is a layer of glacial till that consists of medium dense to dense, fine to coarse sand with some gravel, silt, and clay. A layer of dense silt and clay was observed on top of the till in borings SB-19, SB-20 and SB-21, located west of Parcel 9, along Center Boulevard and in SB-24, located along 48th Avenue near the southwestern corner of Parcel 9. Silt, organic silt, and peat were interlayered within the alluvial sand and silt unit in several borings located on Parcel 8 (SB-9, SB-7, SB-10, SB-13, SB-14, and SB-15), along the sidewalk on the western side of Center Boulevard (SB-6, SB-8, SB-16, and SB-17), and along 48th Avenue (SB-2 and SB-24).

Figure 6 shows elevation contours of the top of the till layer, which were constructed based on off-site investigation results and data from the May 2004 geotechnical investigation of Parcel 9 (elevations are feet based on the Queens Borough Datum). The contours indicate that the till surface in the project area dips towards a localized trough at an elevation between -26 and -28 feet, located at the southwestern corner of Parcel 9 and extending northward along Center Boulevard. This feature is also depicted in cross sections A-A' and B-B', which show a low point in the till surface located under Center Boulevard. Figure 6 indicates that a second low point is present in the till surface at an elevation of -22 in the central-western portion of Parcel 8 in the vicinity of soil borings SB-12, SB-13, and SB-15.

During fluid level monitoring conducted in October and November 2005, ground-water was encountered in the off-site monitoring wells at depths ranging from 7 to 13 feet below grade. The water-level measurements were used with top-of-casing survey data to calculate groundwater elevations in each well, as summarized in Table 3. Contour maps of the groundwater elevations measured on October 5 and November 15, 2005 are illustrated on Figures 7a and 7b, respectively. On October 5, 2005, the data indicates ground water generally flowed in a northwesterly direction beneath Parcel 8, changing to an easterly direction beneath Center Boulevard (Figure 7a). On November 15, 2005, the data indicates ground water flowed to the west beneath most the site, changing to a northerly flow beneath the northern portion of the project area (Figure 7b). The discrepancy in ground-water flow between measuring events is consistent with variations documented in previous studies completed in the area. A number of factors, including tidal influence, a disparity in screen depths for the monitoring wells, the permanent sheeting installed into the till layer at Parcel 9 and the dewatering operation during remedial action activities at Parcel 9, may have affected the natural gradient and ground-water flow direction beneath the project area. Overall, the data collected form the off-site investigation and previous investigations on adjacent properties and elsewhere in the Queens West area show a general flow to the west towards the East River, with some local intermittent variations due to tidal and other influences.

4.3 Non-Aqueous Phase Liquid

NAPL was not detected in any of the off-site monitoring wells during fluid level monitoring conducted in October and November 2005; however, NAPL was observed in soil samples collected from 11 of the 23 borings advanced in the off-site investigation area. In general, the observed NAPL was limited to the saturated zone and was located just above the low permeability silt/clay layer and lenses in borings located along Center Boulevard (SB-19, SB-20, SB-21) or extending into the organic silt/peat lenses observed in borings located in the southern and western portions of Parcel 8 (SB-9, SB-13, SB-14, and SB-15) and on the western side of Center Boulevard (SB-16 and SB-17). These observations are consistent with the DNAPL, which tends to sink within the saturated zone until encountering a low permeability layer which retards its downward migration. NAPL was found in the upper portion of the till layer in SB-18, located at the northern end of Center Boulevard, where the low permeability silt and clay were not observed. A map showing the estimated extent of off-site NAPL is provided in Figure 8. This figure also shows the approximate area of observed NAPL in the southwestern corner of Parcel 9, which was excavated and disposed of off-site as a part of Phase I remediation activities conducted between September 2005 and January 2006.

Select soil samples that were found to contain NAPL or sheen were submitted to Meta Environmental, Inc. in Watertown, Massachusetts for forensic analysis. The samples included soil collected from just above the till layer (28 to 30 feet below grade) in boring SB-15, located in the western portion of Parcel 8, and soil collected from just below the fill material (16 to 18 feet below grade) and from within the till layer (28 to 30 feet below grade) in SB-18, located at the northern end of Center Boulevard. The forensic analysis report, provided in Appendix E, indicates that all three samples were characteristic of coal tar that had undergone relatively little weathering.

4.4 Laboratory Analytical Results

All soil and groundwater samples were analyzed by STL Connecticut of Shelton, Connecticut, a New York State ELAP-certified laboratory. All soil gas samples were analyzed by STL Burlington of Colchester, Vermont. Both analytical laboratories are certified by the New York State ELAP program and analyses were conducted in accordance with New York State ASP methodology. Complete analytical results reports are provided in Appendix F. Full ASP Category B deliverables (in Adobe Acrobat® format) will be submitted under separate cover.

4.4.1 Soil Gas Samples

Laboratory analytical results for VOCs in soil gas are summarized in Table 4. Petroleum and coal tar related compounds were prevalent in several of the soil gas samples, with the highest concentrations detected in SG-3, located along the Center Boulevard sidewalk, near northwestern portion of Parcel 9. High concentrations of chlorinated compounds, including tetrachloroethene (PCE) at 3,900 ug/m^3, were detected in SG-11, located at the southeastern corner of Center Boulevard and 48th Avenue, adjacent to the Citilights residential apartment building. PCE was prevalent at relatively low concentrations (6 to 29 ug/m^3) in many of the sampling locations, with a higher concentration of 290 ug/m3 detected in SG-7, located along the 48th Avenue sidewalk, near the southeastern portion of Parcel 9. Several aromatic and aliphatic hydrocarbons were detected in the ambient air samples at relatively lower concentrations that are considered consistent with typical background conditions in an urban setting.

Confirmatory sampling was conducted for the SG-11 location on August 2, 2005, to determine if the initial chlorinated VOC results were anomalous. The results indicated elevated levels of chlorinated compounds, including a PCE concentration of 3,250 ug/m^3, confirming results from the initial sampling. The soil and groundwater data collected during previous investigations of Parcel 9 did not contain elevated concentrations of chlorinated VOCs, indicating that Parcel 9 is not the source of chlorinated compounds detected in the SG-11 soil gas sample.

4.4.2 Soil Boring Samples

Volatile Organic Compounds

Laboratory analytical results for VOCs in soil are summarized in Table 5. VOCs, including BTEX (petroleum-related compounds) and PCE, trichloroethene (TCE), and dichloroethylene (DCE) (chlorinated compounds), were detected at relatively low concentrations in shallow soil samples collected from above the water table in fill material. The concentration of xylenes in SB-14 (7-9) exceeded the NYSDEC RSCOs. The remaining VOC detections in the shallow soil samples were below their respective RSCOs. The VOCs concentrations in the unsaturated zone are typical of urban fill materials found at the site.

Soil samples collected from below the water table and within the sand and silt layer contained BTEX concentrations that exceeded their respective RSCOs. The soil samples collected from borings SB-1, SB-3, SB-7, SB-9, SB-13, SB-14, SB-15, SB-17, SB-18, SB-19, SB-20 and SB-21 contained total BTEX concentrations that exceeded 10 parts per million (ppm). The highest BTEX concentrations (exceeding 1,000 ppm) were detected in samples SB-20(28-30) and SB-21(20-22), which were observed to contain NAPL. The highest benzene concentration (28,000 ppb) was detected in the SB-3(11-13), which exhibited a slight petroleum-like odor.

Figure 9 illustrates the distribution of total BTEX concentrations in the soil samples. This figure indicates that high levels of BTEX are present in deep soil samples located on the southern half of Parcel 8, under the Center Boulevard roadway between Parcels 8 and 9, and near the southwestern corner of Parcel 9. Relatively lower BTEX concentrations were detected on the northern side of Parcel 8 in borings SB-8 and SB-10, and near the southern end of the study area in borings SB-2, SB-4, SB-5, SB-6, and SB-24. A relatively high total BTEX concentration of 129 ppm was detected in the deep sample from SB-3, which is located under the sidewalk on the southeastern corner of 48th Avenue and Center Boulevard, somewhat isolated from the other areas of contamination.

Methylene chloride, acetone, and/or 2-butanone were detected in soil samples at concentrations exceeding their respective RSCOs; however, these common laboratory contaminants were also detected in the associated laboratory method blanks and field blanks, and are not associated with the documented contamination. Additional suspected laboratory contaminants also were detected at low concentrations in both field samples and trip blanks, and likely are not associated with site-related contamination.

Semivolatile Organic Compounds

Laboratory analytical results for SVOCs in soil are summarized in Table 6. Individual SVOC concentrations exceeding their respective RSCOs were detected in soil samples throughout the project area. The detected SVOCs consisted primarily of polycyclic aromatic hydrocarbons (PAHs), a class of compounds present in petroleum products,

asphalt, and as byproducts of combustion that are often found in urban fill materials. Individual SVOCs exceeding their respective RSCOs were detected in all shallow soil samples collected at or above the water table. Five of the 21 shallow soil samples contained total SVOC concentrations in excess of 500 ppm [SB-13(4-6), SB-14(7-9), SB-15(4-6), SB-19(6-8) and SB-24(6-8)]. With the exception of SB-14 (7-9), the total SVOC concentrations in these samples were less than 1,000 ppm, consistent with urban fill material found elsewhere in queens west. SB-14 (7-9) contained 7,173 ppm of total SVOCs, indicative of a potential hot spot in the shallow fill material.

Soil samples collected from below the water table contained relatively higher SVOC concentrations, with total SVOC concentrations exceeding 500 ppm in 14 of 20 deep samples [SB-1(25-27), SB-3(11-13), SB-6(15-17), SB-7(17-19),SB-9(17-19), SB-13(14-16), SB-14(14-16), SB-15(16-18), SB-17(25-27), SB-18(12-14), SB-19(26-28), SB-20 (28-30), SB-21(20-22), and SB-24(18-20)]. The highest concentrations (4,960 to 27,000 ppm) were detected in samples SB-1(25-27), SB-13(14-16), SB-15(16-18) and SB-21(20-22), which were collected from the southwest corner of Parcel 9, the west-center of Parcel 8, and beneath Center Boulevard. The SVOCs detected in these deeper samples contained a notably higher percentage of the coal tar-related compounds naphthalene and 2-methylnapthalene. Field personnel also observed a coal tar-like odor and NAPL being present in the borings drilled in these areas. Individual SVOCs detected in SB-5(15-17), SB-8(17-19), SB-10(17-19), and SB-16(17-19) exceeded the RSCOs, but the total SVOC concentrations in these samples were below 500 ppm. No SVOCs were detected at concentrations above their respective RSCOs in SB-2(25-27), located south of Parcel 9 in the center of 48th Avenue or SB-4(19-21) located at the southern end of the off-site investigation area, in front of the public school entrance on Center Boulevard.

Figure 10 indicates that the distribution of naphthalene and 2-mehtylnaphthalene in soil is similar to the BTEX distribution, with the greatest levels of soil contamination located in deep samples in the southern portion of Parcel 8, under the Center Boulevard roadway, and near the southwestern corner of Parcel 9.

Metals

Laboratory analytical results for metals in soil are summarized in Table 7. Table 7 also provides the Eastern United States background ranges listed in TAGM 4046. Each of the 21 soil samples collected from the above the water table in the fill material exhibited concentrations of arsenic, copper, magnesium, mercury, zinc, chromium, nickel, selenium, and/or calcium above the respective upper limit of the Eastern United States background range. In general, concentrations were within an order of magnitude of the background levels. Lead was detected at a concentration of 586 ppm in SB-13(4-6), which slightly exceeds the typical urban background range of 200 to 500 ppm. No other shallow soil samples contained lead at a concentration exceeding 500 ppm. The detected metals can be attributed to slag and coal observed in fill materials at the site and/or naturally occurring metals in the region. Five of the 20 samples collected from native materials below the water table contained zinc or mercury concentrations that slightly exceeded the respective upper background limits.

PCBs and Pesticides

Laboratory analytical results for PCBs and pesticides in soil are summarized in Table 8. PCBs were detected in 18 of the 36 soil samples collected from the project area at concentrations ranging from 9.1 to 646 parts per billion (ppb), which are below the

NYSDEC RSCOs of 1,000 ppb for surface soil and 10,000 ppb for subsurface soil. All of the samples in which PCBs were detected, with the exception of SB-10(17-19) and SB-14 (14-16), were collected from the soil zone containing fill material. Trace concentrations of pesticides were detected in all but one [SB-4 (19-21)] of the soil samples analyzed. Samples SB-1(9-11), SB-1(25-27), SB-3(11-13), SB-5(5-7), SB-6(15-17), SB-13(4-6), SB-14(7-9), and SB-15(4-6) exhibited heptachlor epoxide concentrations between 24 and 130 ppb, which exceeded the RSCO of 20 ppb. Samples SB-1(9-11) and SB-1(25-29) exhibited dieldrin concentrations of 48 ppb and 81 ppb, respectively, which exceeded the RSCO of 44 ppb. All other detected pesticide concentrations were below their respective NYSDEC RSCOs.

4.4.3 Ground water Samples

Petroleum- and coal tar-related VOCs and SVOCs were present above their respective Ambient Water Quality Values (AWQVs) for Class GA groundwater listed in NYSDEC Division of Water Technical Operational and Guidance Series (TOGS) 1.1.1, in groundwater samples from all of the wells except MW-4, located at the southern end of the study area in from of the public school entrance, and MW-10, located in the northwestern corner of Parcel 8. Laboratory analytical results for VOCs and SVOCs in groundwater are summarized in Tables 9 and 10, respectively.

Volatile Organic Compounds

VOCs detected above their respective AWQVs consisted of BTEX, styrene, MTBE, methylene chloride, and acetone. Benzene was detected at concentrations ranging from 2.6 parts per billion (ppb) in MW-5 to 8,100 ppb in MW-7; toluene was detected at concentrations ranging from 0.31 ppb in TRC-MW-4 to 13,000 ppb in MW-9; ethylbenzene was detected at concentrations ranging from 1.3 ppb in MW-10 to 1,300 ppb in MW-7; and total xylenes were detected at concentrations ranging from 3 ppb in MW-5 to 4,700 ppb in MW-7. MTBE and styrene were detected at relatively lower concentrations of 2.3 to 7.7 ppb and 2.4 to 280 ppb, respectively.

The distribution of BTEX detected in groundwater is illustrated in Figure 11. The highest BTEX concentrations were detected in MW-1, MW-3, MW-6, MW-7 and MW-9, which are located near the intersection of Center Boulevard and 48th Avenue and at the southern portion of Parcel 8. Notably lower BTEX concentrations were detected in monitoring wells located at the northwestern and northeastern corners of the off-site study area (e.g., in MW-10 and TRC-MW-4) and at the southern end of the area in front of and across Center Boulevard from the public school entrance (e.g., in MW-4 and MW-5). This distribution is generally consistent with the observed distribution of NAPL and soil contamination at the site.

Methylene chloride was detected in all of the wells except TRC-MW-4, at concentrations ranging from 0.62 to 290 ppb, and acetone was detected in MW-3 at a concentration of 50 ppb. Methylene chloride and acetone are common laboratory contaminants used during processing of samples and are not likely associated with on-site contamination.

Semivolatile Organic Compounds

SVOCs detected above their respective AWQVs consisted of naphthalene, acenaphthene, fluorene, phenanthrene, and fluoranthene. Naphthalene was detected at concentrations ranging from 0.8 ppb in MW-4 to 14,000 ppb in MW-8, and acenaphthene, dibenzofuran, fluorene, phenanthrene, and fluoranthene were detected at relatively lower concentrations

ranging from 2 to 480 ppb. 2-Methylnaphthalene, which does not have a Class GA AWQV, was detected at concentrations ranging from 11 ppb in MW-5 to 1,110 ppb in MW-8. SVOCs detected in MW-4, TRC-MW-4, and MW-10 were below their respective NYSDEC Class GA AWQVs. In general, naphthalene in ground water was notably higher in concentration than the remaining SVOCs.

The distribution of naphthalene and 2-methylnaphthalene in groundwater is illustrated in Figure 12. This figure indicates that the highest concentrations were detected in wells located near the intersection of 48th Avenue and Center Boulevard and the southern portion of Parcel 8, which is consistent with the observed BTEX distribution in groundwater. MW-8, located at the northeastern corner of Parcel 8 also exhibited relatively high BTEX concentrations.

4.4.4 Test Pit Samples

Laboratory analytical results for VOCs and SVOCs in test pit soil samples are summarized in Table 11. VOC compounds consisting of benzene, toluene, methylene chloride, trichloroethene, 2-butanone, and acetone were detected in the test pit samples. The grab sample collected from TP-6 contained methylene chloride at a concentration of 140 ppb, which exceeded its corresponding RSCO criterion of 100 ppb. Methylene chloride, 2-butanone, and acetone are common laboratory contaminants that were also detected in trip blanks, and are not associated with existing on-site contamination. The remaining VOCs were below their respective NYSDEC RSCOs.

Individual SVOCs, consisting primarily of PAHs, were detected at concentrations exceeding their respective RSCOs in each of the grab and composite samples from the test pits. Relatively low naphthalene and 2-methylnaphthalene concentrations were detected in the test pit sample compared to those detected in native soil sample collected from below the water table. None of the test pit soil samples contained total SVOC concentrations in excess of 500 ppm.

Laboratory analytical results for metals in soil are summarized in Table 12. Table 12 also provides the Eastern United States background ranges listed in TAGM 4046. Metals consisting of arsenic, copper, magnesium, mercury, nickel and/or zinc were detected above the respective upper limit of the Eastern United States background range in each of the test pit samples. The detected concentrations generally were within an order of magnitude of the background levels. The detected metals can be attributed slag and ash observed in the fill material at the site.

Laboratory analytical results for PCBs and pesticides in soil are summarized in Table 13. PCBs were detected in each grab and composite sample. The concentration of PCBs detected in the composite sample from southeastern portion of the pile Q2TP-COMP (1,420 ppb) exceeded the NYSDEC RSCOs of 1,000 ppb for surface soil, but was below the 10,000 ppb criterion for subsurface soil. The remaining PCB concentrations were below the NYSDEC RSCOs. Trace concentrations of pesticides were detected in the test pit samples at concentrations ranging from 1.6 to 380 ppb, below their respective NYSDEC RSCOs.

5.0 REFERENCES

1. AKRF Inc.; *Site Assessment Report, Queens West Development Site, Parcels 8 and 9*, Queens, New York; June 1998.
2. AKRF, Inc.; *Supplemental Site Assessment Report, Queens West Development Site, Parcel 9, Building Interiors*, Queens, New York; September 2001.
3. EDR, Sanborn, Inc.; *Historical Fire Insurance Maps*; 1898, 1915, 1936, 1950, 1970, 1979, 1988, and 1996.
4. Hunters Point Waterfront Development; *Final Environmental Impact Statement*, June 1990.
5. Mueser Rutledge Consulting Engineers; *Geotechnical Report for Queens West – Site 9*, Long Island City, New York; May 25, 2004.
6. TRC Engineers, Inc.; *Results of Initial Groundwater Hydrology Characterization, Queens West Development Stage 2 Site,* August 23, 2004.
7. TRC Engineers, Inc.; *Amended Supplemental Investigation and Design Report No. 10 Queens West Development Stage 2 Site;* December, 2004.
8. TRC Engineers, Inc.; *Supplemental Investigation Report No. 11, Queens West Development Stage 2 Site;* December, 2004.

FIGURES

APPENDIX A

SOIL GAS SAMPLING LOGS

APPENDIX B

SOIL BORING LOGS

APPENDIX C
TEST PIT LOGS

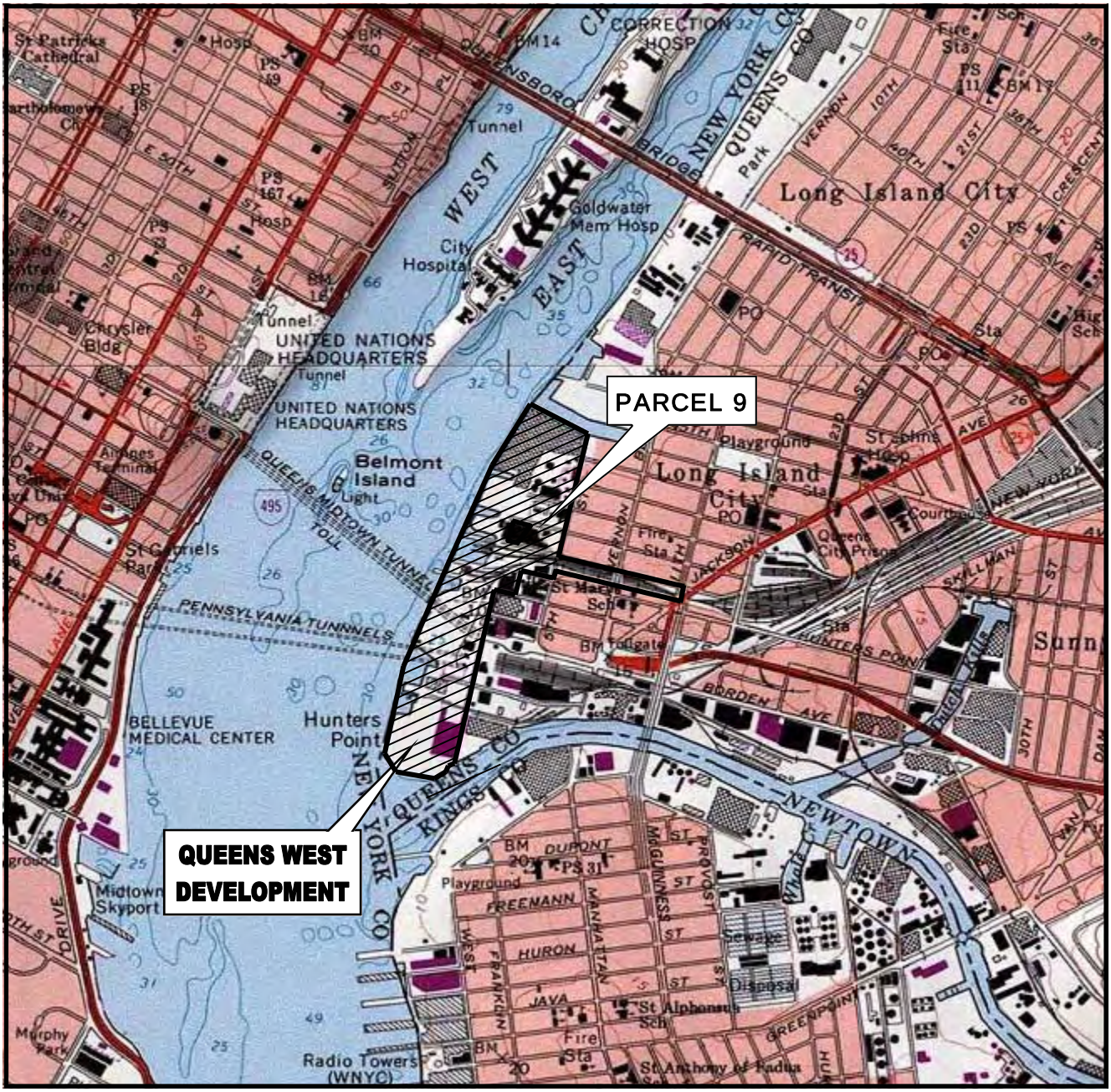
APPENDIX D
WELL CONSTRUCTION AND SAMPLING LOGS

APPENDIX E
NAPL FORENSIC ANALYSIS REPORT

AND

APPENDIX F
LABORATORY ANALYTICAL DATA REPORTS

APPENDIX F
LABORATORY ANALYTICAL DATA REPORTS





QUADRANGLE

SCALE IN FEET

0’ 1000’ 2000’ 4000’

SCALE: 1”=2000’

N

SOURCE:

USGS TOPOGRAPHIC MAP - BROOKLYN, N.Y.
QUADRANGLE - DATED 1967, PHOTOREVISED 1979

QUEENS WEST PARCEL 9
OFF-SITE INVESTIGATION
Queens, New York

PROJECT SITE LOCATION

AKRF

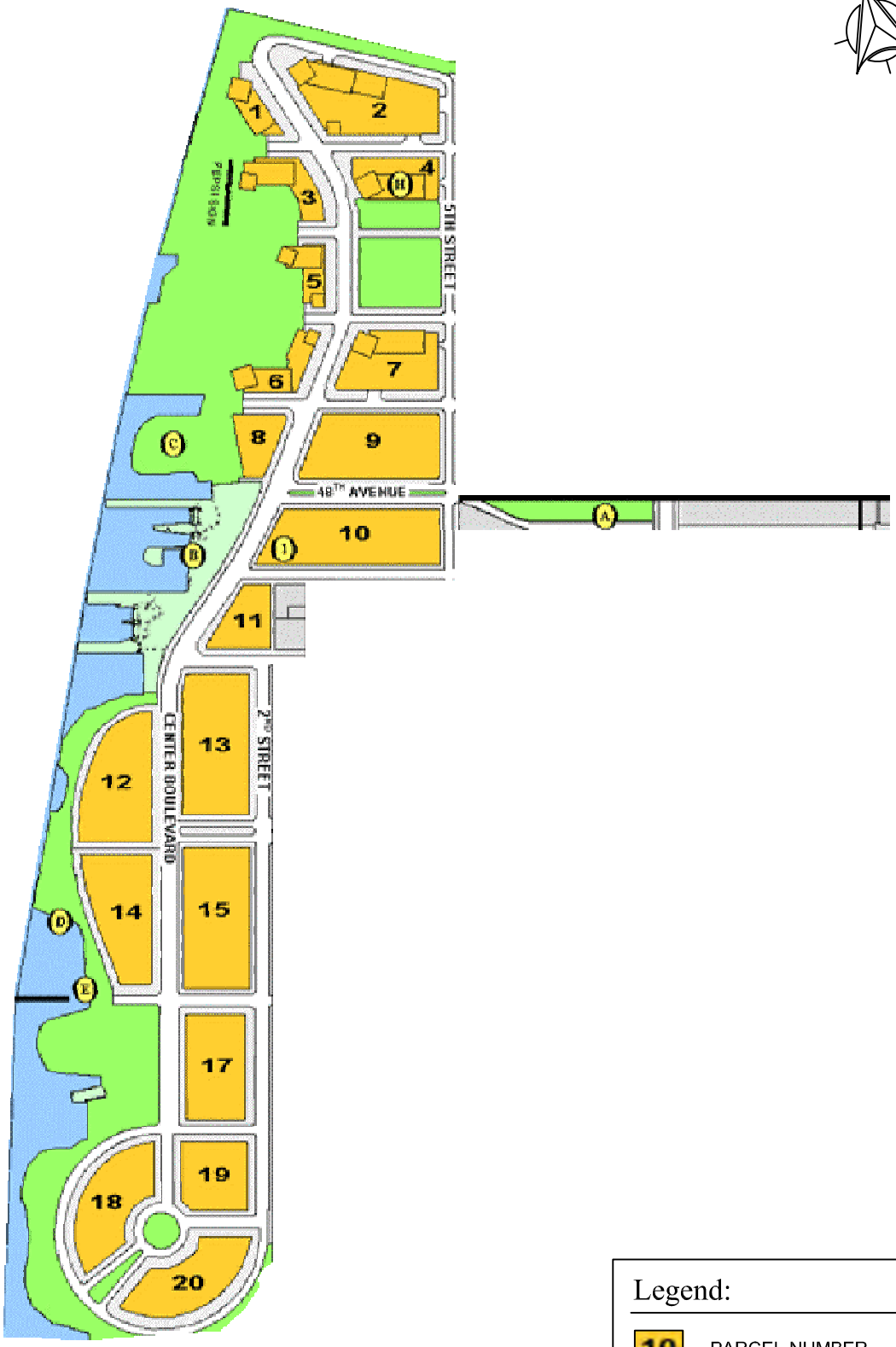
Environmental Consultants
440 Park Avenue South, New York, NY 10016

DATE
05.10.06

PROJECT No.
10516

FIGURE No.
1

2006 AKRF, Inc. Environmental Consultants M:\AKRF Project Files\10516 - Queens West Sites 8 & 9\Parcel 9 Offsite Investigation Work plan\Figures\10516-0001_F1_site location map_Parcel 9.pub



Legend:

10 PARCEL NUMBER

QUEENS WEST PARCEL 9
OFF-SITE INVESTIGATION
Queens, New York

QUEENS WEST DEVELOPMENT PARCELS

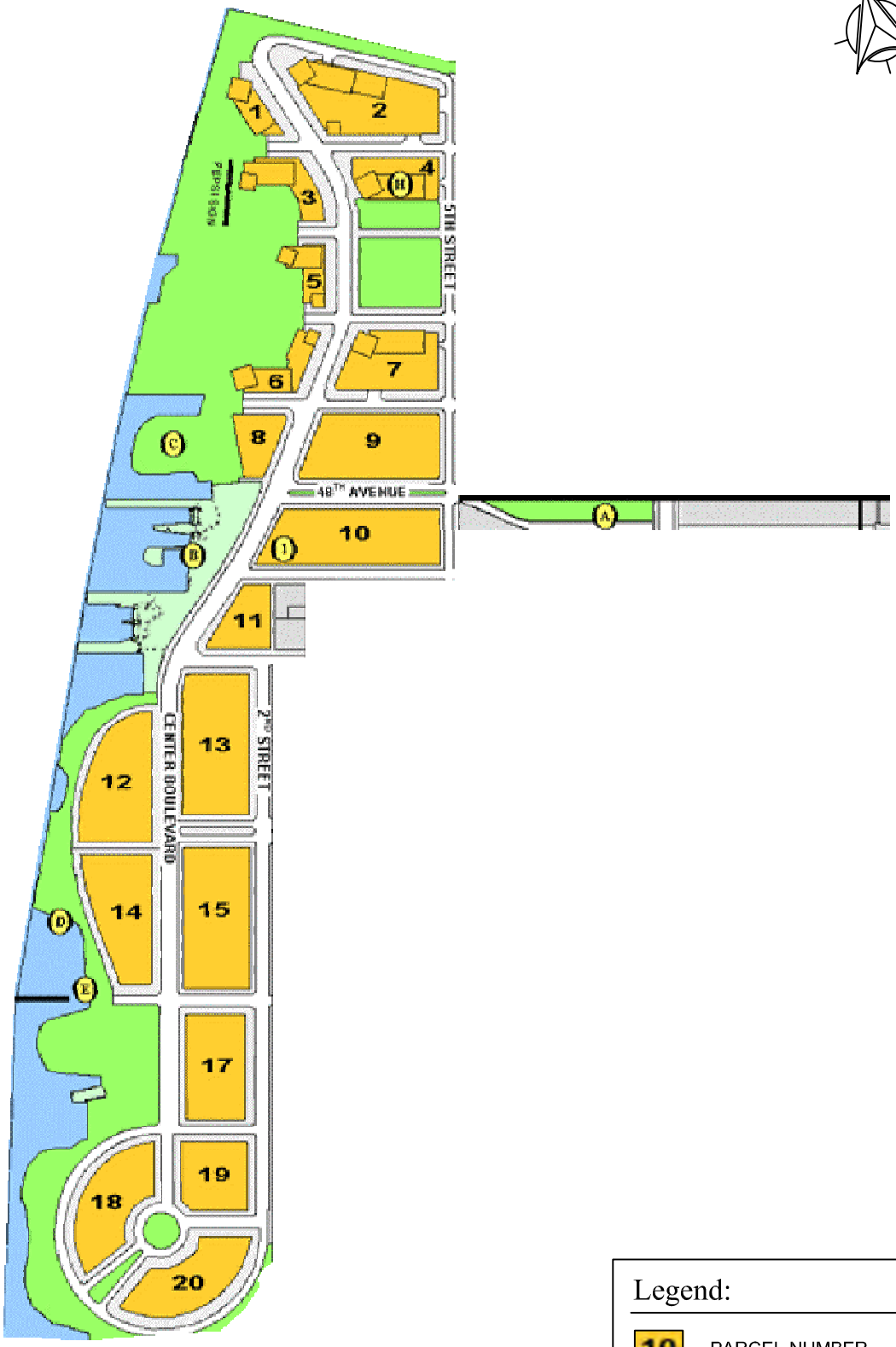
AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
05.02.06

PROJECT No.
10516

FIGURE No.
2

2006 AKRF, Inc. Environmental Consultants M:\AKRF Project Files\10516 - Queens West Sites 8 & 9\Parcel 9 Offsite Investigation Work plan\Figures\F2_Site Plan.dwg



Legend:

10 PARCEL NUMBER

QUEENS WEST PARCEL 9
OFF-SITE INVESTIGATION
Queens, New York

QUEENS WEST DEVELOPMENT PARCELS

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10516

FIGURE No.
2

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STAGE 2 SITE

TRC - MW-19 | TRC - MW-18 | TRC - MW-17 | TRC - MW-4 | TRC - MW-5

C & D PILE

47th ROAD

PENINSULAR PARK

SB/MW-10 | SB-11 | SB/MW-8 | SB-12 | SB-15 | SB-13 | SB/MW-9 | SB-14 | SB-16 | SB-19 | SB-20 | SB-17 | SB-21

QUAD 4 | QUAD 2 | QUAD 3 | QUAD 1

TP-13 | TP-14 | TP-15 | TP-16 | TP-7 | TP-5 | TP-6 | TP-8 | TP-9 | TP-10 | TP-4 | TP-12 | TP-11 | TP-2 | TP-3 | TP-1

SG-8 | SG-9

B

PARCEL 8

SB/MW-7 | TRC - MW-7 | SB/MW-6

CENTER BLVD.

SB/MW-5

A

A'

TRC - MW-3 | SB-18 | SG-3 | SB-22

SG-2 | CONCRETE SIDEWALK | SG-1

B'

PARCEL 9

CONCRETE SIDEWALK

SG-4 | SB/MW-1 | SG-5 | CONCRETE SIDEWALK | SG-6 | SG-7 | SB-24

48th AVENUE

SB/MW-2

5th STREET

SG-11 | SG-12 | SG-13 | SB/MW-3

SG-10 | SB/MW-4

APARTMENT BUILDING
WTH SCHOOL AND
DAY CARE CENTER

49th ROAD

Legend:

- PROJECT SITE BOUNDARY
- STAGE 2 SITE BOUNDARY
- CHAIN-LINK FENCE
- EDGE OF PERMANENT SHEETING
- OFF-SITE TEST PIT
- OFF-SITE SOIL BORING
- SG-2 — SOIL GAS SAMPLING LOCATION
- OFF-SITE SOIL BORING / MONITORING WELL
- T — EXISTING TRC MONITORING WELL
- EXISTING ON-SITE MONITORING WELL
- P-2 — ON-SITE SOIL BORING (APRIL 2005)
- S-2 — ON-SITE SOIL BORING (JAN/FEB 2005)

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION

Queens, New York

SITE PLAN AND SAMPLING LOCATIONS

DATE
07.06.06

SCALE
1"=70'

PROJECT No.
10516

FIGURE No.
3

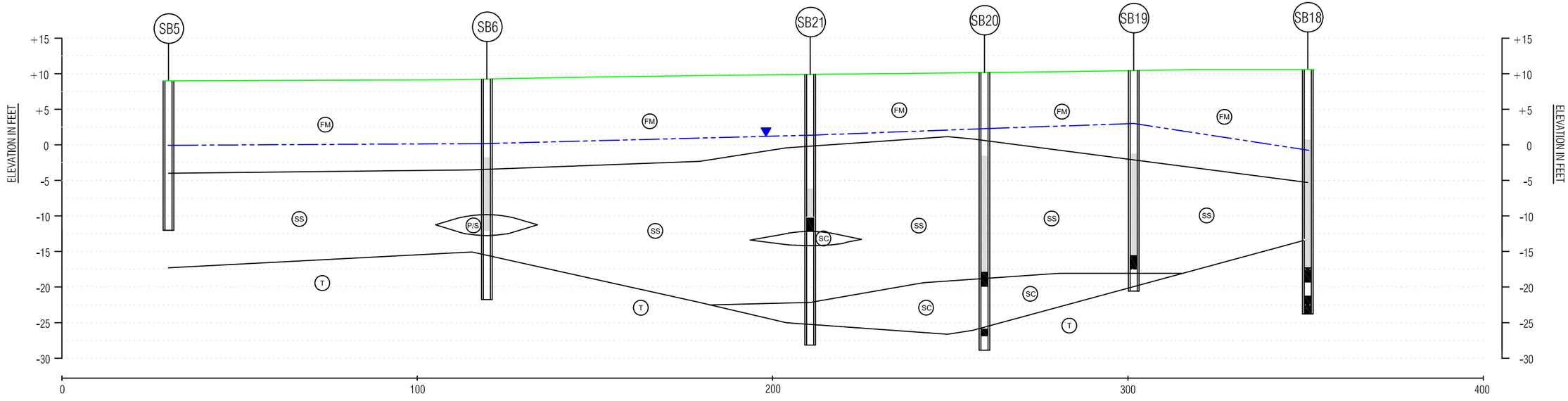
A
SOUTH

PENINSULAR
STATE PARK

CENTER BLVD.

A'
NORTH

APPROXIMATE EXTENT OF SECTION



GEOLOGICAL CROSS SECTION A-A'

SCALE IN FEET
0' 15' 30' 60'
HORIZONTAL SCALE: 1"=30'

SCALE IN FEET
0' 7.5' 15' 30'
VERTICAL SCALE: 1"=15'

Legend:

- SHEEN
- EXISTING GROUND SURFACE
- SOIL BORING
- NAPL
- GROUNDWATER SURFACE
- SC — SILT/CLAY
- FM — FILL MATERIAL
- P/S — PEAT/SILT
- SS — SAND AND SILT
- T — GLACIAL TILL
- SB5 — LOCATION AND DESIGNATION OF SOIL BORING

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QUEENS WEST PARCEL 9
OFF-SITE INVESTIGATION
Queens, New York

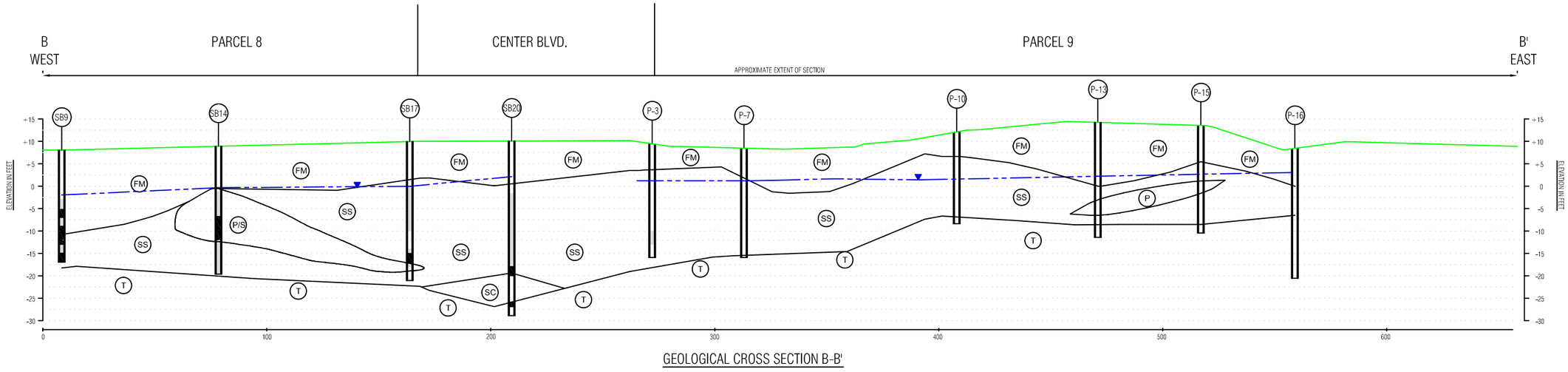
GEOLOGICAL CROSS SECTION A-A'

DATE
07.07.06

SCALE
AS SHOWN

PROJECT No.
10516

FIGURE No.
4



GEOLOGICAL CROSS SECTION B-B'

SCALE IN FEET
0' 25' 50' 100'
HORIZONTAL SCALE: 1"=50'

SCALE IN FEET
0' 12.5' 25' 50'
VERTICAL SCALE: 1"=25'

Legend:

- EXISTING GROUND SURFACE
- SHEEN
- SOIL BORING
- NAPL
- GROUNDWATER SURFACE
- (SC) SILT/CLAY
- (FM) FILL MATERIAL
- (P/S) PEAT/SILT
- (T) GLACIAL TILL
- (SS) SAND AND SILT
- (SB5) LOCATION AND DESIGNATION OF SOIL BORING

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION
Queens, New York

GEOLOGICAL CROSS SECTION B-B'

DATE
07.07.06

SCALE
AS SHOWN

PROJECT No.
10516

FIGURE No.
5

STAGE 2 SITE

TRC - MW-19 | TRC - MW-18 | TRC - MW-17 | TRC - MW-4 | TRC - MW-5

47th ROAD

PENINSULAR PARK

PARCEL 8

PARCEL 9

CONCRETE SIDEWALK

SB/MW-10 SB-11 SB-12 SB-15 SB-13 SB/MW-9 SB-14 SB/MW-8 SB-16 SB-19 SB-17 SB-20 SB-21 SB/MW-7 TRC - MW-7 SB/MW-6 SB/MW-1 SB-24 TRC - MW-3 SB-18 SB/MW-2 SB/MW-5 SB/MW-3 SB/MW-4

CENTER BLVD.

48th AVENUE

5th STREET

APARTMENT BUILDING
WTH SCHOOL AND
DAY CARE CENTER

49th ROAD

NOTE:
Map based on Geotechnical Report for QueensWest Site 9, Mueser Rutledge Consulting Engineers, Dated May 25, 2004 and Off-site Investigation Data.

Legend:

- PROJECT SITE BOUNDARY
- STAGE 2 SITE BOUNDARY
- CHAIN-LINK FENCE
- ELEVATION OF TOP OF TILL LAYER (FEET, QUEENS BOROUGH DATUM)
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL
- GEOTECHNICAL SOIL BORING

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION
QUEENS, NEW YORK

UPPER ELEVATION OF TILL LAYER

DATE 7.06.06

SCALE 1"=70'

PROJECT No. 10516

FIGURE No. 6

STAGE 2 SITE

TRC - MW-19
TRC - MW-18
TRC - MW-17
TRC - MW-4
TRC - MW-5
-2.16
-2.0
-1.0
-1.5
47th ROAD

PENINSULAR PARK

-1.11
SB/MW-10
SB-11
SB-12
SB-15
-1.0
SB-13
SB/MW-9
-0.69
SB-14

PARCEL 8

SB/MW-8
-0.81
SB-16
SB-19
SB-17
SB-20
SB-21
SB/MW-7
-0.93
TRC - MW-7
SB/MW-6
-0.99
CENTER BLVD.

PARCEL 9

TRC - MW-3
SB-18
CONCRETE SIDEWALK
CONCRETE SIDEWALK
CONCRETE SIDEWALK
SB/MW-1
-1.97
SB-24
-1.5
-1.0
SB/MW-2
-0.65
-0.5
48th AVENUE
5th STREET

SB/MW-5
-0.91

-0.08
SB/MW-3

APARTMENT BUILDING
WTH SCHOOL AND
DAY CARE CENTER

SB/MW-4
-0.53
-0.5

49th ROAD

Legend:

- PROJECT SITE BOUNDARY
- STAGE 2 SITE BOUNDARY
- CHAIN-LINK FENCE
- 0.88 — GROUNDWATER SURFACE ELEVATION MEASURED IN WELL (FEET, QUEENS BOROUGH DATUM)
- 1.0 — GROUNDWATER SURFACE ELEVATION (FEET, QUEENS BOROUGH DATUM)
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION
QUEENS, NEW YORK

GROUNDWATER SURFACE ELEVATIONS - 10/5/05

DATE
07.06.06

SCALE
1"=70'

PROJECT No.
10516

FIGURE No.
7a

STAGE 2 SITE

TRC - MW-19 TRC - MW-18 TRC - MW-17 TRC - MW-4 TRC - MW-5

47th ROAD

PENINSULAR PARK

PARCEL 8

PARCEL 9

CONCRETE SIDEWALK

SB/MW-8 SB/MW-10 SB/MW-9 SB/MW-7 SB/MW-6 SB/MW-1 SB/MW-2 SB/MW-5 SB/MW-3 SB/MW-4

SB-11 SB-12 SB-13 SB-14 SB-15 SB-16 SB-17 SB-18 SB-19 SB-20 SB-21 SB-24

TRC - MW-3 TRC - MW-7

0.21 0.29 0 -0.21 0 0.5 1.0 1.5 1.76 0.86 -0.04 0 1.5 .03 1.0 0.38 0.5 0.88 0.57

CENTER BLVD

48th AVENUE

5th STREET

APARTMENT BUILDING
WTH SCHOOL AND
DAY CARE CENTER

49th ROAD

Legend:

- PROJECT SITE BOUNDARY
- STAGE 2 SITE BOUNDARY
- CHAIN-LINK FENCE
- 1.0 — GROUNDWATER SURFACE ELEVATION (FEET, QUEENS BORO DATUM)
- 0.88 — GROUNDWATER SURFACE ELEVATION MEASURED IN WELL (FEET, QUEENS BORO DATUM)
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL
- EXISTING ON-SITE MONITORING WELL

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION

Queens, New York

GROUNDWATER SURFACE ELEVATIONS - 11/15/05

DATE 07.06.06

SCALE 1"=70'

PROJECT No. 10516

FIGURE No. 7b

STAGE 2 SITE

TRC - MW-19 | TRC - MW-18 | TRC - MW-17 | TRC - MW-4 | TRC - MW-5

C & D PILE

47th ROAD

PENINSULAR PARK

SB/MW-10 | SB-11 | SB/MW-8 | TRC - MW-3 | SB-18 | SB-22 | SB-19 | SB-16 | SB-20 | SB-17 | SB-21 | SB-12 | SB-15 | SB-13 | SB/MW-9 | SB-14 | SB/MW-7 | TRC - MW-7 | SB/MW-6 | SB-24 | SB/MW-1

QUAD 4 | QUAD 2 | QUAD 3 | QUAD 1

TP-13 | TP-14 | TP-15 | TP-16 | TP-7 | TP-5 | TP-6 | TP-8 | TP-9 | TP-10 | TP-4 | TP-12 | TP-11 | TP-3 | TP-2 | TP-1

PARCEL 8

PARCEL 9

CONCRETE SIDEWALK

CONCRETE SIDEWALK

CONCRETE SIDEWALK

CONCRETE SIDEWALK

A-1 | A-2 | A-3 | A-4 | A-5 | A-6 | A-7 | A-8 | A-9 | A-10 | A-11 | A-13

P-1 | P-2 | P-3 | P-4 | P-5 | P-6 | P-7 | P-8 | P-9 | P-10 | P-11 | P-12 | P-13 | P-14 | P-15 | P-16 | P-17

S-1 | S-2 | S-3 | S-4 | S-5 | S-6 | S-7 | S-8 | S-9 | S-10 | S-11 | S-12 | S-13 | S-16 | S-17 | S-18 | S-19 | S-20 | S-21

CENTER BLVD.

48th AVENUE

5th STREET

SB/MW-2

SB/MW-5

SB/MW-3

SB/MW-4

APARTMENT BUILDING
WTH SCHOOL AND
DAY CARE CENTER

49th ROAD

Legend:

- PROJECT SITE BOUNDARY
- STAGE 2 SITE BOUNDARY
- CHAIN-LINK FENCE
- APPROXIMATE EXTENT OF NAPL OBSERVED
- EDGE OF PERMANENT SHEETING
- NAPL REMOVED DURING PARCEL 9 REMEDIATION
- SOIL BORING (CONTAINING NAPL)
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL
- EXISTING ON-SITE MONITORING WELL
- P-2 ON-SITE SOIL BORING (APRIL 2005)
- S-2 ON-SITE SOIL BORING (JAN/FEB 2005)

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION

QUEENS, NEW YORK

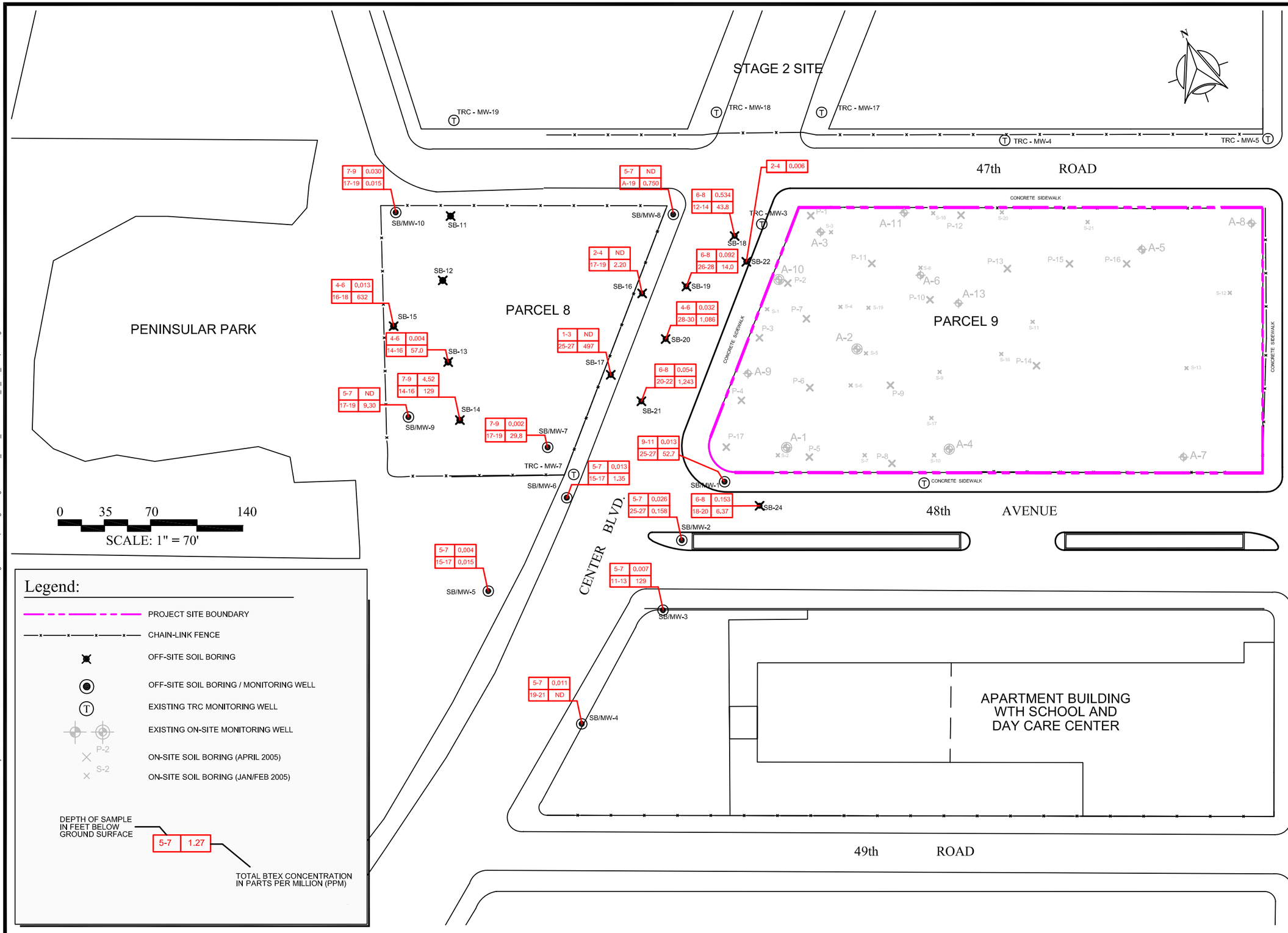
ASSUMED EXTENT OF NAPL

DATE
07.06.06

SCALE
1"=70'

PROJECT No.
10516

FIGURE No.
8



7-9	0.030	
17-19	0.015	
5-7	ND	
A-19	0.750	
6-8	0.534	
12-14	43.8	
2-4	0.006	
6-8	0.092	
26-28	14.0	
2-4	ND	
17-19	2.20	
4-6	0.013	
16-18	632	
4-6	0.032	
28-30	1,086	
1-3	ND	
25-27	497	
4-6	0.004	
14-16	57.0	
6-8	0.054	
20-22	1,243	
7-9	4.52	
14-16	129	
5-7	ND	
17-19	9.30	
7-9	0.002	
17-19	29.8	
9-11	0.013	
25-27	52.7	
5-7	0.013	
15-17	1.35	
5-7	0.026	
25-27	0.158	
6-8	0.153	
18-20	6.37	
5-7	0.004	
15-17	0.015	
5-7	0.007	
11-13	129	
5-7	0.011	
19-21	ND	

Legend:

- PROJECT SITE BOUNDARY
- CHAIN-LINK FENCE
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL
- EXISTING ON-SITE MONITORING WELL
- P-2 — ON-SITE SOIL BORING (APRIL 2005)
- S-2 — ON-SITE SOIL BORING (JAN/FEB 2005)

DEPTH OF SAMPLE IN FEET BELOW GROUND SURFACE — 5-7

TOTAL BTEX CONCENTRATION IN PARTS PER MILLION (PPM) — 1.27

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION

Queens, New York

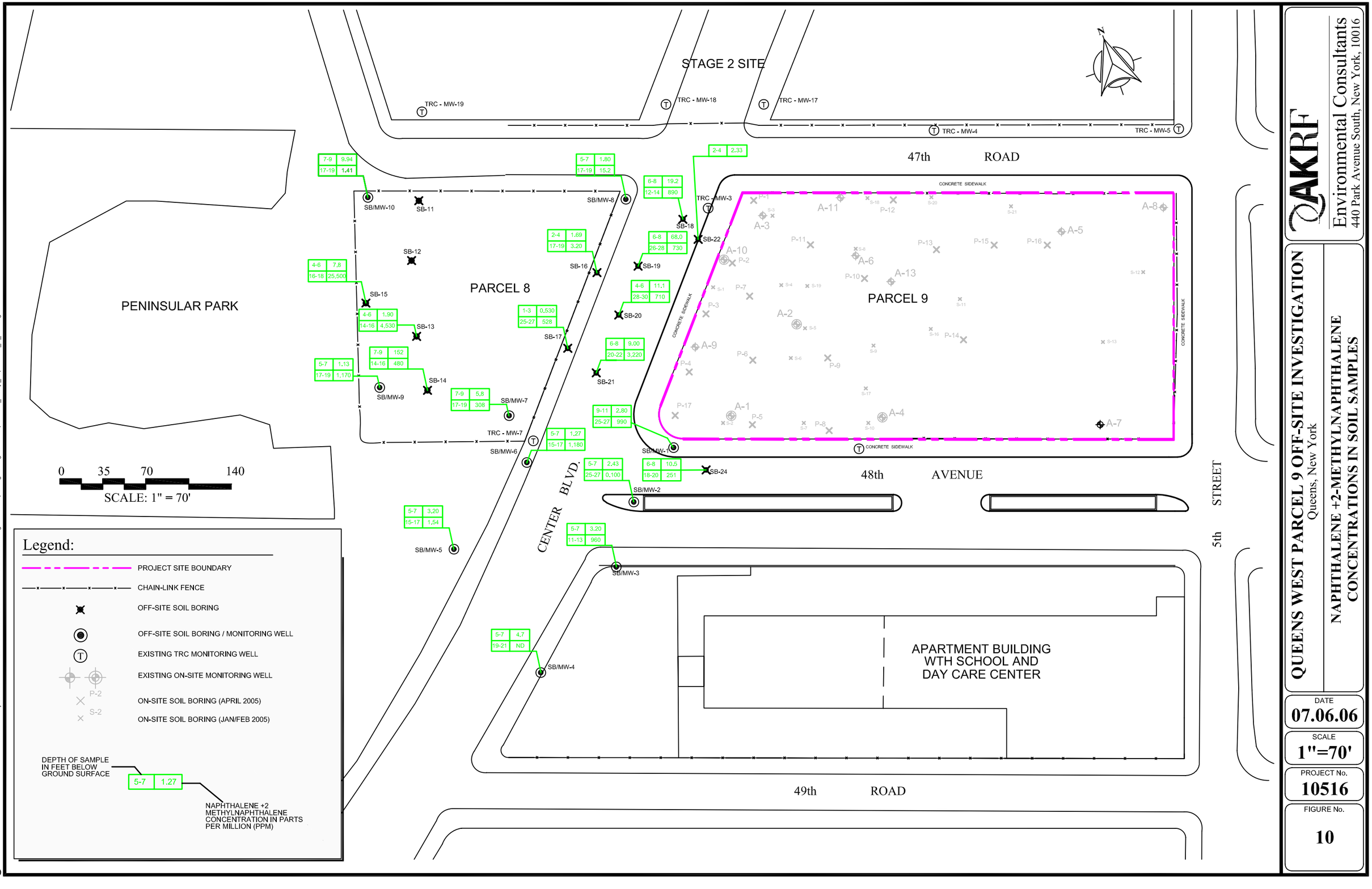
BTEX CONCENTRATIONS IN SOIL SAMPLES

DATE 07.06.06

SCALE 1"=70'

PROJECT No. 10516

FIGURE No. 9



Legend:

- PROJECT SITE BOUNDARY
- CHAIN-LINK FENCE
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL
- EXISTING ON-SITE MONITORING WELL
- P-2 — ON-SITE SOIL BORING (APRIL 2005)
- S-2 — ON-SITE SOIL BORING (JAN/FEB 2005)

DEPTH OF SAMPLE IN FEET BELOW GROUND SURFACE: 5-7

NAPHTHALENE +2 METHYLNAPHTHALENE CONCENTRATION IN PARTS PER MILLION (PPM): 1.27

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION

Queens, New York

NAPHTHALENE +2-METHYLNAPHTHALENE CONCENTRATIONS IN SOIL SAMPLES

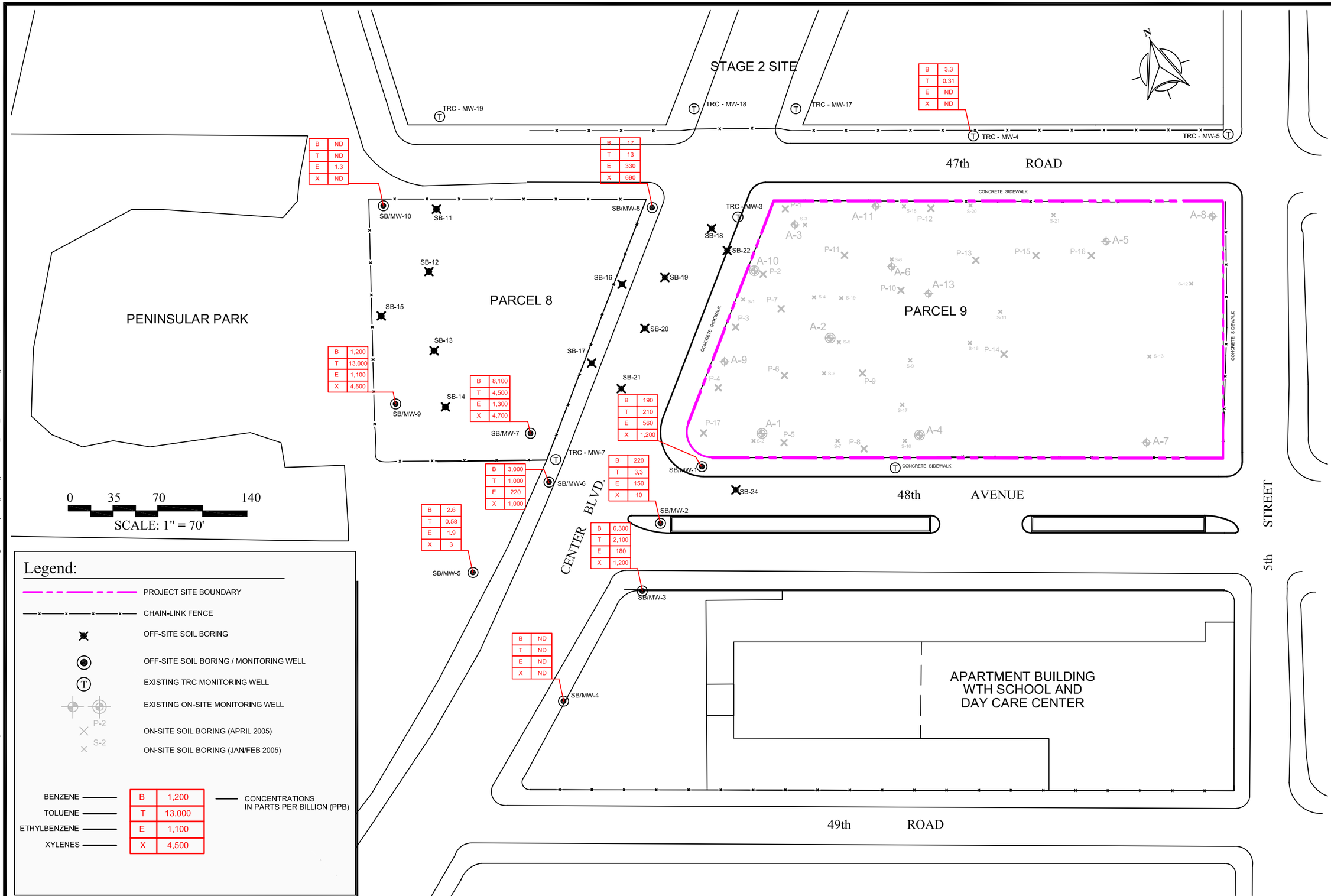
DATE 07.06.06

SCALE 1"=70'

PROJECT No. 10516

FIGURE No. 10

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Legend:

- PROJECT SITE BOUNDARY
- CHAIN-LINK FENCE
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL
- EXISTING ON-SITE MONITORING WELL
- P-2 — ON-SITE SOIL BORING (APRIL 2005)
- S-2 — ON-SITE SOIL BORING (JAN/FEB 2005)

BENZENE	B	1,200
TOLUENE	T	13,000
ETHYLBENZENE	E	1,100
XYLENES	X	4,500

CONCENTRATIONS IN PARTS PER BILLION (PPB)

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION

Queens, New York

BTEX CONCENTRATIONS IN GROUNDWATER

DATE 07.06.06

SCALE 1"=70'

PROJECT No. 10516

FIGURE No. 11

STAGE 2 SITE

TRC - MW-19 | TRC - MW-18 | TRC - MW-17 | TRC - MW-4 | TRC - MW-5

N	2.0
2-M	ND

47th ROAD

PENINSULAR PARK

PARCEL 8

PARCEL 9

CONCRETE SIDEWALK

TRC - MW-3

SB-18 | SB-22 | SB-24

SB/MW-10 | SB-11 | SB-12 | SB-15 | SB-13 | SB-14 | SB/MW-9 | SB-16 | SB/MW-8 | SB-19 | SB-20 | SB-17 | SB-21 | SB/MW-7 | TRC - MW-7 | SB/MW-6 | SB/MW-1 | SB/MW-2 | SB/MW-5 | SB/MW-3 | SB/MW-4

N	4.0
2-M	ND

N	14,000
2-M	1,100

N	13,000
2-M	740

N	8,300
2-M	420

N	3,800
2-M	310

N	2,700
2-M	2,30

N	52
2-M	ND

N	200
2-M	11

N	10,000
2-M	480

N	0.8
2-M	ND

48th AVENUE

5th STREET

CENTER BLVD.

APARTMENT BUILDING
WTH SCHOOL AND
DAY CARE CENTER

49th ROAD

0 35 70 140

SCALE: 1" = 70'

Legend:

- PROJECT SITE BOUNDARY
- CHAIN-LINK FENCE
- OFF-SITE SOIL BORING
- OFF-SITE SOIL BORING / MONITORING WELL
- EXISTING TRC MONITORING WELL
- EXISTING ON-SITE MONITORING WELL
- P-2 — ON-SITE SOIL BORING (APRIL 2005)
- S-2 — ON-SITE SOIL BORING (JAN/FEB 2005)

NAPHTHALENE — N 200 / 2-M 11 — 2-METHYLNAPHTHALENE

CONCENTRATION IN PARTS PER BILLION (PPB)

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QUEENS WEST PARCEL 9 OFF-SITE INVESTIGATION

Queens, New York

NAPHTHALENE AND 2-METHYLNAPHTHALENE CONCENTRATIONS IN GROUNDWATER

DATE 05.12.06

SCALE 1"=70'

PROJECT No. 10516

FIGURE No. 12

TABLE 1
SOIL BORING FIELD SUMMARY
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Soil Boring Locations	Date Installed	Total Depth (ft bgs)	Depth to Water (ft bgs)	Depth to Till (ft bgs)	NAPL/Sheen (ft bgs)	Max PID (ppm)	Sample ID (s) for Lab Analysis	Odors/Depth	Observations/Comments
SB-1	9/16/05	33	11	27	Sheen: 11-27' NAPL: 26.75-27'	87 at 26-27'	QW-SB-1 (9-11) QW-SB-1 (25-27)	CT: 11-33'	NAPL encountered as droplets on water and soil.
SB-2	9/15/05	35	11	29	None	5.2 at 26-27'	QW-SB-2 (5-7) QW-SB-2 (25-27)	Slight CT/P: 25-32'	
SB-3	9/19/05	25	11	NE	None	14.7 @ 13-14	QW-SB-3 (5-7) QW-SB-3 (11-13)	Slight CT/P: 9-25'	
SB-4	9/20/05	27	11	19	None	ND	QW-SB-4 (5-7) QW-SB-4 (19-21)	none	
SB-5	9/21/05	21	9	NE	None	0.3 at 16-17'	QW-SB-5 (5-7) QW-SB-5 (15-17)	Slight P: 16-21'	
SB-6	9/14/05	31	9	25	Sheen: 11-21.3' (intermittent)	>2,000 at 16-17'	QW-SB-6 (5-7) QW-SB-6 (15-17)	P: 11-13' CT: 13-31'	
SB-7	9/14/05	29	9	27	Sheen: 9-19'	468 at 17-18'	QW-SB-7 (7-9) QW-SB-7 (17-19) QW-SB-7 (17-19) MS QW-SB-B (17-19)	CT: 9-29'	
SB-8	9/22/05	33	11	26	Sheen: 11-27'	432.2 at 18-19'	QW-SB-8 (5-7) QW-SB-8 (17-19)	CT: 11-33'	
SB-9	9/12/05	25	10	NE	Sheen: 11-25' NAPL: 13-25' (intermittent)	682 at 17-19'	QW-SB-9 (5-7) QW-SB-9 (17-19)	CT: 9-25'	NAPL encountered as droplets on water and soil.
SB-10	9/13/05	29	10.5	NE	None	2.1 at 13-15	QW-SB-10 (7-9) QW-SB-10 (17-15)	Slight CT: 9-11'	
SB-11	9/12/05	4	NE	NE	NA	NA	No samples	NA	Refusal on concrete/rock at 4' at two locations.
SB-12	9/12/05	3.5	NE	NE	NA	NA	No samples	NA	Refusal on concrete/rock at 3.5'.
SB-13	9/12/05	36	6	32	Sheen: 8-36' NAPL: 20-30' (intermittent)	229 at 14-16'	QW-SB-13 (4-6) QW-SB-13 (14-16)	CT: 8-36'	NAPL on soil and/or sample liner at 20-28' and 29-30'.
SB-14	9/8/05	28	9.5	21	Sheen: 9.5-28' NAPL: 15.3-20'	228 at 15-16'	QW-SB-14 (7-9) QW-SB-14 (14-16)	P: 6-12' CT: 12-28'	
SB-15	9/8/05	34	10	32	Sheen: 12-34' NAPL: 28-31'	680 at 16-17'	QW-SB-15 (4-6) QW-SB-15 (4-6) MS QW-SB-15 (16-18) QW-SB-B (16-18)	P/CT: 10-12' CT: 12-34'	

TABLE 1
SOIL BORING FIELD SUMMARY
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Soil Boring Locations	Date Installed	Total Depth (ft bgs)	Depth to Water (ft bgs)	Depth to Till (ft bgs)	NAPL/Sheen (ft bgs)	Max PID (ppm)	Sample ID (s) for Lab Analysis	Odors/Depth	Observations/Comments
SB-16	9/28/05	30.5	10	NE	Sheen: 10-28' NAPL: 17-19'	8.6 at 17-18'	QW-SB-16 (2-4) QW-SB-16 (17-19)	CT: 10-28'	
SB-17	9/28/05	31	10	NE	Sheen: 10-20'; 24-31' NAPL: 25-27'	160 at 26-27'	QW-SB-17 (1-3) QW-SB-17 (25-27)	CT: 8-31'	
SB-18	10/26/05	34.5	12	24	Sheen: 10-24' NAPL: 28-30' and 32-34.5'	450 at 6-8'	QW-SB-18 (6-8) QW-SB-18 (6-8) MS QW-SB-18 (12-14)	CT: 4-34.5'	
SB-19	10/26/05	31	8	30	Sheen: 24-26' NAPL: 26-28'	150 at 26-28'	QW-SB-19 (4-6) QW-SB-19 (26-28) QW-SB-19B (26-28)	CT: 8-20'; 24-29'	Black staining coating soil 4 to 8 ftbgs
SB-20	10/27/05	39	8	37	Sheen: 8-20', 24-28' NAPL: 28-30', 36-37'	460 at 28-30'	QW-SB-20 (4-6) QW-SB-20 (28-30)	CT: 8-39'	
SB-21	10/28/05	38	10	37	Sheen: 16-20' NAPL: 20-22'	240 at 20-22'	QW-SB-21 (6-8) QW-SB-21 (20-22)	CT: 6-38'	
SB-22	10/27/05	4	NE	NE	NA	NA	QW-SB-22 (2-4)	NA	Refusal on concrete/metal at 4' at two locations.
SB-24	10/28/05	36	10	34	Sheen: 16-20'	546 at 6-8'	QW-SB-24 (6-8) QW-SB-24 (18-20)	Slight CT: 0-8'; 16-28'	

TABLE 2
MONITORING WELL INSTALLATION SUMMARY
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Monitoring Well Locations	**Date of Installation**	**Date of Development**	**Total Depth** (ft bgs)	**Bottom Sump Interval** (ft bgs)	**Screen Interval** (ft bgs)	**Solid Riser Interval** (ft bgs)	**Bentonite Seal Interval** (ft bgs)	**Grout Interval** (ft bgs)
MW-1	9/16/2005	9/23/2005	32	31-32	21-31	0-21	18-20	0.5-18
MW-2	9/10/2005	9/23/2005	34	34-35	24-34	0-24	21-23	0.5-21
MW-3	9/19/2005	9/23/2005	23	22-23	12-22	0-12	9-11	0.5-9
MW-4	9/20/2005	9/23/2005	26	25-26	15-25	0-15	12-14	0.5-12
MW-5	9/21/2005	9/23/2005	20	19-20	9-19	0-9	6-8	0.5-6
MW-6	9/14/2005	9/23/2005	29	29-30	19-29	0-19	16-18	0.5-16
MW-7	9/14/2005	9/23/2005	28	27-28	17-27	0-17	14-16	0.5-14
MW-8	9/22/2005	9/23/2005	32	31-32	21-31	0-21	18-20	0.5-18
MW-9	9/13/2005	9/23/2005	25	24-25	14-24	0-14	0.5-11	0-0.5
MW-10	9/13/2005	9/23/2005	25	24-25	15-25	0-15	12-14	0.5-12

Notes:
ft bgs - feet below ground surface

TABLE 3
WATER LEVEL GAUGING SUMMARY
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Well	Total Well Depth (feet)	Top of Casing Elevation (feet)	10/5/05		11/15/05	
			DTW	Elev.	DTW	Elev.
MW-1	**34.63**	**9.40**	11.37	-1.97	7.64	1.76
MW-2	**33.61**	**8.93**	9.58	-0.65	7.90	1.03
MW-3	**22.51**	**9.07**	9.15	-0.08	8.19	0.88
MW-4	**25.88**	**7.99**	8.52	-0.53	7.42	0.57
MW-5	**20.79**	**8.40**	9.31	-0.91	8.02	0.38
MW-6	**29.53**	**8.70**	9.69	-0.99	7.84	0.86
MW-7	**27.74**	**8.78**	9.71	-0.93	NM	NM
MW-8	**29.81**	**10.30**	11.11	-0.81	10.01	0.29
MW-9	**24.86**	**9.22**	9.91	-0.69	9.26	-0.04
MW-10	**21.61**	**10.14**	11.25	-1.11	9.93	0.21
TRC-MW-4D	**40.86**	**9.63**	11.79	-2.16	9.84	-0.21

Notes:
NA - Not Available
NM - Not Measured
DTW - depth to water
Elevations are based on Queens Borough Datum

TABLE 4
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Client ID	SG-1	SG-2	SG-3	SG-3RE	SG-4	SG-5	SG-6	SG-7	SG-8	SG-14[2]	SG-9
Dilution	3.00	10.00	200.00	200.00	3.00	2.00	2.00	3.00	5.00	5.00	10.00
Lab Sample ID	628630	628425	628633	628633R1	628636	628421	628422	628423	628628	628629	628631
Date Sampled	7/12/05	7/11/05	7/12/05	7/12/05	7/11/05	7/11/05	7/11/05	7/11/05	7/12/05	7/12/05	7/12/05
Units	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Dichlorodifluoromethane	7.4 U	25 U	490 U	490 U	18	6.9	5.4	7.4 U	45	34	25 U
Chloromethane	3.1 U	10 U	210 U	210 U	3.1 U	2.1 U	2.1 U	3.1 U	5.2 U	5.2 U	10 U
Trichlorofluoromethane	21	210	220 U	220 U	29	160	79	6.2	340	270	200
Freon TF	10	15 U	310 U	310 U	74	74	3.1 U	4.6 U	110	84	77
Methylene Chloride	5.2 U	17 U	380	350 U	6.6	3.5 U	3.5 U	5.2 U	8.7 U	8.7 U	17 U
1,1-Dichloroethane	4.5	34	160 U	160 U	5.3	1.6 U	1.6 U	2.4 U	4 U	4 U	8.1 U
cis-1,2-Dichloroethene	4.4	7.9 U	160 U	160 U	2.4 U	1.6 U	1.6 U	2.4 U	4 U	4 U	7.9 U
Chloroform	2.9 U	9.8 U	200 U	200 U	16	2 U	2 U	3.8	27	21	59
1,1,1-Trichloroethane	3.3 U	24	220 U	220 U	3.3 U	5.5	3.1	3.3 U	16	13	17
Benzene	89	120	130 U	130 U	80	30	26	3.2	19	14	100
Trichloroethene	9.1	11 U	210 U	210 U	8.1	3.8	2.1 U	45	10	7	11 U
Toluene	38	130	750	720	68	72	57	100	72	53	98
Tetrachloroethene	8.8	24	270 U	270 U	29	16	17	290	35	39	15
Ethylbenzene	4.8	9.6	170 U	170 U	10	8.7	8.3	7.8	14	16	14
Xylene (m,p)	15	27	200	190	33	26	28	26	38	48	40
Styrene	2.6 U	8.5 U	170 U	170 U	2.6 U	2	1.7 U	2.6 U	8.5	12	8.5 U
Xylene (o)	6.9	9.6	170 U	170 U	13	9.1	11	9.6	13	18	20
1,3-Dichlorobenzene	3.6 U	12 U	240 U	240 U	10	2.4 U	2.4 U	4.5	6 U	6 U	12 U
1,4-Dichlorobenzene	3.6 U	12 U	240 U	240 U	3.6 U	5.4	7.2	6	6 U	6 U	12 U
1,3,5-Trimethylbenzene	4.5	9.8 U	200 U	200 U	3.8	3.6	4.3	5.4	4.9 U	5.4	9.8 U
1,2,4-Trimethylbenzene	4.5	19	200 U	200 U	12	14	18	21	9.3	13	9.8 U
Carbon Disulfide	34	24	1300	1300	28	37	12	11	47	34	75
Acetone	230	500	3100	3100	160	100	150	160	310	310	780
Isopropyl Alcohol	37 U	120 U	6100	6100	37 U	25 U	25 U	37 U	61 U	61 U	120 U
Methyl tert-Butyl Ether	7.2	18 U	360 U	360 U	7.2	24	3.6 U	5.4 U	9 U	9 U	18 U
Cyclohexane	86	200	22000	22000	120	89	69	65	160	96	55
Methyl Ethyl Ketone	15	26	290 U	290 U	15	11	11	10	21	17	23
Methyl Isobutyl Ketone	6.1 U	20 U	410 U	410 U	6.1 U	4.1	4.1 U	6.1 U	10 U	10 U	20 U
Methyl Butyl Ketone	6.1 U	20 U	410 U	410 U	6.1 U	4.1 U	4.1 U	6.1 U	10 U	10 U	20 U
trans-1,2-Dichloroethene	2.4 U	7.9 U	160 U	160 U	2.4 U	1.6 U	1.6 U	2.4 U	4 U	4 U	7.9 U
4-Ethyltoluene	4	9.8 U	200 U	200 U	8.8	9.3	10	11	9.3	12	9.8 U
2,2,4-Trimethylpentane	2.8 U	360	190 U	190 U	2.8 U	1.9 U	1.9 U	2.8 U	4.7 U	4.7 U	9.3 U
n-Hexane	70	35	3900	3900	20	17	7	10	16	12	27
n-Heptane	17	8.2 U	160 U	160 U	25	21	18	19	78	53	45
1,2-Dichloroethene (total)	4.4	7.9 U	160 U	160 U	2.4 U	1.6 U	1.6 U	2.4 U	4 U	4 U	7.9 U
Xylene (total)	22	38	200	190	48	36	40	36	52	65	61
tert-Butyl Alcohol	45 U	150 U	3000 U	3000 U	110	76	73	67	150	120	150 U

TABLE 4
VOLATILE ORGANIC COMPOUNDS IN SOIL GAS
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Client ID	SG-10	SG-11	SG-12	SG-13	AS-1	AS-2	SG-11-2
Dilution	10.00	65.40	1.50	5.00	1.00	1.00	65.8
Lab Sample ID	628426	628424	628632	628634	628427	628635	628635
Date Sampled	7/11/05	7/11/05	7/12/05	7/12/05	7/11/05	7/12/05	8/2/05
Units	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Dichlorodifluoromethane	44	160 U	120	320	2.7	3.1	ND
Chloromethane	10 U	68 U	1.5 U	5.2 U	1.1	1.3	ND
Trichlorofluoromethane	90	73 U	84	17	1.7	2	ND
Freon TF	15 U	100 U	2.3 U	7.7 U	1.5 U	1.5 U	ND
Methylene Chloride	17 U	110 U	2.6 U	8.7 U	2.1	4.2	ND
1,1-Dichloroethane	8.1 U	53 U	1.2 U	4 U	0.81 U	0.81 U	ND
cis-1,2-Dichloroethene	7.9 U	3100	1.2 U	4 U	0.79 U	0.79 U	5600
Chloroform	39	63 U	16	4.9 U	0.98 U	0.98 U	ND
1,1,1-Trichloroethane	11 U	71 U	1.6 U	5.5 U	1.1 U	1.1 U	ND
Benzene	8.9	42 U	5.8	3.2 U	0.64 U	0.93	ND
Trichloroethene	11 U	590	1.6 U	5.4 U	1.1 U	1.5	860
Toluene	29	49 U	35	45	2.4	14	ND
Tetrachloroethene	22	3900	6	6.8 U	1.4 U	5.5	3250
Ethylbenzene	12	56 U	5.2	4.3 U	1.2	0.87 U	ND
Xylene (m,p)	42	56 U	13	10	3.7	2.4	ND
Styrene	11	55 U	2.4	4.3 U	0.85 U	0.85 U	ND
Xylene (o)	33	56 U	5.2	4.3 U	1.1	1	ND
1,3-Dichlorobenzene	12 U	78 U	1.8 U	6 U	1.2 U	1.2 U	ND
1,4-Dichlorobenzene	12 U	78 U	1.8 U	6 U	1.2 U	1.2 U	ND
1,3,5-Trimethylbenzene	33	64 U	1.5 U	4.9 U	0.98 U	0.98 U	ND
1,2,4-Trimethylbenzene	79	64 U	2.9	4.9 U	0.98 U	1.8	ND
Carbon Disulfide	62	100 U	9.3	29	1.6 U	1.6 U	ND
Acetone	550	780 U	130	310	14	22	ND
Isopropyl Alcohol	120 U	810 U	18 U	61 U	12 U	12 U	ND
Methyl tert-Butyl Ether	18 U	120 U	2.7 U	9 U	1.8 U	1.8 U	ND
Cyclohexane	29	59	15	55	0.69 U	0.69 U	ND
Methyl Ethyl Ketone	22	97 U	18	15	1.9	2.6	ND
Methyl Isobutyl Ketone	20 U	140 U	3.1 U	10 U	2 U	3.9	ND
Methyl Butyl Ketone	20 U	140 U	6.1	10 U	2 U	5.3	ND
trans-1,2-Dichloroethene	7.9 U	270	1.2 U	4 U	0.79 U	0.79 U	480
4-Ethyltoluene	43	64 U	2.8	4.9 U	0.98 U	1.5	ND
2,2,4-Trimethylpentane	9.3 U	61 U	1.4 U	4.7 U	0.93 U	0.93 U	ND
n-Hexane	8.8	46 U	6.7	6.3	1	2.4	ND
n-Heptane	49	120	26	12	1	1.1	ND
1,2-Dichloroethene (total)	7.9 U	3400	1.2 U	4 U	0.79 U	0.79 U	ND
Xylene (total)	78	56 U	18	10	4.8	3.5	ND
tert-Butyl Alcohol	150 U	1000 U	23 U	76 U	15 U	15 U	ND

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	1	5	1	1	1	10	1
Method Blank	4046	MB-55164	MB-55227	MB-55164	MB-55212	MB-55206	MB-55227	MB-55292
Client ID	RSCO[1]	QW-SB-1(9-11)	QW-SB-1(25-27)	QW-SB-2(5-7)	QW-SB-2(25-27)	QW-SB-3(5-7)	QW-SB-3(11-13)	QW-SB-4(5-7)
Lab Sample ID		210779-017	210779-018	210779-015	210779-016	210779-020	210779-021	210846-001
Date Sampled		9/16/2005	9/16/2005	9/15/2005	9/15/2005	9/19/2005	9/19/2005	9/20/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound								
1 2-Dichloropropane	NA	1.2 U	620 U	1.1 U	1.3 U	1.2 U	1,100 U	1.3 U
2-Butanone (MEK)	300	2.4 U	830 U	2.4 U	2.7 UB	2.6 U	1,500 U	2.7 U
4-Methyl-2-pentanone (MIBK)	1000	1.1 U	490 U	1 U	1.2 U	2.5 J	850 U	1.2 U
Acetone	200	84 B	1,200 JB	48 B	23 B	36 B	1,700 UB	140 B
Benzene	60	1.5 U	710 J	3 J	40	2.3 J	28,000	1.6 U
Bromodichloromethane	NA	0.96 U	280 U	0.93 U	1 U	1 U	480 U	1 U
Carbon disulfide	2700	1.8 U	620 U	3.7 J	4.3 J	3.2 J	1,100 U	5 J
cis-1 2-Dichloroethene	100	1.3 U	420 U	1.2 U	1.4 U	1.4 J	730 U	1.4 U
Ethylbenzene	5500	3.4 J	19,000	4.4 J	110	2 U	4,900 J	2.1 U
Methylene chloride	100	25 B	2,600 JB	29 B	10 JB	13 B	2,500 JB	41 B
Methyl-tert-butyl-ether (MTBE)	NA	0.32 U	210 U	0.31 U	0.35 U	0.34 U	360 U	0.35 U
Styrene	NA	1.1 U	350 U	1 U	1.2 U	1.1 U	14,000	1.2 U
Tetrachloroethene	1400	2 U	350 U	2 U	2.2 U	4.3 J	610 U	2.2 U
Toluene	1500	1.8 U	2,000 J	3.7 J	2 U	4.8 J	39,000	4.4 J
Trichloroethene	700	3.3 J	490 U	1.8 U	2 U	2 J	850 U	3 J
Xylenes (total)	1200	9.2	31,000	15	8.2	5.1 U	57,000	6.8
Total BTEX	NS	12.6	52,710	26.1	158.2	7.1	128,900	11.2
Totol VOCs	10,000	124.9	56,510	106.8	198.2	69.5	147,100	200.2

See notes at end of table section.

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	1	1	1	1	1	1	1
Method Blank	4046	MB-55174	MB-55292	MB-55174	MB-55164	MB-55227	MB-55164	MB-55227
Client ID	RSCO[1]	QW-SB-4(19-21)	QW-SB-5(5-7)	QW-SB-5(15-17)	QW-SB-6(5-7)	QW-SB-6(15-17)	QW-SB-7(7-9)	QW-SB-7(17-19)
Lab Sample ID		210846-002	210846-003	210846-004	210779-008	210779-009	210779-010	210779-011
Date Sampled		9/20/2005	9/21/2005	9/21/2005	9/14/2005	9/14/2005	9/14/2005	9/15/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound								
1 2-Dichloropropane	NA	1.3 U	1.3 U	1.4 U	1.5 U	120 U	1.2 U	140 U
2-Butanone (MEK)	300	2.7 U	2.7 U	2.9 U	3.1 U	160 U	2.5 U	180 U
4-Methyl-2-pentanone (MIBK)	1000	1.2 U	1.2 U	1.3 U	2.1 J	91 U	1.1 U	110 U
Acetone	200	21 B	28 B	35 B	130 B	390 JB	12 B	500 JB
Benzene	60	1.6 U	1.6 U	1.8 U	6 J	200 J	1.6 UH	3,300
Bromodichloromethane	NA	1.1 U	1.1 U	1.1 U	1.2 U	52 U	1 U	60 U
Carbon disulfide	2700	2.2 J	2.1 J	3.2 J	3 J	120 U	1.9 U	140 U
cis-1 2-Dichloroethene	100	1.4 U	1.4 U	1.5 U	1.6 U	78 U	1.3 U	90 U
Ethylbenzene	5500	2.1 U	2.1 U	6.8	2.4 U	360 J	2 U	3,600
Methylene chloride	100	12 B	18 B	16 B	34 B	390 JB	15 B	520 JB
Methyl-tert-butyl-ether (MTBE)	NA	0.35 U	0.35 U	0.63 J	0.4 U	39 U	0.33 U	45 U
Styrene	NA	1.2 U	1.2 U	1.3 U	1.3 U	65 U	1.1 U	120 J
Tetrachloroethene	1400	2.2 U	2.2 U	2.4 U	2.6 U	65 U	2.1 U	75 U
Toluene	1500	2 U	3.8 J	2.2 U	7	81 J	1.9 U	4,900
Trichloroethene	700	2 U	2 U	2.2 U	6.5 J	91 U	6.6	110 U
Xylenes (total)	1200	5.3 U	5.3 U	8.4	6.1 U	710	5 U	18,000
Total BTEX	NS	ND	3.8	15.2	13	1351	1.6	29,800
Totol VOCs	10,000	35.2	51.9	70.03	188.6	2131	35.2	30,940

See notes at end of table section.

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	1	1	1	1	10	1	1
Method Blank	4046	MB-55227	MB-55292	MB-55174	MB-55082	MB-55081	MB-55082	MB-55083
Client ID	RSCO[1]	QW-SB-7B(17-19)[2]	QW-SB-8(5-7)	QW-SB-8(17-19)	QW-SB-9(5-7)	QW-SB-9(17-19)	QW-SB-10(7-9)	QW-SB-10(17-19)
Lab Sample ID		210779-012	210846-005	210846-006	210779-003	210779-004	210779-005	210779-007
Date Sampled		9/15/2005	9/22/2005	9/22/2005	9/12/2005	9/12/2005	9/13/2005	9/13/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound								
1 2-Dichloropropane	NA	130 U	1.2 U	1.3 U	1.2 U	1,300 U	1.2 U	1.5 U
2-Butanone (MEK)	300	180 U	2.6 U	2.8 U	2.5 U	1,700 U	2.5 U	3.2 U
4-Methyl-2-pentanone (MIBK)	1000	100 U	1.1 U	1.2 U	1.2 J	1,000 U	1.2 J	1.4 U
Acetone	200	440 JB	20 B	46 B	6.3 JB	3,800 JB	41 B	20 B
Benzene	60	4,700	1.6 U	1.7 U	1.5 U	580 U	2.2 J	2 U
Bromodichloromethane	NA	59 U	1 U	1.1 U	0.99 U	580 U	0.98 U	1.3 U
Carbon disulfide	2700	130 U	1.9 U	3.2 J	1.9 U	1,300 U	1.9 U	5.3 J
cis-1 2-Dichloroethene	100	89 U	1.3 U	1.5 U	1.3 U	870 U	1.3 U	1.7 U
Ethylbenzene	5500	2,600	2 U	230	2 U	3,700 J	3.9 J	5.6 J
Methylene chloride	100	450 JB	20 B	15 B	22 B	2,800 JB	200 B	20 B
Methyl-tert-butyl-ether (MTBE)	NA	44 U	0.34 U	0.36 U	0.33 U	430 U	0.33 U	0.42 U
Styrene	NA	74 U	1.1 U	1.2 U	1.1 U	720 U	1.1 U	1.4 U
Tetrachloroethene	1400	74 U	2.1 U	2.3 U	2.1 U	720 U	2.1 U	2.7 U
Toluene	1500	3,400	1.9 U	2.1 U	1.9 U	430 U	7.4	2.4 U
Trichloroethene	700	100 U	7.7	2.6 J	3.5 J	1,000 U	42	2.4 U
Xylenes (total)	1200	12,000	5.1 U	520	4.9 U	5,600 J	16	9.7
Total BTEX	NS	22,700	ND	750	ND	9,300	29.5	15.3
Totol VOCs	10,000	23,590	47.7	816.8	33	15,900	313.7	60.6

See notes at end of table section.

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	1	20	5	5	1	10	10
Method Blank	4046	MB-55082	MB-55081	MB-54634	MB-54634	MB-54586	MB-54634	MB-54634
Client ID	RSCO[1]	QW-SB-13(4-6)	QW-SB-13(14-16)	QW-SB-14(7-9)	QW-SB-14(14-16)	QW-SB-15(4-6)	QW-SB-15(16-18)	QW-SB-15B(16-18)[2]
Lab Sample ID		210779-001	210779-002	210724-004	210724-005	210724-001	210724-002	210724-003
Date Sampled		9/12/2005	9/12/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound								
1 2-Dichloropropane	NA	1.3 U	2,200 U	520 U	550 U	1.3 U	1,100 U	1,100 U
2-Butanone (MEK)	300	2.7 U	3,000 U	690 U	730 U	2.8 U	1,500 U	1,500 U
4-Methyl-2-pentanone (MIBK)	1000	1.3 J	1,700 U	400 U	430 U	1.2 U	860 U	880 U
Acetone	200	13 B	4,200 JB	810 UB	1,900 JB	18 B	1,700 UB	2,500 JB
Benzene	60	1.9 J	1,000 U	230 U	1,400 J	3.3 J	1,700 J	1,100 J
Bromodichloromethane	NA	1.1 U	1,000 U	230 U	240 U	1.1 U	490 U	500 U
Carbon disulfide	2700	2 U	2,200 U	520 U	550 U	2.1 U	1,100 U	1,100 U
cis-1 2-Dichloroethene	100	1.4 U	1,500 U	350 U	370 U	1.5 U	730 U	750 U
Ethylbenzene	5500	2.1 U	10,000 J	820 J	18,000	2.2 U	100,000	130,000
Methylene chloride	100	110 B	4,300 JB	320 JB	250 JB	9.2 JB	680 JB	580 JB
Methyl-tert-butyl-ether (MTBE)	NA	0.35 U	750 U	170 U	180 U	0.37 U	370 U	380 U
Styrene	NA	1.2 U	1,200 U	290 U	300 U	1.2 U	610 U	2,000 J
Tetrachloroethene	1400	2.2 U	1,200 U	290 U	300 U	2.3 U	610 U	630 U
Toluene	1500	2.2 J	750 U	170 U	50,000	9.6	110,000	130,000
Trichloroethene	700	28	1,700 U	400 U	430 U	2.1 U	860 U	880 U
Xylenes (total)	1200	5.3 U	47,000	3,700	60,000	5.5 U	420,000	520,000
Total BTEX	NS	4.1	57,000	4,520	129,400	12.9	631,700	781,100
Totol VOCs	10,000	156.4	65,500	5,650	131,550	40.1	634,080	786,180

See notes at end of table section.

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	1	1	1	20	1	10	1
Method Blank	4046	MB-55850	MB-55851	MB-55850	MB-55851	MB-57129	MB-57144	MB-57197
Client ID	RSCO[1]	QW-SB-16(2-4)	QW-SB-16(17-19)	QW-SB-17(1-3)	QW-SB-17(25-27)	QW-SB-18(6-8)	QW-SB-18(12-14)	QW-SB-19(6-8)
Lab Sample ID		210950-011	210950-012	210950-013	210950-014	211192-001	211192-002	211192-005
Date Sampled		9/28/2005	9/28/2005	9/28/2005	9/28/2005	10/26/2005	10/26/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound								
1 2-Dichloropropane	NA	1.2 U	120 U	1.2 U	2,200 U	1.2 U	1,400 U	1.2 U
2-Butanone (MEK)	300	3.7 JB	160 U	3.5 JB	3,000 U	16	1,800 U	76
4-Methyl-2-pentanone (MIBK)	1000	1.1 U	95 U	1.1 U	1,700 U	1.1 U	1,100 U	1.1 U
Acetone	200	3.3 JB	730 J	3 JB	3,500 U	23	2,100 UB	54
Benzene	60	1.5 U	280 J	1.6 U	10,000 J	6	610 U	2.3 J
Bromodichloromethane	NA	0.99 U	54 U	1 U	990 U	0.97 U	610 U	1 U
Carbon disulfide	2700	1.9 U	120 U	1.9 U	2,200 U	1.8 U	1,400 U	1.9 U
cis-1 2-Dichloroethene	100	1.3 U	81 U	1.3 U	1,500 U	1.3 U	920 U	1.4 U
Ethylbenzene	5500	2 U	1,100	2 U	140,000	140	3,300 J	13
Methylene chloride	100	39	1,100 B	31	4,200 JB	8.8 JB	2,100 JB	8.8 J
Methyl-tert-butyl-ether (MTBE)	NA	0.33 U	41 U	0.33 U	740 U	0.32 U	460 U	0.34 U
Styrene	NA	1.1 U	68 U	1.1 U	1,200 U	1.1 U	1,700 J	5.6 J
Tetrachloroethene	1400	2.1 U	68 U	2.1 U	1,200 U	2 U	770 U	2.1 U
Toluene	1500	1.9 U	140 J	1.9 U	7,200 J	18	1,500 J	14
Trichloroethene	700	9.5	95 U	5.9	1,700 U	1.8 U	1,100 U	1.9 U
Xylenes (total)	1200	5 U	680 J	5 U	340,000	370	39,000	63
Total BTEX	NS	ND	2,200	ND	497,200	534	43,800	92.3
Totol VOCs	10,000	55.5	4,030	43.4	501,400	581.8	49,700	236.7

See notes at end of table section.

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	50	50	1	50	1	20	1
Method Blank	4046	MB-57144	MB-57144	MB-57129	MB-57144	MB-57129	MB-57247	MB-57129
Client ID	RSCO[1]	QW-SB-19(26-28)	QW-SB-19B(26-28)[2]	QW-SB-20(4-6)	QW-SB-20(28-30)	QW-SB-21(6-8)	QW-SB-21(20-22)	QW-SB-22(2-4)
Lab Sample ID		211192-006	211192-007	211192-008	211192-009	211192-013	211192-014	211192-010
Date Sampled		10/27/2005	10/27/2005	10/27/2005	10/27/2005	10/28/2005	10/28/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound								
1 2-Dichloropropane	NA	5,400 U	5,300 U	1.2 U	5,100 U	1.3 U	2,300 U	1.2 U
2-Butanone (MEK)	300	7,200 U	7,000 U	49	6,800 U	2.7 U	3,100 U	74
4-Methyl-2-pentanone (MIBK)	1000	4,200 U	4,100 U	1.1 U	4,000 U	1.2 U	1,800 U	1.1 U
Acetone	200	8,300 UB	8,200 UB	21 J	7,900 UB	15 J	3,600 UB	25
Benzene	60	2,400 U	2,300 U	2 J	2,300 U	7.3	3,000 J	1.6 U
Bromodichloromethane	NA	2,400 U	2,300 U	1 U	2,300 U	1.1 U	1,000 U	1 U
Carbon disulfide	2700	5,400 U	5,300 U	1.9 U	5,100 U	2 U	2,300 U	1.9 U
cis-1 2-Dichloroethene	100	3,600 U	3,500 U	1.3 U	3,400 U	1.4 U	1,500 U	1.3 U
Ethylbenzene	5500	6,000 U	5,800 U	5.4 J	240,000	5.7 J	150,000	2 U
Methylene chloride	100	8,200 JB	8,500 JB	5.7 JB	7,100 JB	8.4 JB	5,600 JB	13 JB
Methyl-tert-butyl-ether (MTBE)	NA	1,800 U	1,800 U	0.33 U	1,700 U	0.35 U	770 U	0.33 U
Styrene	NA	3,000 U	2,900 U	1.1 U	20,000 J	1.2 U	25,000	1.1 U
Tetrachloroethene	1400	3,000 U	2,900 U	2.1 U	2,800 U	2.2 U	1,300 U	2.1 U
Toluene	1500	1,800 U	1,800 U	3 J	36,000	6.6	140,000	1.9 U
Trichloroethene	700	4,200 U	4,100 U	1.9 U	4,000 U	2 U	1,800 U	1.9 U
Xylenes (total)	1200	14,000 J	9,300 J	22	810,000	34	950,000	6
Total BTEX	NS	14,000	9,300	32.4	1,086,000	53.6	1,243,000	6
Totol VOCs	10,000	30,500	26,000	108.1	1,121,000	77	1,277,200	118

See notes at end of table section.

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	1	10	1	1	1	1	1
Method Blank	4046	MB-57129	MB-57144	MB-56928	MB-57494	MB-56928	MB-54511	MB-54938
Client ID	RSCO[1]	QW-SB-24(6-8)	QW-SB-24(18-20)	QW-FIELD BLANK-1	QW-TRIP BLANK-2	QW-TRIP BLANK-1	TRIP BLANK	FIELD BLANK
Lab Sample ID		211192-011	211192-012	211192-003	211192-015	211192-004	210724-006	210779-013
Date Sampled		10/28/2005	10/28/2005	10/27/2005	10/28/2005	10/27/2005	9/9/2005	9/15/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L	ug/L	ug/L
Compound								
1 2-Dichloropropane	NA	1.3 U	1,100 U	0.9 U	0.9 U	0.9 U	0.9 U	4 JB
2-Butanone (MEK)	300	75	1,500 U	11	1.2 U	1.2 U	1.2 U	3.3 JB
4-Methyl-2-pentanone (MIBK)	1000	1.2 U	850 U	0.7 U	0.7 U	0.7 U	0.7 U	NR
Acetone	200	92	1,700 UB	2.7 J	1.4 U	2.4 J	1.4 U	0.6 U
Benzene	60	3.2 J	870 J	0.4 U	0.4 U	0.4 U	0.4 U	0.6 U
Bromodichloromethane	NA	1 U	490 U	0.4 U	0.4 U	0.4 U	0.4 U	9.2 J
Carbon disulfide	2700	2 U	1,100 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U
cis-1 2-Dichloroethene	100	1.4 U	730 U	0.6 U	0.6 U	0.6 U	0.6 U	0.5 U
Ethylbenzene	5500	64	1,900 J	1 U	1 U	1 U	1 U	0.8 U
Methylene chloride	100	11 JB	1,900 JB	3.1 JB	2.1 JB	5.3 B	4.4 J	0.6 U
Methyl-tert-butyl-ether (MTBE)	NA	0.35 U	370 U	0.3 U	0.3 U	0.3 U		0.5 U
Styrene	NA	1.2 U	610 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8 U
Tetrachloroethene	1400	2.2 U	610 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	1500	3 J	370 U	0.3 U	0.3 U	0.3 U	0.79 J	0.4 U
Trichloroethene	700	2 U	850 U	0.7 U	0.7 U	0.7 U	0.7 U	0.8 U
Xylenes (total)	1200	83	3,600 J	1 U	1 U	1 U	1 U	1 U
Total BTEX	NS	153.2	6,370	0	0	0	0.79	0
Totol VOCs	10,000	331.2	9,970	16.8	2.1	7.7	5.19	12.5

See notes at end of table section.

TABLE 5
VOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFFSITE, QUEENS, NEW YORK

Dilution	TAGM	1	1	1	1
Method Blank	4046	MB-54938	MB-54938	MB-55254	MB-55254
Client ID	RSCO[1]	TRIP BLANK	TRIP BLANK	FIELD BLANK	TRIP BLANK
Lab Sample ID		210779-014	210779-006	210846-007	210846-008
Date Sampled		9/15/2005	9/13/2005	9/22/2005	9/21/2005
Units	ug/Kg	ug/L	ug/L	ug/L	ug/L
Compound					
1 2-Dichloropropane	NA	4.1 JB	3.2 JB	8.8 J	8.5 J
2-Butanone (MEK)	300	3.6 JB	5 JB	4.3 JB	4.2 JB
4-Methyl-2-pentanone (MIBK)	1000	NR	NR	0.3 U	0.3 U
Acetone	200	0.6 U	0.6 U	0.6 U	0.6 U
Benzene	60	0.6 U	0.6 U	0.6 U	0.6 U
Bromodichloromethane	NA	9.5 J	1.2 J	7.8 J	7.3 J
Carbon disulfide	2700	1 U	1 U	1 U	1 U
cis-1 2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	5500	0.8 U	0.8 U	0.8 U	0.8 U
Methylene chloride	100	0.6 U	0.6 U	0.6 U	0.6 U
Methyl-tert-butyl-ether (MTBE)	NA	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	NA	0.8 U	0.8 U	0.8 U	0.8 U
Tetrachloroethene	1400	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	1500	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethene	700	0.8 U	0.8 U	0.8 U	0.8 U
Xylenes (total)	1200	1 U	1 U	1 U	1 U
Total BTEX	NS	0	0	0	0
Totol VOCs	10,000	13.1	6.2	12.1	11.5

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	5	400	1	1	1	400
Method Blank	4046	MB-55278	MB-55278	MB-55278	MB-55278	MB-55278	MB-55278
Client ID	RSCO[1]	QW-SB-1(9-11)	QW-SB-1(25-27)	QW-SB-2(5-7)	QW-SB-2(25-27)	QW-SB-3(5-7)	QW-SB-3(11-13)
Lab Sample ID		210779-017	210779-018	210779-015	210779-016	210779-020	210779-021
Date Sampled		9/16/2005	9/16/2005	9/15/2005	9/15/2005	9/19/2005	9/19/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36400	1,400 J	240,000	530	58 U	1,600	140,000 J
Acenaphthene	50000	3,100	610,000	590	380	580	37,000 J
Acenaphthylene	41000	350 J	22,000 U	270 J	45 U	570	140,000 J
Anthracene	50000	4,400	120,000 J	1,100	61 U	1,000	120,000 J
Benzo(a)anthracene	224	5,300	59,000 J	2,100	50 U	2,500	97,000 J
Benzo(a)pyrene	61	4,200	22,000 U	1,800	45 U	2,200	84,000 J
Benzo(b)fluoranthene	1100	4,100	51,000 U	1,900	100 U	2,900	77,000 J
Benzo(ghi)perylene	50000	2,700	20,000 U	1,400	41 U	1,600	53,000 J
Benzo(k)fluoranthene	1100	1,600 JM	20,000 U	740	41 U	1,200	28,000 J
Bis(2-ethylhexyl)phthalate	50000	440 J	24,000 U	200 J	49 U	210 J	21,000 U
Butyl benzyl phthalate	50000	220 U	24,000 U	89 J	47 U	54 J	20,000 U
Carbazole	NA	1,800	27,000 U	330	1,100	340 J	53,000 J
Chrysene	400	5,000	47,000 J	2,000	46 U	2,800	87,000 J
Dibenzo(a h)anthracene	14	930 J	20,000 U	430	41 U	520	18,000 U
Dibenzofuran	6200	2,200	410,000	570	520	810	97,000 J
Diethyl phthalate	7100	250 U	27,000 U	49 U	54 U	54 U	23,000 U
Fluoranthene	50000	11,000	510,000	4,200	46 U	4,000	270,000
Fluorene	50000	3,600	420,000	650	1,100	540	110,000 J
Indeno(1 2 3-cd)pyrene	3200	2,200	19,000 U	1,300	38 U	1,500	49,000 J
Naphthalene	13000	1,400 J	750,000	1,900	100 J	1,600	820,000
Phenanthrene	50000	16,000	1,500,000	3,300	1,400	3,300	420,000
Pyrene	50000	9,200	340,000	3,900	51 U	3,600	210,000
Naphthalene+2-Methylnaphthalene	NS	2,800	990,000	2,430	100	3,200	960,000
Total SVOCs	500,000	80,920	5,006,000	29,299	4,600	33,424	2,892,000

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	10	1	4	1	2	400
Method Blank	4046	MB-55258	MB-55258	MB-55443	MB-55443	MB-55278	MB-55278
Client ID	RSCO[1]	QW-SB-4(5-7)	QW-SB-4(19-21)	QW-SB-5(5-7)	QW-SB-5(15-17)	QW-SB-6(5-7)	QW-SB-6(15-17)
Lab Sample ID		210846-001	210846-002	210846-003	210846-004	210779-008	210779-009
Date Sampled		9/20/2005	9/20/2005	9/21/2005	9/21/2005	9/14/2005	9/14/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36400	1,400 J	59 U	1,500 J	240 J	430 J	250,000
Acenaphthene	50000	2,900 J	62 U	1,600	980	1,000	290,000
Acenaphthylene	41000	720 J	46 U	2,000	180 J	210 J	21,000 U
Anthracene	50000	6,100	62 U	4,100	810	2,000	87,000 J
Benzo(a)anthracene	224	8,800	51 U	10,000	550	4,000	26,000 J
Benzo(a)pyrene	61	7,000	46 U	9,300	610	3,400	21,000 U
Benzo(b)fluoranthene	1100	6,700	100 U	8,500	570	3,500	48,000 U
Benzo(ghi)perylene	50000	4,700 M	42 U	5,400 M	450 M	2,700	19,000 U
Benzo(k)fluoranthene	1100	2,500 J	42 U	3,900	240 J	1,400	19,000 U
Bis(2-ethylhexyl)phthalate	50000	3,200 J	49 U	210 U	56 U	590 J	23,000 U
Butyl benzyl phthalate	50000	920 J	48 U	500 J	55 U	110 U	22,000 U
Carbazole	NA	2,400 J	55 U	1,200 J	510	680 J	40,000 J
Chrysene	400	8,600	47 U	9,900	500	3,900	23,000 J
Dibenzo(a h)anthracene	14	1,200 JM	42 U	1,700 M	130 JM	760 J	19,000 U
Dibenzofuran	6200	2,200 J	59 U	1,300 J	480	740 J	220,000
Diethyl phthalate	7100	570 U	55 U	230 U	62 U	130 U	25,000 U
Fluoranthene	50000	16,000	47 U	15,000	1,600	8,200	260,000
Fluorene	50000	2,500 J	48 U	1,700	980	1,100	230,000
Indeno(1 2 3-cd)pyrene	3200	4,000 M	38 U	5,600	350 JM	2,300	18,000 U
Naphthalene	13000	3,300 J	64 U	1,700	1,300	840 J	930,000
Phenanthrene	50000	19,000	44 U	12,000	870	7,600	830,000
Pyrene	50000	16,000	52 U	15,000	2,100	7,300	180,000
Naphthalene+2-Methylnaphthalene	NS	4,700	ND	3,200	1,540	1,270	1,180,000
Total SVOCs	500,000	120,140	ND	111,900	13,450	52,650	3,366,000

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	10	100	400	10	4	2
Method Blank	4046	MB-55278	MB-55278	MB-55278	MB-55258	MB-55258	MB-55278
Client ID	RSCO[1]	QW-SB-7(7-9)	QW-SB-7(17-19)	QW-SB-7B(17-19)[2]	QW-SB-8(5-7)	QW-SB-8(17-19)	QW-SB-9(5-7)
Lab Sample ID		210779-010	210779-011	210779-012	210846-005	210846-006	210779-003
Date Sampled		9/14/2005	9/15/2005	9/15/2005	9/22/2005	9/22/2005	9/12/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36400	2,400 J	48,000	190,000 J	710 J	5,600	320 J
Acenaphthene	50000	6,500	74,000	79,000 J	3,300 J	6,100	730
Acenaphthylene	41000	890 J	5,900 U	24,000 U	1,000 J	200 U	780
Anthracene	50000	6,100	42,000 J	32,000 J	8,500	4,400	2,100
Benzo(a)anthracene	224	15,000	23,000 J	26,000 U	18,000	350 J	4,800
Benzo(a)pyrene	61	14,000	17,000 J	24,000 U	17,000	200 U	5,400
Benzo(b)fluoranthene	1100	17,000	18,000 J	54,000 U	19,000	450 U	5,900
Benzo(ghi)perylene	50000	14,000	12,000 J	21,000 U	13,000 M	180 U	2,700
Benzo(k)fluoranthene	1100	6,600	6,500 J	21,000 U	7,100	180 U	3,800
Bis(2-ethylhexyl)phthalate	50000	480 U	6,300 U	25,000 U	490 U	210 U	95 U
Butyl benzyl phthalate	50000	470 U	6,200 U	25,000 U	480 U	210 U	93 U
Carbazole	NA	1,700 J	7,100 J	28,000 U	3,700	3,600	560 J
Chrysene	400	16,000	23,000 J	24,000 U	20,000	310 J	5,800
Dibenzo(a h)anthracene	14	3,300 J	5,300 U	21,000 U	3,400 JM	180 U	900
Dibenzofuran	6200	4,200	39,000 J	72,000 J	2,200 J	4,700	550 J
Diethyl phthalate	7100	530 U	7,000 U	28,000 U	550 U	240 U	110 U
Fluoranthene	50000	31,000	68,000	38,000 J	37,000	3,000	11,000
Fluorene	50000	3,900	43,000 J	73,000 J	3,400 J	5,600	630 J
Indeno(1 2 3-cd)pyrene	3200	10,000	9,800 J	20,000 U	11,000	160 U	3,100
Naphthalene	13000	3,400 J	260,000	850,000	1,100 J	9,600	810
Phenanthrene	50000	30,000	130,000	150,000 J	28,000	11,000	7,200
Pyrene	50000	27,000	60,000	27,000 J	32,000	1,800	9,400
Naphthalene+2-Methylnaphthalene	NS	5,800	308,000	1,040,000	1,810	15,200	1,130
Total SVOCs	500,000	212,990	880,400	1,511,000	229,410	56,060	66,480

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	250	4	4	25	2000	100
Method Blank	4046	MB-55278	MB-55278	MB-55278	MB-55278	MB-55278	MB-54601
Client ID	RSCO[1]	QW-SB-9(17-19)	QW-SB-10(7-9)	QW-SB-10(17-19)	QW-SB-13(4-6)	QW-SB-13(14-16)	QW-SB-14(7-9)
Lab Sample ID		210779-004	210779-005	210779-007	210779-001	210779-002	210724-004
Date Sampled		9/12/2005	9/13/2005	9/13/2005	9/12/2005	9/12/2005	9/8/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36400	170,000	540 J	310 J	1,900 J	430,000 J	56,000 J
Acenaphthene	50000	110,000 J	890 J	1,800 J	1,800 J	140,000 U	200,000
Acenaphthylene	41000	15,000 U	460 J	500 J	1,200 U	100,000 U	18,000 U
Anthracene	50000	48,000 J	1,700	6,200	7,500 J	140,000 U	390,000
Benzo(a)anthracene	224	16,000 U	4,400	7,200	59,000	110,000 U	460,000
Benzo(a)pyrene	61	15,000 U	4,200	6,000	55,000	100,000 U	240,000
Benzo(b)fluoranthene	1100	33,000 U	400 U	4,900	49,000	230,000 U	340,000
Benzo(ghi)perylene	50000	13,000 U	2,700	4,200	34,000	92,000 U	95,000 J
Benzo(k)fluoranthene	1100	13,000 U	160 U	5,300	55,000	92,000 U	120,000 J
Bis(2-ethylhexyl)phthalate	50000	16,000 U	190 U	240 U	1,300 U	110,000 U	20,000 U
Butyl benzyl phthalate	50000	15,000 U	180 U	240 U	1,300 U	110,000 U	19,000 U
Carbazole	NA	38,000 J	210 U	770 J	1,400 U	120,000 U	120,000 J
Chrysene	400	15,000 U	5,000	8,300	71,000	100,000 U	440,000
Dibenzo(a h)anthracene	14	13,000 U	160 U	200 U	7,000 J	92,000 U	26,000 J
Dibenzofuran	6200	100,000 J	690 J	1,100 J	2,000 J	160,000 J	180,000
Diethyl phthalate	7100	18,000 U	210 U	270 U	1,400 U	120,000 U	22,000 U
Fluoranthene	50000	64,000 J	9,700	23,000	90,000	100,000 U	1,300,000
Fluorene	50000	97,000 J	920 J	1,700 J	1,300 U	110,000 U	200,000
Indeno(1 2 3-cd)pyrene	3200	12,000 U	2,500	4,200	30,000	84,000 U	110,000 J
Naphthalene	13000	1,000,000	9,400	1,100 J	1,700 U	4,100,000	96,000 J
Phenanthrene	50000	230,000	7,100	14,000	34,000	270,000 J	1,500,000
Pyrene	50000	50,000 J	10,000	22,000	120,000	110,000 U	1,300,000
Naphthalene+2-Methylnaphthalene	NS	1,170,000	9,940	1,410	1,900	4,530,000	152,000
Total SVOCs	500,000	1,907,000	60,200	112,580	617,200	4,960,000	7,173,000

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	100	20	2000	5000	4	10
Method Blank	4046	MB-54601	MB-54601	MB-54601	MB-54601	MB-55788	MB-55788
Client ID	RSCO[1]	QW-SB-14(14-16)	QW-SB-15(4-6)	QW-SB-15(16-18)	QW-SB-15B(16-18)[2]	QW-SB-16(2-4)	QW-SB-16(17-19)
Lab Sample ID		210724-005	210724-001	210724-002	210724-003	210950-011	210950-012
Date Sampled		9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/28/2005	9/28/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36400	100,000	2,600 U	1,500,000 J	1,200,000 J	590 J	710 U
Acenaphthene	50000	45,000	2,700 U	400,000 J	390,000 J	2,200 J	39,000
Acenaphthylene	41000	5,000 U	14,000 J	190,000 U	250,000 U	430 J	550 U
Anthracene	50000	21,000 J	20,000	260,000 U	330,000 U	3,900	14,000
Benzo(a)anthracene	224	5,600 J	90,000	210,000 U	270,000 U	7,100	4,000 J
Benzo(a)pyrene	61	5,000 U	90,000	190,000 U	250,000 U	7,000	2,400 J
Benzo(b)fluoranthene	1100	11,000 U	120,000	440,000 U	560,000 U	8,100	2,800 J
Benzo(ghi)perylene	50000	4,500 U	58,000	180,000 U	220,000 U	3,400	1,200 J
Benzo(k)fluoranthene	1100	4,500 U	33,000	180,000 U	220,000 U	3,100	1,300 J
Bis(2-ethylhexyl)phthalate	50000	5,300 U	2,100 U	210,000 U	270,000 U	380 U	590 U
Butyl benzyl phthalate	50000	5,200 U	2,100 U	200,000 U	260,000 U	370 U	580 U
Carbazole	NA	14,000 J	2,800 J	230,000 U	300,000 U	1,300 J	3,200 J
Chrysene	400	5,100 U	82,000	200,000 U	250,000 U	7,400	4,200 J
Dibenzo(a h)anthracene	14	4,500 U	12,000 JM	180,000 U	220,000 U	1,000 J	490 U
Dibenzofuran	6200	35,000 J	3,300 J	330,000 J	320,000 U	1,300 J	20,000
Diethyl phthalate	7100	5,900 U	2,400 U	230,000 U	300,000 U	420 U	660 U
Fluoranthene	50000	23,000 J	140,000	200,000 U	250,000 U	15,000	24,000
Fluorene	50000	44,000	4,500 J	280,000 J	260,000 U	1,900 J	26,000
Indeno(1 2 3-cd)pyrene	3200	4,100 U	55,000	160,000 U	210,000 U	3,100	1,000 J
Naphthalene	13000	380,000	7,800 J	24,000,000	11,000,000	1,100 J	3,200 J
Phenanthrene	50000	82,000	58,000	550,000 J	500,000 J	14,000	68,000
Pyrene	50000	17,000 J	140,000	220,000 U	280,000 U	11,000	17,000
Naphthalene+2-Methylnaphthalene	NS	480,000	7,800	25,500,000	12,200,000	1,690	3,200
Total SVOCs	500,000	766,600	930,400	27,060,000	13,090,000	92,920	231,300

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	2	200	20	200	20	200
Method Blank	4046	MB-55788	MB-55788	MB-57009	MB-57009	MB-57009	MB-57009
Client ID	RSCO[1]	QW-SB-17(1-3)	QW-SB-17(25-27)	QW-SB-18(6-8)	QW-SB-18(12-14)	QW-SB-19(6-8)	QW-SB-19(26-28)
Lab Sample ID		210950-013	210950-014	211192-001	211192-002	211192-005	211192-006
Date Sampled		9/28/2005	9/28/2005	10/26/2005	10/26/2005	10/27/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36400	230 U	88,000	11,000	170,000	13,000	140,000
Acenaphthene	50000	760 J	54,000 J	22,000	58,000 J	12,000	140,000
Acenaphthylene	41000	440 J	9,900 U	1,300 J	12,000 U	9,800	9,400 U
Anthracene	50000	1,600	22,000 J	16,000	17,000 U	24,000	52,000 J
Benzo(a)anthracene	224	5,300	11,000 J	27,000	14,000 U	30,000	21,000 J
Benzo(a)pyrene	61	5,800	9,900 U	23,000	12,000 U	26,000	9,400 U
Benzo(b)fluoranthene	1100	7,100	23,000 U	30,000 M	28,000 U	32,000 M	21,000 U
Benzo(ghi)perylene	50000	7,100	9,000 U	14,000	11,000 U	13,000	8,500 U
Benzo(k)fluoranthene	1100	2,700	9,000 U	9,400 M	11,000 U	8,500 M	8,500 U
Bis(2-ethylhexyl)phthalate	50000	190 U	11,000 U	890 U	13,000 U	990 U	10,000 U
Butyl benzyl phthalate	50000	190 U	10,000 U	870 U	13,000 U	960 U	9,900 U
Carbazole	NA	530 J	13,000 J	4,600 J	22,000 J	13,000	35,000 J
Chrysene	400	6,300	12,000 J	29,000	13,000 U	26,000	21,000 J
Dibenzo(a h)anthracene	14	1,700	9,000 U	2,300 JM	11,000 U	2,800 J	8,500 U
Dibenzofuran	6200	440 J	44,000 J	13,000	57,000 J	15,000	97,000
Diethyl phthalate	7100	210 U	12,000 U	990 U	15,000 U	1,100 U	11,000 U
Fluoranthene	50000	9,100	44,000 J	74,000	18,000 J	80,000	130,000
Fluorene	50000	600 J	45,000 J	20,000	40,000 J	17,000	110,000
Indeno(1 2 3-cd)pyrene	3200	5,200	8,200 U	14,000	10,000 U	14,000	7,800 U
Naphthalene	13000	530 J	440,000	8,200 B	720,000 B	55,000 B	590,000 B
Phenanthrene	50000	5,600	110,000	73,000	70,000 J	87,000	410,000
Pyrene	50000	9,800	38,000 J	65,000 H	16,000 J	62,000 H	110,000
Naphthalene+2-Methylnaphthalene	NS	530	528,000	19,200	890,000	68,000	730,000
Total SVOCs	500,000	70,600	921,000	456,800	1,171,000	540,100	1,856,000

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	25	20	200	20	500	5
Method Blank	4046	MB-57009	MB-57009	MB-57009	MB-57009	MB-57009	MB-57009
Client ID	RSCO[1]	QW-SB-19B(26-28)[2]	QW-SB-20(4-6)	QW-SB-20(28-30)	QW-SB-21(6-8)	QW-SB-21(20-22)	QW-SB-22(2-4)
Lab Sample ID		211192-007	211192-008	211192-009	211192-013	211192-014	211192-010
Date Sampled		10/27/2005	10/27/2005	10/27/2005	10/28/2005	10/28/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36400	13,000	3,900 J	140,000	2,200 J	720,000	830 J
Acenaphthene	50000	10,000	29,000	150,000	8,100	230,000	2,300
Acenaphthylene	41000	1,200 U	870 U	9,200 U	1,700 J	26,000 U	230 U
Anthracene	50000	11,000	18,000	32,000 J	13,000	110,000 J	3,200
Benzo(a)anthracene	224	1,300 U	20,000	16,000 J	29,000	28,000 U	6,800
Benzo(a)pyrene	61	1,200 U	16,000	9,200 U	30,000	26,000 U	6,200
Benzo(b)fluoranthene	1100	2,600 U	21,000	21,000 U	34,000	59,000 U	8,200
Benzo(ghi)perylene	50000	1,100 U	7,000	8,300 U	15,000	23,000 U	3,600
Benzo(k)fluoranthene	1100	1,100 U	7,800	8,300 U	13,000	23,000 U	2,700
Bis(2-ethylhexyl)phthalate	50000	1,300 U	930 U	9,800 U	1,000 U	28,000 U	240 U
Butyl benzyl phthalate	50000	1,200 U	910 U	9,600 U	980 U	27,000 U	240 U
Carbazole	NA	20,000	5,300 J	12,000 J	4,400 J	48,000 J	1,700 J
Chrysene	400	1,200 U	22,000	16,000 J	30,000	26,000 U	7,700
Dibenzo(a h)anthracene	14	1,100 U	2,000 J	8,300 U	3,300 JM	23,000 U	980 J
Dibenzofuran	6200	8,400 J	17,000	100,000	5,400 J	210,000	1,400 J
Diethyl phthalate	7100	1,400 U	1,000 U	11,000 U	1,100 U	31,000 U	270 U
Fluoranthene	50000	9,600	74,000	91,000	68,000	110,000 J	18,000
Fluorene	50000	19,000	17,000	87,000	7,100 J	210,000	1,800 J
Indeno(1 2 3-cd)pyrene	3200	970 U	7,900	7,600 U	16,000	21,000 U	3,700
Naphthalene	13000	71,000 B	7,200 B	570,000 B	6,800 JB	2,500,000 B	1,500 JB
Phenanthrene	50000	30,000	90,000	310,000	56,000	420,000	16,000
Pyrene	50000	7,500 J	63,000	68,000 J	69,000	81,000 J	16,000
Naphthalene+2-Methylnaphthalene	NS	84,000	11,100	710,000	9,000	3,220,000	2,330
Total SVOCs	500,000	199,500	428,100	1,592,000	412,000	4,639,000	102,610

See notes at end of table section.

TABLE 6
SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	TAGM	50	100	1	1	1
Method Blank	4046	MB-57009	MB-57009	MB-56947	MB-54844	MB-55250
Client ID	RSCO[1]	QW-SB-24(6-8)	QW-SB-24(18-20)	QW-FIELD BLANK-1	FIELD BLANK	FIELD BLANK
Lab Sample ID		211192-011	211192-012	211192-003	210779-013	210846-007
Date Sampled		10/28/2005	10/28/2005	10/27/2005	9/15/2005	9/22/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L
Compound						
2-Methylnaphthalene	36400	3,700 J	51,000	0.6 U	0.7 U	0.6 U
Acenaphthene	50000	29,000	170,000	0.8 U	0.9 U	0.8 U
Acenaphthylene	41000	2,300 U	4,800 U	0.8 U	0.8 U	0.8 U
Anthracene	50000	64,000	39,000 J	1 U	1 U	1 U
Benzo(a)anthracene	224	88,000	17,000 J	1 U	1 U	1 U
Benzo(a)pyrene	61	71,000	4,900 J	1 U	1 U	1 U
Benzo(b)fluoranthene	1100	83,000	11,000 U	2 U	2 U	2 U
Benzo(ghi)perylene	50000	31,000	4,300 U	1 U	1 U	1 U
Benzo(k)fluoranthene	1100	31,000	4,300 U	0.9 U	1 U	0.9 U
Bis(2-ethylhexyl)phthalate	50000	2,400 U	5,200 U	1 U	1 U	1 U
Butyl benzyl phthalate	50000	2,400 U	5,100 U	1 U	1 U	1 U
Carbazole	NA	18,000 J	29,000 J	1 U	1 U	1 U
Chrysene	400	89,000	17,000 J	1 U	1 U	1 U
Dibenzo(a h)anthracene	14	7,300 J	4,300 U	1 U	1 U	1 U
Dibenzofuran	6200	16,000 J	110,000	0.8 U	0.9 U	0.8 U
Diethyl phthalate	7100	2,700 U	5,800 U	0.8 U	3 JH	0.8 U
Fluoranthene	50000	200,000	150,000	1 U	1 U	1 U
Fluorene	50000	32,000	120,000	0.8 U	0.8 U	0.8 U
Indeno(1 2 3-cd)pyrene	3200	31,000	4,000 U	1 U	1 U	1 U
Naphthalene	13000	6,800 JB	200,000 B	0.7 U	0.7 U	0.7 U
Phenanthrene	50000	170,000	510,000	0.7 U	0.7 U	0.7 U
Pyrene	50000	210,000	120,000	1 U	1 U	1 U
Naphthalene+2-Methylnaphthalene	NS	10,500	251,000	0	0	0
Total SVOCs	500,000	1,180,800	1,537,900	0	3	0

See notes at end of table section.

TABLE 7
METALS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] ug/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-54899 QW-SB-1(9-11) 210779-017 9/16/2005 mg/Kg	MB-54899 QW-SB-1(25-27) 210779-018 9/16/2005 mg/Kg	MB-54899 QW-SB-2(5-7) 210779-015 9/15/2005 mg/Kg	MB-54899 QW-SB-2(25-27) 210779-016 9/15/2005 mg/Kg	MB-54899 QW-SB-3(5-7) 210779-020 9/19/2005 mg/Kg	MB-54899 QW-SB-3(11-13) 210779-021 9/19/2005 mg/Kg	MB-55162 QW-SB-4(5-7) 210846-001 9/20/2005 mg/Kg
Aluminum	33000	SB	5500	4190	4940	2370	4080	6710	6280
Arsenic	3 - 12	7.5 of SB	2.9 B	2.9 B	3 B	1.4 U	8.8 B	4.7 B	10.6
Barium	15 - 600	300 or SB	62.6 N	68.4 N	82.4 N	8.1 N	115 N	25.2 N	130
Beryllium	0 - 1.75	0.16 or SB	0.54 UN	0.76 UN	0.58 UN	0.59 UN	0.65 UN	0.56 UN	0.64 U
Calcium	130 - 35000	SB	82300 *	482 *	23100 *	604 *	16600 *	5340 *	31800
Chromium	1.5 - 40	10 or SB	40.7 *N	12.2 *N	11.6 *N	7.5 *N	22.6 *N	14.6 *N	24.2
Cobalt	2.5 - 60	30 or SB	4.9	6.1	4.1	2.6	5.6	5.7	7.2
Copper	1 - 50	25 or SB	30.3 *	12.1 *	58.7 *	5.3 B*	132 *	14.6 *	70 *
Iron	2000 - 550000	2000 or SB	10200	14100	10300	5150	21500	19300	16800
Lead	200 - 500[3]	SB	43.9 *	4.8 B*	44.9 *	3.3 B*	198 *	16.4 *	194
Magnesium	100 - 5000	SB	26600 *	2000 *	8480 *	1230 *	6420 *	4020 *	7420
Manganese	50 - 5000	SB	207	113	161	60	227	271	277
Mercury	0.001 - 0.2	0.1	0.013 U*	0.14 *	0.013 U*	0.21 *	0.083 *	0.07 U	0.2
Nickel	0.5 - 25	13 or SB	19.6 N	13.6 N	11.1 N	5.5 BN	21.5 N	15.3 N	19.6
Potassium	8500 - 43000	SB	1370	624	1890	520	959	995	1160
Selenium	0.1 - 3.9	2 or SB	1.7 U	2.4 U	1.9 U	1.9 U	2.1 U	1.8 U	2 U
Sodium	6000 - 8000	SB	356 N	150 N	288 N	539 N	192 N	351 N	218
Thallium	NA	SB	1.4 UN	2 UN	1.5 UN	1.5 UN	1.7 UN	2 BN	1.7 U
Vanadium	1 - 300	150 or SB	19.6 *N	14.7 *N	16.3 *N	8 *N	31.8 *N	17.5 *N	27.3
Zinc	9 - 50	20 or SB	72.1 *	28.8 B*	60 *	15.1 B*	165 *	44.4 *	154 *

See notes at end of table section.

TABLE 7
METALS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] ug/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-55162 QW-SB-4(19-21) 210846-002 9/20/2005 mg/Kg	MB-55162 QW-SB-5(5-7) 210846-003 9/21/2005 mg/Kg	MB-55162 QW-SB-5(15-17) 210846-004 9/21/2005 mg/Kg	MB-54758 QW-SB-6(5-7) 210779-008 9/14/2005 mg/Kg	MB-54758 QW-SB-6(15-17) 210779-009 9/14/2005 mg/Kg	MB-54758 QW-SB-7(7-9) 210779-010 9/14/2005 mg/Kg	MB-54758 QW-SB-7(17-19) 210779-011 9/15/2005 mg/Kg
Aluminum	33000	SB	7260	3780	5340	3790	5220	8370	12300
Arsenic	3 - 12	7.5 of SB	3.5 B	21.2	1.6 U	2.5 B	3.1 B	19.5	9.9 B
Barium	15 - 600	300 or SB	77	142	24.9	45.9	20.1	91	35.5
Beryllium	0 - 1.75	0.16 or SB	0.63 U	0.79 B	0.65 U	0.54 UN	0.73 UN	0.67 UN	0.87 UN
Calcium	130 - 35000	SB	341	6330	2250	29500 *	1990 *	30200 *	2500 *
Chromium	1.5 - 40	10 or SB	19	19.8	9.1	18.3	10.1	15.8	25.6
Cobalt	2.5 - 60	30 or SB	5.3	10.9	5.2	3.8	4.6	5	10.1
Copper	1 - 50	25 or SB	16 *	131 *	10.5 *	21.7	18.6	65.6	13.2
Iron	2000 - 550000	2000 or SB	15700	19800	11900	8490	11200	12200	30900
Lead	200 - 500[3]	SB	7.8 B	443	8.5 B	36.1	10.9 B	59.9	11.3 B
Magnesium	100 - 5000	SB	2170	3200	3140	7780	3040	8910	6290
Manganese	50 - 5000	SB	85.8	180	196	132	163	278	401
Mercury	0.001 - 0.2	0.1	0.015 U	0.22	0.013 U	0.14	0.017 U	0.18	0.025 B
Nickel	0.5 - 25	13 or SB	13.4	22.3	12.9	13.4	16.1	15	24.1
Potassium	8500 - 43000	SB	884	799	505	1120 N	743 N	1600 N	2220 N
Selenium	0.1 - 3.9	2 or SB	2 U	2.5 B	2.1 U	1.7 U	2.3 U	2.2 U	2.8 U
Sodium	6000 - 8000	SB	218	148	203	319 N	1090 N	674 N	2070 N
Thallium	NA	SB	1.7 U	1.2 U	1.7 U	1.4 UN	1.9 UN	1.8 UN	2.3 UN
Vanadium	1 - 300	150 or SB	29.3	17.9	11.1	17.7	11.9	19.3	29.2
Zinc	9 - 50	20 or SB	44 *	344 *	37.7 *	46	50.8	78	69.2

See notes at end of table section.

TABLE 7
METALS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] ug/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-54758 QW-SB-7B(17-19)[2] 210779-012 9/15/2005 mg/Kg	MB-55162 QW-SB-8(5-7) 210846-005 9/22/2005 mg/Kg	MB-55162 QW-SB-8(17-19) 210846-006 9/22/2005 mg/Kg	MB-54669 QW-SB-9(5-7) 210779-003 9/12/2005 mg/Kg	MB-54669 QW-SB-9(17-19) 210779-004 9/12/2005 mg/Kg	MB-54669 QW-SB-10(7-9) 210779-005 9/13/2005 mg/Kg	MB-54669 QW-SB-10(17-19) 210779-007 9/13/2005 mg/Kg
Aluminum	33000	SB	11900	7290	5100	6020	8970	6500	7390
Arsenic	3 - 12	7.5 of SB	8.3 B	8.7 B	1.2 U	6.7 B	2.2 B	6.5 B	5 B
Barium	15 - 600	300 or SB	33.1	146	10.7	120	46.3	106	91.8
Beryllium	0 - 1.75	0.16 or SB	0.82 UN	0.66 U	0.48 U	0.61 UN	0.86 UN	0.57 UN	0.73 UN
Calcium	130 - 35000	SB	2250 *	39600	695	33400 *	1020 *	30700 *	1430 *
Chromium	1.5 - 40	10 or SB	25.1	18.3	9.9	21.8	13.3	19.8	18.3
Cobalt	2.5 - 60	30 or SB	10.1	5.3	9	5.5	8.5	5.7	7.5
Copper	1 - 50	25 or SB	12.4	53.9 *	9.2 *	93.6	15.4	58.7	22.8
Iron	2000 - 550000	2000 or SB	28600	13800	10600	17000	20500	21200	17800
Lead	200 - 500[3]	SB	11.2 B	110	5 B	132	11.6 B	93.7	23.8
Magnesium	100 - 5000	SB	6020	5760	2320	12300	3860	7720	3900
Manganese	50 - 5000	SB	447	277	200	270	333	211	131
Mercury	0.001 - 0.2	0.1	0.024 B	2.9	0.013 U	0.91 *	0.38 *	0.31 *	0.095 *
Nickel	0.5 - 25	13 or SB	23.4	19.6	14.9	36.2	15.3	20.9	17.4
Potassium	8500 - 43000	SB	2270 N	1260	550	1320 N	1370 N	1480 N	4980 N
Selenium	0.1 - 3.9	2 or SB	2.6 U	2.1 U	1.5 U	1.9 U	2.8 U	1.8 U	2.3 U
Sodium	6000 - 8000	SB	1730 N	353	104	382 N	457 N	333 N	1190 N
Thallium	NA	SB	2.2 UN	1.7 U	1.3 U	1.6 UN	2.3 UN	1.5 UN	1.9 UN
Vanadium	1 - 300	150 or SB	30.3	26.5	8.7	30	22.8	24.4	23.5
Zinc	9 - 50	20 or SB	65.2	148 *	28.1 *	248	38.6	175	59.6

See notes at end of table section.

TABLE 7
METALS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] ug/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-54669 QW-SB-13(4-6) 210779-001 9/12/2005 mg/Kg	MB-54669 QW-SB-13(14-16) 210779-002 9/12/2005 mg/Kg	MB-54478 QW-SB-14(7-9) 210724-004 9/8/2005 mg/Kg	MB-54478 QW-SB-14(14-16) 210724-005 9/8/2005 mg/Kg	MB-54478 QW-SB-15(4-6) 210724-001 9/8/2005 mg/Kg	MB-54478 QW-SB-15(16-18) 210724-002 9/8/2005 mg/Kg	MB-54478 QW-SB-15B(16-18)[2] 210724-003 9/8/2005 mg/Kg
Aluminum	33000	SB	5860	6910	5410	6530	6330	6730	5810
Arsenic	3 - 12	7.5 of SB	13.1	2.7 B	6 B	2.3 B	9.1	1.5 B	2 B
Barium	15 - 600	300 or SB	79.9	27.2	39.4	24.9	80	22.5	17.9
Beryllium	0 - 1.75	0.16 or SB	0.68 UN	0.53 UN	0.55 U	0.6 U	0.54 U	0.6 U	0.54 U
Calcium	130 - 35000	SB	16900 *	786 *	3050	680	12600	533	480
Chromium	1.5 - 40	10 or SB	10.8	9.6	8.9 N	8.7 N	11 N	8.8 N	7.7 N
Cobalt	2.5 - 60	30 or SB	8	6.3	5.3	4.4	4.3	3.5	3.3
Copper	1 - 50	25 or SB	66.2	10.5	26.4	10	23.2	8.2	8.8
Iron	2000 - 550000	2000 or SB	12600	12800	16500	11700	10400	11300	10200
Lead	200 - 500[3]	SB	586	5.9 B	93.6	4.9 B	49.2	4.2 B	4.4 B
Magnesium	100 - 5000	SB	3600	2460	2750 *	2280 *	11800 *	2370 *	2270 *
Manganese	50 - 5000	SB	595	111	146 *	110 *	450 *	96.8 *	85.4 *
Mercury	0.001 - 0.2	0.1	1.3 *	0.023 B*	0.2 *	0.011 U*	0.18 *	0.016 U*	0.012 U*
Nickel	0.5 - 25	13 or SB	22.2	13.7	12.3	11.7	11.8	12.2	11.3
Potassium	8500 - 43000	SB	773 N	523 N	455 *	454 *	1040 *	444 *	405 *
Selenium	0.1 - 3.9	2 or SB	2.2 U	1.7 U	1.8 B	1.9 U	1.7 U	1.9 U	1.7 U
Sodium	6000 - 8000	SB	225 N	164 N	115 N	145 N	325 N	131 N	115 N
Thallium	NA	SB	1.8 UN	1.4 UN	2.4 B	3.7 B	1.6 B	2.4 B	1.8 B
Vanadium	1 - 300	150 or SB	22.6	9.4	16.5	10	17.5	8.9	7.5
Zinc	9 - 50	20 or SB	402	29.5	64.1	34.1	60.7	24.9	24.9

See notes at end of table section.

TABLE 7
METALS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] ug/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-55404 QW-SB-16(2-4) 210950-011 9/28/2005 mg/Kg	MB-55404 QW-SB-16(17-19) 210950-012 9/28/2005 mg/Kg	MB-55404 QW-SB-17(1-3) 210950-013 9/28/2005 mg/Kg	MB-55404 QW-SB-17(25-27) 210950-014 9/28/2005 mg/Kg	MB-56939 QW-SB-18(6-8) 211192-001 10/26/2005 mg/Kg	MB-56939 QW-SB-18(12-14) 211192-002 10/26/2005 mg/Kg	MB-56939 QW-SB-19(6-8) 211192-005 10/27/2005 mg/Kg
Aluminum	33000	SB	5910 *	8190 *	6680 *	7950 *	4740	9320	6540
Arsenic	3 - 12	7.5 of SB	5.2 B	2.3 B	5.8 B	5.6 B	4.8 B	9.7 B	6.5 B
Barium	15 - 600	300 or SB	102 *N	30.2 *N	95.3 *N	27.1 *N	59 *	39.3 *	80.1 *
Beryllium	0 - 1.75	0.16 or SB	0.53 U	0.46 U	0.54 U	0.45 B	0.62 U	0.79 U	0.6 U
Calcium	130 - 35000	SB	97300 *	1120 *	26700 *	768 *	10900	3920	8710
Chromium	1.5 - 40	10 or SB	16.7 *	13.9 *	17.8 *	13.3 *	14.9 *N	16 *N	17.3 *N
Cobalt	2.5 - 60	30 or SB	5.7 *N	6.8 *N	6.1 *N	4.4 *N	5	8.3	5.2
Copper	1 - 50	25 or SB	45.8 *N	13.7 *N	45.7 *N	11.9 *N	68.9	19.3	35.2
Iron	2000 - 550000	2000 or SB	14700 *	16300 *	13800 *	14700 *	14500	16800	12800
Lead	200 - 500[3]	SB	146 *N	7.7 B*N	128 *N	7.2 B*N	83.8	73	75.2
Magnesium	100 - 5000	SB	4690 *N	3340 *N	5820 *N	3010 *N	3280	3720	2880
Manganese	50 - 5000	SB	314	237	258	111	210 *	267 *	275 *
Mercury	0.001 - 0.2	0.1	0.6	0.061	2.1	0.022 B	0.84	0.13	0.78
Nickel	0.5 - 25	13 or SB	15.8 *N	16.5 *N	29.3 *N	14 *N	25.5 *N	20 *N	17.2 *N
Potassium	8500 - 43000	SB	1400 N	1190 N	1210 N	853 N	623 N	1420 N	626 N
Selenium	0.1 - 3.9	2 or SB	1.7 U	1.5 U	1.7 U	1.4 U	2 U	2.5 U	1.9 U
Sodium	6000 - 8000	SB	333 N	244 N	187 N	273 N	194	222	188
Thallium	NA	SB	1.4 U	1.2 U	1.4 U	1.1 U	5.1 U	6.6 U	5 U
Vanadium	1 - 300	150 or SB	22.6 *N	19 *N	53.3 *N	17.9 *N	16.7	21.1	17.2
Zinc	9 - 50	20 or SB	119	40.4	125	48.6	140	50.5	82.5

See notes at end of table section.

TABLE 7
METALS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] ug/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-56939 QW-SB-19(26-28) 211192-006 10/27/2005 mg/Kg	MB-56939 QW-SB-19B(26-28)[2] 211192-007 10/27/2005 mg/Kg	MB-56939 QW-SB-20(4-6) 211192-008 10/27/2005 mg/Kg	MB-56939 QW-SB-20(28-30) 211192-009 10/27/2005 mg/Kg	MB-56939 QW-SB-21(6-8) 211192-013 10/28/2005 mg/Kg	MB-56939 QW-SB-21(20-22) 211192-014 10/28/2005 mg/Kg	MB-56939 QW-SB-22(2-4) 211192-010 10/27/2005 mg/Kg
Aluminum	33000	SB	3620	2150	6130	3260	6320	7180	6170
Arsenic	3 - 12	7.5 of SB	4.1 B	3.1 B	7.3 B	3.5 B	3.6 B	3.6 B	3.5 B
Barium	15 - 600	300 or SB	17.3 *	39.2 *	92 *	15.3 *	62.1 *	33.6 *	101 *
Beryllium	0 - 1.75	0.16 or SB	0.53 U	0.65 U	0.64 U	0.64 U	0.62 U	0.64 U	0.57 U
Calcium	130 - 35000	SB	264	240	20800	602	4270	8470	31100
Chromium	1.5 - 40	10 or SB	13.3 *N	7.9 *N	17.7 *N	11.2 *N	21.7 *N	12.9 *N	21 *N
Cobalt	2.5 - 60	30 or SB	3.8	2.9	5.7	6.2	6.6	5.2	4.5
Copper	1 - 50	25 or SB	7.2	4 B	45.5	5.9 B	25.9	12.7	32.2
Iron	2000 - 550000	2000 or SB	13700	9030	13800	12300	12800	12700	10600
Lead	200 - 500[3]	SB	5 B	4.3 B	97.1	5.3 B	99	14	87.7
Magnesium	100 - 5000	SB	1700	1120	6770	2380	3040	3270	8650
Manganese	50 - 5000	SB	77.6 *	43.7 *	211 *	92 *	290 *	153 *	207 *
Mercury	0.001 - 0.2	0.1	0.016 U	0.012 U	1.8	0.011 U	0.52	0.068	0.5
Nickel	0.5 - 25	13 or SB	10.3 *N	7.6 *N	21.3 *N	20 *N	25.7 *N	14.1 *N	19 *N
Potassium	8500 - 43000	SB	618 N	505 N	1020 N	1060 N	635 N	704 N	1200 N
Selenium	0.1 - 3.9	2 or SB	1.7 U	2.1 U	2.1 U	2.1 U	2 U	2 U	1.8 U
Sodium	6000 - 8000	SB	109	85.6 B	301	118 B	156	251	588
Thallium	NA	SB	4.4 U	5.4 U	5.4 U	5.4 U	5.2 U	5.3 U	4.8 U
Vanadium	1 - 300	150 or SB	16.3	13.9	24.8	19.5	15.6	15.9	22.5
Zinc	9 - 50	20 or SB	26.2	22.5 B	104	32.1	63.3	43.2	98.5

See notes at end of table section.

TABLE 7
METALS IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] ug/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-56939 QW-SB-24(6-8) 211192-011 10/28/2005 mg/Kg	MB-56939 QW-SB-24(18-20) 211192-012 10/28/2005 mg/Kg	MB-56935 QW-FIELD BLANK-1 211192-003 10/27/2005 ug/L	MB-54858 FIELD BLANK 210779-013 9/15/2005 ug/L	MB-54997 FIELD BLANK 210846-007 9/22/2005 ug/L
Aluminum	33000	SB	9180	8170	92 U	92 U	92 U*
Arsenic	3 - 12	7.5 of SB	4.2 B	3.6 B	3.9 U	4.3 B	3.9 U
Barium	15 - 600	300 or SB	55.1 *	30.3 *	0.74 U	0.74 U	0.74 U
Beryllium	0 - 1.75	0.16 or SB	0.59 U	0.66 U	0.54 U	0.54 U	0.54 U
Calcium	130 - 35000	SB	3190	1240	56 U	116 B	65.6 B
Chromium	1.5 - 40	10 or SB	15.1 *N	12.3 *N	1.3 U	1.3 U	1.3 U*
Cobalt	2.5 - 60	30 or SB	7.4	6.1	1.8 U	1.8 U	1.8 U*
Copper	1 - 50	25 or SB	17.5	11.4	4.3 U	4.3 U	4.3 U*
Iron	2000 - 550000	2000 or SB	17600	15300	54 U	54 U	54 U
Lead	200 - 500[3]	SB	58.6	9.3 B	3 U	3 U	3 U*N
Magnesium	100 - 5000	SB	2570	2490	26 U	26 U	26 U
Manganese	50 - 5000	SB	301 *	210 *	6.9 U	6.9 U	6.9 U
Mercury	0.001 - 0.2	0.1	0.37	0.015 U	0.07 U	0.15 *	0.07 U
Nickel	0.5 - 25	13 or SB	14.3 *N	13.6 *N	1.9 U	1.9 U	1.9 U*
Potassium	8500 - 43000	SB	699 N	532 N	191 U	191 U	191 U
Selenium	0.1 - 3.9	2 or SB	1.9 U	2.1 U	5 U	5 U	5 U
Sodium	6000 - 8000	SB	236	128	98 UN	98 U	98 U
Thallium	NA	SB	5 U	5.5 U	10 U	10 U	10 UN
Vanadium	1 - 300	150 or SB	22.8	16	1.5 U	1.5 U	1.5 U*
Zinc	9 - 50	20 or SB	47.6	34.6	11 U	11 U	11 U*

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	5	1	1
Method Blank	4046	MB-55110	MB-55110	MB-55110	MB-55110	MB-55110
Client ID	RSCO[1]	QW-SB-1(9-11)	QW-SB-1(25-27)	QW-SB-2(5-7)	QW-SB-2(25-27)	QW-SB-3(5-7)
Lab Sample ID		210779-017	210779-018	210779-015	210779-016	210779-020
Date Sampled		9/16/2005	9/16/2005	9/15/2005	9/15/2005	9/19/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
Aroclor 1242	NS	3.2 U	4.1 U	570	3.5 U	3.3 U
Aroclor 1248	NS	2.8 U	3.7 U	14 U	3.1 U	3 U
Aroclor 1254	NS	1.3 U	1.7 U	6.2 U	1.4 U	96 M
Aroclor 1260	NS	4.2 U	5.5 U	76 JM	4.6 U	190 M
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	ND	ND	646	ND	286

Pesticides

Dilution	TAGM	20	10	5	1	10
Method Blank	4046	MB-55110	MB-55110	MB-55110	MB-55110	MB-55110
Client ID	RSCO	QW-SB-1(9-11)	QW-SB-1(25-27)	QW-SB-2(5-7)	QW-SB-2(25-27)	QW-SB-3(5-7)
Lab Sample ID		210779-017	210779-018	210779-015	210779-016	210779-020
Date Sampled		9/16/2005	9/16/2005	9/15/2005	9/15/2005	9/19/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
4 4'-DDD	2100	8 U	5.2 U	2 U	0.44 U	4.2 U
4 4'-DDE	2100	160 M	320	20	0.5 U	4.8 U
4 4'-DDT	2900	6.5 U	4.3 U	1.6 U	0.36 U	3.4 U
Aldrin	41	7.5 U	4.9 U	16	0.41 U	4 U
alpha-BHC	110	5.8 U	12 J	1.4 U	0.32 U	3.1 U
alpha-Chlordane	540	2.3 U	1.5 U	4.1 J	0.46 JM	1.2 U
beta-BHC	200	34 J	69	6.6 J	1.4 J	3.4 J
delta-BHC	300	2.2 U	1.4 U	0.53 U	0.18 J	1.1 U
Dieldrin	44	48 J	81	1.6 U	0.37 U	3.6 U
Endosulfan I	900	3.1 U	2 U	0.75 U	0.51 J	58
Endosulfan II	900	3.6 U	2.3 U	0.87 U	0.2 U	37
Endosulfan sulfate	1000	53 J	2.4 U	10 J	0.2 U	1.9 U
Endrin	100	19 U	12 U	4.6 U	1 U	9.9 U
Endrin aldehyde	NA	6.8 U	4.4 U	1.7 U	0.37 U	3.6 U
Endrin ketone	NA	3 U	2 U	0.74 U	0.17 U	5.1 J
gamma-BHC (Lindane)	60	3.2 U	15 J	0.78 U	0.18 U	6.6 J
gamma-Chlordane	540	1.9 U	1.3 U	4.7 J	0.11 U	1 U
Heptachlor	100	5.6 J	2.1 U	0.77 U	0.17 U	1.7 U
Heptachlor epoxide	20	60	130	4 J	1.7 J	3.4 J
Methoxychlor	10000	70 J	110 J	11 U	2.5 U	120 J

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1	1
Method Blank	4046	MB-55110	MB-55420	MB-55420	MB-55420	MB-55420
Client ID	RSCO[1]	QW-SB-3(11-13)	QW-SB-4(5-7)	QW-SB-4(19-21)	QW-SB-5(5-7)	QW-SB-5(15-17)
Lab Sample ID		210779-021	210846-001	210846-002	210846-003	210846-004
Date Sampled		9/19/2005	9/20/2005	9/20/2005	9/21/2005	9/21/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
Aroclor 1242	NS	3.6 U	22 H	3.4 U	3.5 U	3.8 U
Aroclor 1248	NS	3.3 U	3.1 U	3.1 U	3.2 U	3.4 U
Aroclor 1254	NS	1.5 U	89	1.4 U	54	1.5 U
Aroclor 1260	NS	4.8 U	110	4.6 U	83 M	5.1 U
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	ND	221	ND	137	ND

Pesticides

Dilution	TAGM	10	5	1	10	1
Method Blank	4046	MB-55110	MB-55420	MB-55420	MB-55420	MB-55420
Client ID	RSCO	QW-SB-3(11-13)	QW-SB-4(5-7)	QW-SB-4(19-21)	QW-SB-5(5-7)	QW-SB-5(15-17)
Lab Sample ID		210779-021	210846-001	210846-002	210846-003	210846-004
Date Sampled		9/19/2005	9/20/2005	9/20/2005	9/21/2005	9/21/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
4 4'-DDD	2100	4.6 U	2.2 U	0.44 U	4.5 U	0.48 U
4 4'-DDE	2100	19 J	17 J	0.5 U	140	1.5 J
4 4'-DDT	2900	3.7 U	1.8 U	0.36 U	3.6 U	0.39 U
Aldrin	41	4.3 U	2 U	0.41 U	4.2 U	0.45 U
alpha-BHC	110	3.3 U	1.6 U	0.32 U	3.2 U	0.35 U
alpha-Chlordane	540	1.3 U	0.63 U	0.13 U	1.3 U	0.14 U
beta-BHC	200	17 J	1.5 U	0.31 U	18 J	1.3 J
delta-BHC	300	1.2 U	0.59 U	0.12 U	3.7 J	0.43 J
Dieldrin	44	10 J	1.8 U	0.37 U	3.8 U	0.49 J
Endosulfan I	900	1.8 U	42	0.17 U	210	4.3 M
Endosulfan II	900	2.1 U	0.98 U	0.2 U	2 U	0.22 U
Endosulfan sulfate	1000	2.1 U	7.3 J	0.2 U	68	2.1 J
Endrin	100	11 U	5.1 U	1 U	11 J	1.1 U
Endrin aldehyde	NA	3.9 U	1.9 U	0.37 U	3.8 U	0.41 U
Endrin ketone	NA	1.7 U	5.6 J	0.17 U	1.7 U	0.18 U
gamma-BHC (Lindane)	60	1.8 U	22	0.18 U	1.8 U	0.19 U
gamma-Chlordane	540	1.1 U	4.8 J	0.1 U	1.1 U	0.12 U
Heptachlor	100	2.2 J	0.86 U	0.17 U	1.8 U	0.59 J
Heptachlor epoxide	20	48	5.8 J	0.13 U	34	2.1 J
Methoxychlor	10000	26 U	12 U	2.4 U	25 U	2.7 U

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1	1
Method Blank	4046	MB-54934	MB-54934	MB-54934	MB-54934	MB-54934
Client ID	RSCO[1]	QW-SB-6(5-7)	QW-SB-6(15-17)	QW-SB-7(7-9)	QW-SB-7(17-19)	QW-SB-7B(17-19)[2]
Lab Sample ID		210779-008	210779-009	210779-010	210779-011	210779-012
Date Sampled		9/14/2005	9/14/2005	9/14/2005	9/15/2005	9/15/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
Aroclor 1242	NS	4 U	3.9 U	3.3 U	4.4 U	4.3 U
Aroclor 1248	NS	3.6 U	3.5 U	2.9 U	3.9 U	3.9 U
Aroclor 1254	NS	1.6 U	1.6 U	1.3 U	1.8 U	1.8 U
Aroclor 1260	NS	20 JM	5.2 U	20 M	5.8 U	5.8 U
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	20	ND	20	ND	ND

Pesticides

Dilution	TAGM	2	1	20	1	1
Method Blank	4046	MB-54934	MB-54934	MB-54934	MB-54934	MB-54934
Client ID	RSCO	QW-SB-6(5-7)	QW-SB-6(15-17)	QW-SB-7(7-9)	QW-SB-7(17-19)	QW-SB-7B(17-19)
Lab Sample ID		210779-008	210779-009	210779-010	210779-011	210779-012
Date Sampled		9/14/2005	9/14/2005	9/14/2005	9/15/2005	9/15/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
4 4'-DDD	2100	1 U	0.49 U	8.3 U	0.56 U	0.55 U
4 4'-DDE	2100	1.2 U	18	9.5 U	5.3	21
4 4'-DDT	2900	0.82 U	0.4 U	6.7 U	0.45 U	0.45 U
Aldrin	41	0.95 U	4.6	7.8 U	0.52 U	7.6
alpha-BHC	110	0.73 U	1.9 J	6 U	2.4 J	2.9
alpha-Chlordane	540	0.29 U	0.14 U	2.4 U	0.16 U	0.16 U
beta-BHC	200	3.1 J	11	33 J	6.7	17
delta-BHC	300	0.27 U	3	2.2 U	1.6 J	3.4
Dieldrin	44	6 J	0.41 U	7 U	0.47 U	0.46 U
Endosulfan I	900	40	0.19 U	320	3.4 M	12
Endosulfan II	900	0.45 U	0.22 U	24 J	0.25 U	0.25 U
Endosulfan sulfate	1000	0.46 U	6.8	67 J	0.25 U	0.25 U
Endrin	100	2.4 U	1.1 U	19 U	1.3 U	1.3 U
Endrin aldehyde	NA	0.86 U	0.42 U	7 U	0.47 U	0.47 U
Endrin ketone	NA	13	0.19 U	87	0.21 U	0.21 U
gamma-BHC (Lindane)	60	1.2 J	0.2 U	7.1 J	0.22 U	0.22 U
gamma-Chlordane	540	0.24 U	0.12 U	2 U	1.3 J	0.13 U
Heptachlor	100	0.4 U	0.19 U	3.3 U	0.22 U	0.22 U
Heptachlor epoxide	20	3.4 J	24	18 J	10	13
Methoxychlor	10000	65	37 M	270 J	3.1 U	3.1 U

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1	1
Method Blank	4046	MB-55420	MB-55420	MB-54846	MB-54846	MB-54846
Client ID	RSCO[1]	QW-SB-8(5-7)	QW-SB-8(17-19)	QW-SB-9(5-7)	QW-SB-9(17-19)	QW-SB-10(7-9)
Lab Sample ID		210846-005	210846-006	210779-003	210779-004	210779-005
Date Sampled		9/22/2005	9/22/2005	9/12/2005	9/12/2005	9/13/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
Aroclor 1242	NS	3.4 U	3.6 U	3.3 U	4.2 U	3.2 U
Aroclor 1248	NS	3 U	3.2 U	2.9 U	3.8 U	2.9 U
Aroclor 1254	NS	14 JM	1.4 U	42 M	1.7 U	1.3 U
Aroclor 1260	NS	34	4.8 U	86 M	5.7 U	39
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	48	ND	128	ND	39

Pesticides

Dilution	TAGM	5	1	5	5	5
Method Blank	4046	MB-55420	MB-55420	MB-54846	MB-54846	MB-54846
Client ID	RSCO	QW-SB-8(5-7)	QW-SB-8(17-19)	QW-SB-9(5-7)	QW-SB-9(17-19)	QW-SB-10(7-9)
Lab Sample ID		210846-005	210846-006	210779-003	210779-004	210779-005
Date Sampled		9/22/2005	9/22/2005	9/12/2005	9/12/2005	9/13/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
4 4'-DDD	2100	2.1 U	0.45 U	2.1 U	2.7 U	2.1 U
4 4'-DDE	2100	33	16	18	3.1 U	46
4 4'-DDT	2900	1.7 U	0.37 U	19	2.2 U	16 J
Aldrin	41	2 U	1.5 JM	1.9 U	2.5 U	1.9 U
alpha-BHC	110	1.5 U	2.6	1.5 U	18	1.5 U
alpha-Chlordane	540	0.62 U	0.13 U	6.1 J	0.78 U	88
beta-BHC	200	6.2 J	4	6.8 J	36	6.2 J
delta-BHC	300	0.75 J	0.75 J	0.56 U	0.73 U	0.56 U
Dieldrin	44	1.8 U	0.38 U	1.7 U	2.3 U	21
Endosulfan I	900	80	8.2	0.8 U	1 U	0.8 U
Endosulfan II	900	0.96 U	0.2 U	0.93 U	1.2 U	0.92 U
Endosulfan sulfate	1000	24	5.5	11 J	1.2 U	15 J
Endrin	100	5 U	1.1 U	4.9 U	11 J	4.8 U
Endrin aldehyde	NA	1.8 U	0.39 U	1.8 U	2.3 U	1.7 U
Endrin ketone	NA	46	0.17 U	0.78 U	1 U	0.78 U
gamma-BHC (Lindane)	60	0.85 U	0.18 U	0.83 U	1.1 U	0.82 U
gamma-Chlordane	540	0.51 U	0.64 J	6.6 J	0.64 U	37
Heptachlor	100	0.84 U	0.18 U	0.82 U	1.1 U	6.4 J
Heptachlor epoxide	20	9.7	3.1	5 J	19	4.8 J
Methoxychlor	10000	75 JM	2.5 U	57 J	15 U	90 J

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	10	1
Method Blank	4046	MB-54846	MB-54846	MB-54846	MB-54847	MB-54847
Client ID	RSCO[1]	QW-SB-10(17-19)	QW-SB-13(4-6)	QW-SB-13(14-16)	QW-SB-14(7-9)	QW-SB-14(14-16)
Lab Sample ID		210779-007	210779-001	210779-002	210724-004	210724-005
Date Sampled		9/13/2005	9/12/2005	9/12/2005	9/8/2005	9/8/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
Aroclor 1242	NS	4.2 U	3.5 U	3.7 U	34 U	3.6 U
Aroclor 1248	NS	3.8 U	3.1 U	3.3 U	31 U	3.3 U
Aroclor 1254	NS	1.7 U	1.4 U	1.5 U	14 U	1.5 U
Aroclor 1260	NS	33 M	9.1 JM	5 U	46 U	11 JM
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	33	9.1	ND	ND	11

Pesticides

Dilution	TAGM	5	50	5	20	1
Method Blank	4046	MB-54846	MB-54846	MB-54846	MB-54847	MB-54847
Client ID	RSCO	QW-SB-10(17-19)	QW-SB-13(4-6)	QW-SB-13(14-16)	QW-SB-14(7-9)	QW-SB-14(14-16)
Lab Sample ID		210779-007	210779-001	210779-002	210724-004	210724-005
Date Sampled		9/13/2005	9/12/2005	9/12/2005	9/8/2005	9/8/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
4 4'-DDD	2100	2.7 U	22 U	2.4 U	8.8 U	0.46 U
4 4'-DDE	2100	3 U	200	2.7 U	360	20
4 4'-DDT	2900	2.2 U	18 U	1.9 U	7.1 U	0.38 U
Aldrin	41	2.5 U	21 U	2.2 U	8.2 U	0.43 U
alpha-BHC	110	3.7 J	16 U	16	7 J	4.1
alpha-Chlordane	540	0.77 U	24 J	0.68 U	2.5 U	0.13 U
beta-BHC	200	7.1 J	23 J	25	37 J	3
delta-BHC	300	0.72 U	14 J	0.64 U	11 J	0.13 U
Dieldrin	44	2.3 U	19 U	2 U	7.4 U	0.39 U
Endosulfan I	900	1 U	8.6 U	50	3.4 U	0.18 U
Endosulfan II	900	19 J	9.9 U	1.1 U	34 J	0.21 U
Endosulfan sulfate	1000	45	120 J	1.1 U	100	0.21 U
Endrin	100	6.2 U	52 U	5.5 U	21 U	1.1 U
Endrin aldehyde	NA	2.3 U	19 U	2 U	7.4 U	0.39 U
Endrin ketone	NA	1 U	8.4 U	0.89 U	3.3 U	0.18 U
gamma-BHC (Lindane)	60	1.1 U	8.9 U	0.94 U	3.5 U	0.19 U
gamma-Chlordane	540	0.64 U	15 J	0.56 U	2.1 U	5.4
Heptachlor	100	1.1 U	8.7 U	4.9 J	3.5 U	0.18 U
Heptachlor epoxide	20	20	34 J	18	24 J	0.14 U
Methoxychlor	10000	180	730 J	13 U	290 JM	2.6 U

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1
Method Blank	4046	MB-54847	MB-54847	MB-54847	MB-55560
Client ID	RSCO[1]	QW-SB-15(4-6)	QW-SB-15(16-18)	QW-SB-15B(16-18)[2]	QW-SB-16(2-4)
Lab Sample ID		210724-001	210724-002	210724-003	210950-011
Date Sampled		9/8/2005	9/8/2005	9/8/2005	9/28/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
Aroclor 1242	NS	3.7 U	3.6 U	3.7 U	3.3 U
Aroclor 1248	NS	3.3 U	3.3 U	3.4 U	27 M
Aroclor 1254	NS	1.5 U	1.5 U	1.5 U	60 M
Aroclor 1260	NS	4.9 U	4.9 U	5 U	45
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	ND	ND	ND	132

Pesticides

Dilution	TAGM	5	5	5	10
Method Blank	4046	MB-54847	MB-54847	MB-54847	MB-55560
Client ID	RSCO	QW-SB-15(4-6)	QW-SB-15(16-18)	QW-SB-15B(16-18)	QW-SB-16(2-4)
Lab Sample ID		210724-001	210724-002	210724-003	210950-011
Date Sampled		9/8/2005	9/8/2005	9/8/2005	9/28/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
4 4'-DDD	2100	2.3 U	2.3 U	2.4 U	4.2 U
4 4'-DDE	2100	270 M	65	78	4.7 U
4 4'-DDT	2900	1.9 U	1.9 U	1.9 U	5.3 J
Aldrin	41	2.2 U	15	2.2 U	3.9 U
alpha-BHC	110	1.7 U	1.7 U	1.7 U	3 U
alpha-Chlordane	540	0.67 U	0.67 U	0.69 U	1.2 U
beta-BHC	200	25	1.6 U	39	8.4 J
delta-BHC	300	8.1 J	12	0.64 U	1.1 U
Dieldrin	44	2 U	2 U	2 U	3.5 U
Endosulfan I	900	0.9 U	0.9 U	0.92 U	86
Endosulfan II	900	25	1 U	1.1 U	20 J
Endosulfan sulfate	1000	100	1.1 U	1.1 U	22 JM
Endrin	100	5.4 U	5.4 U	5.6 U	9.7 U
Endrin aldehyde	NA	2 U	2 U	2 U	3.5 U
Endrin ketone	NA	0.88 U	0.88 U	0.9 U	1.6 U
gamma-BHC (Lindane)	60	0.93 U	0.93 U	0.95 U	1.7 U
gamma-Chlordane	540	0.56 U	0.56 U	0.57 U	1 U
Heptachlor	100	4.3 J	19	21	1.6 U
Heptachlor epoxide	20	43	0.7 U	0.71 U	2.7 J
Methoxychlor	10000	1900	13 U	13 U	36 J

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1
Method Blank	4046	MB-55560	MB-55560	MB-55560	MB-57010
Client ID	RSCO[1]	QW-SB-16(17-19)	QW-SB-17(1-3)	QW-SB-17(25-27)	QW-SB-18(6-8)
Lab Sample ID		210950-012	210950-013	210950-014	211192-001
Date Sampled		9/28/2005	9/28/2005	9/28/2005	10/26/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
Aroclor 1242	NS	4 U	3.3 U	3.7 U	3.2 U
Aroclor 1248	NS	3.6 U	2.9 U	3.3 U	2.9 U
Aroclor 1254	NS	1.6 U	29	1.5 U	34 M
Aroclor 1260	NS	5.4 U	32	4.9 U	24 M
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	ND	61	ND	58

Pesticides

Dilution	TAGM	4	10	4	1
Method Blank	4046	MB-55560	MB-55560	MB-55560	MB-57010
Client ID	RSCO	QW-SB-16(17-19)	QW-SB-17(1-3)	QW-SB-17(25-27)	QW-SB-18(6-8)
Lab Sample ID		210950-012	210950-013	210950-014	211192-001
Date Sampled		9/28/2005	9/28/2005	9/28/2005	10/26/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
4 4'-DDD	2100	2.1 U	4.2 U	1.9 U	14
4 4'-DDE	2100	2.3 U	4.7 U	2.1 U	4.7
4 4'-DDT	2900	1.7 U	3.4 U	1.5 U	33
Aldrin	41	6.6 J	3.9 U	24	2.1 J
alpha-BHC	110	1.5 U	3 U	9	0.82 J
alpha-Chlordane	540	0.59 U	1.2 U	0.54 U	0.12 U
beta-BHC	200	11	16 J	13	4.3
delta-BHC	300	5.5 J	4.2 J	9.3	0.62 J
Dieldrin	44	1.7 U	3.5 U	1.6 U	0.76 J
Endosulfan I	900	15	210 M	66 M	0.16 U
Endosulfan II	900	3.8 J	24 J	0.84 U	10
Endosulfan sulfate	1000	10 JM	44	31	0.19 U
Endrin	100	4.8 U	9.7 U	4.4 U	13
Endrin aldehyde	NA	1.7 U	3.5 U	1.6 U	19
Endrin ketone	NA	0.78 U	51	0.71 U	43
gamma-BHC (Lindane)	60	0.82 U	1.7 U	0.75 U	0.16 U
gamma-Chlordane	540	0.49 U	0.99 U	19	7.2
Heptachlor	100	0.81 U	1.6 U	0.74 U	1.6 J
Heptachlor epoxide	20	2.2 J	8.4 J	0.56 U	1.6 J
Methoxychlor	10000	13 J	130 J	10 U	46

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1
Method Blank	4046	MB-57010	MB-57010	MB-57010	MB-57010
Client ID	RSCO[1]	QW-SB-18(12-14)	QW-SB-19(6-8)	QW-SB-19(26-28)	QW-SB-19B(26-28)[2]
Lab Sample ID		211192-002	211192-005	211192-006	211192-007
Date Sampled		10/26/2005	10/27/2005	10/27/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
Aroclor 1242	NS	4.6 U	3.3 U	3.5 U	3.5 U
Aroclor 1248	NS	4.1 U	3 U	3.2 U	3.1 U
Aroclor 1254	NS	1.9 U	1.3 U	1.4 U	1.4 U
Aroclor 1260	NS	6.1 U	4.4 U	4.7 U	4.6 U
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	ND	ND	ND	ND

Pesticides

Dilution	TAGM	1	1	1	1
Method Blank	4046	MB-57010	MB-57010	MB-57010	MB-57010
Client ID	RSCO	QW-SB-18(12-14)	QW-SB-19(6-8)	QW-SB-19(26-28)	QW-SB-19B(26-28)
Lab Sample ID		211192-002	211192-005	211192-006	211192-007
Date Sampled		10/26/2005	10/27/2005	10/27/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
4 4'-DDD	2100	1.8 JM	9.6	0.97 JM	0.44 U
4 4'-DDE	2100	2.8 J	3.3 J	1.5 J	0.68 J
4 4'-DDT	2900	37	17	37	12
Aldrin	41	0.57 J	0.4 U	0.83 J	1.3 J
alpha-BHC	110	2.1 J	0.33 J	1.3 J	0.32 U
alpha-Chlordane	540	0.59 J	10	1.6 J	0.13 U
beta-BHC	200	1.7 J	11	2 J	37
delta-BHC	300	1.2 J	0.68 J	5.3	2.6
Dieldrin	44	2.1 J	1.2 J	1.2 J	1.5 J
Endosulfan I	900	0.46 J	0.16 U	0.52 J	1.1 J
Endosulfan II	900	1.8 J	0.19 U	6.2	1.5 J
Endosulfan sulfate	1000	0.27 U	5.1	0.2 U	0.2 U
Endrin	100	1.4 U	1.9 J	5.4 J	1.2 J
Endrin aldehyde	NA	0.5 U	0.74 J	0.38 U	3.1 J
Endrin ketone	NA	0.9 J	9.7	11	1.2 J
gamma-BHC (Lindane)	60	4.9	0.17 U	2.6	0.18 U
gamma-Chlordane	540	0.31 J	11	6.9	2.6
Heptachlor	100	3.5	4.2	9.4	14
Heptachlor epoxide	20	4.1	0.67 J	0.18 J	0.13 U
Methoxychlor	10000	20 J	22	7.9 J	2.5 U

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1	1
Method Blank	4046	MB-57010	MB-57010	MB-57010	MB-57010	MB-57010
Client ID	RSCO[1]	QW-SB-20(4-6)	QW-SB-20(28-30)	QW-SB-21(6-8)	QW-SB-21(20-22)	QW-SB-22(2-4)
Lab Sample ID		211192-008	211192-009	211192-013	211192-014	211192-010
Date Sampled		10/27/2005	10/27/2005	10/28/2005	10/28/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
Aroclor 1242	NS	3.3 U	3.4 U	3.5 U	3.8 U	3.3 U
Aroclor 1248	NS	2.9 U	3 U	3.2 U	3.4 U	27
Aroclor 1254	NS	25	1.4 U	1.4 U	1.5 U	1.3 U
Aroclor 1260	NS	22	4.5 U	19 JM	5.1 U	220 M
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	47	ND	19	ND	247

Pesticides

Dilution	TAGM	1	1	1	1	1
Method Blank	4046	MB-57010	MB-57010	MB-57010	MB-57010	MB-57010
Client ID	RSCO	QW-SB-20(4-6)	QW-SB-20(28-30)	QW-SB-21(6-8)	QW-SB-21(20-22)	QW-SB-22(2-4)
Lab Sample ID		211192-008	211192-009	211192-013	211192-014	211192-010
Date Sampled		10/27/2005	10/27/2005	10/28/2005	10/28/2005	10/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound						
4 4'-DDD	2100	8.2	0.43 U	1.6 J	20	6.1
4 4'-DDE	2100	3.9	0.49 U	1.9 J	9.1	8.6
4 4'-DDT	2900	25	11	12	43	16
Aldrin	41	2.4	0.4 U	1.2 J	3.2	0.64 J
alpha-BHC	110	0.71 J	1.2 J	2 J	0.35 U	2.1
alpha-Chlordane	540	2.3	0.12 U	8.6 M	12	4.4
beta-BHC	200	10	2.4	8.8	7.9	2.4
delta-BHC	300	0.81 J	0.14 J	1.3 J	1.4 J	0.62 J
Dieldrin	44	1.2 J	0.46 J	1.1 J	15	6.2
Endosulfan I	900	0.8 J	0.17 U	2.2	5.4	0.16 U
Endosulfan II	900	1.9 J	0.24 JM	2.3 J	3.8 J	0.75 J
Endosulfan sulfate	1000	0.29 J	0.2 U	6.2	0.22 U	0.19 U
Endrin	100	12	1 U	4.3 J	1.1 U	2 J
Endrin aldehyde	NA	1.9 J	0.85 J	1.6 J	5.6	8.5
Endrin ketone	NA	10	0.59 J	14	3.6 J	7.9
gamma-BHC (Lindane)	60	0.17 U	0.17 U	0.18 U	0.19 U	0.17 U
gamma-Chlordane	540	7.8	0.13 J	8.6	16	3.7
Heptachlor	100	2.1	1.4 J	4.1	11	0.38 J
Heptachlor epoxide	20	0.12 U	0.29 J	0.31 J	1.7 J	0.6 J
Methoxychlor	10000	2.8 J	2.4 U	33	50	2.3 U

See notes at end of table section.

TABLE 8
PCBS AND PESTICIDES IN SOIL
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	1	1	1
Method Blank	4046	MB-57010	MB-57010	MB-57004	MB-54848	MB-55232
Client ID	RSCO[1]	QW-SB-24(6-8)	QW-SB-24(18-20)	QW-FIELD BLANK-1	FIELD BLANK	FIELD BLANK
Lab Sample ID		211192-011	211192-012	211192-003	210779-013	210846-007
Date Sampled		10/28/2005	10/28/2005	10/27/2005	9/15/2005	9/22/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L
Compound						
Aroclor 1242	NS	3.4 U	3.6 U	0.078 U	0.072 U	0.079 U
Aroclor 1248	NS	3.1 U	3.3 U	0.065 U	0.06 U	0.066 U
Aroclor 1254	NS	1.4 U	1.5 U	0.1 U	0.094 U	0.1 U
Aroclor 1260	NS	4.6 U	4.9 U	0.089 U	0.082 U	0.09 U
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	ND	ND	ND	ND	ND

Pesticides

Dilution	TAGM	1	1	1	1	1
Method Blank	4046	MB-57010	MB-57010	MB-57004	MB-54848	MB-55426
Client ID	RSCO	QW-SB-24(6-8)	QW-SB-24(18-20)	QW-FIELD BLANK-1	FIELD BLANK	FIELD BLANK
Lab Sample ID		211192-011	211192-012	211192-003	210779-013	210846-007
Date Sampled		10/28/2005	10/28/2005	10/27/2005	9/15/2005	9/22/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/L
Compound						
4 4'-DDD	2100	1.7 J	0.46 U	0.016 U	0.014 U	0.014 U
4 4'-DDE	2100	3.6 J	0.53 U	0.0096 U	0.0088 U	0.044 J
4 4'-DDT	2900	25	8.5	0.011 U	0.01 U	0.01 U
Aldrin	41	3.8	0.99 J	0.0063 U	0.0058 U	0.0058 U
alpha-BHC	110	1.1 J	0.33 U	0.012 U	0.011 U	0.011 U
alpha-Chlordane	540	11	2 J	0.006 U	0.0055 U	0.0055 U
beta-BHC	200	13	0.61 J	0.014 U	0.013 U	0.013 U
delta-BHC	300	7	2.3	0.0024 U	0.0022 U	0.0036 J
Dieldrin	44	0.6 J	0.84 J	0.0062 U	0.0057 U	0.0057 U
Endosulfan I	900	0.17 U	0.18 U	0.0038 U	0.0035 U	0.0035 U
Endosulfan II	900	5.9	1 J	0.013 U	0.012 U	0.012 U
Endosulfan sulfate	1000	2.5 J	0.21 U	0.015 U	0.014 U	0.014 U
Endrin	100	18	1.1 U	0.027 U	0.025 U	0.025 U
Endrin aldehyde	NA	11	0.56 J	0.031 U	0.028 U	0.028 U
Endrin ketone	NA	39	1.7 J	0.018 U	0.016 U	0.016 U
gamma-BHC (Lindane)	60	0.17 U	0.19 U	0.0057 U	0.0052 U	0.0052 U
gamma-Chlordane	540	13	1.5 J	0.0066 U	0.0061 U	0.0061 U
Heptachlor	100	7	3.7	0.0085 U	0.0078 U	0.0078 U
Heptachlor epoxide	20	1.1 J	0.14 U	0.0062 U	0.0057 U	0.032 J
Methoxychlor	10000	57	2.6 U	0.044 U	0.041 U	0.041 U*

See notes at end of table section.

NOTES

Notes for Tables 4, 5, 6, 8, 9, 10, 11, and 13:

1 - Recommended Soil Clean-up Objectives (RSCOs) listed in NYSDEC Technical and Adminstrative Guidance Memorandum (TAGM) #4046

2 - Duplicate sample. Duplicate sample results are listed immediately following corresponding field sample results.

ug/Kg - micrograms per kilogram = parts per billion (ppb)

ug/L - micrograms per liter = parts per billion (ppb)

ug/m^3 - micrograms per cubic meter

U - Analyte was not detected at or above the reporting limit.

J - Result is an estimated value below the reporting limit.

B - Compound was found in the associated blank.

M - Manually integraded compound.

H - Alternate peak selection upon analytical review.

NR - Not reported.

NA - Not available.

N/A - Not analyzed.

ND - Not detected.

Notes for Tables 7 and 12:

1 - Recommended Soil Cleanup Objectives (RSCOs) and Eastern United States background ranges listed in NYSDEC Technical and Adminstrative Guidance Memorandum (TAGM) #4046

2 - Duplicate sample. Duplicate sample results are listed immediately following corresponding field sample results.

3 - Background levels for lead cary widely. Average background levels in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

NA - Not available

SB - Site background

mg/kg - milligrams per kilogram = parts per million (ppm)

mg/L - milligrams per liter = parts per million (ppm)

U - Analyte was not detected at or above the reporting limit.

B - Result is less than the reporting limit, but greater than the method detection limit.

N - MS, MSD: Spike recovery exceed the upper or lower control limits.

* - LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.

TABLE 9
VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	NYSDEC Class	5	2	40	50	1	1	1	20	100
Method Blank	GA Ambient	MB-56204	MB-55989	MB-55989	MB-55989	MB-55989	MB-56237	MB-55853	MB-55989	MB-55989
Client ID	Water Quality	QW-MW-1	QW-MW-2	QW-MW-3	QW-MW-3A[2]	QW-MW-4	QW-TRC-MW-4	QW-MW-5	QW-MW-6	QW-MW-7
Lab Sample ID	Standards	211018-011	211018-008	211018-004	211018-005	211018-007	211018-014	211018-001	211018-002	211018-003
Date Sampled		10/6/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/7/2005	10/4/2005	10/4/2005	10/4/2005
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Compound										
Acetone	50	39 J	12 J	170 J	70 U	1.4 U	1.4 U	1.4 U	28 U	140 U
Benzene	0.7	190	220	6300	6800	0.4 U	3.3 J	2.6 J	3000	8100
Ethylbenzene	5	560	150	180 J	230 J	1 U	1 UM	1.9 J	220	1300
Methylene chloride	5	8.8 JB	3 JB	74 JB	43 JB	0.62 JB	0.4 UB	0.63 JB	23 JB	270 JB
Methyl-tert-butyl-ether (MTBE)	5	4 JH	2.3 J	12 U	15 U	0.3 U	2.4 J	0.3 U	6 U	30 U
Styrene	5	16 J	1 U	250	280	0.5 U	0.5 U	0.5 U	23 J	150 J
Toluene	5	210	3.3 J	2100	2300	0.3 U	0.31 J	0.58 J	1000	4500
Xylenes (total)	5	1200	10	1200	1300	1 U	1 U	3 J	1000	4700

See notes at end of table section.

TABLE 9
VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	NYSDEC Class	4	100	1	1	1	1
Method Blank	GA Ambient	MB-56237	MB-56204	MB-56033	MB-56033	MB-56033	MB-56495
Client ID	Water Quality	QW-MW-8	QW-MW-9	QW-MW-10	QW-FIELD BLANK	TB100705	TB100505
Lab Sample ID	Standards	211018-013	211018-009	211018-010	211018-012	211018-015	211018-006
Date Sampled		10/7/2005	10/6/2005	10/6/2005	10/7/2005	10/7/2005	10/5/2005
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Compound							
Acetone	50	5.6 U	140 U	14	1.4 U	1.4 U	1.4 U
Benzene	0.7	17 J	1200	0.4 U	0.4 U	0.4 U	0.4 U
Ethylbenzene	5	330	1100	1.3 J	1 U	1 U	1 U
Methylene chloride	5	5.3 JB	290 JB	1.1 JB	1.7 JB	2.6 JB	2.3 JB
Methyl-tert-butyl-ether (MTBE)	5	1.2 U	30 U	7.7	0.3 U	0.3 U	0.3 U
Styrene	5	2.4 J	50 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	13 J	13000	0.3 U	0.3 U	0.3 U	0.3 U
Xylenes (total)	5	690	4500	1 U	1 U	1 U	1 U

See notes at end of table section.

TABLE 10
SEMIVOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution	NYSDEC Class	50	4	200	200	1	1	5	100
Method Blank	GA Ambient	MB-56049	MB-55847	MB-55847	MB-55847	MB-55847	MB-56049	MB-55847	MB-55847
Client ID	Water Quality	QW-MW-1	QW-MW-2	QW-MW-3	QW-MW-3A[2]	QW-MW-4	QW-TRC-MW-4	QW-MW-5	QW-MW-6
Lab Sample ID	Standards	211018-011	211018-008	211018-004	211018-005	211018-007	211018-014	211018-001	211018-002
Date Sampled		10/6/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/7/2005	10/4/2005	10/4/2005
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Compound									
2-Methylnaphthalene	NA	310 J	3 U	480 J	460 J	0.6 U	0.6 U	11 J	230 J
Acenaphthene	20	480 J	240	160 U	160 U	0.8 U	2 J	330	240 J
Acenaphthylene	NA	38 U	3 U	290 J	270 J	0.8 U	0.8 U	4 U	75 U
Anthracene	50	50 U	4 U	200 U	200 U	1 U	1 U	11 J	99 U
Bis(2-ethylhexyl)phthalate	5	66 U	6 U	260 U	260 U	1 J	1 U	7 U	130 U
Carbazole	NA	190 J	150	530 J	490 J	1 U	1 U	32 J	130 J
Dibenzofuran	NA	270 J	110	160 U	160 U	0.8 U	0.8 U	150	140 J
Diethyl phthalate	50	41 U	4 U	160 U	160 U	2 JB	1 J	4 U	82 U
Fluoranthene	50	89 J	5 U	220 U	220 U	1 U	1 J	5 U	110 U
Fluorene	50	180 J	67	150 U	150 U	0.8 U	0.8 U	110	110 J
Naphthalene	10	3800	52	10000	10000	0.8 J	2 J	200	2700
Phenanthrene	50	380 J	42 J	200 J	190 J	0.7 U	0.7 U	57	230 J
Pyrene	50	50 U	4 U	200 U	200 U	1 U	1 J	5 U	100 U

See notes at end of table section.

TABLE 10
SEMIVOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Dilution Method Blank Client ID Lab Sample ID Date Sampled Units Compound	NYSDEC Class GA Ambient Water Quality Standards ug/L	200 MB-55847 QW-MW-7 211018-003 10/4/2005 ug/L	200 MB-56049 QW-MW-8 211018-013 10/7/2005 ug/L	200 MB-56049 QW-MW-9 211018-009 10/6/2005 ug/L	1 MB-56049 QW-MW-10 211018-010 10/6/2005 ug/L	1 MB-56049 QW-FIELD BLANK 211018-012 10/7/2005 ug/L
2-Methylnaphthalene	NA	420 J	1100 J	740 J	0.6 U	0.7 U
Acenaphthene	20	160 U	320 J	160 U	0.8 U	0.9 U
Acenaphthylene	NA	150 U	150 U	150 U	0.8 U	0.8 U
Anthracene	50	200 U	200 U	200 U	1 U	1 U
Bis(2-ethylhexyl)phthalate	5	260 U	260 U	260 U	1 U	1 U
Carbazole	NA	220 U	220 J	220 U	1 U	1 U
Dibenzofuran	NA	160 U	250 J	160 U	0.8 U	0.9 U
Diethyl phthalate	50	160 U	160 U	160 U	0.8 U	0.9 U
Fluoranthene	50	220 U	220 U	220 U	1 U	1 U
Fluorene	50	150 U	150 U	150 U	0.8 U	0.9 U
Naphthalene	10	8300	14000	13000	4 J	0.7 U
Phenanthrene	50	130 U	130 U	130 U	0.7 U	0.7 U
Pyrene	50	200 U	200 U	200 U	1 U	1 U

See notes at end of table section.

TABLE 11
VOLATILE AND SEMIVOLATILE ORGANIC COMPOUNDS IN TEST PIT SOIL SAMPLES
QUEENS WEST PAREL 9 OFF-SITE, QUEENS, NEW YORK

VOCS

Method Blank	4046	MB-55850	MB-55850	MB-55850	MB-55850	MB-55850	MB-55850
Client ID	RSCO[1]	QW-TP1-(5-6)	QW-TP4-(1-2)	QW-TP5-(5-6)	QW-TP6-(0-1)	QW-TP9-(5-6)	QW-TP13-(5-6)
Lab Sample ID		210950-002	210950-003	210950-005	210950-006	210950-008	210950-010
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Butanone (MEK)	300	3.6 JB	3.5 JB	3.8 JB	4 JB	3.4 JB	2.6 JB
Acetone	200	3.3 JB	3.2 JB	3.3 JB	4.5 JB	4.2 JB	2.3 JB
Benzene	60	1.5 U	2.2 J	1.5 U	3.1 J	1.6 U	1.5 U
Methylene chloride	100	29	60	35	140	68	15
Toluene	1,500	1.8 U	2.1 J	1.8 U	2.5 J	1.9 U	1.8 U
Trichloroethene	700	4.5 J	27	4 J	28	14	1.8 U
Total VOCs	10,000	40.4	98	46.1	182.1	89.6	19.9

SVOCS

Dilution	TAGM	2	4	2	2	4	2
Method Blank	4046	MB-55788	MB-55788	MB-55788	MB-55788	MB-55788	MB-55788
Client ID	RSCO[1]	QW-TP1-(5-6)	QW-TP4-(1-2)	QW-TP5-(5-6)	QW-TP6-(0-1)	QW-TP9-(5-6)	QW-TP13-(5-6)
Lab Sample ID		210950-002	210950-003	210950-005	210950-006	210950-008	210950-010
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
2-Methylnaphthalene	36,400	900 J	450 J	1,300 J	2,200	930 J	320 J
Acenaphthene	50,000	1,700	1,400 J	1,400	3,100	2,100 J	890 J
Acenaphthylene	41,000	660 J	860 J	600 J	890 J	2,600 J	340 J
Anthracene	50,000	3,800	3,200	3,300	6,000	7,000	2,300
Benzo(a)anthracene	224	8,700	6,700	5,400	9,000	24,000	7,000
Benzo(a)pyrene	61	8,400	7,500	5,500	8,600	29,000	7,100
Benzo(b)fluoranthene	1,100	10,000	10,000	6,100	9,200	34,000	7,900
Benzo(ghi)perylene	50,000	9,700	10,000	4,500	5,600	23,000	4,300
Benzo(k)fluoranthene	1100	3,500	2,800	2,200	4,000	13,000	3,100
Bis(2-ethylhexyl)phthalate	50,000	340 J	360 U	230 J	330 J	630 J	740 J
Carbazole	NA	1,300 J	790 J	970 J	1,500	2,100 J	590 J
Chrysene	400	9,200	7,200	5,800	9,400	28,000	7,100
Dibenzo(a h)anthracene	14	2,400	2,300 JM	1,200 J	1,800	5,800	1,100 J
Dibenzofuran	6,200	1,200 J	710 J	1,300 J	2,200	1,600 J	610 J
Fluoranthene	50,000	17,000	17,000	11,000	19,000	37,000	14,000
Fluorene	50,000	1,500	840 J	1,100 J	2,700	1,600 J	790 J
Indeno(1 2 3-cd)pyrene	3,200	7,400	7,500	3,900	5,300	17,000	3,700
Naphthalene	13,000	1,600	960 J	2,400	2,300	2,200 J	650 J
Phenanthrene	50,000	13,000	7,700	9,200	17,000	22,000	8,900
Pyrene	50,000	16,000	18,000	11,000	16,000	33,000	11,000
Total SVOCs	500,000	118,300	105,910	78,400	126,120	286,560	82,430

See notes at end of table section.

TABLE 11
VOLATILE AND SEMIVOLATILE ORGANIC COMPOUNDS IN TEST PIT SOIL SAMPLES
QUEENS WEST PAREL 9 OFF-SITE, QUEENS, NEW YORK

VOCS

Method Blank	4046	MB-55850	MB-55850	MB-55850	MB-55850	MB-55463
Client ID	RSCO[1]	QW-Q1TP-COMP	QW-Q2TP-COMP	QW-Q3TP-COMP	QW-Q4TP-COMP	TRIP BLANK
Lab Sample ID		210950-001	210950-004	210950-007	210950-009	210950-015
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L
Compound						
2-Butanone (MEK)	300	3.5 JB	3.4 JB	3.3 JB	3.4 JB	7.2 J
Acetone	200	3.4 JB	3 JB	3.4 JB	2.8 JB	11
Benzene	60	1.5 U	1.7 J	1.5 U	1.5 U	0.4 U
Methylene chloride	100	8.1 J	76	56	48	2.7 JB
Toluene	1,500	1.8 U	1.8 U	1.8 U	1.8 U	0.3 U
Trichloroethene	700	1.8 U	16	9.4	9.8	0.7 U
Total VOCs	10,000	15	100.1	72.1	64	20.9

SVOCS

Dilution	TAGM	4	2	2	4	1
Method Blank	4046	MB-55788	MB-55788	MB-55788	MB-55788	MB-55463
Client ID	RSCO[1]	QW-Q1TP-COMP	QW-Q2TP-COMP	QW-Q3TP-COMP	QW-Q4TP-COMP	TRIP BLANK
Lab Sample ID		210950-001	210950-004	210950-007	210950-009	210950-015
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L
Compound						
2-Methylnaphthalene	36,400	1,200 J	860 J	850 J	1,400 J	N/A
Acenaphthene	50,000	2,100 J	1,600	1,600	2,400 J	N/A
Acenaphthylene	41,000	740 J	750 J	710 J	550 J	N/A
Anthracene	50,000	6,200	3,000	3,400	5,200	N/A
Benzo(a)anthracene	224	9,900	7,900	7,900	11,000	N/A
Benzo(a)pyrene	61	9,700	7,500	8,200	10,000	N/A
Benzo(b)fluoranthene	1,100	13,000	8,400	9,000	12,000	N/A
Benzo(ghi)perylene	50,000	11,000	6,600	4,900	5,400	N/A
Benzo(k)fluoranthene	1100	4,000	3,100	3,900	4,100	N/A
Bis(2-ethylhexyl)phthalate	50,000	360 U	580 J	220 J	370 U	N/A
Carbazole	NA	2,100 J	900 J	960 J	1,800 J	N/A
Chrysene	400	11,000	8,300	8,300	11,000	N/A
Dibenzo(a h)anthracene	14	2,900	1,900	1,400	1,600 J	N/A
Dibenzofuran	6,200	1,500 J	900 J	1,300 J	1,900 J	N/A
Fluoranthene	50,000	21,000	16,000	14,000	22,000	N/A
Fluorene	50,000	1,800 J	1,200 J	1,500	2,500 J	N/A
Indeno(1 2 3-cd)pyrene	3,200	8,800	5,800	4,400	4,800	N/A
Naphthalene	13,000	2,100 J	1,000 J	1,500	3,000	N/A
Phenanthrene	50,000	15,000	11,000	11,000	21,000	N/A
Pyrene	50,000	21,000	15,000	12,000	17,000	N/A
Total SVOCs	500,000	145,040	102,290	97,040	138,650	0

See notes at end of table section.

TABLE 12
METALS IN TEST PIT SOIL SAMPLES
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] mg/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-55404 QW-TP1-(5-6) 210950-002 9/27/2005 mg/Kg	MB-55404 QW-TP4-(1-2) 210950-003 9/27/2005 mg/Kg	MB-55404 QW-TP5-(5-6) 210950-005 9/27/2005 mg/Kg	MB-55404 QW-TP6-(0-1) 210950-006 9/27/2005 mg/Kg	MB-55404 QW-TP9-(5-6) 210950-008 9/27/2005 mg/Kg	MB-55404 QW-TP13-(5-6) 210950-010 9/27/2005 mg/Kg
Aluminum	33,000	SB	6090 *	7290 *	6270 *	4440 *	4970 *	6030 *
Antimony	NA	7.5 of SB	1.5 UN	1.2 UN	1.4 UN	2 BN	1.6 UN	1.2 UN
Arsenic	3 - 12	300 or SB	8.4 B	9.4	13.6	10.8	17.6	7.6 B
Barium	15 - 600	0.16 or SB	138 *N	90.8 *N	229 *N	105 *N	343 *N	189 *N
Calcium	130 - 35,000	SB	19500 *	12700 *	16200 *	8210 *	8140 *	12900 *
Chromium	1.5 - 40	10 or SB	17.5 *	21.9 *	24.2 *	21 *	12.4 *	29.4 *
Cobalt	2.5 - 60	30 or SB	6 *N	8.3 *N	7.7 *N	5.5 *N	6 *N	6 *N
Copper	1 - 50	25 or SB	60.1 *N	77.1 *N	124 *N	118 *N	65.5 *N	95.1 *N
Iron	2000 - 550,000	2000 or SB	16100 *	18300 *	27700 *	23900 *	16000 *	16900 *
Lead	200 - 500[3]	SB	218 *N	128 *N	382 *N	226 *N	176 *N	406 *N
Magnesium	100 - 5000	SB	3300 *N	6030 *N	3660 *N	2010 *N	2230 *N	3240 *N
Manganese	50 - 5000	SB	318	214	393	226	195	239
Mercury	0.001 - 0.2	0.1	0.53	5.2	1.5	0.79	0.87	0.46
Nickel	0.5 - 25	13 or SB	17.7 *N	19.1 *N	25.2 *N	17.2 *N	18.4 *N	18.4 *N
Potassium	8500 - 43,000	SB	746 N	1200 N	927 N	695 N	568 N	727 N
Selenium	0.1 - 3.9	2 or SB	2.1 U	1.7 U	1.9 U	2 B	2.2 U	1.7 U
Silver	NA	SB	0.42 UN	0.34 UN	0.47 BN	0.36 UN	0.44 UN	0.43 BN
Sodium	6000 - 8000	SB	153 N	136 N	166 N	185 N	205 N	114 N
Vanadium	1 - 300	150 or SB	30.2 *N	33.2 *N	39.5 *N	28.1 *N	29.7 *N	26.7 *N
Zinc	9 - 50	20 or SB	207	357	453	160	167	334

See notes at end of table section.

TABLE 12
METALS IN TEST PIT SOIL SAMPLES
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

Method Blank Client ID Lab Sample ID Date Sampled Units Compound	TAGM 4046 Eastern US[1] mg/Kg	TAGM 4046 RSCO[1] ug/Kg	MB-55404 QW-Q1TP-COMP 210950-001 9/27/2005 mg/Kg	MB-55404 QW-Q2TP-COMP 210950-004 9/27/2005 mg/Kg	MB-55404 QW-Q3TP-COMP 210950-007 9/27/2005 mg/Kg	MB-55404 QW-Q4TP-COMP 210950-009 9/27/2005 mg/Kg
Aluminum	33,000	SB	6720 *	6890 *	6370 *	6580 *
Antimony	NA	7.5 of SB	1.5 UN	1.2 UN	1.3 UN	1.3 UN
Arsenic	3 - 12	300 or SB	10.8	14.3	13.3	9.5
Barium	15 - 600	0.16 or SB	134 *N	319 *N	300 *N	210 *N
Calcium	130 - 35,000	SB	17400 *	14200 *	15500 *	17700 *
Chromium	1.5 - 40	10 or SB	18.8 *	24.4 *	19.7 *	22.8 *
Cobalt	2.5 - 60	30 or SB	5.8 *N	8.7 *N	6.8 *N	9 *N
Copper	1 - 50	25 or SB	81.6 *N	120 *N	85.8 *N	170 *N
Iron	2000 - 550,000	2000 or SB	17400 *	26900 *	19300 *	19700 *
Lead	200 - 500[3]	SB	207 *N	451 *N	306 *N	426 *N
Magnesium	100 - 5000	SB	4850 *N	3880 *N	3980 *N	3860 *N
Manganese	50 - 5000	SB	248	327	285	294
Mercury	0.001 - 0.2	0.1	3.6	1.5	0.62	0.53
Nickel	0.5 - 25	13 or SB	16.9 *N	27.5 *N	23 *N	23.9 *N
Potassium	8500 - 43,000	SB	1090 N	1050 N	829 N	745 N
Selenium	0.1 - 3.9	2 or SB	2.1 U	1.9 B	1.8 U	1.9 U
Silver	NA	SB	0.41 UN	0.45 BN	0.36 UN	0.55 BN
Sodium	6000 - 8000	SB	164 N	189 N	193 N	126 N
Vanadium	1 - 300	150 or SB	30.4 *N	52.3 *N	39.4 *N	37.5 *N
Zinc	9 - 50	20 or SB	216	417	292	465

See notes at end of table section.

TABLE 13
POLYCHLORINATED BIPHENYLS AND PESTICIDES IN TEST PIT SOIL SAMPLES
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	1	1	5	1	1	1
Method Blank	4046	MB-55560	MB-55560	MB-55560	MB-55560	MB-55560	MB-55560
Client ID	RSCO[1]	QW-TP1-(5-6)	QW-TP4-(1-2)	QW-TP5-(5-6)	QW-TP6-(0-1)	QW-TP9-(5-6)	QW-TP13-(5-6)
Lab Sample ID		210950-002	210950-003	210950-005	210950-006	210950-008	210950-010
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	uk/kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
Aroclor 1248	NS	2.8 U	2.9 U	15 U	3.1 U	3.1 U	2.8 U
Aroclor 1254	NS	64 H	24 M	150 M	45 M	25 M	20
Aroclor 1260	NS	220 M	140	750	280	140	27
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	284	164	900	325	165	47

Pesticides

Dilution	TAGM	10	20	10	10	20	10
Method Blank	4046	MB-55560	MB-55560	MB-55560	MB-55560	MB-55560	MB-55560
Client ID	RSCO[1]	QW-TP1-GRAB(5-6)	QW-TP4-GRAB(1-2)	QW-TP5-GRAB(5-6)	QW-TP6-GRAB(0-1)	QW-TP9-GRAB(5-6)	QW-TP13-GRAB(5-6)
Lab Sample ID		210950-002	210950-003	210950-005	210950-006	210950-008	210950-010
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	uk/kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound							
4 4'-DDD	2100	4 U	8.2 U	4.1 U	4.4 U	8.6 U	29 J
alpha-Chlordane	540	1.2 U	2.4 U	4.2 J	1.3 U	2.5 U	1.1 U
beta-BHC	200	4.6 J	5.8 U	3.8 J	9.1 J	6.1 U	2.8 U
delta-BHC	300	1.5 J	2.3 J	1.7 J	1.2 U	2.3 U	1.1 U
Endosulfan I	900	160 M	340 M	140 M	120 M	340 M	120 M
Endosulfan II	900	1.8 U	3.6 U	1.8 U	2 U	38 J	1.8 U
Endosulfan sulfate	1000	23 J	3.7 U	18 J	24 J	50 J	19 J
Endrin ketone	NA	1.5 U	33 J	21 J	17 J	81	1.5 U
Heptachlor epoxide	20	5.3 J	6.7 J	1.2 U	4.5 J	8.9 J	3.8 J
Methoxychlor	10000	88 J	140 JM	68 J	52 J	380 JM	65 J

See notes at end of table section.

TABLE 13
POLYCHLORINATED BIPHENYLS AND PESTICIDES IN TEST PIT SOIL SAMPLES
QUEENS WEST PARCEL 9 OFF-SITE, QUEENS, NEW YORK

PCBs

Dilution	TAGM	5	10	1	1
Method Blank	4046	MB-55560	MB-55560	MB-55560	MB-55560
Client ID	RSCO[1]	QW-Q1TP-COMP	QW-Q2TP-COMP	QW-Q3TP-COMP	QW-Q4TP-COMP
Lab Sample ID		210950-001	210950-004	210950-007	210950-009
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	uk/kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
Aroclor 1248	NS	14 U	28 U	2.8 U	170
Aroclor 1254	NS	170 M	220 M	26 M	65 M
Aroclor 1260	NS	570	1200	160	180
Total PCBs	1,000 (Surface)/ 10,000 (Subsurface)	740	1420	186	415

Pesticides

Dilution	TAGM	20	10	5	10
Method Blank	4046	MB-55560	MB-55560	MB-55560	MB-55560
Client ID	RSCO[1]	QW-Q1TP-COMPOSITE	QW-Q2TP-COMPOSITE	QW-Q3TP-COMPOSITE	QW-Q4TP-COMPOSITE
Lab Sample ID		210950-001	210950-004	210950-007	210950-009
Date Sampled		9/27/2005	9/27/2005	9/27/2005	9/27/2005
Units	uk/kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Compound					
4 4'-DDD	2100	8.1 U	4 U	2 U	4 U
alpha-Chlordane	540	2.3 U	7.5 J	1 J	1.2 U
beta-BHC	200	9.7 J	2.8 U	1.8 J	7.5 J
delta-BHC	300	3 J	1.1 U	0.54 U	1.1 U
Endosulfan I	900	240 M	150	54 M	200
Endosulfan II	900	43 J	1.8 U	0.9 U	1.8 U
Endosulfan sulfate	1000	39 J	16 J	13 J	28 J
Endrin ketone	NA	20 J	14 J	12 J	38
Heptachlor epoxide	20	5.6 J	1.2 U	1.6 J	6.3 J
Methoxychlor	10000	130 J	70 J	36 J	110 J

See notes at end of table section.

NOTES

Notes for Tables 4, 5, 6, 8, 9, 10, 11, and 13:

1 - Recommended Soil Clean-up Objectives (RSCOs) listed in NYSDEC Technical and Adminstrative Guidance Memorandum (TAGM) #4046

2 - Duplicate sample. Duplicate sample results are listed immediately following corresponding field sample results.

ug/Kg - micrograms per kilogram = parts per billion (ppb)

ug/L - micrograms per liter = parts per billion (ppb)

ug/m^3 - micrograms per cubic meter

U - Analyte was not detected at or above the reporting limit.

J - Result is an estimated value below the reporting limit.

B - Compound was found in the associated blank.

M - Manually integraded compound.

H - Alternate peak selection upon analytical review.

NR - Not reported.

NA - Not available.

N/A - Not analyzed.

ND - Not detected.

Notes for Tables 7 and 12:

1 - Recommended Soil Cleanup Objectives (RSCOs) and Eastern United States background ranges listed in NYSDEC Technical and Adminstrative Guidance Memorandum (TAGM) #4046

2 - Duplicate sample. Duplicate sample results are listed immediately following corresponding field sample results.

3 - Background levels for lead cary widely. Average background levels in metropolitan or suburban areas or near highways typically range from 200-500 ppm.

NA - Not available

SB - Site background

mg/kg - milligrams per kilogram = parts per million (ppm)

mg/L - milligrams per liter = parts per million (ppm)

U - Analyte was not detected at or above the reporting limit.

B - Result is less than the reporting limit, but greater than the method detection limit.

N - MS, MSD: Spike recovery exceed the upper or lower control limits.

* - LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.