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Steve Trifiletti
Project Manager

October 18, 2013

Mr. Brian Davidson
New York State Department of Environmental Conservation
Remedial Bureau B
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7016

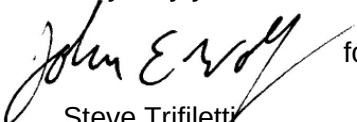
**Re: LNAPL Transmissivity, Fluid Properties Evaluation and
Supplemental Soil Investigation Work Plan**
Former Pratt Oil Works
Long Island City, Queens, New York

Dear Mr. Davidson:

Exxon Mobil Corporation ("ExxonMobil") is submitting for your review and comment the enclosed *LNAPL Transmissivity, Fluid Properties Evaluation and Supplemental Soil Investigation Work Plan* for the subject site. One hard copy and an electronic copy are provided per Section VIII of the Consent Order (D2-1002-12-07AM) executed between ExxonMobil and NYSDEC. This report has been prepared on behalf of ExxonMobil by Kleinfelder of Islandia, New York.

Please do not hesitate to contact me at (718) 404-0652 if you have questions.

Very truly yours,

 for:
Steve Trifiletti
Project Manager

Enclosure

Via FEDEX Overnight

cc: S. Caruso (NYSDEC – electronic copy)
L. Forte (A&L Cesspool Ser./Co. – hard copy)
D. Goebel (DG Properties, LLC – hard copy)
J. Kaplan (Waste Management of New York LLC –hard copy)
P. Kuzman (Pepatoba Corp. – hard copy)
K. Lumpe (Steel Equities – hard copy)
Marcovici (Review Associates, LLC – hard copy and electronic)
J. Periconi (Periconi, LLC – electronic copy)
N. Sherman (HP Sherman Co. Inc. – hard copy)
G. Werwaiss (Werwaiss Realty co. – hard copy)
J. Wolf (Kleinfelder)



DELIVERED VIA Electronic Mail

October 18, 2013

Mr. Steve P. Trifiletti
ExxonMobil Environmental Services Company
Global Remediation - Major Projects
400 Kingsland Avenue
Brooklyn, New York 11222

**Re: LNAPL Transmissivity, Fluid Properties Evaluation and
Supplemental Soil Investigation Work Plan**

Former Pratt Oil Works
The Inland Project Area (Tract I)
The Waterfront Project Area (Tract II)
Long Island City, New York
NYSDEC Case No. 07-07418 (Parcel A)
NYSDEC Case No. 08-13060 (Parcel B)
NYSDEC Case No. 07-07417 (Parcel C)
NYSDEC Case No. 09-04539 (Parcel D)
NYSDEC Case No. 09-03356 (Parcel E)
NYSDEC Case No. 12-02509 (Parcel F)
NYSDEC Case No. 09-03488 (Parcel G)
NYSDEC Case No. 09-03616 (Parcel H)
NYSDEC Case No. 09-03287 (Parcel I)
Consent Order Case No. D2-1002-12-07AM
NYSDEC Remedial Tracking No. S241115

Dear Mr. Trifiletti:

Kleinfelder East, Inc. (Kleinfelder) was retained by ExxonMobil Environmental Services Company (ExxonMobil), to prepare this *LNAPL Transmissivity, Fluid Properties Evaluation and Supplemental Soil Investigation Work Plan* (Work Plan) for the above-referenced Former Pratt Oil Works, Inland Parcels (Tract I) and the Waterfront Parcels (Tract II), herein collectively referred to as the Project Area, for New York State

Department of Environmental Conservation (NYSDEC)'s review and approval. Once approved, this Work Plan will be incorporated into the Order on Consent No. D2-1002-12-07AM, which was executed between ExxonMobil Oil Corporation and the NYSDEC on July 15, 2008. This Work Plan has been reviewed by Kleinfelder Engineering, P.C. for accuracy, content and quality of presentation as described in the engineering certification provided as Attachment A.

This Work Plan was prepared based on the findings of site characterization activities reported in the *Supplemental Site Characterization Report* (SSCR) prepared by Kleinfelder dated May 7, 2013. The SSCR proposed additional fluid properties analysis of light non-aqueous phase liquid (LNAPL) and LNAPL transmissivity testing of select monitoring wells across the Project Area. The additional fluid properties analysis is proposed to supplement existing data in an effort to fill data gaps. Transmissivity testing and analysis are proposed to supplement a LNAPL potential mobility evaluation included in the SSCR and in an effort to investigate the potential recoverability of the LNAPL detected in monitoring wells. A supplemental soil investigation is also proposed to assess the vertical distribution of LNAPL saturation, capillary pressures, and hydrocarbon concentrations. The additional testing and analysis are proposed in an effort to evaluate LNAPL recoverability and potential remedial feasibility study options, if applicable.

SITE DESCRIPTION

The Project Area is a former wax refinery that was operated by a predecessor of ExxonMobil from approximately 1892 to 1949. The Project Area is located approximately 1,000 feet southeast of the Greenpoint Avenue Bridge. The Project Area is located within the United States Geological Survey (USGS) 7.5-Minute Topographic Map, Brooklyn, New York, Quadrangle. The Project Area is approximately 10 to 25 feet (ft) above mean sea level (msl). Topography in the vicinity of the Project Area slopes to the southwest towards Newtown Creek and is illustrated on a Locus Plan provided on Figure 1.

The Project Area encompasses approximately 18.5 acres located adjacent to Newtown Creek. The Project Area has been subdivided into 16-lots of Block 312 since approximately 1949. The Project Area is divided north and south by the Long Island Rail Road (LIRR) train tracks. Properties north of the LIRR are identified as the Inland Project Area (Tract I) and properties south of the LIRR are the Waterfront Project Area (Tract II). Each tract is further subdivided into parcels (Parcels A through K) based on property ownership. Therefore, each parcel may have more than one address based on property ownership. ExxonMobil currently has access agreements with Parcels A, B, C, D, E, F, G, H and I. A Site Plan illustrating pertinent site features including, but not limited to, block and lot, parcel identification, property boundaries, monitoring well locations, LIRR and current buildings and structure layouts is provided on Figure 2. A 2006 aerial photo illustrating pertinent site features is provided on Figure 3.

Public utilities servicing the Project Area include subsurface water, gas, electric and telecommunication lines. Sanitary waste is stored on each parcel in what appear to be septic tanks; however, the construction of the structures was not confirmed. The results of a survey of the property boundaries and pertinent site features of the Project Area are provided on Figure 2.

The monitoring well network at the Project Area consists of 79 monitoring points (MW-1 to MW-69) including cluster monitoring wells: MW-4S/MW-4D, MW-5S/MW-5, MW-6S/MW-6, MW-28/MW-28D, MW-40S/MW-40D, MW-41S/MW-41D, MW-48S/MW-48D, MW-49S/MW-49M/MW-49D, MW-60S/MW-60D and one replacement monitoring well MW-15R (MW-53 was a refusal). There are an additional 12 bulkhead monitoring points (BW-1 to BW-12) along the Parcel B bulkhead. In general, the groundwater monitoring well screens span the water table, with the exception of the following monitoring wells: MW-4D, MW-5, MW-6, MW-28D, MW-40D, MW-41D, MW-48D, MW-49M, MW-49D, and MW-60D.

Four LNAPL recovery interim remedial measure (IRM) systems are located at the following monitoring well locations: MW-5 (Parcel A), MW-9 (Parcel B), MW-14 (Parcel

D), and MW-24 (Parcel D). At each IRM system, LNAPL, to the extent present, is recovered from the subsurface via an electric-powered pump (Clean Earth Technology, Inc. Spill Buster™). The Spill Buster™ is an automated LNAPL recovery pumping system consisting of a motorized auto-seeker, reel assembly, electric-powered LNAPL recovery pump, and controller. The LNAPL recovery pump system is designed with an interface probe to automatically set the pump depth at the LNAPL interface and recover only LNAPL within the well, to the extent present. The motorized auto-seeker reel assembly mounted above the well is designed to adjust the pump intake depth as LNAPL, to the extent present, is recovered from the well. Recovered LNAPL is then pumped to a 250 gallon, double-wall, steel, above-ground storage tank (AST) within a surrounding 6-foot high, chain-link fence compound with privacy slats, a lockable gate and signs with emergency contact information.

LNAPL DISTRIBUTION

LNAPL has been detected in certain monitoring wells throughout the Project Area as summarized on Table 1. The monitoring wells which appear to contain the greatest apparent LNAPL thickness based on sampling events, and the range of LNAPL thickness measured between 2009 and 2013 are as follows:

- MW-5 (2.54 ft [4/18/13] to 13.01 ft [7/29/09]) and MW-42 (4.35 ft [4/18/13] to 15.00 ft [7/15/13]) on Parcel A;
- MW-48D (10.93 ft [1/8/13] to 13.12 ft [7/11/12]) and MW-49S (10.78 ft [1/8/13] to 12.30 ft [7/11/12]) on Parcel B;
- MW-65 (9.90 ft [7/15/13] to 10.35 ft [7/11/12]) on Parcel E; and
- MW-55 (5.53 ft [7/15/13] to 12.40 ft [7/11/12]) on Parcel I.

At times, LNAPL has been identified in multiple vertical horizons, including the capillary zone above the water table, below the water table, and below semi-confining stratigraphic layers, which appears to indicate that a combination of water table fluctuation and hydrostratigraphic conditions may control the vertical distribution of

LNAPL. The LNAPL has generally been detected throughout the Project Area, but has not been detected in the monitoring points farthest north (MW-20 and MW-59), east (MW-13, MW-10, MW-21 and MW-69), or west (MW-1 and MW-38). The apparent LNAPL thickness measured in monitoring wells is illustrated on Figure 4.

FLUID PROPERTIES ANALYSIS

Samples of LNAPL, if detected, and water are proposed to be collected from monitoring wells MW-2, MW-12R, MW-16, MW-18, MW-23, MW-28, MW-32, MW-33, MW-42, MW-48S, MW-48D, MW-49S, MW-49M, MW-49D, MW-50, MW-51, MW-54, MW-56, MW-57, MW-58, MW-61, MW-64, MW-66, MW-68, and MW-69. The samples will be submitted to PTS laboratories of Sante Fe Springs, California (PTS) for Fluid Properties Package analysis (ASTM D1481, ASTM D445, and ASTM D971). LNAPL and groundwater samples will be analyzed for dynamic viscosity and fluid density at three temperatures, specific gravity, surface tension for each fluid, and interfacial tension (three phase pairs; oil/water, oil/air, and water/air).

LNAPL TRANSMISSIVITY EVALUATION – BAILODOWN TESTING

LNAPL baildown testing is proposed to estimate values of LNAPL transmissivity. Testing is proposed on the following 33 wells: MW-2, MW-5, MW-6, MW-6S, MW-7, MW-9, MW-14, MW-16, MW-18, MW-19, MW-22, MW-23, MW-24, MW-28, MW-30, MW-33, MW-42, MW-45, MW-48S, MW-48D, MW-49S, MW-49M, MW-49D, MW-50, MW-54, MW-55, MW-56, MW-57, MW-58, MW-61, MW-64, MW-65, and MW-68. The wells were selected based on their spatial distribution across the Project Area and the historic apparent LNAPL thickness in the wells. The wells selected for testing are illustrated on Figure 5.

Prior to baildown testing, LNAPL recovery in the Project Area will be halted and pre-test monitoring of fluid levels will be conducted on wells selected for baildown testing. The four LNAPL IRM systems recovering LNAPL from MW-5, MW-9, MW-14 and MW-24 will

be deactivated approximately one week prior to the initiation of baildown testing. Manual LNAPL recovery will not be conducted from additional wells for approximately 30 days prior to the initiation of baildown testing. Pre-test monitoring of fluid levels will be conducted on each well selected for baildown testing for a period of at least two days to evaluate trends in baseline LNAPL thickness. For those test wells within 100 feet of Newtown Creek, data logging pressure transducers will be installed in the wells at least two days prior to the start of the baildown test on each particular well.

The wells will be tested by evacuating the LNAPL from the wells using a Clean Earth Technology, Spill Buddy™ pump or equivalent pump and then allowing the LNAPL and water level to stabilize. The volume of LNAPL, if present, and groundwater removed will be recorded for each well. The Spill Buddy™ pump was selected to minimize water withdrawal from the wells. LNAPL and water level recovery will be monitored using an electronic interface probe (EIP) or data-logging pressure transducers. The frequency of gauging is dependent upon recharge and may change with each test. In general, the gauging will be more frequent during the initial recovery period and decrease over time. LNAPL recovery monitoring will be terminated when 80 to 90% of the original LNAPL thickness in the well has recovered. Testing will be conducted in accordance with the relevant portions of *ASTM, Standard E2856-13; Standard Guide for Estimation of LNAPL Transmissivity* and American Petroleum Institute (API) Publication 46xx [pre-publication draft]; *User Guide for the API LNAPL Transmissivity Workbook: A Tool for Baildown Test Analysis*; September 2012. A minimum apparent LNAPL thickness of 0.5 feet is necessary to conduct baildown testing (ASTM, 2013). The list of wells selected for baildown testing may be modified if wells contain less than 0.5 feet of LNAPL, exhibit unstable baseline LNAPL thickness, or are inaccessible for testing.

In addition to the above baildown testing, Kleinfelder proposes a test to evaluate the efficacy of employing a dual pressure transducer technique to monitor LNAPL recovery during future baildown tests. The dual pressure transducer technique was used during the tidal studies conducted on the Project Area in 2010 and 2011 to monitor changes in both potentiometric surface elevation and LNAPL thickness. This technique include

placement of a Solinst Levellogger data logging pressure transducer at the bottom of the well beneath the LNAPL/water interface (static data logger). A second Solinst Levellogger data logging, pressure transducer affixed to a float (dynamic data logger), was placed in the well. The density of the float was customized such that it, and the pressure transducer, remained at a fixed location relative to the LNAPL/water interface. As the LNAPL/water interface changed, the float and pressure transducer moved concomitantly. Changing thickness of LNAPL above the pressure transducer was recorded by the pressure transducer affixed to the float. Furthermore, data collected by the dynamic pressure transducer was filtered from the static pressure transducer data to yield the elevation of the water/LNAPL interface. A schematic diagram of monitoring equipment is provided as Figure 6. The data obtained using this technique was compared to manual gauging data and found to agree with manual gaging data.

Kleinfelder proposes to use this dual pressure transducer technique during a second test on at least two monitoring wells. The technique will be used after a successful baildown test is conducted using manual gauging techniques. The data obtained from the dual pressure transducer technique will be compared to manual gauging to evaluate data consistency and determine if the technique may be viable for future baildown test monitoring.

LNAPL TRANSMISSIVITY ANALYSIS

The API LNAPL Transmissivity Workbook offers three different methods for analyzing LNAPL baildown test data under unconfined conditions. These methods include:

- Bouwer and Rice (1976);
- Cooper and Jacob (1946); and,
- Cooper, Bredehoeft and Papadopolous (1967).

If the collected baildown test data is viable, LNAPL transmissivity will be calculated using each of these methods with the API Transmissivity Workbook.

The interpretation and analyses of the relationship between LNAPL drawdown and discharge to the well from the formation (well recharge) will be used in an effort to determine if there are initial, non-equilibrium conditions between the formation and well fluids or if confined or perched groundwater conditions exist.

The J-ratio is the slope of the linear relationship between LNAPL drawdown and LNAPL well thickness. The magnitude of the J-ratio varies with the nature of LNAPL recharge to the well. Generally, after removal of LNAPL from the well, the air-LNAPL interface elevation increases; however, depending on test conditions, i.e. whether water was removed in conjunction with LNAPL prior to the test, the relative transmissivity of groundwater to LNAPL, etc., the elevation of the LNAPL-water interface can either increase or decrease. This is accounted for through the magnitude of the J-ratio. The relationship between LNAPL drawdown and well thickness for each well tested will be interpreted and analyzed.

SUPPLEMENTAL SOIL INVESTIGATION

A supplemental soil investigation is proposed in an effort to evaluate the vertical distribution of LNAPL saturation, capillary pressures, and hydrocarbon concentrations. These data may aid in furthering the LNAPL recoverability analyses. Four soil borings are proposed to be installed to approximately 40 fbg at the locations indicated on Figure 7. The details of the proposed investigation are discussed below. Equipment decontamination and air monitoring will be conducted during the supplemental soil investigation in accordance with Sections 6.3 and 6.4, respectively, of the *Supplemental Site Characterization Work Plan* dated January 11, 2012.

Subsurface Clearance

Prior to initiating investigation activities, the following subsurface clearance process is proposed:

- Public utilities will be contacted through the New York City One Call Center in accordance with Industrial Code 53;

- Private utility locating contractor will be contracted to locate and mark potential underground utilities or obstructions using geophysical methods including, but not limited to, ground-penetrating radar (GPR), electro magnetometer and utility locators. The locations of identified underground utilities will be spray painted on the ground surface using the American Public Works Association color code system. In addition, identified anomalies will be painted in pink;
- The locations of utilities, linear anomalies, underground structures and anomalies will be measured and recorded in the field on a Site map;
- The proposed drilling locations will be reviewed with property owner representatives; and
- Each drilling location will be hand-cleared or vacuum-excavated to a minimum depth of approximately 5 fbg and a maximum depth of 8 fbg.

Soil Borings

Four soil borings are proposed at the locations indicated on Figure 7. Proposed soil boring SB-2A is located on Parcel I, proposed soil borings SB-5A, SB-31 are located on Waterfront Parcel A, and proposed soil boring SB-32 is located on Parcel E. The locations of the proposed borings were selected based on accessibility with respect to infrastructure on the respective parcels and proximity to monitoring wells containing LNAPL. The proposed monitoring well locations may be relocated or omitted based on access agreement and/or physical access limitations.

Soil Sampling

Continuous soil samples will be collected from the soil borings using a direct push Geoprobe[®] rig and the Dual Tube Sampling System. The Dual Tube Sampling System uses two sets of probe rods to collect continuous soil cores. One set of rods is driven into the ground as an outer casing. These rods receive the driving force from the hammer and provide a sealed hole from which soil samples may be recovered. The

second, smaller set of rods is placed inside the outer casing. The smaller rods hold a sample liner in place as the outer casing is driven one sampling interval. The small rods are then retracted to retrieve the filled liner. In the event of refusal with the Geoprobe[®], a hollow-stem auger may be used to advance the borehole and continuous soil samples will be collected with 2-foot long split spoon samplers or a 5-foot long Macro-core[®] sampling device equipped with acetate liners.

Upon recovery, soil samples will be segregated into three parts: one containerized for potential laboratory analysis; one containerized for field screening using a PID; and one to be visually classified for soil type, grain size, texture, moisture content, odor and visible evidence of staining or LNAPL, if present, and logged in the field. The sample headspace will be field screened for the presence of VOCs using a PID equipped with a 10.6 electron volt (eV) lamp calibrated to an isobutylene span gas to yield total VOCs in ppm_v referenced to benzene. The PID screening values are for field-screening purposes only, and may not be indicative of actual concentrations in soil, which shall be determined by laboratory analysis.

A soil sample will be collected from the zone with the highest PID reading for laboratory analysis. In the absence of PID readings above 10 ppm_v, a soil sample will be collected from above the water table. Additional soil samples may be collected to vertically evaluate visible evidence of staining or LNAPL, if present. The soil samples will be placed in laboratory-supplied jars, subsequently placed in storage/transportation coolers, preserved with ice, and shipped following chain of custody procedures via overnight courier to the laboratory.

Soil Sample Laboratory Analysis

Soil samples will be submitted to Lancaster Laboratories of Lancaster, Pennsylvania (Lancaster), a NYSDOH approved laboratory (Environmental Laboratory Approval Program [ELAP] No. 10670) for laboratory analysis of the following:

- Target Compound List (TCL) VOCs in accordance with United States Environmental Protection Agency (USEPA) Method 8260B;
- TCL SVOCs in accordance with USEPA Method 8270C;
- Target Analyte List (TAL) metals in accordance with USEPA Methods 6010B and 7470A; and
- Total Petroleum Hydrocarbons (TPH) in accordance with USEPA Method 8015 for GC fingerprinting, Diesel Range Organics (DRO) and Gasoline Range Organics (GRO).

Analyses of these samples are to be conducted in accordance with USEPA SW-846 methods and submitted under NYSDEC Analytical Services Protocol (ASP) Category B data deliverables.

Soil Physical Properties Sampling and Analysis

Soil samples from each soil boring are proposed to be collected for physical properties analyses. Soil samples will be collected using the Geoprobe[®] rig and a 2-inch diameter macro-core[®] sampling device equipped with an acetate liner or 3-inch diameter split spoons equipped with brass sleeve liners. Up to four soil samples will be collected from the vertical zones of suspected LNAPL, if any. The samples will be collected at a depth where NAPL is visible in the soil samples. Following collection, the liner will be removed and labeled using a permanent marker to indicate sample depths. Each end of the liner will be capped and the samples will be placed on dry ice and frozen prior to being shipped via overnight courier to PTS for evaluation of residual saturation using oil/water drainage capillary pressure (ASTM D6836) and oil/water imbibition capillary pressure analyses. In addition, PTS will produce white light and ultraviolet light photos of the discrete undisturbed cores.

REPORT OF FINDINGS

A report of findings will be prepared to include the study methods, summary of data collected and analysis performed, and interpretation of the results of the fluid properties analysis and LNAPL transmissivity evaluation.

TENTATIVE SCHEDULE

Field activities will commence within 45 days, following receipt of written NYSDEC approval of this Work Plan. The LNAPL transmissivity evaluation is expected to take up to approximately ten weeks for data collection and evaluation and supplemental soil investigation field activities are expected to take approximately two weeks. The report of findings will be submitted to the NYSDEC within 120 days following completion of the field activities associated with this Work Plan.

Please forward written NYSDEC comments and/or approval of this Work Plan to Kleinfelder at your earliest convenience. If you have questions or require additional information, please contact the undersigned at (631) 218-0612.

Very truly yours,
Kleinfelder East, Inc.



John E. Wolf
Senior Project Manager



Daniel T. Canavan
Sr. Project Hydrogeologist

Attachments

Copy: File (16)

“Kleinfelder performed the services for this project under the Enabling Agreement with Procurement, a division of ExxonMobil Global Services Company (signed on November 28, 2012). Kleinfelder states that the services performed are consistent with professional standard of care defined as that level of services provided by similar professionals under like circumstances. This report is based on the regulatory standards in effect on the date of the report. It has been produced for the primary benefit of Exxon Mobil Global Services Company and its affiliates.”

REFERENCES

American Petroleum Institute (API) Publication 46xx [pre-publication draft]; *User Guide for the API LNAPL Transmissivity Workbook: A Tool for Baildown Test Analysis*; September 2012.

American Society for Testing and Materials (ASTM), *Standard E2856-13; Standard Guide for Estimation of LNAPL transmissivity*.

TABLE

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-1 (6-18)	4/7/2009	13.49	ND	9.51	ND	NA	3.98	
	4/17/2009	13.49	ND	9.43	ND	NA	4.06	
	7/29/2009	13.49	ND	8.56	ND	NA	4.93	
	10/26/2009	13.49	ND	8.08	ND	NA	5.41	
	1/22/2010	13.49	ND	8.36	ND	NA	5.13	
	4/21/2010	13.49	ND	8.30	ND	NA	5.19	
	7/19/2010	13.49	ND	8.11	ND	NA	5.38	
	10/15/2010	13.49	ND	7.69	ND	NA	5.80	
	1/11/2011	13.49	ND	10.74	ND	NA	2.75	
	4/25/2011	13.49	ND	9.81	ND	NA	3.68	
	7/22/2011	13.49	ND	10.55	ND	NA	2.94	
	10/18/2011	13.49	ND	10.03	ND	NA	3.46	
	1/16/2012	13.49	ND	10.42	ND	NA	3.07	
	4/12/2012	13.49	ND	11.11	ND	NA	2.38	
	7/11/2012	13.49	ND	10.26	ND	NA	3.23	
	10/23/2012	13.49	ND	10.60	ND	NA	2.89	
	1/18/2013	13.49	ND	10.86	ND	NA	2.63	
MW-2 (2-17)	4/7/2009	6.56	ND	5.45	ND	NA	1.11	
	4/17/2009	6.56	7.72	7.81	0.09	0.9050**	-1.17	
	7/29/2009	6.56	7.78	8.88	1.10	0.9050**	-1.32	
	10/26/2009	6.56	6.72	8.09	1.37	0.9050**	-0.29	
	1/22/2010	6.56	8.19	9.93	1.74	0.9050**	-1.80	
	4/21/2010	6.56	7.54	8.04	0.50	0.9050**	-1.03	
	7/19/2010	6.56	7.49	7.73	0.24	0.9050**	-0.95	
	10/15/2010	6.56	7.13	7.57	0.44	0.9050**	-0.61	
	1/11/2011	6.56	6.86	7.18	0.32	0.9050**	-0.33	
	4/25/2011	6.56	7.90	8.10	0.20	0.9050**	-1.36	
	7/22/2011	6.56	7.84	7.99	0.15	0.9050**	-1.29	
	10/18/2011	6.56	7.05	7.19	0.14	0.9050**	-0.50	
	1/16/2012	6.56	7.88	8.00	0.12	0.9050**	-1.33	
	4/12/2012	6.56	7.80	7.87	0.07	0.9050**	-1.25	
	7/11/2012	6.56	7.75	8.05	0.30	0.9050**	-1.22	
	10/23/2012	6.56	6.55	6.69	0.14	0.9050**	0.00	
	1/18/2013	6.56	7.70	7.80	0.10	0.9050**	-1.15	
MW-3 (3-18)	4/7/2009	7.95	NM	NM	NM	NA	NM	
	4/17/2009	7.95	NM	NM	NM	NA	NM	
	7/29/2009	7.95	NM	NM	NM	NA	NM	
	10/26/2009	7.95	8.15	9.70	1.55	0.9575*	-0.27	
	1/22/2010	7.95	8.20	8.22	0.02	0.9575*	-0.25	
	4/21/2010	7.95	8.95	9.05	0.10	0.9575*	-1.00	
	7/19/2010	7.95	8.80	9.55	0.75	0.9575*	-0.88	
	10/15/2010	7.95	7.55	11.04	3.49	0.9575*	0.25	
	1/11/2011	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	4/25/2011	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	7/22/2011	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	10/18/2011	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	1/16/2012	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	4/12/2012	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	7/11/2012	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	10/23/2012	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	1/18/2013	7.95	NM	NM	NM	NA	NM	LNAPL to viscous
	4/18/2013	7.95	NM	NM	NM	NA	NM	Unable to open
	7/15/2013	7.95	5.60	8.75	3.15	0.9575*	2.22	

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-4 (5-22)	4/7/2009	8.87	6.59	9.65	3.06	0.8824*	1.92	
	4/17/2009	8.87	6.52	11.55	5.03	0.8824*	1.76	
	7/29/2009	8.87	6.00	10.95	4.95	0.8824*	2.29	Well abandoned
MW-4S (4-9)	10/26/2009	8.81	6.31	7.20	0.89	0.8945	2.41	
	1/22/2010	8.81	6.50	7.27	0.77	0.8945	2.23	
	4/21/2010	8.81	5.81	6.43	0.62	0.8945	2.93	
	7/19/2010	8.81	6.34	7.22	0.88	0.8945	2.38	
	10/15/2010	8.81	6.34	7.42	1.08	0.8945	2.36	
	1/11/2011	8.81	7.41	8.15	0.74	0.8945	1.32	
	4/25/2011	8.81	6.50	7.27	0.77	0.8945	2.23	
	7/22/2011	8.81	6.39	7.05	0.66	0.8945	2.35	
	10/18/2011	8.81	5.92	6.40	0.48	0.8945	2.84	
	1/16/2012	8.81	7.18	7.90	0.72	0.8945	1.55	
	4/12/2012	8.81	7.30	7.95	0.65	0.8945	1.44	
	7/11/2012	8.81	6.72	7.40	0.68	0.8945	2.02	
	10/23/2012	8.81	7.12	7.75	0.63	0.8945	1.62	
	1/18/2013	8.81	7.00	7.42	0.42	0.8945	1.77	
	4/18/2013	8.81	7.18	7.70	0.52	0.8945	1.58	
	7/15/2013	8.81	6.92	7.60	0.68	0.8945	1.82	
MW-4D (13.5-18.5)	10/26/2009	8.57	ND	6.95	ND	NA	1.62	
	1/22/2010	8.57	ND	7.72	ND	NA	0.85	
	4/21/2010	8.57	ND	6.71	ND	NA	1.86	
	7/19/2010	8.57	ND	7.09	ND	NA	1.48	
	10/15/2010	8.57	ND	6.41	ND	NA	2.16	
	1/11/2011	8.57	ND	8.42	ND	NA	0.15	
	4/25/2011	8.57	ND	7.51	ND	NA	1.06	
	7/22/2011	8.57	ND	7.68	ND	NA	0.89	
	10/18/2011	8.57	ND	6.50	ND	NA	2.07	
	1/16/2012	8.57	ND	7.85	ND	NA	0.72	
	4/12/2012	8.57	ND	8.46	ND	NA	0.11	
	7/11/2012	8.57	ND	7.66	ND	NA	0.91	
	10/23/2012	8.57	ND	7.70	ND	NA	0.87	
	1/18/2013	8.57	ND	8.43	ND	NA	0.14	
	4/18/2013	8.57	ND	8.36	ND	NA	0.21	
	7/15/2013	8.57	ND	7.88	ND	NA	0.69	
MW-5S (3-13)	7/11/2012	8.44	ND	5.90	ND	NA	2.54	
	10/23/2012	8.44	ND	6.69	ND	NA	1.75	
	1/18/2013	8.44	ND	6.61	ND	NA	1.83	
	4/18/2013	8.44	ND	6.88	ND	NA	1.56	
	7/15/2013	8.44	6.00	6.01	0.01	0.9050**	2.44	
MW-5 (13-21)	4/7/2009	9.62	7.14	18.82	11.68	0.8997	1.31	
	4/17/2009	9.62	7.32	18.66	11.34	0.8997	1.16	
	7/29/2009	9.62	6.99	20.00	13.01	0.8997	1.33	
	10/26/2009	9.62	7.69	18.05	10.36	0.8997	0.89	
	1/22/2010	9.62	NM	NM	NM	0.8997	NM	Passive Bailer
	4/21/2010	9.62	7.11	19.60	12.49	0.8997	1.26	
	7/19/2010	9.62	6.94	19.60	12.66	0.8997	1.41	
	10/15/2010	9.62	7.30	20.02	12.72	0.8997	1.04	
	1/11/2011	9.62	9.47	19.48	10.01	0.8997	-0.85	
	4/25/2011	9.62	8.69	20.11	11.42	0.8997	-0.22	
	7/22/2011	9.62	8.09	19.11	11.02	0.8997	0.42	
	10/18/2011	9.62	6.95	18.72	11.77	0.8997	1.49	
	1/16/2012	9.62	8.23	18.90	10.67	0.8997	0.32	
	4/12/2012	9.62	8.70	19.60	10.90	0.8997	-0.17	
	7/11/2012	9.62	8.30	19.35	11.05	0.8997	0.21	
	10/23/2012	9.62	11.00	22.10	11.10	0.8997	-2.49	
	1/18/2013	9.62	10.60	21.80	11.20	0.8997	-2.10	
	4/18/2013	9.62	11.70	14.24	2.54	0.8997	-2.33	System Operating
	7/15/2013	9.62	NM	NM	NM	0.8997	NM	System Operating

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GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

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MW-6S (4-14)	7/11/2012	12.15	9.20	9.68	0.48	0.9050**	2.90	
	10/23/2012	12.15	9.09	9.65	0.56	0.9050**	3.01	
	1/18/2013	12.15	9.80	10.40	0.60	0.9050**	2.29	
	4/18/2013	12.15	9.75	10.80	1.05	0.9050**	2.30	
	7/15/2013	12.15	9.40	10.12	0.72	0.9050**	2.68	
MW-6 (18-23)	4/7/2009	11.80	9.09	12.18	3.09	0.8947*	2.38	
	4/17/2009	11.80	9.35	12.55	3.20	0.8947*	2.11	
	7/29/2009	11.80	8.79	12.82	4.03	0.8947*	2.59	
	10/26/2009	11.80	9.08	15.55	6.47	0.8947*	2.04	
	1/22/2010	11.80	9.22	18.00	8.78	0.8947*	1.66	
	4/21/2010	11.80	8.62	9.25	0.63	0.8947*	3.11	
	7/19/2010	11.80	8.73	10.34	1.61	0.8947*	2.90	
	10/15/2010	11.80	ND	9.29	ND	0.8947*	2.51	
	1/11/2011	11.80	11.2	11.63	0.43	0.8947*	0.55	
	4/25/2011	11.80	10.28	11.00	0.72	0.8947*	1.44	
	7/22/2011	11.80	9.91	11.05	1.14	0.8947*	1.77	
	10/18/2011	11.80	8.4	8.85	0.45	0.8947*	3.35	
	1/16/2012	11.80	9.85	10.50	0.65	0.8947*	1.88	
	4/12/2012	11.80	10.21	10.65	0.44	0.8947*	1.54	
	7/11/2012	11.80	10.10	11.09	0.99	0.8947*	1.60	
	10/23/2012	11.80	10.48	10.75	0.27	0.8947*	1.29	
	1/18/2013	11.80	11.08	11.80	0.72	0.8947*	0.64	
	4/18/2013	11.80	10.94	11.83	0.89	0.8947*	0.77	
	7/15/2013	11.80	10.58	10.68	0.10	0.8947*	1.21	
MW-7 (1-15)	4/7/2009	6.54	4.82	5.18	0.36	0.9130*	1.69	
	4/17/2009	6.54	7.74	8.42	0.68	0.9130*	-1.26	
	7/29/2009	6.54	7.80	9.30	1.50	0.9130*	-1.39	
	10/26/2009	6.54	7.07	7.70	0.63	0.9130*	-0.58	
	1/22/2010	6.54	6.04	7.62	1.58	0.9130*	0.36	
	4/21/2010	6.54	8.05	8.10	0.05	0.9130*	-1.51	
	7/19/2010	6.54	8.00	9.66	1.66	0.9130*	-1.60	
	10/15/2010	6.54	6.34	7.59	1.25	0.9130*	0.09	
	1/11/2011	6.54	7.59	8.71	1.12	0.9130*	-1.15	
	4/25/2011	6.54	5.16	5.21	0.05	0.9130*	1.38	
	7/22/2011	6.54	7.95	8.97	1.02	0.9130*	-1.50	
	10/18/2011	6.54	7.22	8.42	1.20	0.9130*	-0.78	
	1/16/2012	6.54	7.85	8.00	0.15	0.9130*	-1.32	
	4/12/2012	6.54	8.15	8.30	0.15	0.9130*	-1.62	
	7/11/2012	6.54	7.90	9.00	1.10	0.9130*	-1.46	
	10/23/2012	6.54	7.99	8.10	0.11	0.9130*	-1.46	
	1/18/2013	6.54	7.80	7.92	0.12	0.9130*	-1.27	
	4/18/2013	6.54	8.10	8.23	0.13	0.9130*	-1.57	
	7/15/2013	6.54	7.95	8.60	0.65	0.9130*	-1.47	

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GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

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MW-8 (1-13)	4/7/2009	5.80	ND	4.09	ND	NA	1.71	
	4/17/2009	5.80	ND	7.54	ND	NA	-1.74	
	7/29/2009	5.80	ND	7.50	ND	NA	-1.70	
	10/26/2009	5.80	ND	6.83	ND	NA	-1.03	
	1/22/2010	5.80	ND	6.59	ND	NA	-0.79	
	4/21/2010	5.80	ND	7.66	ND	NA	-1.86	
	7/19/2010	5.80	ND	7.42	ND	NA	-1.62	
	10/15/2010	5.80	ND	6.87	ND	NA	-1.07	
	1/11/2011	5.80	ND	6.19	ND	NA	-0.39	
	4/25/2011	5.80	ND	7.77	ND	NA	-1.97	
	7/22/2011	5.80	ND	7.79	ND	NA	-1.99	
	10/18/2011	5.80	ND	6.59	ND	NA	-0.79	
	1/16/2012	5.80	ND	7.20	ND	NA	-1.40	
	4/12/2012	5.80	ND	8.42	ND	NA	-2.62	
	7/11/2012	5.80	ND	7.94	ND	NA	-2.14	
	10/23/2012	5.80	ND	7.69	ND	NA	-1.89	
	1/18/2013	5.80	ND	6.81	ND	NA	-1.01	
	4/18/2013	5.80	ND	7.92	ND	NA	-2.12	
	7/15/2013	5.80	ND	7.60	ND	NA	-1.80	
MW-9 (3-18)	4/7/2009	9.76	8.40	17.70	9.30	0.8984*	0.42	
	4/17/2009	9.76	8.28	17.51	9.23	0.8984*	0.54	
	7/29/2009	9.76	8.35	17.90	9.55	0.8984*	0.44	
	10/26/2009	9.76	8.84	17.90	9.06	0.8984*	0.00	
	1/22/2010	9.76	9.85	18.20	8.35	0.8984*	-0.94	
	4/21/2010	9.76	8.86	14.99	6.13	0.8984*	0.28	
	7/19/2010	9.76	8.50	17.99	9.49	0.8984*	0.30	
	10/15/2010	9.76	8.60	13.83	5.23	0.8984*	0.63	
	1/11/2011	9.76	10.52	18.16	7.64	0.8984*	-1.54	
	4/25/2011	9.76	9.94	17.85	7.91	0.8984*	-0.98	
	7/22/2011	9.76	9.46	17.80	8.34	0.8984*	-0.55	
	10/18/2011	9.76	8.71	16.85	8.14	0.8984*	0.22	
	1/16/2012	11.37	11.40	19.45	8.05	0.8984*	-0.85	
	4/12/2012	11.37	11.95	19.30	7.35	0.8984*	-1.33	
	7/11/2012	11.37	11.35	19.20	7.85	0.8984*	-0.78	
	10/23/2012	11.37	11.65	19.50	7.85	0.8984*	-1.08	
	1/18/2013	11.37	NM	NM	NM	0.8984*	NM	System Operating
	4/18/2013	11.37	13.80	16.30	2.50	0.8984*	-2.68	System Operating
	7/15/2013	11.37	NM	NM	NM	0.8984*	NM	System Operating
MW-10 (3-13)	4/7/2009	10.56	ND	8.74	ND	NA	1.82	
	4/17/2009	10.56	ND	8.64	ND	NA	1.92	
	7/29/2009	10.56	ND	8.10	ND	NA	2.46	
	10/26/2009	10.56	ND	8.20	ND	NA	2.36	
	1/22/2010	10.56	ND	8.63	ND	NA	1.93	
	4/21/2010	10.56	ND	8.28	ND	NA	2.28	
	7/19/2010	10.56	ND	8.47	ND	NA	2.09	
	10/15/2010	10.56	ND	8.25	ND	NA	2.31	
	1/11/2011	10.56	ND	8.68	ND	NA	1.88	
	4/25/2011	10.56	ND	8.27	ND	NA	2.29	
	7/22/2011	10.56	ND	8.68	ND	NA	1.88	
	10/18/2011	10.56	ND	8.21	ND	NA	2.35	
	1/16/2012	10.56	ND	8.39	ND	NA	2.17	
	4/12/2012	10.56	ND	8.54	ND	NA	2.02	
	7/11/2012	10.56	ND	8.40	ND	NA	2.16	
	10/23/2012	10.56	ND	8.50	ND	NA	2.06	
	1/18/2013	10.56	ND	8.55	ND	NA	2.01	
	4/18/2013	10.56	8.82	8.83	0.01	NA	1.74	
	7/15/2013	10.56	ND	8.76	ND	NA	1.80	

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Long Island City, New York

January 9, 2009 through July 15, 2013

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MW-11 (2-17)	4/7/2009	6.98	ND	5.73	ND	NA	1.25	
	4/17/2009	6.98	ND	8.72	ND	NA	-1.74	
	7/29/2009	6.98	ND	7.98	ND	NA	-1.00	
	10/26/2009	6.98	ND	8.15	ND	NA	-1.17	
	1/21/2010	6.98	ND	5.33	ND	NA	1.65	
	4/21/2010	6.98	ND	NM	NM	NA	NM	Well destroyed
MW-11R (2-17)	4/25/2011	6.70	ND	8.44	ND	NA	-1.74	
	7/22/2011	6.70	ND	8.46	ND	NA	-1.76	
	10/18/2011	6.70	ND	7.32	ND	NA	-0.62	
	1/16/2012	6.70	ND	8.58	ND	NA	-1.88	
	4/12/2012	6.70	ND	8.76	ND	NA	-2.06	
	7/11/2012	6.70	ND	8.19	ND	NA	-1.49	
	10/23/2012	6.70	ND	8.08	ND	NA	-1.38	
	1/18/2013	6.70	ND	7.25	ND	NA	-0.55	
	4/18/2013	6.70	ND	8.40	ND	NA	-1.70	
MW-12 (2-16)	4/7/2009	6.67	ND	8.26	ND	NA	-1.59	
	4/17/2009	6.67	8.40	8.41	0.01	0.9050**	-1.73	
	7/29/2009	6.67	NM	NM	ND	NA	NM	
	10/26/2009	6.67	7.81	7.95	0.14	0.9050**	-1.15	
	4/21/2010	6.67	ND	7.96	ND	NA	-1.29	Sheen observed
	7/19/2010	6.67	NM	ND	ND	NA	NM	Well destroyed
MW-12R (2-17)	4/25/2011	6.69	ND	8.49	ND	NA	-1.80	
	7/22/2011	6.69	8.45	8.46	0.01	0.9050**	-1.76	
	10/18/2011	6.69	7.02	7.03	0.01	0.9050**	-0.33	
	1/16/2012	6.69	8.45	8.46	0.01	0.9050**	-1.76	
	4/12/2012	6.69	8.80	8.82	0.02	0.9050**	-2.11	
	7/11/2012	6.69	8.36	8.37	0.01	0.9050**	-1.67	
	10/23/2012	6.69	9.00	9.02	0.02	0.9050**	-2.31	
	1/18/2013	6.69	ND	7.70	ND	0.9050**	-1.01	
	4/18/2013	6.69	8.28	8.30	0.02	0.9050**	-1.59	
MW-13 (1-8)	7/15/2013	6.69	8.36	8.37	0.01	0.9050**	-1.67	
	4/7/2009	7.82	ND	NM	NM	NA	NM	
	4/17/2009	7.82	ND	3.64	ND	NA	4.18	
	7/29/2009	7.82	ND	3.51	ND	NA	4.31	
	10/26/2009	7.82	ND	3.59	ND	NA	4.23	
	4/21/2010	7.82	ND	3.70	ND	NA	4.12	
	7/19/2010	7.82	ND	NM	ND	NA	NM	Well inaccessible
	10/15/2010	7.82	ND	3.89	ND	NA	3.93	
	1/11/2011	7.82	ND	4.16	ND	NA	3.66	
	4/25/2011	7.82	ND	4.31	ND	NA	3.51	
	7/22/2011	7.82	ND	4.40	ND	NA	3.42	
	10/18/2011	7.82	ND	3.55	ND	NA	4.27	
	1/16/2012	7.82	ND	3.95	ND	NA	3.87	
	4/12/2012	7.82	ND	4.18	ND	NA	3.64	
	7/11/2012	7.82	ND	3.92	ND	NA	3.90	
	10/23/2012	7.82	ND	3.70	ND	NA	4.12	
	1/18/2013	7.82	ND	3.40	ND	NA	4.42	
	4/18/2013	7.82	ND	3.48	ND	NA	4.34	
	7/15/2013	7.82	ND	3.24	ND	NA	4.58	

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MW-14 (7.5-27.5)	7/29/2009	22.92	20.65	26.80	6.15	0.8956*	1.63	
	10/26/2009	22.92	21.31	26.50	5.19	0.8956*	1.07	
	4/21/2010	22.92	20.67	23.33	2.66	0.8956*	1.97	
	7/19/2010	22.92	20.91	26.81	5.90	0.8956*	1.39	
	10/15/2010	22.92	21.12	26.59	5.47	0.8956*	1.23	
	1/11/2011	22.92	22.81	26.53	3.72	0.8956*	-0.28	
	4/25/2011	22.92	22.01	25.10	3.09	0.8956*	0.59	
	7/22/2011	22.92	21.92	24.63	2.71	0.8956*	0.72	
	10/18/2011	22.92	20.65	25.45	4.80	0.8956*	1.77	
	1/16/2012	21.81	18.60	25.05	6.45	0.8956*	2.54	
	4/12/2012	21.81	21.40	22.18	0.78	0.8956*	0.33	
	7/11/2012	21.81	21.22	22.05	0.83	0.8956*	0.50	
	10/23/2012	21.81	ND	NM	NM	NA	NM	Well inaccessible
	1/18/2013	21.81	22.20	22.40	0.20	0.8956*	-0.41	System Operating
MW-15 (5.5-20.5)	4/18/2013	21.81	17.30	18.10	0.80	0.8956*	4.43	
	7/15/2013	22.92	21.42	22.32	0.90	0.8956*	1.41	
	7/29/2009	13.05	ND	10.59	ND	NA	2.46	
	10/26/2009	13.05	ND	11.32	ND	NA	1.73	
	4/21/2010	13.05	ND	10.79	ND	NA	2.26	
	7/19/2010	13.05	ND	11.02	ND	NA	2.03	
	10/15/2010	13.05	ND	10.89	ND	NA	2.16	
	1/11/2011	13.05	ND	12.48	ND	NA	0.57	
	4/25/2011	13.05	ND	11.50	ND	NA	1.55	
	7/22/2011	13.05	ND	11.62	ND	NA	1.43	
	10/18/2011	13.05	ND	11.16	ND	NA	1.89	
	1/16/2012	13.05	ND	13.58	ND	NA	-0.53	
	4/12/2012	13.05	ND	12.49	ND	NA	0.56	
	4/18/2013	13.05	ND	12.56	ND	NA	0.49	
MW-15R (5-20)	7/15/2013	13.05	ND	11.90	ND	NA	1.15	
	7/11/2012	13.30	ND	11.73	ND	NA	1.57	
	10/23/2012	13.05	ND	12.00	ND	NA	1.05	
	1/18/2013	13.30	ND	12.58	ND	NA	0.72	
	4/18/2013	13.30	ND	12.75	ND	NA	0.55	
MW-16 (10.5-30.5)	7/15/2013	13.30	NM	NM	NM	NM	NM	Well Inaccessible
	7/29/2009	24.12	20.91	21.00	0.09	0.9050**	3.20	
	10/26/2009	24.12	21.25	21.27	0.02	0.9050**	2.87	
	4/21/2010	24.12	20.06	20.07	0.01	0.9050**	4.06	
	7/19/2010	24.12	ND	20.70	ND	0.9050**	3.42	
	10/15/2010	24.12	ND	20.98	ND	0.9050**	3.14	
	1/11/2011	24.12	21.95	22.42	0.47	0.9050**	2.13	
	4/25/2011	24.12	21.46	22.65	1.19	0.9050**	2.55	
	7/22/2011	24.12	21.25	21.49	0.24	0.9050**	2.85	
	10/18/2011	24.12	20.15	20.14	-0.01	0.9050**	3.97	
	1/16/2012	24.12	21.05	21.07	0.02	0.9050**	3.07	
	4/12/2012	24.12	21.36	21.37	0.01	0.9050**	2.76	
	7/11/2012	24.12	21.22	21.80	0.58	0.9050**	2.84	
	10/23/2012	24.12	21.50	22.51	1.01	0.9050**	2.52	
	1/18/2013	24.12	22.03	23.10	1.07	0.9050**	1.99	
	4/18/2013	24.12	21.90	23.10	1.20	0.9050**	2.11	
	7/15/2013	24.12	21.52	22.65	1.13	0.9050**	2.49	

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-17 (8.5-25.5)	7/29/2009	16.81	14.76	22.20	7.44	0.8949*	1.27	
	10/26/2009	16.81	15.44	23.0	7.56	0.8949*	0.58	
	4/21/2010	16.81	15.53	17.22	1.69	0.8949*	1.10	
	7/19/2010	16.81	15.03	20.91	5.88	0.8949*	1.16	
	10/15/2010	16.81	15.24	19.39	4.15	0.8949*	1.13	
	1/11/2011	16.81	16.85	20.97	4.12	0.8949*	-0.47	
	4/25/2011	16.81	16.94	17.83	0.89	0.8949*	-0.22	
	7/22/2011	16.81	16.19	18.81	2.62	0.8949*	0.34	
	10/18/2011	16.81	15.29	22.1	6.81	0.8949*	0.80	
	1/16/2012	16.81	16.00	20.37	4.37	0.8949*	0.35	
	4/12/2012	16.81	16.35	22.50	6.15	0.8949*	-0.19	
	7/11/2012	16.81	15.21	22.50	7.29	0.8949*	0.83	
	10/23/2012	16.81	16.20	23.40	7.20	0.8949*	-0.15	
	1/18/2013	16.81	16.85	21.50	4.65	0.8949*	-0.53	
	4/18/2013	16.81	16.94	21.00	4.06	0.8949*	-0.56	
	7/15/2013	16.81	16.55	21.20	4.65	0.8949*	-0.23	
MW-18 (17.5-37.5)	9/24/2009	23.55	ND	20.92	ND	NA	2.63	
	10/26/2009	23.55	ND	21.32	ND	NA	2.23	
	4/21/2010	23.55	ND	19.97	ND	NA	3.58	
	7/19/2010	23.55	20.62	20.67	0.05	0.9050**	2.93	
	10/15/2010	23.55	20.50	20.51	0.01	0.9050**	3.05	
	1/11/2011	23.55	NM	NM	NM	0.9050**	NM	Well inaccessible
	4/25/2011	23.55	21.22	22.00	0.78	0.9050**	2.26	
	7/22/2011	23.55	20.95	21.00	0.05	0.9050**	2.60	
	10/18/2011	23.55	20.19	20.49	0.30	0.9050**	3.33	
	1/16/2012	23.55	15.00	NM	NM	0.9050**	NM	LNAPL too viscous
	4/12/2012	23.55	21.20	22.11	0.91	0.9050**	2.26	
	7/11/2012	23.55	21.00	22.71	1.71	0.9050**	2.39	
	10/23/2012	23.55	21.35	22.97	1.62	0.9050**	2.05	
	1/18/2013	23.55	NM	NM	NM	0.9050**	NM	Well inaccessible
	4/18/2013	23.55	NM	NM	NM	0.9050**	NM	Under vehicle
	7/15/2013	23.55	20.97	24.30	3.33	0.9050**	2.26	
MW-19 (11.5-31.5)	9/24/2009	24.85	21.95	22.55	0.60	0.8988*	2.84	
	10/26/2009	24.85	22.00	23.05	1.05	0.8988*	2.74	
	4/21/2010	24.85	20.86	21.55	0.69	0.8988*	3.92	
	7/19/2010	24.85	21.42	22.01	0.59	0.8988*	3.37	
	10/15/2010	24.85	21.70	22.58	0.88	0.8988*	3.06	
	1/11/2011	24.85	22.86	24.35	1.49	0.8988*	1.84	
	4/25/2011	24.85	NM	NM	NM	0.8988*	NM	Well inaccessible
	7/22/2011	24.85	NM	NM	NM	0.8988*	NM	Well inaccessible
	10/18/2011	24.85	20.95	21.60	0.65	0.8988*	3.83	
	1/16/2012	24.85	NM	NM	NM	0.8988*	NM	Well inaccessible
	4/12/2012	24.85	NM	NM	NM	0.8988*	NM	Well inaccessible
	7/11/2012	24.85	NM	NM	NM	0.8988*	NM	Well inaccessible
	10/23/2012	24.85	NM	NM	NM	0.8988*	NM	Well inaccessible
	1/18/2013	24.85	NM	NM	NM	0.8988*	NM	Well inaccessible
	4/18/2013	24.85	NM	NM	NM	0.8988*	NM	Under vehicle
	4/18/2013	24.85	NM	NM	NM	0.8988*	NM	Under vehicle
	7/15/2013	24.85	NM	NM	NM	0.8988*	NM	Under vehicle

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-20 (9.5-29.5)	7/29/2009	28.63	ND	21.03	ND	NA	7.60	
	10/26/2009	28.63	ND	21.61	ND	NA	7.02	
	4/21/2010	28.63	ND	18.07	ND	NA	10.56	
	7/19/2010	28.63	ND	16.53	ND	NA	12.10	
	10/15/2010	28.63	ND	22.01	ND	NA	6.62	
	1/11/2011	28.63	ND	23.15	ND	NA	5.48	
	4/25/2011	28.63	ND	23.55	ND	NA	5.08	
	7/22/2011	28.63	ND	23.00	ND	NA	5.63	
	10/18/2011	28.63	ND	20.89	ND	NA	7.74	
	1/16/2012	28.63	ND	22.41	ND	NA	6.22	
	4/12/2012	28.63	ND	23.30	ND	NA	5.33	
	7/11/2012	28.63	ND	24.02	ND	NA	4.61	
	10/23/2012	28.63	ND	24.56	ND	NA	4.07	
	1/18/2013	28.63	ND	25.25	ND	NA	3.38	
	4/18/2013	28.63	ND	24.52	ND	NA	4.11	
	7/15/2013	28.63	ND	23.65	ND	NA	4.98	
MW-21 (10.5-25.5)	7/29/2009	16.63	ND	14.37	ND	NA	2.26	
	10/26/2009	16.63	ND	14.10	ND	NA	2.53	
	4/21/2010	16.63	ND	13.79	ND	NA	2.84	
	7/19/2010	16.63	ND	14.19	ND	NA	2.44	
	10/15/2010	16.63	ND	14.33	ND	NA	2.30	
	1/11/2011	16.63	ND	15.04	ND	NA	1.59	
	4/25/2011	16.63	ND	14.84	ND	NA	1.79	
	7/22/2011	16.63	ND	18.61	ND	NA	-1.98	
	10/18/2011	16.63	ND	13.60	ND	NA	3.03	
	1/16/2012	16.63	ND	14.58	ND	NA	2.05	
	4/12/2012	16.63	ND	14.62	ND	NA	2.01	
	7/11/2012	16.63	ND	14.65	ND	NA	1.98	
	10/23/2012	16.63	ND	14.85	ND	NA	1.78	
	1/18/2013	16.63	ND	15.07	ND	NA	1.56	
	4/18/2013	16.63	ND	15.14	ND	NA	1.49	
	7/15/2013	16.63	ND	14.67	ND	NA	1.96	
MW-22 (14.5-34.5)	7/29/2009	29.36	25.79	27.20	1.41	0.8946*	3.42	
	10/26/2009	29.36	26.15	28.40	2.25	0.8946*	2.97	
	4/21/2010	29.36	NM	NM	NM	0.8946*	NM	Well inaccessible
	7/19/2010	29.36	25.47	26.97	1.50	0.8946*	3.73	
	10/15/2010	29.36	25.87	27.41	1.54	0.8946*	3.33	
	1/11/2011	29.36	26.93	29.70	2.77	0.8946*	2.14	
	4/25/2011	29.36	26.49	28.04	1.55	0.8946*	2.71	
	7/22/2011	29.36	26.12	27.52	1.40	0.8946*	3.09	
	10/18/2011	29.36	24.89	25.91	1.02	0.8946*	4.36	
	1/16/2012	29.36	25.91	27.53	1.62	0.8946*	3.28	
	4/12/2012	29.36	26.20	28.05	1.85	0.8946*	2.97	
	7/11/2012	29.36	26.35	28.95	2.60	0.8946*	2.74	
	10/23/2012	29.36	26.51	28.93	2.42	0.8946*	2.59	
	1/18/2013	29.36	27.40	29.50	2.10	0.8946*	1.74	
	4/18/2013	29.36	27.00	28.80	1.80	0.8946*	2.17	
	7/15/2013	29.36	26.50	28.00	1.50	0.8946*	2.70	

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GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

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MW-23 (10.5-24.5)	7/29/2009	19.05	17.09	23.85	6.76	0.8951*	1.25	
	10/26/2009	19.05	17.76	23.82	6.06	0.8951*	0.65	
	4/21/2010	19.05	17.57	22.36	4.79	0.8951*	0.98	
	7/19/2010	19.05	17.40	23.81	6.41	0.8951*	0.98	
	10/15/2010	19.05	17.58	23.13	5.55	0.8951*	0.89	
	1/11/2011	19.05	19.26	23.93	4.67	0.8951*	-0.70	
	4/25/2011	19.05	18.86	23.70	4.84	0.8951*	-0.32	
	7/22/2011	19.05	18.36	23.54	5.18	0.8951*	0.15	
	10/18/2011	19.05	17.59	23.56	5.97	0.8951*	0.83	
	1/16/2012	19.05	19.03	22.13	3.10	0.8951*	-0.31	
	4/12/2012	19.05	18.82	23.40	4.58	0.8951*	-0.25	
	7/11/2012	19.05	17.76	22.10	4.34	0.8951*	0.83	
	10/23/2012	19.05	17.75	22.05	4.30	0.8951*	0.85	
	1/18/2013	19.05	19.20	23.40	4.20	0.8951*	-0.59	
	4/18/2013	19.05	19.34	23.50	4.16	0.8951*	-0.73	
	7/15/2013	19.05	18.91	23.40	4.49	0.8951*	-0.33	
MW-24 (5.5-25.5)	7/29/2009	17.56	15.20	24.10	8.90	0.8951*	1.43	
	10/26/2009	17.56	15.79	24.25	8.46	0.8951*	0.88	
	4/21/2010	17.56	15.10	22.60	7.50	0.8951*	1.67	
	7/19/2010	17.56	15.12	24.03	8.91	0.8951*	1.51	
	10/15/2010	17.56	15.55	24.46	8.91	0.8951*	1.08	
	1/11/2011	17.56	17.31	24.79	7.48	0.8951*	-0.53	
	4/25/2011	17.56	16.66	24.10	7.44	0.8951*	0.12	
	7/22/2011	17.56	16.11	23.85	7.74	0.8951*	0.64	
	10/18/2011	17.56	15.10	23.31	8.21	0.8951*	1.60	
	1/16/2012	15.94	14.70	22.68	7.98	0.8951*	0.40	
	4/12/2012	15.94	15.00	22.31	7.31	0.8951*	0.17	
	7/11/2012	15.94	14.92	21.50	6.58	0.8951*	0.33	
	10/23/2012	15.94	15.00	22.60	7.60	0.8951*	0.14	
	1/18/2013	15.94	14.53	23.00	8.47	0.8951*	0.52	
	4/18/2013	15.94	16.10	17.97	1.87	0.8951*	-0.36	
	7/15/2013	15.94	15.35	19.70	4.35	0.8951*	0.13	
MW-25 (2-22)	7/22/2011	5.85	ND	6.88	ND	NA	-1.03	
	10/18/2011	5.85	ND	5.70	ND	NA	0.15	
	1/16/2012	5.85	ND	6.30	ND	NA	-0.45	
	4/12/2012	5.85	ND	6.72	ND	NA	-0.87	
	7/11/2012	5.85	ND	6.65	ND	NA	-0.80	
	10/23/2012	5.85	ND	6.61	ND	NA	-0.76	
	1/18/2013	5.85	ND	6.16	ND	NA	-0.31	
	4/18/2013	5.85	ND	6.74	ND	NA	-0.89	
	7/15/2013	5.85	ND	6.52	ND	NA	-0.67	
MW-26 (2-17)	7/22/2011	6.34	ND	8.27	ND	NA	-1.93	
	10/18/2011	6.34	ND	7.20	ND	NA	-0.86	
	1/16/2012	6.34	ND	6.54	ND	NA	-0.20	
	4/12/2012	6.34	ND	8.21	ND	NA	-1.87	
	7/11/2012	6.34	ND	7.71	ND	NA	-1.37	
	10/23/2012	6.34	ND	7.70	ND	NA	-1.36	
	1/18/2013	6.34	ND	7.42	ND	NA	-1.08	
	4/18/2013	6.34	ND	8.00	ND	NA	-1.66	
	7/15/2013	6.34	ND	8.01	ND	NA	-1.67	

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

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MW-27 (2-17)	7/22/2011	6.17	ND	8.11	ND	NA	-1.94	
	10/18/2011	6.17	ND	6.94	ND	NA	-0.77	
	1/16/2012	6.17	ND	7.78	ND	NA	-1.61	
	4/12/2012	6.17	8.40	8.42	0.02	0.9050**	-2.23	
	7/11/2012	6.17	8.10	8.12	0.02	0.9050**	-1.93	
	10/23/2012	6.17	ND	8.12	ND	NA	-1.95	
	1/18/2013	6.17	7.97	7.98	0.01	0.9050**	-1.80	
	4/18/2013	6.17	8.02	8.15	0.13	0.9050**	-1.86	
	7/15/2013	6.17	7.80	7.81	0.01	0.9050**	-1.63	
MW-28 (2-12)	7/22/2011	8.52	6.30	6.32	0.02	0.9050**	2.22	
	10/18/2011	8.52	5.97	6.07	0.10	0.9050**	2.54	
	1/16/2012	8.52	7.15	7.20	0.05	0.9050**	1.37	
	4/12/2012	8.52	7.26	7.28	0.02	0.9050**	1.26	
	7/11/2012	8.52	6.41	8.80	2.39	0.9050**	1.88	
	10/23/2012	8.52	7.02	7.19	0.17	0.9050**	1.48	
	1/18/2013	8.52	6.81	6.98	0.17	0.9050**	1.69	
	4/18/2013	8.52	6.98	7.10	0.12	0.9050**	1.53	
	7/15/2013	8.52	6.75	6.78	0.03	0.9050**	1.77	
MW-28D (15-20)	7/11/2012	8.92	ND	8.11	ND	NA	0.81	
	10/23/2012	8.52	ND	10.23	ND	NA	-1.71	
	1/18/2013	8.92	ND	8.94	ND	NA	-0.02	
	4/18/2013	8.92	ND	8.70	ND	NA	0.22	
	7/15/2013	8.92	ND	8.34	ND	NA	0.58	
MW-29 (2-11)	7/22/2011	8.95	ND	5.94	ND	NA	3.01	
	10/18/2011	8.95	ND	5.70	ND	NA	3.25	
	1/16/2012	8.95	ND	6.52	ND	NA	2.43	
	4/12/2012	8.95	ND	6.65	ND	NA	2.30	
	7/11/2012	8.95	ND	6.20	ND	NA	2.75	
	10/23/2012	8.95	ND	6.26	ND	NA	2.69	
	1/18/2013	8.95	ND	6.51	ND	NA	2.44	
	4/18/2013	8.95	NM	NM	NM	NA	NM	Under vehicle
	7/15/2013	8.95	ND	6.29	ND	NA	2.66	
MW-30 (2-15)	7/22/2011	7.16	5.37	6.27	0.90	0.9152	1.71	
	10/18/2011	7.16	4.85	5.82	0.97	0.9152	2.23	
	1/16/2012	7.16	6.04	6.90	0.86	0.9152	1.05	
	4/12/2012	7.16	6.20	6.24	0.04	0.9152	0.96	
	7/11/2012	7.16	5.70	6.60	0.90	0.9152	1.38	
	10/23/2012	7.16	6.00	6.55	0.55	0.9152	1.11	
	1/18/2013	7.16	5.70	6.05	0.35	0.9152	1.43	
	4/18/2013	7.16	5.94	6.35	0.41	0.9152	1.19	
	7/15/2013	7.16	5.72	5.85	0.13	0.9152	1.43	
MW-31 (2-12)	7/22/2011	4.42	ND	1.86	ND	NA	2.56	
	10/18/2011	4.42	ND	1.71	ND	NA	2.71	
	1/19/2012	4.42	ND	2.29	ND	NA	2.13	Inaccessible 1/16/12
	4/12/2012	4.42	NM	NM	NM	NA	NM	Well inaccessible
	7/12/2012	4.42	ND	2.07	ND	NA	2.35	
	10/23/2012	4.42	ND	2.92	ND	NA	1.50	
	1/18/2013	4.42	ND	1.70	ND	NA	2.72	
	4/18/2013	4.42	4.64	5.03	0.39	NA	-0.61	
	7/15/2013	4.42	ND	2.03	ND	NA	2.39	

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

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MW-32 (2-22)	7/22/2011	5.84	6.92	6.93	0.01	0.9050**	-1.08	
	10/18/2011	5.84	6.04	6.07	0.03	0.9050**	-0.20	
	1/16/2012	5.84	6.60	6.80	0.20	0.9050**	-0.78	
	4/12/2012	5.84	6.90	6.92	0.02	0.9050**	-1.06	
	7/11/2012	5.84	6.35	6.60	0.25	0.9050**	-0.53	
	10/23/2012	5.84	6.41	6.51	0.10	0.9050**	-0.58	
	1/18/2013	5.84	6.47	6.49	0.02	0.9050**	-0.63	
	4/18/2013	5.84	6.92	6.96	0.04	0.9050**	-1.08	
	7/15/2013	5.84	7.46	7.49	0.03	0.9050**	-1.62	
MW-33 (2-17)	7/22/2011	5.70	4.24	4.98	0.74	0.9050**	1.39	
	10/18/2011	5.70	3.79	5.97	2.18	0.9050**	1.70	
	1/16/2012	5.70	4.79	7.00	2.21	0.9050**	0.70	
	4/12/2012	5.70	4.93	5.40	0.47	0.9050**	0.73	
	7/11/2012	5.70	4.48	6.00	1.52	0.9050**	1.08	
	10/23/2012	5.70	4.87	5.50	0.63	0.9050**	0.77	
	1/18/2013	5.70	4.50	4.69	0.19	0.9050**	1.18	
	4/18/2013	5.70	4.71	4.90	0.19	0.9050**	0.97	
	7/15/2013	5.70	4.48	4.80	0.32	0.9050**	1.19	
MW-34 (2-17)	7/11/2012	7.00	8.00	8.19	0.19	0.9050**	-1.02	
	10/23/2012	7.00	7.11	7.60	0.49	0.9050**	-0.16	
	1/18/2013	7.00	7.77	8.10	0.33	0.9050**	-0.80	
	4/18/2013	7.00	7.62	7.70	0.08	0.9050**	-0.63	
	7/15/2013	7.00	7.85	7.90	0.05	0.9050**	-0.85	
MW-35 (2-15)	7/11/2012	6.95	7.45	7.47	0.02	0.9050**	-0.50	
	10/23/2012	6.95	NA	NM	NM	NA	NM	Well inaccessible
	1/18/2013	6.95	7.36	7.37	0.01	0.9050**	-0.41	
	4/18/2013	6.95	ND	6.84	ND	0.9050**	0.11	
	7/15/2013	6.95	ND	7.64	ND	0.9050**	-0.69	Trace NAPL
MW-36 (2-13)	7/11/2012	8.99	ND	7.90	ND	ND	1.09	
	10/23/2012	8.99	5.93	6.11	0.18	0.9050**	3.04	
	1/18/2013	8.99	NM	NM	NM	0.9050**	NM	Well inaccessible
	4/18/2013	8.99	NM	NM	NM	0.9050**	NM	Unable to locate
	7/15/2013	8.99	ND	8.14	ND	0.9050**	0.85	
MW-37 (5-19)	7/11/2012	13.95	ND	NM	ND	ND	NM	Could not locate
	10/23/2012	13.95	ND	11.04	ND	ND	2.91	
	1/18/2013	13.95	ND	11.08	ND	ND	2.87	
	4/18/2013	13.95	ND	11.62	ND	ND	2.33	
	7/15/2013	13.95	ND	11.34	ND	ND	2.61	
MW-38 (5-20)	7/11/2012	13.97	ND	10.17	ND	ND	3.80	
	10/23/2012	13.97	ND	10.41	ND	NA	3.56	
	1/18/2013	13.97	ND	10.70	ND	NA	3.27	
	4/18/2013	13.97	NM	NM	NM	NA	NM	Under truck
	7/15/2013	13.97	ND	10.45	ND	NA	3.52	
MW-39 (3-15)	7/11/2012	10.26	ND	10.26	ND	ND	0.00	
	10/23/2012	10.26	ND	8.03	ND	NA	2.23	
	1/18/2013	10.26	6.41	6.42	0.01	0.9050**	3.85	
	4/18/2013	10.26	ND	8.32	ND	0.9050**	1.94	
	7/15/2013	10.26	8.00	8.02	0.02	0.9050**	2.26	
MW-40S (2-17)	7/11/2012	10.78	ND	7.59	ND	ND	3.19	
	10/23/2012	10.78	5.30	5.32	0.02	0.9050**	5.48	
	1/18/2013	10.78	8.19	8.20	0.01	0.9050**	2.59	
	4/18/2013	10.78	ND	8.10	ND	0.9050**	1.94	
	7/15/2013	10.78	4.74	4.78	0.04	0.9050**	6.04	

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-40D (26-36)	7/11/2012	10.76	ND	10.30	ND	ND	0.46	
	10/23/2012	10.76	ND	11.00	ND	NA	-0.24	
	1/18/2013	10.76	ND	11.45	ND	NA	-0.69	
	4/18/2013	10.76	ND	11.28	ND	NA	-0.52	
	7/15/2013	10.76	ND	6.95	ND	NA	3.81	
MW-41S (3-16)	7/11/2012	6.84	ND	3.95	ND	ND	2.89	
	10/23/2012	6.84	ND	4.90	ND	NA	1.94	
	1/18/2013	6.84	4.91	NM	NM	NM	NM	NAPL to viscous
	4/18/2013	6.84	ND	6.24	ND	NA	0.60	
	7/15/2013	6.84	ND	8.02	ND	NA	-1.18	
MW-41D (23-28)	7/11/2012	6.36	ND	6.74	ND	ND	-0.38	
	10/23/2012	6.36	ND	7.29	ND	NA	-0.93	
	1/18/2013	6.36	ND	7.70	ND	NA	-1.34	
	4/18/2013	6.36	ND	7.50	ND	NA	-1.14	
	7/15/2013	6.36	ND	10.92	ND	NA	-4.56	
MW-42 (5-23)	7/11/2012	9.10	7.55	22.00	14.45	0.9050**	0.18	
	10/23/2012	9.10	7.97	17.03	9.06	0.9050**	0.27	
	1/18/2013	9.10	8.70	21.45	12.75	0.9050**	-0.81	
	4/18/2013	9.10	8.65	13.00	4.35	0.9050**	-0.03	
	7/15/2013	9.10	8	23	15.00	0.9050**	-0.32	
MW-43 (3-13)	7/11/2012	7.98	ND	4.58	ND	ND	3.40	
	10/23/2012	7.98	ND	5.40	ND	NA	2.58	
	1/18/2013	7.98	ND	6.44	ND	NA	1.54	
	4/18/2013	7.98	ND	5.55	ND	NA	2.43	
	7/15/2013	7.98	ND	4.84	ND	NA	3.14	
MW-44 (3-10)	7/11/2012	8.31	ND	3.61	ND	ND	4.70	
	10/23/2012	8.31	ND	3.50	ND	NA	4.81	
	1/18/2013	8.31	ND	5.34	ND	NA	2.97	
	4/18/2013	8.31	ND	4.00	ND	NA	4.31	
	7/15/2013	8.31	ND	3.50	ND	NA	4.81	
MW-45 (2-17)	7/11/2012	6.33	ND	7.23	ND	ND	-0.90	
	10/23/2012	6.33	6.74	7.60	0.86	0.9050**	-0.49	
	1/18/2013	6.33	7.06	7.07	0.01	0.9050**	-0.73	
	4/18/2013	6.33	7.40	7.42	0.02	0.9050**	-1.07	
	7/15/2013	6.33	7.32	7.99	0.67	0.9050**	-1.05	
MW-46 (2-17)	7/11/2012	8.88	ND	10.32	ND	ND	-1.44	
	10/23/2012	8.88	ND	10.15	ND	NA	-1.27	
	1/18/2013	8.88	ND	9.61	ND	NA	-0.73	
	4/18/2013	8.88	ND	9.30	ND	NA	-0.42	
	7/15/2013	8.88	ND	9.97	ND	NA	-1.09	
MW-47 (3-13)	7/11/2012	8.37	4.65	4.70	0.05	0.9050**	3.72	
	10/23/2012	8.37	5.00	5.18	0.18	0.9050**	3.35	
	1/18/2013	8.37	4.75	NM	NM	0.9050**	NM	NAPL to viscous
	4/18/2013	8.37	5.00	NM	NM	0.9050**	NM	NAPL to viscous
	7/15/2013	8.37	4.80	4.95	0.15	0.9050**	3.56	
MW-48S (3-17)	7/11/2012	9.81	9.20	9.23	0.03	0.9050**	0.61	
	10/23/2012	9.81	NA	NM	NM	NA	NM	Well inaccessible
	1/18/2013	9.81	NM	NM	NM	NA	NM	Well inaccessible
	4/18/2013	9.81	NM	NM	NM	NA	NM	Under vehicle
	7/15/2013	9.81	NM	NM	NM	NA	NM	Under vehicle

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-48D (18-23)	7/11/2012	9.83	9.61	22.73	13.12	0.9050**	-1.03	
	10/23/2012	9.83	9.91	22.03	12.12	0.9050**	-1.23	
	1/18/2013	9.83	10.55	21.48	10.93	0.9050**	-1.76	
	4/18/2013	9.83	10.70	21.80	11.10	0.9050**	-1.92	
	7/15/2013	9.83	10.00	22.15	12.15	0.9050**	-1.32	
MW-49S (3-20)	7/11/2012	10.68	10.30	22.60	12.30	0.9149	-0.67	
	10/23/2012	10.68	NA	NM	NM	NA	NM	Well inaccessible
	1/18/2013	10.68	11.42	22.20	10.78	0.9149	-1.66	Well inaccessible
	4/18/2013	10.68	NM	NM	NM	0.9149	NM	Under vehicle
	7/15/2013	10.68	NM	NM	NM	0.9149	NM	Under vehicle
MW-49M (20-30)	7/11/2012	10.93	10.85	11.50	0.65	0.9149	0.02	
	10/23/2012	10.93	NA	NM	NM	NA	NA	Well inaccessible
	1/18/2013	10.93	11.35	12.80	1.45	0.9149	-0.54	
	4/18/2013	10.93	NM	NM	NM	0.9149	NM	Under vehicle
	7/15/2013	10.93	11.32	12.84	1.52	0.9149	-0.52	
MW-49D (30-40)	7/11/2012	10.55	11.52	11.80	0.28	0.9149	-0.99	
	10/23/2012	10.55	11.92	12.15	0.23	0.9149	-1.39	
	1/13/2013	10.55	NA	NM	NM	NA	NA	Well inaccessible
	4/18/2013	10.55	12.50	13.00	0.50	0.9149	-1.99	
	7/15/2013	10.55	12.17	12.50	0.33	0.9149	-1.65	
MW-50 (3-20)	7/11/2012	10.71	10.73	17.07	6.34	0.9050**	-0.62	
	10/23/2012	10.71	10.90	19.20	8.30	0.9050**	-0.98	
	1/18/2013	10.71	11.40	19.20	7.80	0.9050**	-1.43	
	4/18/2013	10.71	11.52	19.10	7.58	0.9050**	-1.53	
	7/15/2013	10.71	11.10	18.30	7.20	0.9050**	-1.07	
MW-51 (3-20)	7/11/2012	9.83	10.20	10.27	0.07	0.9050**	-0.38	
	10/23/2012	9.83	10.50	10.54	0.04	0.9050**	-0.67	
	1/18/2013	9.83	11.04	11.05	0.01	0.9050**	-1.21	
	4/18/2013	9.83	11.02	11.05	0.03	0.9050**	-1.19	
	7/15/2013	9.83	10.48	10.95	0.47	0.9050**	-0.69	
MW-52 (2-17)	7/11/2012	6.31	ND	7.86	ND	ND	-1.55	
	10/23/2012	6.31	ND	7.70	ND	NA	-1.39	
	1/18/2013	6.31	ND	6.96	ND	NA	-0.65	
	4/18/2013	6.31	ND	7.96	ND	NA	-1.65	
	7/15/2013	6.31	ND	7.64	ND	NA	-1.33	
MW-54 (5-25)	7/11/2012	11.06	9.45	11.20	1.75	0.9050**	1.44	
	10/23/2012	11.06	9.62	10.50	0.88	0.9050**	1.36	
	1/18/2013	11.06	10.06	12.17	2.11	0.9050**	0.80	
	4/18/2013	11.06	10.00	11.10	1.10	0.9050**	0.96	
	7/15/2013	11.06	9.55	10.60	1.05	0.9050**	1.41	
MW-55 (5-25)	7/11/2012	11.06	8.90	21.30	12.40	0.9047	0.98	
	10/23/2012	11.06	9.50	15.90	6.40	0.9047	0.95	
	1/18/2013	11.06	10.20	16.38	6.18	0.9047	0.27	
	4/18/2013	11.06	10.24	16.10	5.86	0.9047	0.26	
	7/15/2013	11.06	9.75	15.28	5.53	0.9047	0.78	
MW-56 (10-30)	7/11/2012	15.22	14.25	14.70	0.45	0.9050**	0.93	
	10/23/2012	15.22	14.15	20.80	6.65	0.9050**	0.44	
	1/18/2013	15.22	9.68	10.20	0.52	0.9050**	5.49	
	4/18/2013	15.22	NM	NM	NM	0.9050**	NM	No access to building
	7/15/2013	15.22	12.89	14.85	1.96	0.9050**	2.14	

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GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-57 (5-25)	7/11/2012	11.12	9.23	14.85	5.62	0.9050**	1.36	
	10/23/2012	11.12	8.90	10.85	1.95	0.9050**	2.03	
	1/18/2013	11.12	10.58	13.20	2.62	0.9050**	0.29	
	4/18/2013	11.12	10.45	16.00	5.55	0.9050**	0.14	
	7/15/2013	11.12	9.87	15.88	6.01	0.9050**	0.68	
MW-58 (5-15)	7/11/2012	15.33	13.87	14.72	0.85	0.9050**	1.38	
	10/23/2012	15.33	14.05	14.90	0.85	0.9050**	1.20	
	1/18/2013	15.33	14.60	14.90	0.30	0.9050**	0.70	
	4/18/2013	15.33	NM	NM	NM	0.9050**	NM	No access to building
	7/15/2013	15.33	14.05	14.83	0.78	0.9050**	1.21	
MW-59 (15-30)	7/11/2012	29.20	ND	22.03	ND	ND	7.17	
	10/23/2012	29.20	ND	22.56	ND	NA	6.64	
	1/18/2013	29.20	ND	23.24	ND	NA	5.96	
	4/18/2013	29.20	ND	22.10	ND	NA	7.10	
	7/15/2013	29.20	ND	21.20	ND	NA	8.00	
MW-60S (15-35)	7/11/2012	23.08	ND	20.22	ND	ND	2.86	
	10/23/2012	23.08	22.20	22.22	0.02	0.9050**	0.88	
	1/18/2013	23.08	NA	NM	NM	0.9050**	NM	Well Inaccessible
	4/18/2013	23.08	22.60	23.00	0.40	0.9050**	0.44	
	7/15/2013	23.08	NA	NM	NM	0.9050**	NM	Under Vehicle
MW-60D (35-45)	7/11/2012	23.48	ND	NM	ND	NA	NM	Well Inaccessible
	10/23/2012	23.48	NA	NM	NM	NA	NM	Well Inaccessible
	1/18/2013	23.48	NA	NM	NM	NA	NM	Well Inaccessible
	4/18/2013	23.48	NA	NM	NM	NA	NM	Under Vehicle
	7/15/2013	23.48	NA	NM	NM	NA	NM	Under Vehicle
MW-61 (5-25)	7/11/2012	15.36	14.00	17.45	3.45	0.8951	1.00	
	10/23/2012	15.36	14.22	16.60	2.38	0.8951	0.89	
	1/18/2013	15.36	NA	NM	NM	NA	NM	Well Inaccessible
	4/18/2013	15.36	14.80	18.00	3.20	0.8951	0.22	
	7/15/2013	15.36	14.50	17.98	3.48	0.8951	0.49	
MW-62 (4-19)	7/11/2012	13.12	ND	7.21	ND	NA	5.91	
	10/23/2012	13.12	NA	NM	NM	NA	NA	Well Inaccessible
	1/18/2013	13.12	ND	7.62	ND	NA	5.50	
	4/18/2013	13.12	ND	10.65	ND	NA	2.47	
	7/15/2013	13.12	ND	10.47	ND	NA	2.65	
MW-63 (12-32)	7/11/2012	23.58	21.95	22.10	0.15	0.9050**	1.62	
	10/23/2012	23.58	ND	22.21	ND	NA	1.37	
	1/18/2013	23.58	ND	23.00	ND	NA	0.58	
	4/18/2013	23.58	ND	22.92	ND	NA	0.66	
	7/15/2013	23.58	ND	22.61	ND	NA	0.97	
MW-64 (10-25)	7/11/2012	15.40	14.90	18.55	3.65	0.9050**	0.15	
	10/23/2012	15.40	14.90	23.24	8.34	0.9050**	-0.29	
	1/18/2013	15.40	15.55	23.30	7.75	0.9050**	-0.89	
	4/18/2013	15.40	15.70	23.00	7.30	0.9050**	-0.99	
	7/15/2013	15.40	15.19	23.20	8.01	0.9050**	-0.55	
MW-65 (10-25)	7/11/2012	14.55	14.20	24.55	10.35	0.9026	-0.66	
	10/23/2012	14.55	NA	NM	NM	NA	NM	Well Inaccessible
	1/18/2013	14.55	NA	NM	NM	NA	NM	Well Inaccessible
	4/18/2013	14.55	NA	NM	NM	NA	NM	Under vehicle
	7/15/2013	14.55	14.85	24.75	9.90	0.9026	-1.26	

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GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
MW-66 (15-30)	7/11/2012	22.65	ND	NM	ND	ND	NM	
	10/23/2012	22.65	20.01	20.78	0.77	0.9050**	2.57	
	1/18/2013	22.65	20.45	22.30	1.85	0.9050**	2.02	
	4/18/2013	22.65	20.30	22.00	1.70	0.9050**	2.19	
	7/15/2013	22.65	ND	NM	ND	ND	NM	Under vehicle
MW-67 (5-25)	7/11/2012	15.60	ND	12.99	ND	ND	2.61	
	10/23/2012	15.60	ND	13.27	ND	ND	2.33	
	1/18/2013	15.60	ND	13.73	ND	ND	1.87	
	4/18/2013	15.60	ND	13.54	ND	ND	2.06	
	7/15/2013	15.60	ND	13.35	ND	ND	2.25	
MW-68 (15-35)	7/11/2012	23.78	21.29	21.70	0.41	0.9050**	2.45	
	10/23/2012	23.78	21.45	21.93	0.48	0.9050**	2.28	
	1/18/2013	23.78	21.80	21.85	0.05	0.9050**	1.98	
	4/18/2013	23.78	21.68	22.40	0.72	0.9050**	2.03	
	7/15/2013	23.78	21.35	22.29	0.94	0.9050**	2.34	
MW-69 (10-30)	10/23/2012	21.58	ND	19.27	ND	ND	2.31	
	1/24/2013	21.58	ND	19.65	ND	ND	1.93	
	4/18/2013	21.58	ND	19.62	ND	ND	1.96	
	7/15/2013	21.58	ND	19.10	ND	ND	2.48	
BW-1	4/25/2011	6.34	ND	8.27	ND	NA	-1.93	
	7/22/2011	6.34	ND	8.05	ND	NA	-1.71	
	10/18/2011	6.34	ND	6.96	ND	NA	-0.62	
	1/16/2012	6.34	ND	8.00	ND	NA	-1.66	
	4/12/2012	6.34	ND	6.14	ND	NA	0.20	
	7/12/2012	6.34	ND	4.45	ND	NA	1.89	
	10/23/2012	6.34	ND	6.52	ND	NA	-0.18	
	1/18/2013	6.34	ND	5.50	ND	NA	0.84	
	4/18/2013	6.34	ND	8.20	ND	NA	-1.86	
BW-2	7/15/2013	6.34	ND	7.90	ND	NA	-1.56	
	4/25/2011	5.69	ND	7.94	ND	NA	-2.25	
	7/22/2011	5.69	ND	7.36	ND	NA	-1.67	
	10/18/2011	5.69	ND	9.09	ND	NA	-3.40	
	1/16/2012	5.69	ND	7.80	ND	NA	-2.11	
	4/12/2012	5.69	ND	5.62	ND	NA	0.07	
	7/12/2012	5.69	ND	3.78	ND	NA	1.91	
	10/23/2012	5.69	ND	6.69	ND	NA	-1.00	
	1/18/2013	5.69	ND	5.60	ND	NA	0.09	
BW-3	4/18/2013	5.69	ND	7.50	ND	NA	-1.81	
	7/15/2013	5.69	ND	8.40	ND	NA	-2.71	
	4/25/2011	6.02	ND	7.84	ND	NA	-1.82	
	7/22/2011	6.02	ND	7.77	ND	NA	-1.75	
	10/18/2011	6.02	ND	6.60	ND	NA	-0.58	
	1/16/2012	6.02	ND	7.80	ND	NA	-1.78	
	4/12/2012	6.02	ND	5.14	ND	NA	0.88	
	7/12/2012	6.02	ND	4.10	ND	NA	1.92	
	10/23/2012	6.02	ND	6.42	ND	NA	-0.40	
BW-3	1/18/2013	6.02	ND	6.04	ND	NA	-0.02	
	4/18/2013	6.02	ND	7.83	ND	NA	-1.81	
	7/15/2013	6.02	ND	7.50	ND	NA	-1.48	

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

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BW-4	4/25/2011	5.94	ND	7.77	ND	NA	-1.83	
	7/22/2011	5.94	ND	7.63	ND	NA	-1.69	
	10/18/2011	5.94	ND	6.30	ND	NA	-0.36	
	1/16/2012	5.94	ND	7.61	ND	NA	-1.67	
	4/12/2012	5.94	ND	6.11	ND	NA	-0.17	
	7/12/2012	5.94	ND	3.86	ND	NA	2.08	
	10/23/2012	5.94	ND	6.40	ND	NA	-0.46	
	1/18/2013	5.94	ND	5.77	ND	NA	0.17	
	4/18/2013	5.94	ND	7.54	ND	NA	-1.60	
BW-5	7/15/2013	5.94	ND	7.21	ND	NA	-1.27	
	4/25/2011	6.04	ND	7.80	ND	NA	-1.76	
	7/22/2011	6.04	ND	7.75	ND	NA	-1.71	
	10/18/2011	6.04	ND	6.47	ND	NA	-0.43	
	1/16/2012	6.04	ND	7.55	ND	NA	-1.51	
	4/12/2012	6.04	ND	6.24	ND	NA	-0.20	
	7/12/2012	6.04	ND	4.09	ND	NA	1.95	
	10/23/2012	6.04	ND	6.50	ND	NA	-0.46	
	1/18/2013	6.04	ND	6.08	ND	NA	-0.04	
BW-6	4/18/2013	6.04	ND	7.72	ND	NA	-1.68	
	7/15/2013	6.04	ND	7.37	ND	NA	-1.33	
	4/25/2011	5.94	ND	7.70	ND	NA	-1.76	
	7/22/2011	5.94	ND	7.65	ND	NA	-1.71	
	10/18/2011	5.94	ND	6.46	ND	NA	-0.52	
	1/16/2012	5.94	ND	7.62	ND	NA	-1.68	
	4/12/2012	5.94	ND	6.04	ND	NA	-0.10	
	7/12/2012	5.94	ND	3.88	ND	NA	2.06	
	10/23/2012	5.94	ND	6.62	ND	NA	-0.68	
BW-7	1/18/2013	5.94	ND	5.97	ND	NA	-0.03	
	4/18/2013	5.94	ND	7.56	ND	NA	-1.62	
	7/15/2013	5.94	ND	7.15	ND	NA	-1.21	
	4/25/2011	6.08	ND	7.92	ND	NA	-1.84	
	7/22/2011	6.08	ND	7.71	ND	NA	-1.63	
	10/18/2011	6.08	ND	6.47	ND	NA	-0.39	
	1/16/2012	6.08	ND	7.60	ND	NA	-1.52	
	4/12/2012	6.08	ND	6.10	ND	NA	-0.02	
	7/12/2012	6.08	ND	4.85	ND	NA	1.23	
BW-8	10/23/2012	6.08	ND	6.60	ND	NA	-0.52	
	1/18/2013	6.08	ND	5.96	ND	NA	0.12	
	4/18/2013	6.08	ND	7.68	ND	NA	-1.60	
	7/15/2013	6.08	ND	7.30	ND	NA	-1.22	
	4/25/2011	5.88	ND	7.80	ND	NA	-1.92	
	7/22/2011	5.88	ND	7.69	ND	NA	-1.81	
	10/18/2011	5.88	ND	6.55	ND	NA	-0.67	
	1/16/2012	5.88	ND	7.66	ND	NA	-1.78	
	4/12/2012	5.88	ND	6.12	ND	NA	-0.24	
BW-8	7/12/2012	5.88	ND	3.85	ND	NA	2.03	
	10/23/2012	5.88	ND	6.85	ND	NA	-0.97	
	1/18/2013	5.88	ND	5.50	ND	NA	0.38	
	4/18/2013	5.88	ND	7.25	ND	NA	-1.37	
	7/15/2013	5.88	ND	7.12	ND	NA	-1.24	

TABLE 1
GROUNDWATER GAUGING DATA

Former Pratt Oil Works
Long Island City, New York

January 9, 2009 through July 15, 2013

Well ID (Screen Interval fbg)	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Apparent Thickness (feet)	Specific Gravity	Corrected GW Elevation (feet)	Comments
BW-9	4/25/2011	6.30	ND	8.05	ND	NA	-1.75	
	7/22/2011	6.30	ND	7.91	ND	NA	-1.61	
	10/18/2011	6.30	ND	6.58	ND	NA	-0.28	
	1/16/2012	6.30	ND	8.06	ND	NA	-1.76	
	4/12/2012	6.30	ND	6.26	ND	NA	0.04	
	7/12/2012	6.30	ND	4.26	ND	NA	2.04	
	10/23/2012	6.30	ND	7.03	ND	NA	-0.73	
	1/18/2013	6.30	ND	6.31	ND	NA	-0.01	
	4/18/2013	6.30	ND	8.80	ND	NA	-2.50	
BW-10	7/15/2013	6.30	ND	7.30	ND	NA	-1.00	
	4/25/2011	6.13	ND	7.95	ND	NA	-1.82	
	7/22/2011	6.13	ND	7.75	ND	NA	-1.62	
	10/18/2011	6.13	ND	6.39	ND	NA	-0.26	
	1/16/2012	6.13	ND	8.04	ND	NA	-1.91	
	4/12/2012	6.13	ND	6.24	ND	NA	-0.11	
	7/12/2012	6.13	ND	4.25	ND	NA	1.88	
	10/23/2012	6.13	ND	7.02	ND	NA	-0.89	
	1/18/2013	6.13	ND	6.12	ND	NA	0.01	
BW-11	4/18/2013	6.13	ND	7.88	ND	NA	-1.75	
	7/15/2013	6.13	ND	7.41	ND	NA	-1.28	
	4/25/2011	6.28	ND	8.14	ND	NA	-1.86	
	7/22/2011	6.28	ND	7.84	ND	NA	-1.56	
	10/18/2011	6.28	ND	6.41	ND	NA	-0.13	
	1/16/2012	6.28	ND	8.18	ND	NA	-1.90	
	4/12/2012	6.28	ND	6.48	ND	NA	-0.20	
	7/12/2012	6.28	ND	4.25	ND	NA	2.03	
	10/23/2012	6.28	ND	7.00	ND	NA	-0.72	
BW-12	1/18/2013	6.28	ND	6.40	ND	NA	-0.12	
	4/18/2013	6.28	ND	8.00	ND	NA	-1.72	
	7/15/2013	6.28	ND	7.15	ND	NA	-0.87	
	4/25/2011	6.41	ND	8.32	ND	NA	-1.91	
	7/22/2011	6.41	ND	7.96	ND	NA	-1.55	
	10/18/2011	6.41	ND	6.30	ND	NA	0.11	
	1/16/2012	6.41	ND	8.27	ND	NA	-1.86	
	4/12/2012	6.41	ND	6.59	ND	NA	-0.18	
	7/12/2012	6.41	ND	4.40	ND	NA	2.01	
	10/23/2012	6.41	ND	7.24	ND	NA	-0.83	
	1/18/2013	6.41	ND	6.42	ND	NA	-0.01	
	4/18/2013	6.41	ND	8.19	ND	NA	-1.78	
	7/15/2013	6.41	ND	7.38	ND	NA	-0.97	

Notes:

BW - Bulkhead well

Corrected GW Elevation - calculated using the following formula:
(top of casing elevation - depth to water) + (LNAPL thickness * LNAPL specific gravity)

Depth to Water - measured in feet below land surface from top of casing

fbg - feet below grade

GW - Groundwater

LNAPL - Light non-aqueous phase liquid

N/A - Not applicable

NA - Not analyzed

ND - Not detected

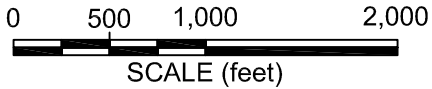
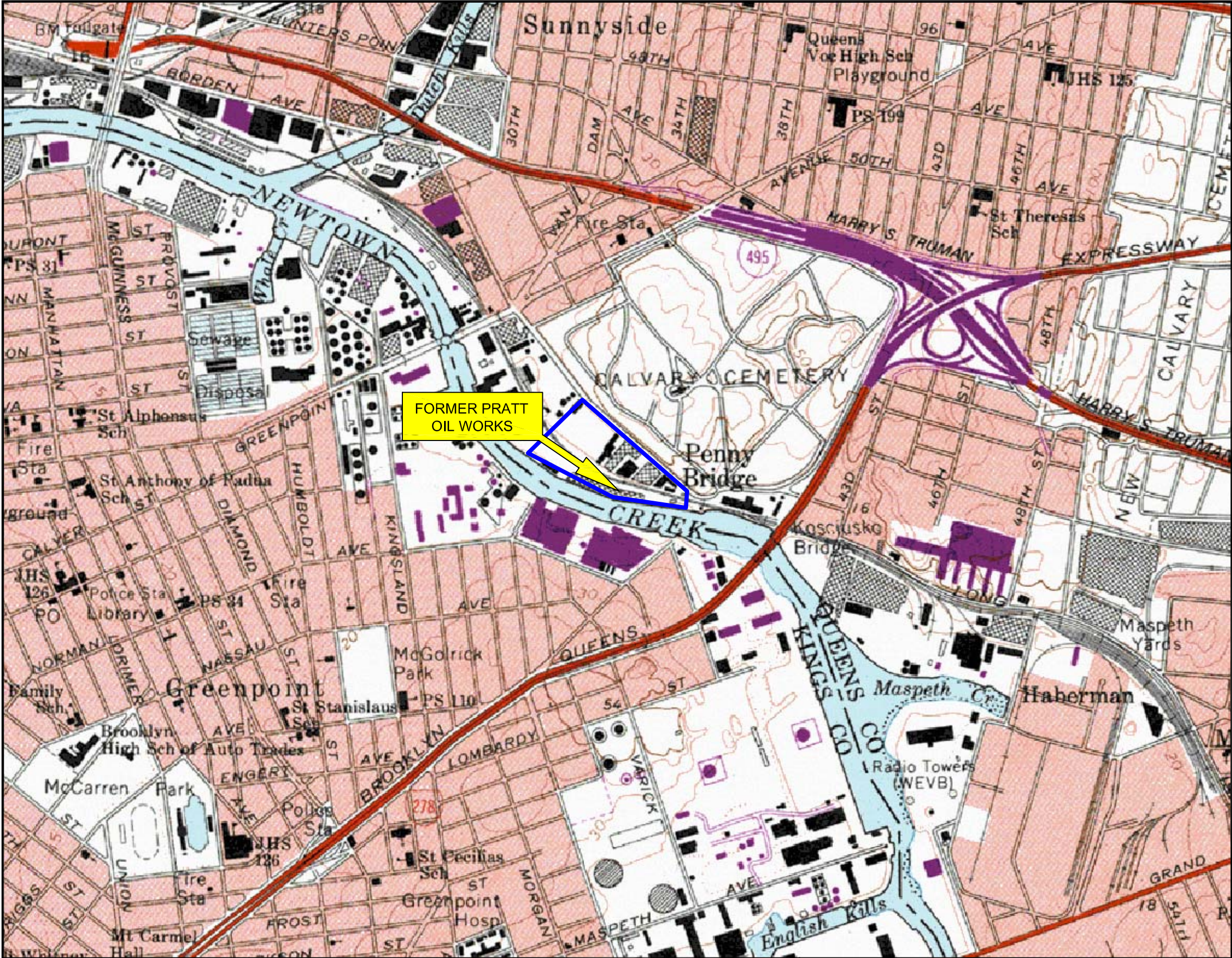
NM - Not monitored

NSVD - Not surveyed to vertical datum

* - estimated value based on density (grams per milliliter [g/mL])

** - estimated value based on surrounding wells

FIGURES



APPROXIMATE LOCATION
OF FORMER PRATT OIL WORKS



LATITUDE: 40° 43' 47.32" N
LONGITUDE: 73° 56' 08.26" W



SOURCE:
USGS 7.5' SERIES TOPOGRAPHIC MAP,
"BROOKLYN, NY QUADRANGLE
PHOTOREVISED 1979"

QUADRANGLE
LOCATION

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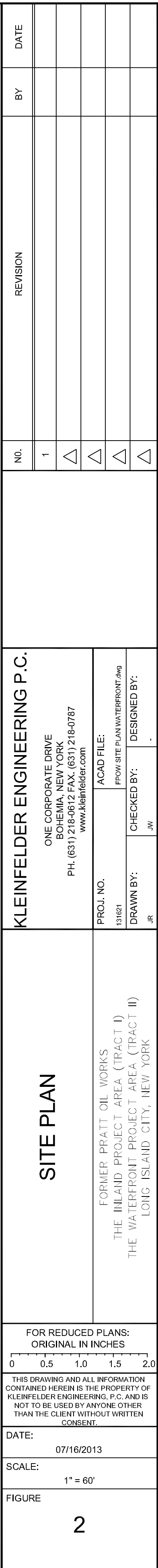
PROJECT NO.	131621
DRAWN:	07/16/2013
DRAWN BY:	JR
CHECKED BY:	JW
FILE NAME:	

LOCUS PLAN

FORMER PRATT OIL WORKS
THE INLAND PROJECT AREA (TRACT I)
THE WATERFRONT PROJECT AREA (TRACT II)
LONG ISLAND CITY, NEW YORK

FIGURE

1



THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. WHERE SUCH ALTERATIONS ARE MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS. (NYS EDUCATION LAW SECTION 7209-2)



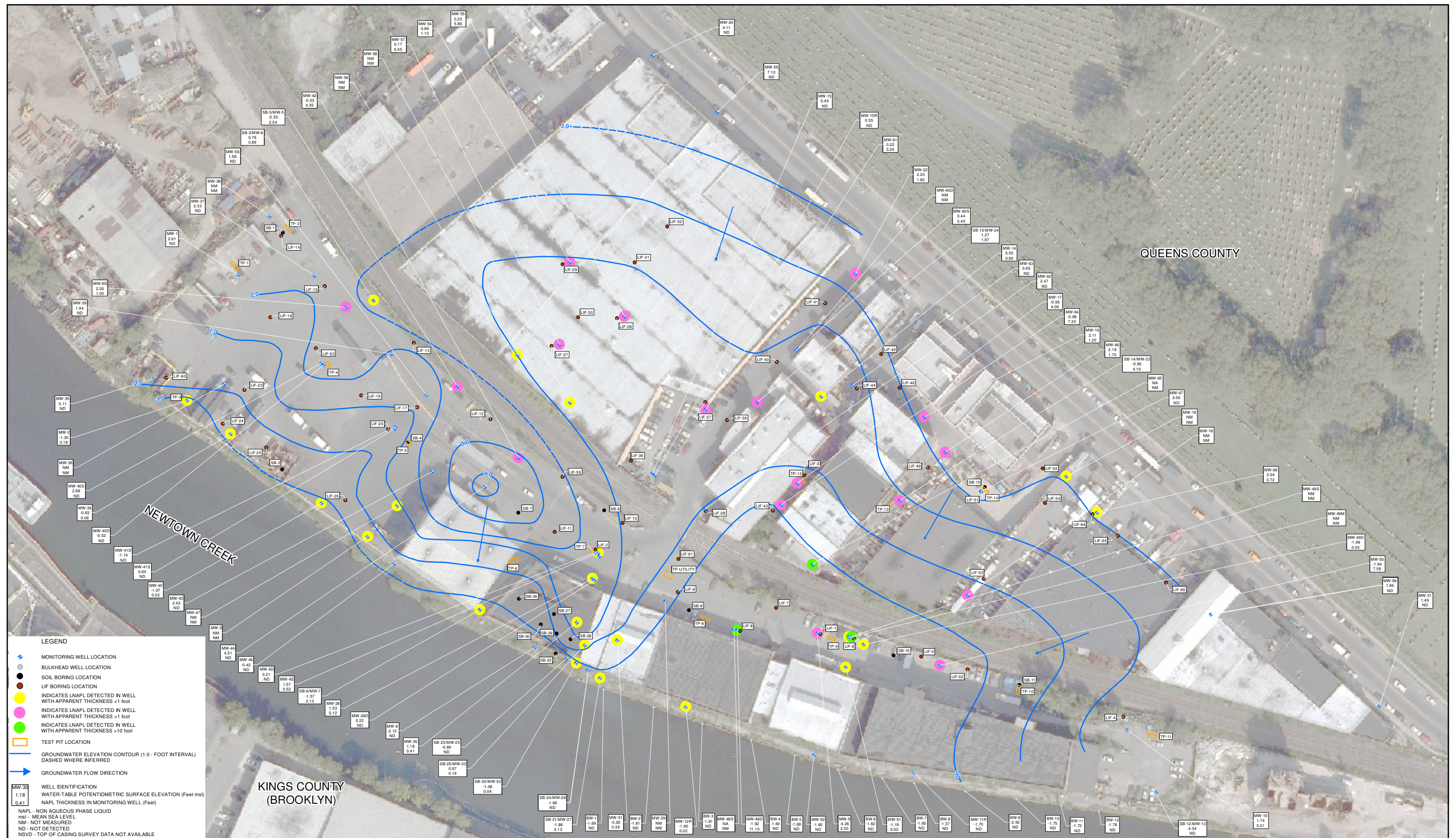
SOURCE: MICROSOFT AERIAL IMAGERY 2006

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0 40 80
Feet
1 inch = 80 feet



PROJECT NO.	131621	AERIAL PLAN	FIGURE 3
DRAWN:	09/18/2013		
DRAWN BY:	J.R.		
CHECKED BY:	J.W.	FORMER PRATT OIL WORKS THE INLAND PROJECT AREA (TRACT I) THE WATERFRONT PROJECT AREA (TRACT II) LONG ISLAND CITY, NEW YORK	
FILE NAME:			





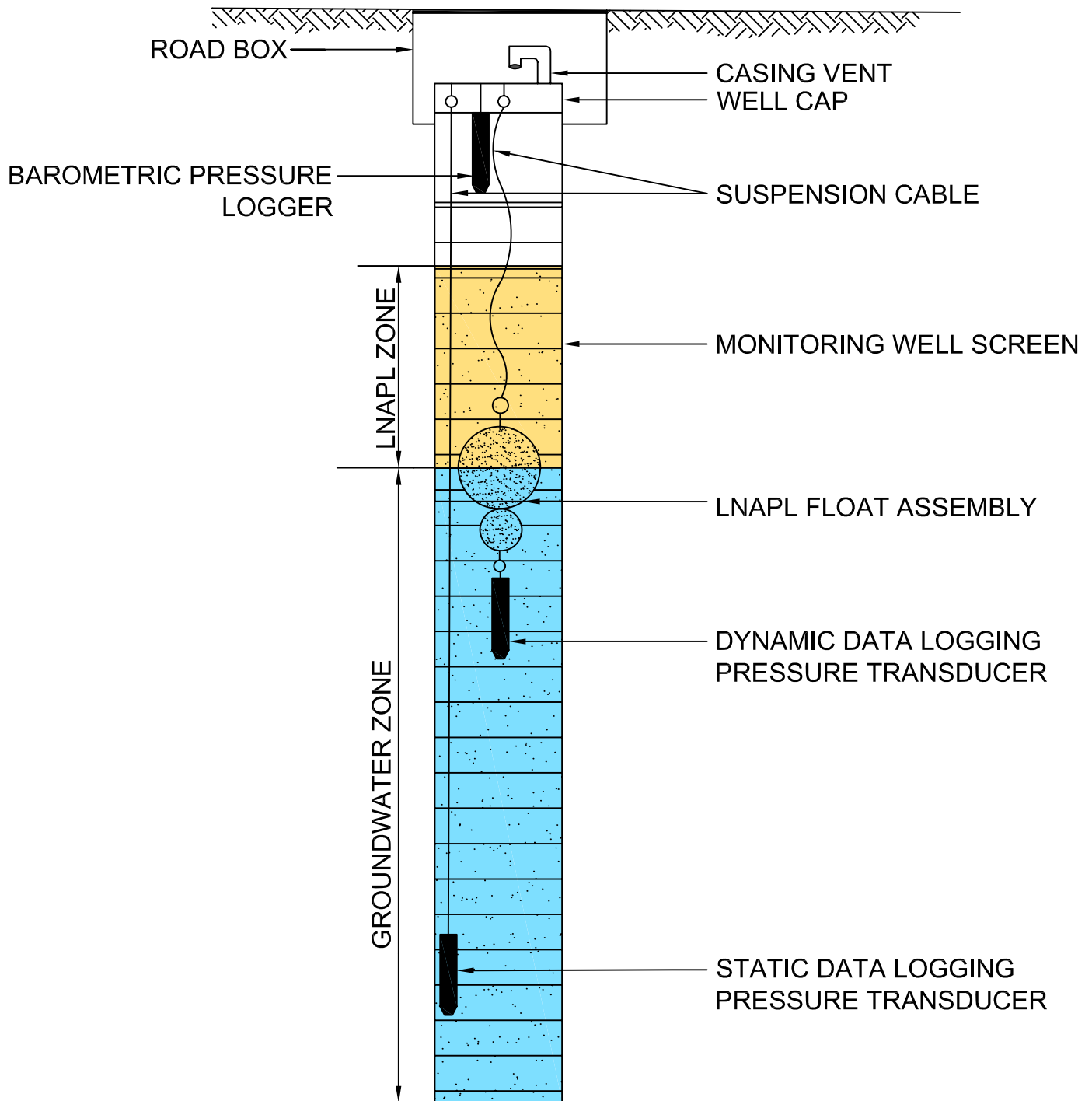
SOURCE: MICROSOFT AERIAL IMAGERY 2006

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0 30 60
Feet
1 inch = 60 feet



PROJECT NO.	131621	TRANSMISSIVITY TESTING MONITORING WELL NETWORK	FIGURE 5
DRAWN:	07/16/2013		
DRAWN BY:	J.R.		
CHECKED BY:	J.W.	FORMER PRATT OIL WORKS THE INLAND PROJECT AREA (TRACT I) THE WATERFRONT PROJECT AREA (TRACT II) LONG ISLAND CITY, NEW YORK	
FILE NAME:			



LNAPL - LIGHT NON-AQUEOUS PHASE LIQUID

NOT TO SCALE

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SOURCE: MICROSOFT AERIAL IMAGERY 2006

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0 40 80
Feet
1 inch = 80 feet



PROJECT NO.	131621	SITE PLAN WITH PROPOSED SOIL BORINGS	FIGURE
DRAWN:	09/18/2013		
DRAWN BY:	J.R.		
CHECKED BY:	J.W.	FORMER PRATT OIL WORKS THE INLAND PROJECT AREA (TRACT I) THE WATERFRONT PROJECT AREA (TRACT II) LONG ISLAND CITY, NEW YORK	7
FILE NAME:			

ATTACHMENT A
ENGINEERING CERTIFICATION

**LNAPL Transmissivity, Fluid Properties Evaluation and
Supplemental Soil Investigation Work Plan
The Inland Parcels (Tract I) and Waterfront Parcels (Tract II)
Former Pratt Oil Works
Long Island City, New York**

ENGINEERING CERTIFICATION

This report has been reviewed by Kleinfelder Engineering, P.C. for accuracy, content and quality of presentation. The Education Law of the State of New York prohibits any person from altering anything in the report in anyway unless it is under the direction of the licensed professional engineer. Where such alterations are made, the professional engineer must sign, seal, date and describe the full extent of the alteration (NYS Education Law Section 7209-2).



Dennis G. Shin, P.E.
Vice President
Kleinfelder Engineering, P.C.

Date

10/18/13