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Date: August 4, 2021
Our Ref: 30004014.00002
Subject: Data Summary Report for Parcel IV
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Dear Mr. Miller,

This letter has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of National Grid, to present the scope and results of the environmental investigations completed on Parcel IV of the former Citizens Gas Works manufactured gas plant (MGP) site (hereinafter, the "Site") in Brooklyn, New York. Parcel IV of the Site is currently in the New York State Superfund Program (designated as Site No. 224012), which is administrated by the New York State Department of Environmental Conservation (NYSDEC). The environmental investigations completed on Parcel IV of the Site were conducted on behalf of National Grid by GEI Consultants, Inc. (GEI) and consisted of a remedial investigation (RI), which was completed as part of the Site-wide RI, and a remedial design investigation (RDI). The results of the Site-wide RI, including those RI-related activities completed on Parcel IV of the Site, were presented in the *Final Remedial Investigation Report* (RI Report; GEI 2005).

The remainder of this letter presents relevant background information regarding the Site and Parcel IV and summarizes the scope and results of the environmental investigations completed on Parcel IV of the Site.

Site Background

Site Location and Description

The Site is generally located at the intersection of Smith and 5th Streets in the Carroll Gardens neighborhood of the Borough of Brooklyn, Kings County, New York (Figure 1), and comprises four properties, which are commonly referred to as "Parcel I" (Block 471, Lot 1), "Parcel II" (Block 471, Lot 100), "Parcel III" (Block 471, Lot 200), and "Parcel IV" (Block 468, Lot 25). Parcels I, II, and III of the Site encompass a contiguous area of approximately 9.6 acres and are generally bounded by 5th Street, Hoyt Street, and privately-owned commercial properties to the north, Smith Street to the west, Huntington Street to the southwest, and the Gowanus Canal (a New York State Class SD waterbody) to the south and east (Figure 2). Parcel IV of the Site (the subject of this letter) is located at 38 4th Street and comprises approximately 1.05 acres. The property is generally bounded by 4th Street to the

north, privately-owned properties to the west, Hoyt Street to the east and southeast, and 5th Street to the southwest (Figure 2).

The surface cover on Parcel IV generally comprises asphalt and concrete pavements (approximately 0.9 acre) and buildings (approximately 0.15 acre). Surface topography slopes downward from the north to the south. Topographic elevations range from approximately 27.0 feet above the North American Vertical Datum of 1988 (NAVD88) near 4th Street to approximately elevation 13.0 feet near the intersection of Hoyt and 5th Streets. The property is enclosed by a 10-foot high chain-link fence and is generally secure from public access.

Site History

Operational History

The Site and surrounding area were originally part of the wetlands system adjacent to Gowanus Creek. The area was artificially filled as part of the construction of the Gowanus Canal in the 1860s. Soon after the completion of the canal, the Citizens Gas Company constructed a coal gasification plant between 5th Street and 6th Street on the northern portions of Parcels I and II of the Site. The initial MGP included three gas holders (hereinafter, “Holder No. 1”, “Holder No. 2”, and “Holder No. 3”), a retort house, and coal storage areas. At that time, the southern area of Parcel III was occupied by a chemical fertilizer production facility, which was not affiliated with the MGP. The Brooklyn Union Gas Company acquired the MGP in 1895, and by 1904, a hydrogen gas holder (unnumbered) was located on Parcel I southeast of Holder No. 3, a purifier house was present on the northeast side of 6th Street, and a separator house and drip oil storage were located southwest of 6th Street. The chemical fertilizer production facility closed sometime between 1904 and 1915 and Parcel III was further developed to include additional tar handling facilities and oil storage tanks. The unnumbered hydrogen gas holder on Parcel I was decommissioned during this period.

Parcel IV was acquired in 1922 and, between 1923 and 1924, a new governor house, meter house, and five-section, 5-million-cubic-foot gas holder (“Holder No. 4”) was constructed on the property. By 1939, the plant had reached the extent of its construction. This included a new gas holder (“Holder No. 5”, which replaced Holder No. 1 near the corner of Smith and 5th Streets), two new purifier houses, and additional oil storage on Parcel I and a larger tar separator on Parcel III. Between 1928 and 1948, a one-million-gallon oil tank was constructed on Parcel III and the two 86-foot diameter gas holders (Holder Nos. 2 and 3) on Parcel I were decommissioned as gas holders and converted for use as a tar dehydrator tank and tar separator tank, respectively. The plant was converted to an oil gasification plant in 1952 and operated as such until its closure in the early 1960s. The Brooklyn Union Gas Company sold the MGP properties in 1969.

Regulatory History

KeySpan Corporation and NYSDEC entered into a Voluntary Cleanup Agreement (Index No. A2-0460-0502), effective August 31, 2002, for the investigation and remediation of Parcels I and II of the Site (formerly designated as Site No. V00360). The Voluntary Cleanup Agreement was terminated effective November 11, 2007, and NYSDEC and National Grid, the City of New York, Vichar, Inc., and Harvic International Ltd. subsequently entered into a Brownfield Site Cleanup Agreement (BCA; Index No. A2-0610-0808), effective February 18, 2009, for the investigation and remediation of Parcels I, II, and III, which (at that time) were collectively designated as Site No. C224012. Contemporaneously, National Grid and NYSDEC entered into a multi-site Order on Consent and

Administrative Settlement (Index No. A2-0552-0606), effective March 4, 2007 and amended on August 10, 2007, which requires National Grid to implement a remedial program for several former MGP sites on Long Island and in the New York City area, including Parcel IV of the Site.

Summary of Environmental Investigations

This section summarizes the scope and results of the environmental investigations completed on Parcel IV of the Site to characterize existing conditions with respect to MGP-related impacts. As indicated above, the investigations were conducted on behalf of National Grid by GEI and consisted of an RI and an RDI. The investigation locations (surface soil samples, soil borings, and monitoring wells) are shown on Figure 3 and the soil boring and well construction logs are provided in Attachment A. Table 1 summarizes the surface soil and soil boring locations, including the visible impacts (if any) observed at each location. Monitoring well construction details and water level measurements are summarized in Tables 2 and 3, respectively. Surface soil, subsurface soil, and groundwater sample results are summarized in Tables 4, 5, and 6, respectively.

Remedial Investigation (2003-2005)

The RI work on Parcel IV of the Site was conducted between April 1, 2003 and June 3, 2003, between December 8 and December 13, 2004, and on April 18, 2005 in accordance with the *Remedial Investigation Work Plan* (GEI 2003) and *Supplemental Remedial Investigation Work Plan* (GEI 2004). The RI scope generally included the following:

- Collection and analysis of four surface soil samples from three locations (CGSS-01, CGSS-02, and CGSS-03);
- Drilling of five soil borings (CGSB-17 through CGSB-19, CGSB-40, and CGSB-41) using sonic drilling methods and collection and analysis of 16 subsurface soil samples; and
- Installation of two monitoring wells (CGMW-05S and CGMW-05I), collection of water level measurements, and collection and analysis of four groundwater samples.

Soil and groundwater samples were submitted to and analyzed by Severn Trent Laboratories for the following parameters:

- Volatile organic compounds (VOCs) in accordance with United States Environmental Protection Agency (USEPA) SW-846 Method 8260;
- Semivolatile organic compounds (SVOCs) in accordance with USEPA SW-846 Method 8270;
- Arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver (RCRA 8 metals) in accordance with USEPA SW-846 Methods 6010 and 7470/7471; and
- Total cyanide in accordance with USEPA SW-846 Method 9012.

Surface soil samples were also analyzed for pesticides and polychlorinated biphenyls (PCBs) in accordance with USEPA SW-846 Methods 8081 and 8082, respectively.

The results of the RI work on Parcel IV of the Site were presented in the RI Report. The RI surface soil sample, soil boring, and monitoring well locations are shown on Figure 3 and the soil boring and well construction logs are provided in Attachment A. Visible impacts (if any) observed in the RI soil borings are summarized in Table 1. Monitoring well construction details and water level measurements collected during the RI are summarized in Tables 2 and 3, respectively. Tables 4 and 5 summarize the RI surface soil and subsurface soil sample results,

respectively, and identify the lower of the restricted use soil cleanup objectives (SCOs) for protection of public health (restricted residential use) or protection of groundwater, as set forth in Table 375-6.8(b) of Title 6, Part 375 of the New York Codes, Rules, and Regulations (6 NYCRR 375; Environmental Remediation Programs). Sample concentrations that exceed the applicable SCOs are shaded gray.

The RI groundwater sample results are summarized in Table 6. Table 6 also identifies the available New York State Class GA ambient water quality standards and guidance values from the NYSDEC Division of Water's Technical and Operational Guidance Series (TOGS) 1.1.1, titled *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* (NYSDEC 1998). Sample concentrations that exceed the applicable New York State Class GA ambient water quality standards or guidance values are shaded gray.

Remedial Design Investigation (2008)

The RDI work on Parcel IV of the Site was conducted between March 5 and March 17, 2008 and between May 30 and June 3, 2008 in accordance with the *Final Remedial Design Work Plan* (GEI 2007). The RDI scope generally included the: (1) collection of water level measurements from monitoring wells CGMW-05S and CGMW-05I; and (2) drilling of 44 soil borings – 37 using direct push drilling methods (CGGP-10 through CGGP-46) and seven using hollow-stem auger drilling methods (CGP4SB-01 through CGP4SB-05, CGP4SB-47, and CGP4SB-48) – and collection and analysis of 45 subsurface soil samples. Subsurface soil samples were submitted to and analyzed by TestAmerica Laboratories, Inc. for VOCs and SVOCs in accordance with USEPA SW-846 Methods 8260 and 8270, respectively. The RDI soil boring locations are shown on Figure 3 and the logs are provided in Attachment A. Visible impacts (if any) observed in the RDI soil borings are summarized in Table 1. Water level measurements collected during the RDI are summarized in Table 3 and the RDI subsurface soil sample results are summarized in Table 5. Table 5 also identifies the lower of the restricted use SCOs for protection of public health (restricted residential use) or protection of groundwater, as set forth in Table 375-6.8(b) of 6 NYCRR 375. Sample concentrations that exceed the applicable SCOs are shaded gray.

The laboratory reports and data usability summary reports for the RDI subsurface soil sample data are provided in Attachments B and C, respectively.

Conclusion

As summarized in Table 1, the majority of the visible impacts (e.g., sheens, coatings, etc.) observed in the soil borings drilled on Parcel IV of the Site are located below the groundwater table and generally at depths greater than 10 feet below existing grade. As described in Section 6.5.4 of the RI Report, potential receptors for surface soil and subsurface soil impacts on Parcel IV of the Site are limited to utility workers and future construction workers. A complete exposure pathway is not present for the public, or for other reasonably-anticipated property uses, due to the: (1) existing 10-foot high perimeter chain-link fence, which generally prevents unauthorized access to the property; (2) existing surface cover (asphalt/concrete pavements and buildings), which prevents direct contact with underlying surface soils; and (3) depth of the impacts. Groundwater is located over 20 feet below existing grade and is not used as a source of drinking or process water. Personal protective equipment and work zone monitoring would be required for any future utility workers or potential construction workers on the property. These precautions will mitigate potential exposure to impacted soils and should continue until a final plan for the property is in place. Given the limited exposure pathways, the need for any additional environmental-related work could be evaluated when redevelopment plans are identified for the property.

Please contact Mr. Patrick Van Rossem of National Grid with any questions regarding the information presented herein.

Sincerely,
Arcadis of New York, Inc.

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Principal Environmental Engineer

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CC. Daniel Eaton, NYSDEC
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Terry Young, PE, Arcadis

Enclosures:

Tables:

- Table 1. Surface Soil Sample and Soil Boring Summary
- Table 2. Monitoring Well Construction Summary
- Table 3. Summary of Measured Groundwater Depths and Elevations
- Table 4. Summary of Surface Soil Sample Data
- Table 5. Summary of Subsurface Soil Sample Data
- Table 6. Summary of Groundwater Sample Data

Figures:

- Figure 1. Site Location Map
- Figure 2. Site Plan
- Figure 3. Parcel IV Investigation Plan

Attachments:

- Attachment A. Soil Boring and Well Construction Logs
- Attachment B. Laboratory Report for RDI Subsurface Soil Samples
- Attachment C. Data Usability Summary Reports for RDI Subsurface Soil Samples

References:

GEI. 2003. *Remedial Investigation Work Plan*. Former Citizens Gas Works MGP Site, Carroll Gardens/Public Place, Brooklyn, New York. Prepared for KeySpan Energy Corporation. February 11.

GEI. 2004. *Supplemental Remedial Investigation Work Plan*. Former Citizens Gas Works MGP Site, Carroll Gardens/Public Place, Brooklyn, New York. Prepared for KeySpan Energy Corporation. August.

GEI. 2005. *Final Remedial Investigation Report*. Former Citizens Gas Works MGP Site, Carroll Gardens/Public Place, Brooklyn, New York. Prepared for KeySpan Corporation. October.

GEI. 2007. *Final Remedial Design Work Plan*. Former Citizens Gas Works MGP Site, Carroll Gardens/Public Place, Brooklyn, New York. Prepared for KeySpan Corporation. September 14.

Tables

Table 1
Surface Soil Sample and Soil Boring Summary
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Location ID	Date Completed	Easting (feet NAD83)	Northing (feet NAD83)	Ground Surface Elevation (feet NAVD88)	Total Depth (feet bgs)	Visible Impacts Observed		
						Depth Interval (feet bgs)	Elevation Interval (feet NAVD88)	Description
Remedial Investigation (2003-2005)								
CGMW-05S	4/2/2003	632221.50	672046.60	26.10	37.00	NO LOGGING AT THIS LOCATION		
CGSB-17	4/1/2003	632291.90	671850.40	14.48	68.00	3.00 - 3.50	11.48 - 10.98	Staining.
						8.00 - 10.00	6.48 - 4.48	Trace sheen.
						10.50 - 13.50	3.98 - 0.98	Black stained.
						13.50 - 14.00	0.98 - 0.48	NAPL-coated grains.
						32.00 - 34.00	-17.52 - -19.52	Trace patchy sheen.
						34.00 - 37.00	-19.52 - -22.52	Patchy sheen.
						37.00 - 38.00	-22.52 - -23.52	Heavily tar coated.
CGSB-18	4/1/2003	632209.60	671945.50	21.42	67.00	7.00 - 7.50	14.42 - 13.92	Black stained.
						20.00 - 27.00	1.42 - -5.58	Sheen throughout.
						27.00 - 29.00	-5.58 - -7.58	Sheen.
						29.00 - 37.00	-7.58 - -15.58	Sheen, black staining.
						37.00 - 39.00	-15.58 - -17.58	Tar blebs, staining.
CGSB-19/CGMW-05I	4/2/2003	632216.53	672051.80	26.40	77.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGSB-40	12/13/2004	632267.59	671934.68	23.58	59.00	20.50 - 29.00	3.08 - -5.42	Sheen throughout.
						33.00 - 34.00	-9.42 - -10.42	Lightly coated with tar.
						34.00 - 39.00	-10.42 - -15.42	Trace tar staining.
						39.00 - 40.50	-15.42 - -16.92	Blebs, sheen.
CGSB-41	12/8/2004	632187.82	671980.61	18.86	58.00	16.50 - 18.00	2.36 - 0.86	Traces of black staining.
						28.00 - 29.50	-9.14 - -10.64	Heavy sheen.
						30.00 - 31.50	-11.14 - -12.64	Heavy sheen.
						33.00 - 38.00	-14.14 - -19.14	Heavy sheen.
						38.00 - 41.00	-19.14 - -22.14	Heavy sheen.
						41.00 - 42.00	-22.14 - -23.14	Trace sheen.
CGSS-01	4/1/2003	632291.77	671855.13	14.48	0.75	NO SOIL LOGGING AT THIS LOCATION		
CGSS-02	4/1/2003	632209.44	671951.03	21.42	0.75	NO SOIL LOGGING AT THIS LOCATION		
CGSS-03	5/2/2003	632212.56	672047.21	26.40	1.00	NO SOIL LOGGING AT THIS LOCATION		

Table 1
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						Depth Interval (feet bgs)	Elevation Interval (feet NAVD88)	Description
Remedial Design Investigation (2008)								
CGGP-10	3/12/2008	632283.52	671841.05	14.40	12.00	7.10 - 8.00	7.30 - 6.40	Tar saturated.
						8.00 - 12.00	6.40 - 2.40	Tar staining.
CGGP-11	3/12/2008	632294.70	671862.24	14.90	12.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-12	3/12/2008	632307.15	671884.32	15.10	7.00	5.10 - 5.80	10.00 - 9.30	Black stained.
CGGP-13	3/12/2008	632318.60	671907.27	15.80	10.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-14	3/12/2008	632326.52	671924.05	16.20	10.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-15	3/12/2008	632264.34	671854.70	15.70	8.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-16	3/12/2008	632275.26	671876.69	16.00	9.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-17	3/12/2008	632284.67	671898.45	16.60	10.00	9.40 - 10.00	7.20 - 6.60	Black staining.
CGGP-18	3/12/2008	632298.16	671921.32	17.20	7.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-19	3/12/2008	632307.50	671938.94	17.80	11.00	10.40 - 11.00	7.40 - 6.80	Black stained.
CGGP-20	3/13/2008	632240.03	671861.70	16.60	10.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-21	3/13/2008	632278.07	671934.20	18.70	10.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-22	3/13/2008	632286.36	671952.65	19.50	7.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-23	3/13/2008	632222.41	671881.98	17.80	11.00	5.60 - 6.40	12.20 - 11.40	Black stained.
CGGP-24	3/13/2008	632245.02	671926.40	19.50	7.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-25	3/13/2008	632256.72	671948.92	20.20	12.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-26	3/13/2008	632265.60	671966.01	20.70	14.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-27	3/13/2008	632195.70	671898.00	19.30	12.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-28	3/13/2008	632210.50	671923.70	19.40	10.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-29	3/13/2008	632222.03	671941.80	21.00	12.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-30	3/13/2008	632233.72	671962.95	21.50	13.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-31	3/13/2008	632244.35	671980.19	22.10	11.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-32	3/14/2008	632175.10	671911.74	20.30	12.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-33	3/14/2008	632191.24	671931.57	21.30	10.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-34	3/14/2008	632200.34	671953.55	22.40	8.00	3.10 - 3.40	19.30 - 19.00	Stained black.
CGGP-35	3/13/2008	632213.52	671976.56	23.10	3.50	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		

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						Depth Interval (feet bgs)	Elevation Interval (feet NAVD88)	Description
Remedial Design Investigation (2008)								
CGGP-36	3/13/2008	632223.99	671993.32	23.80	3.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-37	3/14/2008	632160.70	671930.17	22.00	12.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-38	3/14/2008	632174.01	671954.78	22.90	14.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-39	3/17/2008	632207.05	672017.10	25.50	15.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-40A	3/14/2008	632231.72	672017.50	24.70	4.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-41	3/17/2008	632279.74	671968.10	20.30	14.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-42	3/17/2008	632322.85	671941.68	17.40	11.00	4.50 - 5.00	12.90 - 12.40	Solidified tar and sand mix.
CGGP-43	3/17/2008	632294.31	671829.53	13.70	5.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGGP-44	3/17/2008	632307.16	671855.25	14.10	19.00	6.70 - 8.20	7.40 - 5.90	Black stained.
						8.20 - 8.60	5.90 - 5.50	Black stained.
						8.60 - 10.00	5.50 - 4.10	Black stained.
						12.70 - 13.20	1.40 - 0.90	DNAPL saturated.
						13.90 - 14.40	0.20 - -0.30	DNAPL saturated.
						14.40 - 15.00	-0.30 - -0.90	Small blebs of tar.
						15.00 - 18.10	-0.90 - -4.00	Tar saturated.
						18.10 - 19.00	-4.00 - -4.90	Tar saturated.
CGGP-45	3/17/2008	632326.56	671892.54	15.10	15.00	8.50 - 9.10	6.60 - 6.00	Tar saturated.
						9.10 - 10.00	6.00 - 5.10	Black stained.
						10.00 - 12.20	5.10 - 2.90	Stained.
						12.20 - 12.50	2.90 - 2.60	Stained.
						12.50 - 15.00	2.60 - 0.10	Stained.
CGGP-46	3/17/2008	632339.57	671916.58	15.50	9.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGP4SB-01	6/3/2008	632325.90	671889.37	15.00	30.00	9.00 - 11.00	6.00 - 4.00	Black stained.
						11.00 - 13.00	4.00 - 2.00	Stained.
CGP4SB-02	5/30/2008	632293.16	671825.91	13.50	30.00	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		
CGP4SB-03	6/2/2008	632249.95	671853.57	16.00	37.00	21.00 - 23.00	-5.00 - -7.00	NAPL-coated grains throughout, sheen.
						33.00 - 33.80	-17.00 - -17.80	NAPL-coated grains, sheen.

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						Depth Interval (feet bgs)	Elevation Interval (feet NAVD88)	Description
Remedial Design Investigation (2008)								
CGP4SB-04	5/30/2008	632170.45	671899.43	19.50	40.00	13.00 - 15.00	6.50 - 4.50	Slight sheen.
						15.00 - 17.00	4.50 - 2.50	NAPL blebs and globs, heavy sheen, black staining.
						17.00 - 17.70	2.50 - 1.80	Staining.
						29.00 - 30.00	-9.50 - -10.50	NAPL-coated grains, tar lenses.
						33.00 - 35.00	-13.50 - -15.50	NAPL-coated grains at bottom of sample.
						38.00 - 40.00	-18.50 - -20.50	Blebs and globs of tar, sheen.
CGP4SB-05	6/3/2008	632142.07	671932.74	22.25	50.00	19.00 - 19.60	3.25 - 2.65	Sheen.
						19.60 - 21.00	2.65 - 1.25	Coarse sand has NAPL saturation, black stained.
						21.00 - 23.00	1.25 - -0.75	Black stained.
						28.00 - 30.00	-5.75 - -7.75	NAPL lenses.
						33.00 - 35.00	-10.75 - -12.75	Sheen.
						48.00 - 50.00	-25.75 - -27.75	Trace sheen.
CGP4SB-47	6/3/2008	632170.82	671967.64	23.50	17.00	10.00 - 12.00	13.50 - 11.50	Solid tar.
CGP4SB-48	6/3/2008	632250.74	671993.81	21.50	15.50	NO VISIBLE IMPACTS OBSERVED AT THIS LOCATION		

Notes:

1. Horizontal reference datum is the North American Datum of 1983 (NAD83), New York State Plane East Zone.
2. Vertical reference datum is the North American Vertical Datum of 1988 (NAVD88).
3. bgs: below ground surface.
4. DNAPL: dense non-aqueous phase liquid.
5. NAPL: non-aqueous phase liquid.

Table 2
Monitoring Well Construction Summary
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Location ID	Date Completed	Easting (feet NAD83)	Northing (feet NAD83)	Measuring Point Elevation (feet NAVD88)	Ground Surface Elevation (feet NAVD88)	Casing Type	Screen Type	Nominal Diameter (inches)	Screen Slot Size (inches)	Screen Length (feet)	Screened Interval		Sump Length (feet)	Total Depth (feet bgs)
											Depth (feet bgs)	Elevation (feet NAVD88)		
CGMW-05S	4/2/2003	632221.50	672046.60	25.68	26.10	Sch. 40 PVC	Sch. 40 PVC	2.0	0.010	10.00	25.00 - 35.00	1.10 - -8.90	2.00	37.00
CGMW-05I	4/2/2003	632216.53	672051.80	26.14	26.40	Sch. 40 PVC	Sch. 40 PVC	2.0	0.010	10.00	54.00 - 64.00	-27.60 - -37.60	2.00	66.00

Notes:

1. Horizontal reference datum is the North American Datum of 1983 (NAD83), New York State Plane East Zone.
2. Vertical reference datum is the North American Vertical Datum of 1988 (NAVD88).
3. Well construction details are based on information presented in Section 2.2.2.3 and Table 3 of the *Final Remedial Investigation Report* (GEI 2005).
4. bgs: below ground surface.
5. PVC: polyvinyl chloride.
6. Sch.: Schedule.

Table 3
Summary of Measured Groundwater Depths and Elevations
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Location ID	Measuring Point Elevation (feet NAVD88)	Remedial Investigation													
		June 5, 2003				July 10, 2003		April 4, 2005				April 11, 2005			
		Groundwater Depth (feet bmp)		Groundwater Elevation (feet NAVD88)		Groundwater Depth (feet bmp)	Groundwater Elevation (feet NAVD88)	Groundwater Depth (feet bmp)		Groundwater Elevation (feet NAVD88)		Groundwater Depth (feet bmp)		Groundwater Elevation (feet NAVD88)	
		High Tide	Low Tide	High Tide	Low Tide	Low Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
CGMW-05S	25.68	24.22	24.20	1.46	1.48	23.54	2.14	22.79	22.77	2.89	2.91	22.72	22.67	2.96	3.01
CGMW-05I	26.14	24.98	24.95	1.16	1.19	24.18	1.96	23.50	23.57	2.64	2.57	23.37	23.37	2.77	2.77

Location ID	Measuring Point Elevation (feet NAVD88)	Remedial Design Investigation							
		March 5, 2008		March 6, 2008				March 7, 2008	
		Groundwater Depth (feet bmp)	Groundwater Elevation (feet NAVD88)	Groundwater Depth (feet bmp)		Groundwater Elevation (feet NAVD88)		Groundwater Depth (feet bmp)	Groundwater Elevation (feet NAVD88)
		Low Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	High Tide	High Tide
CGMW-05S	25.68	22.20	3.48	22.27	22.30	3.41	3.38	22.30	3.38
CGMW-05I	26.14	23.31	2.83	23.22	23.40	2.92	2.74	23.29	2.85

Notes:

1. Vertical reference datum is the North American Vertical Datum of 1988 (NAVD88).
2. Groundwater depths and elevations summarized in this table for June 5, 2003, July 10, 2003, April 4, 2005, and April 11, 2005 are were originally presented in Table 5 of the *Final Remedial Investigation Report* (GEI 2005).
3. bmp: below measuring point.

Table 4
Summary of Surface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSS-01	CGSS-01	CGSS-02	CGSS-03
Sample ID:		CGSS-01 0-0.75	CGSSXX040103	CGSS-02 0-0.75	CGSS-03
Sample Interval (feet bgs):		0.00 to 0.75	0.00 to 0.75	0.00 to 0.75	0.75 to 1.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.48 to 13.73	14.48 to 13.73	21.42 to 20.67	25.65 to 25.40
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	5/2/2003
Volatile Organic Compounds					
Acetone	0.05	**0.01 J**	**0.009 J**	0.011 U	R
Benzene	0.06	**0.02 J**	**0.035 J**	**0.016 J**	0.57 U
Bromodichloromethane	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Bromoform	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Bromomethane	--	0.006 U	0.006 U	0.005 U	0.57 U
Butanone, 2-	0.12	0.011 U	0.011 U	0.011 U	R
Carbon disulfide	--	0.006 UJ	**0.002 J**	0.005 UJ	0.57 U
Carbon tetrachloride	0.76	0.006 U	0.006 U	0.005 U	0.57 U
Chlorobenzene	1.1	0.006 U	0.006 U	0.005 UJ	0.57 U
Chloroethane	--	0.006 UJ	0.006 UJ	0.005 UJ	0.57 U
Chloroform	0.37	0.006 U	0.006 U	0.005 U	0.57 U
Chloromethane	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Dibromochloromethane	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Dichloroethane, 1,1-	0.27	0.006 U	0.006 U	0.005 U	0.57 U
Dichloroethane, 1,2-	0.02	0.006 U	0.006 U	0.005 U	0.57 U
Dichloroethene, 1,1-	0.33	0.006 U	0.006 U	0.005 U	0.57 U
Dichloroethene, cis-1,2-	0.25	0.006 U	0.006 U	0.005 U	0.57 U
Dichloroethene, trans-1,2-	0.19	0.006 U	0.006 U	0.005 U	0.57 U
Dichloropropane, 1,2-	--	0.006 U	0.006 U	0.005 U	0.57 U
Dichloropropene, cis-1,3-	--	0.006 U	0.006 U	0.005 U	0.57 U
Dichloropropene, trans-1,3-	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Ethylbenzene	1	**0.002 J**	**0.005 J**	**0.002 J**	0.57 U
Hexanone, 2-	--	0.011 U	0.011 U	0.011 U	0.57 U
Methyl-2-pentanone, 4-	--	0.011 U	0.011 U	0.011 U	0.57 U
Methylene chloride	0.05	0.008 U	0.012 U	0.008 UJ	0.57 U
Styrene	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Tetrachloroethane, 1,1,2,2-	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Tetrachloroethene	1.3	**0.002 J**	**0.002 J**	**0.002 J**	0.57 U
Toluene	0.7	**0.01**	**0.022**	**0.008 J**	0.57 U
Trichloroethane, 1,1,1-	0.68	0.006 U	0.006 U	0.005 U	0.57 U
Trichloroethane, 1,1,2-	--	0.006 U	0.006 U	0.005 UJ	0.57 U
Trichloroethene	0.47	0.006 U	0.006 U	0.005 U	0.57 U
Vinyl acetate	--	0.006 U	0.006 U	0.005 U	0.57 U
Vinyl chloride	0.02	0.006 U	0.006 U	0.005 U	0.57 U
Xylenes, Total	1.6	**0.004 J**	**0.01**	**0.002 J**	0.57 U
Semivolatile Organic Compounds					
Acenaphthene	98	**0.31 J**	**0.27 J**	1.4 U	**0.36 J**
Acenaphthylene	100	**0.65 J**	**0.78 J**	**0.32 J**	**1.2 J**
Anthracene	100	**0.75 J**	**1.1 J**	**0.6 J**	**2**
Benzo(a)anthracene	1	**2.5**	**3.3**	**1.9**	**7**
Benzo(a)pyrene	1	**2.1**	**3**	**1.7**	**7.3**

Table 4
Summary of Surface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSS-01	CGSS-01	CGSS-02	CGSS-03
Sample ID:		CGSS-01 0-0.75	CGSSXX040103	CGSS-02 0-0.75	CGSS-03
Sample Interval (feet bgs):		0.00 to 0.75	0.00 to 0.75	0.00 to 0.75	0.75 to 1.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.48 to 13.73	14.48 to 13.73	21.42 to 20.67	25.65 to 25.40
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	5/2/2003
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**3.6**	**5.8**	**2**	**5.8**
Benzo(g,h,i)perylene	100	**0.66 J**	**0.7 J**	**0.61 J**	**1 J**
Benzo(k)fluoranthene	1.7	1.5 U	1.5 U	**1.5**	**7.2**
Benzoic acid	--	7.2 UJ	7.2 UJ	6.9 UJ	7.1 U
Benzyl alcohol	--	1.5 U	1.5 U	1.4 U	1.5 U
Bis(2-chloroethoxy)methane	--	1.5 U	1.5 U	1.4 U	1.5 U
Bis(2-chloroethyl)ether	--	1.5 U	1.5 U	1.4 U	1.5 U
Bis(2-ethylhexyl)phthalate	--	**0.24 J**	**0.25 J**	**0.27 J**	**0.25 J**
Bis(chloroisopropyl)ether	--	1.5 U	1.5 U	1.4 U	1.5 U
Bromophenyl phenyl ether, 4-	--	1.5 U	1.5 U	1.4 U	1.5 U
Butyl benzyl phthalate	--	1.5 U	1.5 U	1.4 U	1.5 U
Carbazole	--	**0.24 J**	**0.41 J**	**0.23 J**	**0.27 J**
Chloro-3-methylphenol, 4-	--	1.5 U	1.5 U	1.4 U	1.5 U
Chloroaniline, 4-	--	1.5 UJ	1.5 UJ	1.4 U	1.5 UJ
Chloronaphthalene, 2-	--	1.5 U	1.5 U	1.4 U	1.5 U
Chlorophenol, 2-	--	1.5 U	1.5 U	1.4 U	1.5 U
Chlorophenyl phenyl ether, 4-	--	1.5 U	1.5 U	1.4 U	1.5 U
Chrysene	1	**2.4**	**3.1**	**1.7**	**7.1**
Dibenzo(a,h)anthracene	0.33	**0.46 J**	**0.53 J**	**0.38 J**	**0.63 J**
Dibenzofuran	59	1.5 U	**0.17 J**	1.4 U	**0.11 J**
Dichlorobenzene, 1,2-	1.1	1.5 U	1.5 U	1.4 U	1.5 U
Dichlorobenzene, 1,3-	2.4	1.5 U	1.5 U	1.4 U	1.5 UJ
Dichlorobenzene, 1,4-	1.8	1.5 U	1.5 U	1.4 U	1.5 U
Dichlorobenzidine, 3,3-	--	3 UJ	3 UJ	2.9 UJ	2.9 U
Dichlorophenol, 2,4-	--	1.5 U	1.5 U	1.4 U	1.5 U
Diethyl phthalate	--	1.5 U	1.5 U	1.4 U	1.5 U
Dimethylphenol, 2,4-	--	1.5 UJ	1.5 UJ	1.4 UJ	**0.18 J**
Dimethyl phthalate	--	1.5 U	1.5 U	1.4 U	1.5 U
Di-n-butyl phthalate	--	1.5 U	1.5 U	1.4 U	1.5 U
Di-n-octyl phthalate	--	1.5 U	1.5 U	1.4 U	1.5 U
Dinitro-2-methylphenol, 4,6-	--	7.2 U	7.2 U	6.9 U	7.1 U
Dinitrophenol, 2,4-	--	7.2 U	7.2 U	6.9 U	7.1 U
Dinitrotoluene, 2,4-	--	1.5 U	1.5 U	1.4 U	1.5 U
Dinitrotoluene, 2,6-	--	1.5 U	1.5 U	1.4 U	1.5 U
Fluoranthene	100	**4.4**	**5.7**	**3.4**	**9.1**
Fluorene	100	1.5 U	1.5 U	1.4 U	**0.32 J**
Hexachlorobenzene	1.2	1.5 U	1.5 U	1.4 U	1.5 U
Hexachlorobutadiene	--	1.5 U	1.5 U	1.4 U	1.5 U
Hexachlorocyclopentadiene	--	1.5 UJ	1.5 UJ	1.4 UJ	1.5 UJ
Hexachloroethane	--	1.5 U	1.5 U	1.4 U	1.5 U
Indeno(1,2,3-cd)pyrene	0.5	**0.73 J**	**0.91 J**	**0.72 J**	**1.2 J**

Table 4
Summary of Surface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSS-01	CGSS-01	CGSS-02	CGSS-03
Sample ID:		CGSS-01 0-0.75	CGSSXX040103	CGSS-02 0-0.75	CGSS-03
Sample Interval (feet bgs):		0.00 to 0.75	0.00 to 0.75	0.00 to 0.75	0.75 to 1.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.48 to 13.73	14.48 to 13.73	21.42 to 20.67	25.65 to 25.40
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	5/2/2003
Semivolatile Organic Compounds (continued)					
Isophorone	--	1.5 U	1.5 U	1.4 U	1.5 U
Methylnaphthalene, 2-	--	**0.66 J**	**0.55 J**	1.4 U	**0.12 J**
Methylphenol, 2-	0.33	1.5 U	1.5 U	1.4 U	1.5 U
Methylphenol, 4-	0.33	1.5 U	1.5 U	1.4 U	**0.11 J**
Naphthalene	12	**1.3 J**	**1 J**	1.4 U	**0.27 J**
Nitroaniline, 2-	--	7.2 U	7.2 U	6.9 U	7.1 U
Nitroaniline, 3-	--	7.2 U	7.2 U	6.9 U	7.1 U
Nitroaniline, 4-	--	3 U	3 U	2.9 U	2.9 U
Nitrobenzene	--	1.5 U	1.5 U	1.4 U	1.5 U
Nitrophenol, 2-	--	1.5 U	1.5 U	1.4 U	1.5 U
Nitrophenol, 4-	--	7.2 U	7.2 U	6.9 U	7.1 U
N-Nitrosodi-n-propylamine	--	1.5 U	1.5 U	1.4 U	1.5 U
N-Nitrosodiphenylamine	--	1.5 U	1.5 U	1.4 U	1.5 U
Pentachlorophenol	0.8	7.2 UJ	7.2 UJ	6.9 U	R
Phenanthrene	100	**2.2**	**2.9**	**2**	**4.6**
Phenol	0.33	1.5 U	1.5 U	1.4 U	1.5 U
Pyrene	100	**3.9**	**4.8**	**2.8 J**	**11**
Trichlorobenzene, 1,2,4-	--	1.5 U	1.5 U	1.4 U	1.5 U
Trichlorophenol, 2,4,5-	--	7.2 U	7.2 U	6.9 U	7.1 U
Trichlorophenol, 2,4,6-	--	1.5 U	1.5 U	1.4 U	1.5 U
Polychlorinated Biphenyls					
Aroclor 1016	--	0.038 UJ	0.038 UJ	0.018 UJ	0.019 U
Aroclor 1221	--	0.073 U	0.073 U	0.035 U	0.036 U
Aroclor 1232	--	0.038 U	0.038 U	0.018 U	0.019 U
Aroclor 1242	--	0.038 U	0.038 U	0.018 U	0.019 U
Aroclor 1248	--	**0.086**	**0.062 J**	0.018 U	0.019 U
Aroclor 1254	--	0.038 U	0.038 U	0.018 U	0.019 U
Aroclor 1260	--	**0.33**	**0.33**	**0.093 J**	0.019 U
Pesticides					
Aldrin	0.097	0.011 U	0.011 U	0.011 UJ	0.011 UJ
BHC, alpha-	0.02	0.0094 U	0.0094 U	0.0091 U	0.0094 UJ
BHC, beta-	0.09	0.0094 U	0.0094 U	0.0091 U	0.0094 UJ
BHC, delta-	0.25	0.0094 U	0.0094 U	0.0091 U	0.0094 UJ
BHC, gamma-	--	0.0094 U	0.0094 U	0.0091 U	0.0094 UJ
Chlordane, alpha-	2.9	**0.013**	**0.0085 J**	**0.025 J**	0.0094 UJ
Chlordane, gamma-	--	**0.012 J**	**0.0047 J**	**0.021 J**	0.0094 UJ
DDD, 4,4'-	13	0.018 U	0.018 U	0.018 U	0.018 UJ
DDE, 4,4'-	8.9	**0.032**	**0.02**	**0.06 J**	**0.049 J**
DDT, 4,4'-	7.9	**0.017 J**	**0.014 J**	**0.034 J**	**0.0088 J**
Dieldrin	0.1	**0.019 J**	**0.015 J**	**0.025 J**	0.018 UJ
Endosulfan, alpha-	24	0.0094 UJ	0.0094 UJ	0.0091 UJ	0.0094 UJ

Table 4
Summary of Surface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSS-01	CGSS-01	CGSS-02	CGSS-03
Sample ID:		CGSS-01 0-0.75	CGSSXX040103	CGSS-02 0-0.75	CGSS-03
Sample Interval (feet bgs):		0.00 to 0.75	0.00 to 0.75	0.00 to 0.75	0.75 to 1.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.48 to 13.73	14.48 to 13.73	21.42 to 20.67	25.65 to 25.40
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	5/2/2003
Pesticides (continued)					
Endosulfan, beta-	24	**0.0073 J**	**0.024 J**	**0.0092 J**	0.018 UJ
Endosulfan sulphate	24	0.018 U	0.018 U	0.018 U	0.018 UJ
Endrin	0.06	0.028 U	0.028 U	0.027 UJ	0.028 UJ
Endrin aldehyde	--	0.018 U	0.018 U	0.018 U	0.018 UJ
Endrin ketone	--	0.018 U	0.018 U	0.018 U	**0.1 J**
Heptachlor	0.38	0.0094 U	0.0094 U	0.0091 UJ	0.0094 UJ
Heptachlor epoxide	--	**0.0014 J**	**0.0012 J**	**0.0043 J**	**0.0056 J**
Methoxychlor	--	0.094 UJ	0.094 UJ	0.091 UJ	0.094 UJ
Toxaphene	--	0.46 U	0.46 U	0.44 U	0.46 UJ
Metals					
Arsenic	16	**4.7**	**6.9**	**4.9**	**47.9**
Barium	400	**145**	**157**	**78.7**	**132**
Cadmium	4.3	**1.4 J**	**1.2 J**	**0.87 J**	2.9 U
Chromium	19	**340 J**	**111 J**	**14.8**	**14.8**
Lead	400	**274 J**	**447 J**	**134 J**	**476 J**
Mercury	0.73	**0.76 J**	**1.4 J**	**0.27**	**2**
Selenium	4	11.2 U	13.1 U	12.1 U	15.4 U
Silver	8.3	2.1 U	2.5 U	2.3 U	2.9 U
Total Cyanide					
Cyanide, Total	27	0.557 U	**0.527**	**0.42**	0.55 U

Notes:

1. Surface soil sample data summarized in this table were originally presented in Table 10 of the *Final Remedial Investigation Report* (GEI 2005).
2. Sample concentrations are presented in units of milligrams per kilogram (mg/kg).
3. Vertical reference datum is the North American Vertical Datum of 1988 (NAVD88).
4. Soil cleanup objectives (SCOs) reflect the lower of the restricted use SCOs for protection of public health (restricted residential use) or protection of groundwater, as set forth in Table 375-6.8(b) of 6 NYCRR 375.
5. Bolded sample concentrations denote detected parameters.
6. Gray shading denotes sample concentrations that exceed the applicable SCOs.
7. --: No SCO is listed in Table 375-6.8(b) of 6 NYCRR 375 for this parameter.
8. bgs: below ground surface.

Data Qualifiers:

1. J: Concentration is less than the reporting limit (RL), but greater than or equal to the method detection limit. The reported concentration is an estimate.
2. R: Sample result has been rejected.
3. U: Parameter was not detected in the sample. The reported concentration is the RL.
4. UJ: Parameter was not detected above the reported RL. However, the reported RL is approximate and may or may not represent the actual RL.

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-17	CGSB-17	CGSB-17	CGSB-17
Sample ID:		CGSB-17 11-14	CGSBXX040103	CGSB-17 37-38	CGSB-17 60-62
Sample Interval (feet bgs):		11.00 to 14.00	11.00 to 14.00	37.00 to 38.00	60.00 to 62.00
Sample Interval (feet NAVD88):	Soil Cleanup	3.48 to 0.48	3.48 to 0.48	-22.52 to -23.52	-45.52 to -47.52
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	4/1/2003
Volatile Organic Compounds					
Acetone	0.05	1.7 UJ	6.9 UJ	35 UJ	0.012 U
Benzene	0.06	0.67 U	**0.38 J**	**210**	**0.004 J**
Bromodichloromethane	--	0.67 U	2.8 U	14 U	0.006 U
Bromoform	--	0.67 U	2.8 U	14 U	0.006 U
Bromomethane	--	0.67 UJ	2.8 UJ	14 U	0.006 U
Butanone, 2-	0.12	0.67 U	2.8 U	14 U	0.012 U
Carbon disulfide	--	0.67 U	2.8 U	14 U	0.006 UJ
Carbon tetrachloride	0.76	0.67 U	2.8 U	14 U	0.006 U
Chlorobenzene	1.1	0.67 U	2.8 U	14 U	0.006 U
Chloroethane	--	0.67 U	2.8 U	14 U	0.006 UJ
Chloroform	0.37	0.67 U	2.8 U	14 U	0.006 U
Chloromethane	--	0.67 U	2.8 U	14 U	0.006 U
Dibromochloromethane	--	0.67 U	2.8 U	14 U	0.006 U
Dichloroethane, 1,1-	0.27	0.67 U	2.8 U	14 U	0.006 U
Dichloroethane, 1,2-	0.02	0.67 U	2.8 U	14 U	0.006 U
Dichloroethene, 1,1-	0.33	0.67 U	2.8 U	14 U	0.006 U
Dichloroethene, cis-1,2-	0.25	0.67 U	2.8 U	14 U	0.006 U
Dichloroethene, trans-1,2-	0.19	0.67 U	2.8 U	14 U	0.006 U
Dichloropropane, 1,2-	--	0.67 U	2.8 U	14 U	0.006 U
Dichloropropene, cis-1,3-	--	0.67 U	2.8 U	14 U	0.006 U
Dichloropropene, trans-1,3-	--	0.67 U	2.8 U	14 U	0.006 U
Ethylbenzene	1	**4.6 J**	**94 J**	**470**	**0.004 J**
Hexanone, 2-	--	0.67 UJ	2.8 UJ	14 UJ	0.012 U
Methyl-2-pentanone, 4-	--	0.67 U	2.8 U	14 U	0.012 U
Methylene chloride	0.05	0.67 U	2.8 U	14 U	0.006 U
Styrene	--	0.67 U	2.8 U	**450**	0.006 U
Tetrachloroethane, 1,1,2,2-	--	0.67 U	2.8 U	14 U	0.006 U
Tetrachloroethene	1.3	0.67 U	2.8 U	14 U	0.006 U
Toluene	0.7	**0.23 J**	**4.7 J**	**390**	**0.002 J**
Trichloroethane, 1,1,1-	0.68	0.67 U	2.8 U	14 U	0.006 U
Trichloroethane, 1,1,2-	--	0.67 U	2.8 U	14 U	0.006 U
Trichloroethene	0.47	0.67 U	2.8 U	14 U	0.006 U
Vinyl acetate	--	0.67 U	2.8 U	14 U	0.006 U
Vinyl chloride	0.02	0.67 U	2.8 U	14 U	0.006 U
Xylenes, Total	1.6	**7.2 J**	**130 J**	**1,000**	0.006 U
Semivolatile Organic Compounds					
Acenaphthene	98	22 U	**1.3 J**	290 U	**0.075 J**
Acenaphthylene	100	22 U	**0.23 J**	**130 J**	**0.016 J**
Anthracene	100	22 U	**0.17 J**	**55 J**	**0.031 J**
Benzo(a)anthracene	1	22 U	**0.32 J**	**42 J**	0.37 U
Benzo(a)pyrene	1	22 U	**0.33 J**	290 U	0.37 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-17	CGSB-17	CGSB-17	CGSB-17
Sample ID:		CGSB-17 11-14	CGSBXX040103	CGSB-17 37-38	CGSB-17 60-62
Sample Interval (feet bgs):		11.00 to 14.00	11.00 to 14.00	37.00 to 38.00	60.00 to 62.00
Sample Interval (feet NAVD88):	Soil Cleanup	3.48 to 0.48	3.48 to 0.48	-22.52 to -23.52	-45.52 to -47.52
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	4/1/2003
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	22 U	**0.26 J**	290 U	0.37 U
Benzo(g,h,i)perylene	100	22 U	**0.1 J**	290 U	0.37 U
Benzo(k)fluoranthene	1.7	22 U	**0.3 J**	290 U	0.37 U
Benzoic acid	--	110 UJ	7.1 UJ	1,400 UJ	1.8 UJ
Benzyl alcohol	--	22 U	1.5 U	290 U	0.37 U
Bis(2-chloroethoxy)methane	--	22 U	1.5 U	290 U	0.37 U
Bis(2-chloroethyl)ether	--	22 U	1.5 U	290 U	0.37 U
Bis(2-ethylhexyl)phthalate	--	22 U	1.5 U	290 U	0.37 U
Bis(chloroisopropyl)ether	--	22 U	1.5 U	290 U	0.37 U
Bromophenyl phenyl ether, 4-	--	22 U	1.5 U	290 U	0.37 U
Butyl benzyl phthalate	--	22 U	1.5 U	290 U	0.37 U
Carbazole	--	22 U	1.5 U	290 U	0.37 U
Chloro-3-methylphenol, 4-	--	22 U	1.5 U	290 U	0.37 U
Chloroaniline, 4-	--	22 U	1.5 UJ	290 UJ	0.37 UJ
Chloronaphthalene, 2-	--	22 U	1.5 U	290 U	0.37 U
Chlorophenol, 2-	--	22 U	1.5 U	290 U	0.37 U
Chlorophenyl phenyl ether, 4-	--	22 U	1.5 U	290 U	0.37 U
Chrysene	1	22 U	**0.32 J**	**40 J**	0.37 U
Dibenzo(a,h)anthracene	0.33	22 U	1.5 U	290 U	0.37 U
Dibenzofuran	59	22 U	1.5 U	290 U	0.37 U
Dichlorobenzene, 1,2-	1.1	22 U	1.5 U	290 U	0.37 U
Dichlorobenzene, 1,3-	2.4	22 U	1.5 U	290 U	0.37 U
Dichlorobenzene, 1,4-	1.8	22 U	1.5 U	290 U	0.37 U
Dichlorobenzidine, 3,3-	--	44 UJ	2.9 UJ	590 UJ	0.75 UJ
Dichlorophenol, 2,4-	--	22 U	1.5 U	290 U	0.37 U
Diethyl phthalate	--	22 U	1.5 U	290 U	0.37 U
Dimethylphenol, 2,4-	--	22 U	1.5 UJ	290 UJ	0.37 UJ
Dimethyl phthalate	--	22 U	1.5 U	290 U	0.37 U
Di-n-butyl phthalate	--	22 U	1.5 U	290 U	0.37 U
Di-n-octyl phthalate	--	22 U	1.5 U	290 U	0.37 U
Dinitro-2-methylphenol, 4,6-	--	110 U	7.1 U	1,400 U	1.8 U
Dinitrophenol, 2,4-	--	110 U	7.1 U	1,400 U	1.8 U
Dinitrotoluene, 2,4-	--	22 U	1.5 U	290 U	0.37 U
Dinitrotoluene, 2,6-	--	22 U	1.5 U	290 U	0.37 U
Fluoranthene	100	22 U	**0.63 J**	**67 J**	0.37 U
Fluorene	100	22 U	**0.42 J**	290 U	**0.06 J**
Hexachlorobenzene	1.2	22 U	1.5 U	290 U	0.37 U
Hexachlorobutadiene	--	22 U	1.5 U	290 U	0.37 UJ
Hexachlorocyclopentadiene	--	22 UJ	1.5 UJ	290 UJ	0.37 U
Hexachloroethane	--	22 U	1.5 U	290 U	0.37 U
Indeno(1,2,3-cd)pyrene	0.5	22 U	**0.13 J**	290 U	0.37 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-17	CGSB-17	CGSB-17	CGSB-17
Sample ID:		CGSB-17 11-14	CGSBXX040103	CGSB-17 37-38	CGSB-17 60-62
Sample Interval (feet bgs):		11.00 to 14.00	11.00 to 14.00	37.00 to 38.00	60.00 to 62.00
Sample Interval (feet NAVD88):	Soil Cleanup	3.48 to 0.48	3.48 to 0.48	-22.52 to -23.52	-45.52 to -47.52
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	4/1/2003
Semivolatile Organic Compounds (continued)					
Isophorone	--	22 U	1.5 U	290 U	0.37 U
Methylnaphthalene, 2-	--	**24 J**	**1.1 J**	**410**	**0.04 J**
Methylphenol, 2-	0.33	22 U	1.5 U	290 U	0.37 U
Methylphenol, 4-	0.33	22 U	1.5 U	290 U	0.37 U
Naphthalene	12	**130 J**	**6 J**	**1,700**	**0.11 J**
Nitroaniline, 2-	--	110 U	7.1 U	1,400 U	1.8 U
Nitroaniline, 3-	--	110 U	7.1 U	1,400 U	1.8 U
Nitroaniline, 4-	--	44 U	2.9 U	590 U	0.75 U
Nitrobenzene	--	22 U	1.5 U	290 U	0.37 U
Nitrophenol, 2-	--	22 U	1.5 U	290 U	0.37 U
Nitrophenol, 4-	--	110 U	7.1 U	1,400 U	1.8 U
N-Nitrosodi-n-propylamine	--	22 U	1.5 U	290 U	0.37 U
N-Nitrosodiphenylamine	--	22 U	1.5 U	290 U	0.37 U
Oxybis(1-chloropropane), 2,2'-	--	NA	NA	NA	NA
Pentachlorophenol	0.8	110 UJ	7.1 UJ	1,400 UJ	1.8 UJ
Phenanthrene	100	22 U	**0.27 J**	**190 J**	**0.11 J**
Phenol	0.33	22 U	1.5 U	290 U	0.37 U
Pyrene	100	22 U	**0.55 J**	**87 J**	0.37 U
Trichlorobenzene, 1,2,4-	--	22 U	1.5 U	290 U	0.37 U
Trichlorophenol, 2,4,5-	--	110 U	7.1 U	1,400 U	1.8 U
Trichlorophenol, 2,4,6-	--	22 U	1.5 U	290 U	0.37 U
Metals					
Arsenic	16	**9.1**	**5.8**	**2.3**	**1.4 J**
Barium	400	**303 J**	**28.2 J**	**43.5**	**20.1**
Cadmium	4.3	2.8 U	2.4 U	2.6 U	2.6 U
Chromium	19	**19.7 J**	**10.2 J**	**7.6**	**7.5**
Lead	400	**347 J**	**16.3 J**	**5.2 J**	**4.9 J**
Mercury	0.73	**0.54 J**	**0.072 J**	1.7 U	1.6 U
Selenium	4	14.7 U	12.7 U	13.8 U	14 U
Silver	8.3	2.8 U	2.4 U	2.6 U	2.6 U
Total Cyanide					
Cyanide, Total	27	**0.569 J**	**218 J**	0.551 U	0.577 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-18	CGSB-18	CGSB-18	CGSB-19
Sample ID:		CGSB-18 21-23	CGSB-18 29-31	CGSB-18 65-67	CGSB-19 11-12
Sample Interval (feet bgs):		21.00 to 23.00	29.00 to 31.00	65.00 to 67.00	11.00 to 12.00
Sample Interval (feet NAVD88):	Soil Cleanup	0.42 to -1.58	-7.58 to -9.58	-43.58 to -45.58	15.40 to 14.40
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	4/2/2003
Volatile Organic Compounds					
Acetone	0.05	7.1 UJ	1.5 UJ	**0.011 J**	0.012 U
Benzene	0.06	**1.8 J**	0.58 U	**0.001 J**	**0.008**
Bromodichloromethane	--	2.9 U	0.58 U	0.006 U	0.006 U
Bromoform	--	2.9 U	0.58 U	0.006 U	0.006 U
Bromomethane	--	2.9 UJ	0.58 UJ	0.006 U	0.006 U
Butanone, 2-	0.12	2.9 U	0.58 U	0.012 U	0.012 U
Carbon disulfide	--	2.9 U	0.58 U	0.006 U	**0.003 J**
Carbon tetrachloride	0.76	2.9 U	0.58 U	0.006 U	0.006 U
Chlorobenzene	1.1	2.9 U	0.58 U	0.006 U	0.006 U
Chloroethane	--	2.9 U	0.58 U	0.006 UJ	0.006 UJ
Chloroform	0.37	2.9 U	0.58 U	0.006 U	0.006 U
Chloromethane	--	2.9 U	0.58 U	0.006 U	0.006 U
Dibromochloromethane	--	2.9 U	0.58 U	0.006 U	0.006 U
Dichloroethane, 1,1-	0.27	2.9 U	0.58 U	0.006 U	0.006 U
Dichloroethane, 1,2-	0.02	2.9 U	0.58 U	0.006 U	0.006 U
Dichloroethene, 1,1-	0.33	2.9 U	0.58 U	0.006 U	0.006 U
Dichloroethene, cis-1,2-	0.25	2.9 U	0.58 U	0.006 U	0.006 U
Dichloroethene, trans-1,2-	0.19	2.9 U	0.58 U	0.006 U	0.006 U
Dichloropropane, 1,2-	--	2.9 U	0.58 U	0.006 U	0.006 U
Dichloropropene, cis-1,3-	--	2.9 U	0.58 U	0.006 U	0.006 U
Dichloropropene, trans-1,3-	--	2.9 U	0.58 U	0.006 U	0.006 U
Ethylbenzene	1	**70**	**1**	**0.003 J**	0.006 U
Hexanone, 2-	--	2.9 UJ	0.58 UJ	0.012 U	0.012 U
Methyl-2-pentanone, 4-	--	2.9 U	0.58 U	0.012 U	0.012 U
Methylene chloride	0.05	2.9 U	0.58 U	0.006 U	0.01 U
Styrene	--	**28**	**0.48 J**	**0.006**	0.006 U
Tetrachloroethane, 1,1,2,2-	--	2.9 U	0.58 U	0.006 U	0.006 UJ
Tetrachloroethene	1.3	2.9 U	0.58 U	0.006 U	0.006 U
Toluene	0.7	**7.4**	**0.36 J**	**0.005 J**	**0.003 J**
Trichloroethane, 1,1,1-	0.68	2.9 U	0.58 U	0.006 U	0.006 U
Trichloroethane, 1,1,2-	--	2.9 U	0.58 U	0.006 U	0.006 U
Trichloroethene	0.47	2.9 U	0.58 U	0.006 U	0.006 U
Vinyl acetate	--	2.9 U	0.58 U	0.006 U	0.006 U
Vinyl chloride	0.02	2.9 U	0.58 U	0.006 U	0.006 U
Xylenes, Total	1.6	**130**	**1.8**	**0.006 J**	0.006 U
Semivolatile Organic Compounds					
Acenaphthene	98	75 U	**5 J**	0.4 U	1.5 U
Acenaphthylene	100	**9.7 J**	**1.6 J**	**0.043 J**	**2.6**
Anthracene	100	75 U	**4 J**	**0.029 J**	**1.8**
Benzo(a)anthracene	1	75 U	**2.8 J**	0.4 U	**4.6**
Benzo(a)pyrene	1	75 U	**2.1 J**	0.4 U	**5.9**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-18	CGSB-18	CGSB-18	CGSB-19
Sample ID:		CGSB-18 21-23	CGSB-18 29-31	CGSB-18 65-67	CGSB-19 11-12
Sample Interval (feet bgs):		21.00 to 23.00	29.00 to 31.00	65.00 to 67.00	11.00 to 12.00
Sample Interval (feet NAVD88):	Soil Cleanup	0.42 to -1.58	-7.58 to -9.58	-43.58 to -45.58	15.40 to 14.40
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	4/2/2003
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	75 U	**0.93 J**	0.4 U	**3.4**
Benzo(g,h,i)perylene	100	75 U	7.6 U	0.4 U	**2.8**
Benzo(k)fluoranthene	1.7	75 U	**1.4 J**	0.4 U	**3.6**
Benzoic acid	--	360 UJ	37 UJ	2 UJ	7.5 UJ
Benzyl alcohol	--	75 U	7.6 U	0.4 U	1.5 U
Bis(2-chloroethoxy)methane	--	75 U	7.6 U	0.4 U	1.5 U
Bis(2-chloroethyl)ether	--	75 U	7.6 U	0.4 U	1.5 U
Bis(2-ethylhexyl)phthalate	--	75 U	7.6 U	0.4 U	1.5 U
Bis(chloroisopropyl)ether	--	75 U	7.6 U	0.4 U	1.5 U
Bromophenyl phenyl ether, 4-	--	75 U	7.6 U	0.4 U	1.5 U
Butyl benzyl phthalate	--	75 U	7.6 U	0.4 U	1.5 U
Carbazole	--	75 U	7.6 U	0.4 U	1.5 U
Chloro-3-methylphenol, 4-	--	75 U	7.6 U	0.4 U	1.5 U
Chloroaniline, 4-	--	75 UJ	7.6 UJ	0.4 UJ	1.5 UJ
Chloronaphthalene, 2-	--	75 U	7.6 U	0.4 U	1.5 U
Chlorophenol, 2-	--	75 U	7.6 U	0.4 U	1.5 U
Chlorophenyl phenyl ether, 4-	--	75 U	7.6 U	0.4 U	1.5 U
Chrysene	1	75 U	**2.7 J**	0.4 U	**4.8**
Dibenzo(a,h)anthracene	0.33	75 U	7.6 U	0.4 U	**1.1 J**
Dibenzofuran	59	75 U	7.6 U	0.4 U	1.5 U
Dichlorobenzene, 1,2-	1.1	75 U	7.6 U	0.4 U	1.5 U
Dichlorobenzene, 1,3-	2.4	75 U	7.6 U	0.4 U	1.5 U
Dichlorobenzene, 1,4-	1.8	75 U	7.6 U	0.4 U	1.5 U
Dichlorobenzidine, 3,3-	--	150 UJ	15 UJ	0.81 UJ	3.1 UJ
Dichlorophenol, 2,4-	--	75 U	7.6 U	0.4 U	1.5 U
Diethyl phthalate	--	75 U	7.6 U	0.4 U	1.5 U
Dimethylphenol, 2,4-	--	75 UJ	7.6 UJ	0.4 UJ	1.5 UJ
Dimethyl phthalate	--	75 U	7.6 U	0.4 U	1.5 U
Di-n-butyl phthalate	--	75 U	7.6 U	0.4 U	1.5 U
Di-n-octyl phthalate	--	75 U	7.6 U	0.4 U	1.5 U
Dinitro-2-methylphenol, 4,6-	--	360 U	37 U	2 U	7.5 U
Dinitrophenol, 2,4-	--	360 U	37 U	2 U	7.5 U
Dinitrotoluene, 2,4-	--	75 U	7.6 U	0.4 U	1.5 U
Dinitrotoluene, 2,6-	--	75 U	7.6 U	0.4 U	1.5 U
Fluoranthene	100	75 U	**4.6 J**	0.4 U	**5.9**
Fluorene	100	75 U	**2.3 J**	0.4 U	1.5 U
Hexachlorobenzene	1.2	75 U	7.6 U	0.4 U	1.5 U
Hexachlorobutadiene	--	75 U	7.6 U	0.4 U	1.5 U
Hexachlorocyclopentadiene	--	75 UJ	7.6 UJ	0.4 UJ	1.5 UJ
Hexachloroethane	--	75 U	7.6 U	0.4 U	1.5 U
Indeno(1,2,3-cd)pyrene	0.5	75 U	7.6 U	0.4 U	**2.4**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-18	CGSB-18	CGSB-18	CGSB-19
Sample ID:		CGSB-18 21-23	CGSB-18 29-31	CGSB-18 65-67	CGSB-19 11-12
Sample Interval (feet bgs):		21.00 to 23.00	29.00 to 31.00	65.00 to 67.00	11.00 to 12.00
Sample Interval (feet NAVD88):	Soil Cleanup	0.42 to -1.58	-7.58 to -9.58	-43.58 to -45.58	15.40 to 14.40
Parameter / Sample Date:	Objective[3]	4/1/2003	4/1/2003	4/1/2003	4/2/2003
Semivolatile Organic Compounds (continued)					
Isophorone	--	75 U	7.6 U	0.4 U	1.5 U
Methylnaphthalene, 2-	--	**74 J**	**1.9 J**	0.4 U	**0.65 J**
Methylphenol, 2-	0.33	75 U	7.6 U	**0.023 J**	1.5 U
Methylphenol, 4-	0.33	75 U	7.6 U	**0.025 J**	1.5 U
Naphthalene	12	**470**	**34**	**0.26 J**	**1.7**
Nitroaniline, 2-	--	360 U	37 U	2 U	7.5 U
Nitroaniline, 3-	--	360 U	37 U	2 U	7.5 U
Nitroaniline, 4-	--	150 U	15 U	0.81 U	3.1 U
Nitrobenzene	--	75 U	7.6 U	0.4 U	1.5 U
Nitrophenol, 2-	--	75 U	7.6 U	0.4 U	1.5 U
Nitrophenol, 4-	--	360 U	37 U	2 U	7.5 U
N-Nitrosodi-n-propylamine	--	75 U	7.6 U	0.4 U	1.5 U
N-Nitrosodiphenylamine	--	75 U	7.6 U	0.4 U	1.5 U
Oxybis(1-chloropropane), 2,2'-	--	NA	NA	NA	NA
Pentachlorophenol	0.8	360 UJ	37 UJ	2 UJ	7.5 UJ
Phenanthrene	100	75 U	**12**	**0.037**	**4**
Phenol	0.33	75 U	7.6 U	0.4 U	1.5 U
Pyrene	100	75 U	**5.9 J**	0.4 U	**10**
Trichlorobenzene, 1,2,4-	--	75 U	7.6 U	0.4 U	1.5 U
Trichlorophenol, 2,4,5-	--	360 U	37 U	2 U	7.5 U
Trichlorophenol, 2,4,6-	--	75 U	7.6 U	0.4 U	1.5 U
Metals					
Arsenic	16	**3.3**	**1.9**	**1.5 J**	**4**
Barium	400	**35**	**25.6**	**31.4**	**41.5**
Cadmium	4.3	2.5 U	2.3 U	2.6 U	2.5 U
Chromium	19	**15.6**	**7.6**	**6.3**	**3.9**
Lead	400	**9.7 J**	**4.1 J**	**2.4 J**	**20.8 J**
Mercury	0.73	1.6 U	2 U	1.8 U	**0.042 J**
Selenium	4	13.4 U	12.1 U	13.6 U	13.6 U
Silver	8.3	2.5 U	2.3 U	2.6 U	2.5 U
Total Cyanide					
Cyanide, Total	27	**0.0985 J**	0.569 U	0.613 U	**0.349**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-19	CGSB-19	CGSB-40	CGSB-40
Sample ID:		CGSB-19 57-58	CGSB-19 63-64	CGSB-40 21-21.5	CGSB-40 39-40
Sample Interval (feet bgs):		57.00 to 58.00	63.00 to 64.00	21.00 to 21.50	39.00 to 40.00
Sample Interval (feet NAVD88):	Soil Cleanup	-30.60 to -31.60	-36.60 to -37.60	2.58 to 2.08	-15.42 to -16.42
Parameter / Sample Date:	Objective[3]	4/2/2003	4/2/2003	12/13/2004	12/13/2004
Volatile Organic Compounds					
Acetone	0.05	**0.011 J**	0.011 U	57 U	28 U
Benzene	0.06	**0.005 J**	**0.002 J**	**13 J**	11 U
Bromodichloromethane	--	0.006 U	0.006 U	23 U	11 U
Bromoform	--	0.006 U	0.006 U	23 U	11 U
Bromomethane	--	0.006 U	0.006 U	23 U	11 U
Butanone, 2-	0.12	0.012 U	0.011 U	23 U	**5.1 J**
Carbon disulfide	--	0.006 UJ	0.006 U J	23 U	11 U
Carbon tetrachloride	0.76	0.006 U	0.006 U	23 U	11 U
Chlorobenzene	1.1	0.006 U	0.006 U	23 U	11 U
Chloroethane	--	0.006 UJ	0.006 UJ	23 U	R
Chloroform	0.37	0.006 U	0.006 U	23 U	11 U
Chloromethane	--	0.006 U	0.006 U	23 U	11 U
Dibromochloromethane	--	0.006 U	0.006 U	23 U	11 U
Dichloroethane, 1,1-	0.27	0.006 U	0.006 U	23 U	11 U
Dichloroethane, 1,2-	0.02	0.006 U	0.006 U	23 U	11 U
Dichloroethene, 1,1-	0.33	0.006 U	0.006 U	23 U	11 U
Dichloroethene, cis-1,2-	0.25	0.006 U	0.006 U	23 U	11 U
Dichloroethene, trans-1,2-	0.19	0.006 U	0.006 U	23 U	11 U
Dichloropropane, 1,2-	--	0.006 U	0.006 U	23 U	11 U
Dichloropropene, cis-1,3-	--	0.006 U	0.006 U	23 U	11 U
Dichloropropene, trans-1,3-	--	0.006 U	0.006 U	23 U	11 U
Ethylbenzene	1	**0.002 J**	**0.001 J**	**280**	**210**
Hexanone, 2-	--	0.012 U	0.011 U	23 U	11 U
Methyl-2-pentanone, 4-	--	0.012 U	0.011 U	23 U	11 U
Methylene chloride	0.05	0.007 U	0.006 U	23 U	11 U
Styrene	--	**0.003 J**	**0.0008 J**	**610**	**11 J**
Tetrachloroethane, 1,1,2,2-	--	0.006 U	0.006 U	23 U	11 U
Tetrachloroethene	1.3	0.006 U	0.006 U	23 U	11 U
Toluene	0.7	**0.004 J**	**0.001 J**	**370**	**150**
Trichloroethane, 1,1,1-	0.68	0.006 U	0.006 U	23 U	11 U
Trichloroethane, 1,1,2-	--	0.006 U	0.006 U	23 U	11 U
Trichloroethene	0.47	0.006 U	0.006 U	23 U	11 U
Vinyl acetate	--	0.006 U	0.006 U	NA	NA
Vinyl chloride	0.02	0.006 U	0.006 U	23 U	11 U
Xylenes, Total	1.6	**0.004 J**	**0.002 J**	**880 J**	**260**
Semivolatile Organic Compounds					
Acenaphthene	98	0.39 U	0.37 U	75 U	73 U
Acenaphthylene	100	**0.027 J**	**0.02 J**	75 U	**37 J**
Anthracene	100	0.39 U	**0.014 J**	75 U	**15 J**
Benzo(a)anthracene	1	0.39 U	0.37 U	75 U	73 U
Benzo(a)pyrene	1	0.39 U	0.37 U	75 U	73 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-19	CGSB-19	CGSB-40	CGSB-40
Sample ID:		CGSB-19 57-58	CGSB-19 63-64	CGSB-40 21-21.5	CGSB-40 39-40
Sample Interval (feet bgs):		57.00 to 58.00	63.00 to 64.00	21.00 to 21.50	39.00 to 40.00
Sample Interval (feet NAVD88):	Soil Cleanup	-30.60 to -31.60	-36.60 to -37.60	2.58 to 2.08	-15.42 to -16.42
Parameter / Sample Date:	Objective[3]	4/2/2003	4/2/2003	12/13/2004	12/13/2004
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	0.39 U	0.37 U	75 U	73 U
Benzo(g,h,i)perylene	100	0.39 U	0.37 U	75 U	73 U
Benzo(k)fluoranthene	1.7	0.39 U	0.37 U	75 U	73 U
Benzoic acid	--	1.9 UJ	1.8 UJ	NA	NA
Benzyl alcohol	--	0.39 U	0.37 U	75 U	73 U
Bis(2-chloroethoxy)methane	--	0.39 U	0.37 U	75 U	73 U
Bis(2-chloroethyl)ether	--	0.39 U	0.37 U	75 U	73 U
Bis(2-ethylhexyl)phthalate	--	0.39 U	0.37 U	75 U	73 U
Bis(chloroisopropyl)ether	--	0.39 U	0.37 U	75 U	73 U
Bromophenyl phenyl ether, 4-	--	0.39 U	0.37 U	75 U	73 U
Butyl benzyl phthalate	--	0.39 U	0.37 U	75 U	73 U
Carbazole	--	0.39 U	0.37 U	75 U	73 U
Chloro-3-methylphenol, 4-	--	0.39 U	0.37 U	75 U	73 U
Chloroaniline, 4-	--	0.39 UJ	0.37 UJ	75 U	73 U
Chloronaphthalene, 2-	--	0.39 U	0.37 U	75 U	73 U
Chlorophenol, 2-	--	0.39 U	0.37 U	75 U	73 U
Chlorophenyl phenyl ether, 4-	--	0.39 U	0.37 U	75 U	73 U
Chrysene	1	0.39 U	0.37 U	75 U	**10 J**
Dibenzo(a,h)anthracene	0.33	0.39 U	0.37 U	75 U	73 U
Dibenzofuran	59	0.39 U	0.37 U	75 U	73 U
Dichlorobenzene, 1,2-	1.1	0.39 U	0.37 U	75 U	73 U
Dichlorobenzene, 1,3-	2.4	0.39 U	0.37 U	75 U	73 U
Dichlorobenzene, 1,4-	1.8	0.39 U	0.37 U	75 U	73 U
Dichlorobenzidine, 3,3-	--	0.78 UJ	0.74 UJ	150 U	150 U
Dichlorophenol, 2,4-	--	0.39 U	0.37 U	75 U	73 U
Diethyl phthalate	--	0.39 U	0.37 U	75 U	73 U
Dimethylphenol, 2,4-	--	0.39 UJ	0.37 UJ	75 U	73 U
Dimethyl phthalate	--	0.39 U	0.37 U	75 U	73 U
Di-n-butyl phthalate	--	0.39 U	0.37 U	75 U	73 U
Di-n-octyl phthalate	--	0.39 U	0.37 U	75 U	73 U
Dinitro-2-methylphenol, 4,6-	--	1.9 U	1.8 U	360 UJ	360 U
Dinitrophenol, 2,4-	--	1.9 U	1.8 U	360 UJ	360 U
Dinitrotoluene, 2,4-	--	0.39 U	0.37 U	75 U	73 U
Dinitrotoluene, 2,6-	--	0.39 U	0.37 U	75 U	73 U
Fluoranthene	100	0.39 U	0.37 U	75 U	**17 J**
Fluorene	100	0.39 U	0.37 U	75 U	**19 J**
Hexachlorobenzene	1.2	0.39 U	0.37 U	75 U	73 U
Hexachlorobutadiene	--	0.39 U	0.37 U	75 U	73 U
Hexachlorocyclopentadiene	--	0.39 UJ	0.37 UJ	75 UJ	73 U
Hexachloroethane	--	0.39 U	0.37 U	75 U	73 U
Indeno(1,2,3-cd)pyrene	0.5	0.39 U	0.37 U	75 U	73 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-19	CGSB-19	CGSB-40	CGSB-40
Sample ID:		CGSB-19 57-58	CGSB-19 63-64	CGSB-40 21-21.5	CGSB-40 39-40
Sample Interval (feet bgs):		57.00 to 58.00	63.00 to 64.00	21.00 to 21.50	39.00 to 40.00
Sample Interval (feet NAVD88):	Soil Cleanup	-30.60 to -31.60	-36.60 to -37.60	2.58 to 2.08	-15.42 to -16.42
Parameter / Sample Date:	Objective[3]	4/2/2003	4/2/2003	12/13/2004	12/13/2004
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.39 U	0.37 U	75 U	73 U
Methylnaphthalene, 2-	--	**0.074 J**	**0.041 J**	**58 J**	**97**
Methylphenol, 2-	0.33	0.39 U	0.37 U	75 U	73 U
Methylphenol, 4-	0.33	0.39 U	0.37 U	75 U	73 U
Naphthalene	12	**0.39 J**	**0.43**	**400**	**310**
Nitroaniline, 2-	--	1.9 U	1.8 U	360 U	360 U
Nitroaniline, 3-	--	1.9 U	1.8 U	360 U	360 U
Nitroaniline, 4-	--	0.78 U	0.74 U	150 U	150 U
Nitrobenzene	--	0.39 U	0.37 U	75 U	73 U
Nitrophenol, 2-	--	0.39 U	0.37 U	75 U	73 U
Nitrophenol, 4-	--	1.9 U	1.8 U	360 U	360 U
N-Nitrosodi-n-propylamine	--	0.39 U	0.37 U	75 U	73 U
N-Nitrosodiphenylamine	--	0.39 U	0.37 U	75 U	73 U
Oxybis(1-chloropropane), 2,2'-	--	NA	NA	NA	NA
Pentachlorophenol	0.8	1.9 UJ	1.8 UJ	360 U	360 U
Phenanthrene	100	0.39 U	**0.053 J**	75 U	**48 J**
Phenol	0.33	0.39 U	0.37 U	75 U	73 U
Pyrene	100	0.39 U	0.37 U	75 U	**26 J**
Trichlorobenzene, 1,2,4-	--	0.39 U	0.37 U	75 U	73 U
Trichlorophenol, 2,4,5-	--	1.9 U	1.8 U	360 U	360 U
Trichlorophenol, 2,4,6-	--	0.39 U	0.37 U	75 U	73 U
Metals					
Arsenic	16	**1**	**1.1 J**	**2.4 J**	**2.1 J**
Barium	400	**25.5**	**21**	**19.1 J**	**32.6 J**
Cadmium	4.3	2.4 U	2.1 U	3.9 U	3 U
Chromium	19	**4.7**	**4**	**13.4**	**11.7**
Lead	400	**2.5 J**	**1.8 J**	**4.8**	**7.5**
Mercury	0.73	2 U	1.5 U	0.017 U	0.013 U
Selenium	4	12.8 U	11.1 U	20.7 U	15.9 U
Silver	8.3	2.4 U	2.1 U	3.9 U	3 U
Total Cyanide					
Cyanide, Total	27	0.574 U	0.541 U	0.552 UJ	0.561 UJ

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-40	CGSB-41	CGSB-41	CGSB-41
Sample ID:		CGSB-40 58-59	CGSB-41 30-30.5	CGSB-41 38-38.5	CGSB-41 56-56.5
Sample Interval (feet bgs):		58.00 to 59.00	30.00 to 30.50	38.00 to 38.50	56.00 to 56.50
Sample Interval (feet NAVD88):	Soil Cleanup	-34.42 to -35.42	-11.14 to -11.64	-19.14 to -19.64	-37.14 to -37.64
Parameter / Sample Date:	Objective[3]	12/13/2004	12/8/2004	12/8/2004	12/8/2004
Volatile Organic Compounds					
Acetone	0.05	0.012 UJ	7.4 U	3 U	0.012 U
Benzene	0.06	**0.0052 J**	3 U	**0.14 J**	0.0058 U
Bromodichloromethane	--	0.0062 U	3 U	1.2 U	0.0058 U
Bromoform	--	0.0062 U	3 U	1.2 U	0.0058 U
Bromomethane	--	0.0062 U	3 UJ	1.2 UJ	0.0058 U
Butanone, 2-	0.12	0.012 U	3 U	1.2 U	0.012 UJ
Carbon disulfide	--	0.0062 U	3 U	1.2 U	**0.0093**
Carbon tetrachloride	0.76	0.0062 U	3 U	1.2 U	0.0058 UJ
Chlorobenzene	1.1	0.0062 U	3 U	1.2 U	0.0058 U
Chloroethane	--	0.0062 U	3 U	1.2 U	0.0058 UJ
Chloroform	0.37	0.0062 U	3 U	1.2 U	0.0058 U
Chloromethane	--	0.0062 U	3 U	1.2 U	0.0058 U
Dibromochloromethane	--	0.0062 U	3 U	1.2 U	0.0058 U
Dichloroethane, 1,1-	0.27	0.0062 U	3 U	1.2 U	0.0058 U
Dichloroethane, 1,2-	0.02	0.0062 U	3 U	1.2 U	0.0058 U
Dichloroethene, 1,1-	0.33	0.0062 U	3 U	1.2 U	0.0058 U
Dichloroethene, cis-1,2-	0.25	0.0062 U	3 U	1.2 U	0.0058 U
Dichloroethene, trans-1,2-	0.19	0.0062 U	3 U	1.2 U	0.0058 U
Dichloropropane, 1,2-	--	0.0062 U	3 U	1.2 U	0.0058 U
Dichloropropene, cis-1,3-	--	0.0062 U	3 U	1.2 U	0.0058 U
Dichloropropene, trans-1,3-	--	0.0062 U	3 U	1.2 U	0.0058 U
Ethylbenzene	1	0.0062 U	10	**11**	**0.0015 J**
Hexanone, 2-	--	0.012 U	3 U	1.2 U	0.012 U
Methyl-2-pentanone, 4-	--	0.012 U	3 U	1.2 U	0.012 U
Methylene chloride	0.05	0.0062 UJ	3 U	1.2 U	0.0058 U
Styrene	--	0.0062 U	**1.8 J**	**2.4**	0.0058 U
Tetrachloroethane, 1,1,2,2-	--	0.0062 U	3 U	1.2 U	0.0058 U
Tetrachloroethene	1.3	0.0062 U	3 U	1.2 U	0.0058 U
Toluene	0.7	**0.013**	3 U	**4.6**	0.0058 U
Trichloroethane, 1,1,1-	0.68	0.0062 U	3 U	1.2 U	0.0058 U
Trichloroethane, 1,1,2-	--	0.0062 U	3 U	1.2 U	0.0058 U
Trichloroethene	0.47	0.0062 U	3 U	1.2 U	0.0058 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0062 U	3 U	1.2 U	0.0058 U
Xylenes, Total	1.6	0.0062 U	**55 J**	**44 J**	**0.0015 J**
Semivolatile Organic Compounds					
Acenaphthene	98	0.41 U	19 U	19 U	0.38 U
Acenaphthylene	100	**0.11 J**	19 U	19 U	0.38 U
Anthracene	100	**0.075 J**	19 U	19 U	0.38 U
Benzo(a)anthracene	1	0.41 U	19 U	19 U	0.38 U
Benzo(a)pyrene	1	0.41 U	19 U	19 U	0.38 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-40	CGSB-41	CGSB-41	CGSB-41
Sample ID:		CGSB-40 58-59	CGSB-41 30-30.5	CGSB-41 38-38.5	CGSB-41 56-56.5
Sample Interval (feet bgs):		58.00 to 59.00	30.00 to 30.50	38.00 to 38.50	56.00 to 56.50
Sample Interval (feet NAVD88):	Soil Cleanup	-34.42 to -35.42	-11.14 to -11.64	-19.14 to -19.64	-37.14 to -37.64
Parameter / Sample Date:	Objective[3]	12/13/2004	12/8/2004	12/8/2004	12/8/2004
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	0.41 U	19 U	19 U	0.38 U
Benzo(g,h,i)perylene	100	0.41 U	19 U	19 U	0.38 U
Benzo(k)fluoranthene	1.7	0.41 U	19 U	19 U	0.38 U
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	0.41 U	19 U	19 U	0.38 U
Bis(2-chloroethoxy)methane	--	0.41 U	19 U	19 U	0.38 U
Bis(2-chloroethyl)ether	--	0.41 U	19 U	19 U	0.38 U
Bis(2-ethylhexyl)phthalate	--	0.41 U	19 U	19 U	0.38 U
Bis(chloroisopropyl)ether	--	0.41 U	19 U	19 U	0.38 U
Bromophenyl phenyl ether, 4-	--	0.41 U	19 U	19 U	0.38 U
Butyl benzyl phthalate	--	0.41 U	19 U	19 U	0.38 U
Carbazole	--	0.41 U	19 U	19 U	0.38 U
Chloro-3-methylphenol, 4-	--	0.41 U	19 U	19 U	0.38 U
Chloroaniline, 4-	--	0.41 U	19 U	19 U	0.38 U
Chloronaphthalene, 2-	--	0.41 U	19 U	19 U	0.38 U
Chlorophenol, 2-	--	0.41 U	19 U	19 U	0.38 U
Chlorophenyl phenyl ether, 4-	--	0.41 U	19 U	19 U	0.38 U
Chrysene	1	0.41 U	19 U	19 U	0.38 U
Dibenzo(a,h)anthracene	0.33	0.41 U	19 U	19 U	0.38 U
Dibenzofuran	59	0.41 U	19 U	19 U	0.38 U
Dichlorobenzene, 1,2-	1.1	0.41 U	19 U	19 U	0.38 U
Dichlorobenzene, 1,3-	2.4	0.41 U	19 U	19 U	0.38 U
Dichlorobenzene, 1,4-	1.8	0.41 U	19 U	19 U	0.38 U
Dichlorobenzidine, 3,3-	--	0.81 U	38 U	39 U	0.75 U
Dichlorophenol, 2,4-	--	0.41 U	19 U	19 U	0.38 U
Diethyl phthalate	--	0.41 U	19 U	19 U	0.38 U
Dimethylphenol, 2,4-	--	0.41 U	19 U	19 U	0.38 U
Dimethyl phthalate	--	0.41 U	19 U	19 U	0.38 U
Di-n-butyl phthalate	--	0.41 U	19 U	19 U	0.38 U
Di-n-octyl phthalate	--	0.41 U	19 U	19 U	0.38 U
Dinitro-2-methylphenol, 4,6-	--	2 U	92 U	94 U	1.8 U
Dinitrophenol, 2,4-	--	2 U	92 UJ	94 U	1.8 U
Dinitrotoluene, 2,4-	--	0.41 U	19 U	19 U	0.38 U
Dinitrotoluene, 2,6-	--	0.41 U	19 U	19 U	0.38 U
Fluoranthene	100	0.41 U	19 U	19 U	0.38 U
Fluorene	100	0.41 U	19 U	19 U	0.38 U
Hexachlorobenzene	1.2	0.41 U	19 U	19 U	0.38 U
Hexachlorobutadiene	--	0.41 U	19 U	19 U	0.38 U
Hexachlorocyclopentadiene	--	0.41 UJ	19 U	19 U	0.38 U
Hexachloroethane	--	0.41 U	19 U	19 U	0.38 U
Indeno(1,2,3-cd)pyrene	0.5	0.41 U	19 U	19 U	0.38 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Investigation			
Location ID:		CGSB-40	CGSB-41	CGSB-41	CGSB-41
Sample ID:		CGSB-40 58-59	CGSB-41 30-30.5	CGSB-41 38-38.5	CGSB-41 56-56.5
Sample Interval (feet bgs):		58.00 to 59.00	30.00 to 30.50	38.00 to 38.50	56.00 to 56.50
Sample Interval (feet NAVD88):	Soil Cleanup	-34.42 to -35.42	-11.14 to -11.64	-19.14 to -19.64	-37.14 to -37.64
Parameter / Sample Date:	Objective[3]	12/13/2004	12/8/2004	12/8/2004	12/8/2004
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.41 U	19 U	19 U	0.38 U
Methylnaphthalene, 2-	--	0.41 U	**18 J**	**22**	0.38 U
Methylphenol, 2-	0.33	0.41 U	19 U	19 U	0.38 U
Methylphenol, 4-	0.33	0.41 U	19 U	19 U	0.38 U
Naphthalene	12	**0.079 J**	**100**	**120**	**0.11 J**
Nitroaniline, 2-	--	2 U	92 U	94 U	1.8 U
Nitroaniline, 3-	--	2 U	92 U	94 U	1.8 U
Nitroaniline, 4-	--	0.81 U	38 U	39 U	0.75 U
Nitrobenzene	--	0.41 U	19 U	19 U	0.38 U
Nitrophenol, 2-	--	0.41 U	19 U	19 U	0.38 U
Nitrophenol, 4-	--	2 U	92 U	94 U	1.8 U
N-Nitrosodi-n-propylamine	--	0.41 U	19 U	19 U	0.38 U
N-Nitrosodiphenylamine	--	0.41 U	19 U	19 U	0.38 U
Oxybis(1-chloropropane), 2,2'-	--	NA	NA	NA	NA
Pentachlorophenol	0.8	2 U	92 U	94 U	1.8 U
Phenanthrene	100	**0.18 J**	**4.1 J**	**6.4 J**	**0.093 J**
Phenol	0.33	0.41 U	19 U	19 U	0.38 U
Pyrene	100	0.41 U	19 U	19 U	0.38 U
Trichlorobenzene, 1,2,4-	--	0.41 U	19 U	19 U	0.38 U
Trichlorophenol, 2,4,5-	--	2 U	92 U	94 U	1.8 U
Trichlorophenol, 2,4,6-	--	0.41 U	19 U	19 U	0.38 U
Metals					
Arsenic	16	11.1 U	11.9 U	11.3 U	8.3 U
Barium	400	**29.8 J**	**38 J**	**40.7 J**	**26 J**
Cadmium	4.3	4.2 U	4.5 U	4.2 U	3.1 U
Chromium	19	**5**	**6.2**	**7.4**	**8.3**
Lead	400	**2 J**	**3**	**4.5**	**2.6**
Mercury	0.73	0.013 U	0.015 U	0.017 U	0.015 U
Selenium	4	22.2 U	23.8 U	22.6 U	16.7 U
Silver	8.3	4.2 U	4.5 U	4.2 U	3.1 U
Total Cyanide					
Cyanide, Total	27	0.62 UJ	0.573 U	0.603 U	0.578 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-10	CGGP-11	CGGP-11	CGGP-12
Sample ID:		CGGP-10_7.5-8	CGGP-11_3-4	CGGP-11_7-8	CGGP-12_3-4
Sample Interval (feet bgs):		7.50 to 8.00	3.00 to 4.00	7.00 to 8.00	3.00 to 4.00
Sample Interval (feet NAVD88):	Soil Cleanup	6.90 to 6.40	11.90 to 10.90	7.90 to 6.90	12.10 to 11.10
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Volatile Organic Compounds					
Acetone	0.05	0.55 U	2.7 U	11 U	0.0064 UB
Benzene	0.06	**0.14**	**0.75**	**1.2 J**	0.0013 U
Bromodichloromethane	--	0.11 U	0.54 U	2.3 U	0.0013 U
Bromoform	--	0.44 U	2.2 U	9 U	0.0052 U
Bromomethane	--	0.55 U	2.7 U	11 U	0.0064 U
Butanone, 2-	0.12	R	R	R	R
Carbon disulfide	--	0.55 U	2.7 U	11 U	**0.0008 J**
Carbon tetrachloride	0.76	0.22 U	1.1 U	4.5 U	0.0026 U
Chlorobenzene	1.1	0.55 U	2.7 U	11 U	0.0064 U
Chloroethane	--	0.55 U	2.7 U	11 U	0.0064 U
Chloroform	0.37	0.55 U	2.7 U	11 U	0.0064 U
Chloromethane	--	0.55 U	2.7 U	11 U	0.0064 U
Dibromochloromethane	--	0.55 U	2.7 U	11 U	0.0064 U
Dichloroethane, 1,1-	0.27	0.55 U	2.7 U	11 U	0.0064 U
Dichloroethane, 1,2-	0.02	0.22 U	1.1 U	4.5 U	0.0026 U
Dichloroethene, 1,1-	0.33	0.22 U	1.1 U	4.5 U	0.0026 U
Dichloroethene, cis-1,2-	0.25	0.55 U	2.7 U	11 U	0.0064 U
Dichloroethene, trans-1,2-	0.19	0.55 U	2.7 U	11 U	0.0064 U
Dichloropropane, 1,2-	--	0.11 U	0.54 U	2.3 U	0.0013 U
Dichloropropene, cis-1,3-	--	0.55 U	2.7 U	11 U	0.0064 U
Dichloropropene, trans-1,3-	--	0.55 U	2.7 U	11 U	0.0064 U
Ethylbenzene	1	**0.65**	**100**	**330**	**0.0008 J**
Hexanone, 2-	--	0.55 U	2.7 U	11 U	0.0064 U
Methyl-2-pentanone, 4-	--	0.55 U	2.7 U	11 U	0.0064 U
Methylene chloride	0.05	0.33 U	1.6 U	6.8 U	0.0039 UB
Styrene	--	**0.093 J**	**32**	**77**	0.0064 U
Tetrachloroethane, 1,1,2,2-	--	0.11 U	0.54 U	2.3 U	0.0013 U
Tetrachloroethene	1.3	0.11 U	0.54 U	2.3 U	0.0013 U
Toluene	0.7	**0.23 J**	**12**	**34**	0.0064 U
Trichloroethane, 1,1,1-	0.68	0.55 U	2.7 U	11 U	0.0064 U
Trichloroethane, 1,1,2-	--	0.33 U	1.6 U	6.8 U	0.0039 U
Trichloroethene	0.47	0.11 U	0.54 U	2.3 U	0.0013 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.55 U	2.7 U	11 U	0.0064 U
Xylenes, Total	1.6	**1.1**	**220**	**590**	**0.0031 J**
Semivolatile Organic Compounds					
Acenaphthene	98	**0.72 J**	74 U	79 U	**0.0098 J**
Acenaphthylene	100	7.5 U	74 U	79 U	**0.044 J**
Anthracene	100	**1.2 J**	74 U	79 U	**0.058 J**
Benzo(a)anthracene	1	**2**	7.4 U	7.9 U	**0.31**
Benzo(a)pyrene	1	0.75 U	7.4 U	7.9 U	**0.28**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-10	CGGP-11	CGGP-11	CGGP-12
Sample ID:		CGGP-10_7.5-8	CGGP-11_3-4	CGGP-11_7-8	CGGP-12_3-4
Sample Interval (feet bgs):		7.50 to 8.00	3.00 to 4.00	7.00 to 8.00	3.00 to 4.00
Sample Interval (feet NAVD88):	Soil Cleanup	6.90 to 6.40	11.90 to 10.90	7.90 to 6.90	12.10 to 11.10
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	0.75 U	7.4 UJ	7.9 U	**0.24**
Benzo(g,h,i)perylene	100	7.5 U	74 U	79 U	**0.13 J**
Benzo(k)fluoranthene	1.7	0.75 U	7.4 U	7.9 U	**0.31**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	7.5 U	74 U	79 U	0.46 U
Bis(2-chloroethyl)ether	--	0.75 U	7.4 U	7.9 U	0.046 U
Bis(2-ethylhexyl)phthalate	--	7.5 U	74 U	79 U	0.46 U
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	7.5 U	74 U	79 U	0.46 U
Butyl benzyl phthalate	--	7.5 U	74 U	79 U	0.46 U
Carbazole	--	**0.62 J**	74 U	79 U	**0.026 J**
Chloro-3-methylphenol, 4-	--	7.5 U	74 U	79 U	0.46 U
Chloroaniline, 4-	--	7.5 U	74 U	79 U	0.46 U
Chloronaphthalene, 2-	--	7.5 U	74 U	79 U	0.46 U
Chlorophenol, 2-	--	7.5 U	74 U	79 U	0.46 U
Chlorophenyl phenyl ether, 4-	--	7.5 U	74 U	79 U	0.46 U
Chrysene	1	**1.8 J**	74 U	79 U	**0.33 J**
Dibenzo(a,h)anthracene	0.33	0.75 U	7.4 U	7.9 U	**0.046**
Dibenzofuran	59	**0.78 J**	74 U	79 U	**0.01 J**
Dichlorobenzene, 1,2-	1.1	7.5 U	74 U	79 U	0.46 U
Dichlorobenzene, 1,3-	2.4	7.5 U	74 U	79 U	0.46 U
Dichlorobenzene, 1,4-	1.8	7.5 U	74 U	79 U	0.46 U
Dichlorobenzidine, 3,3-	--	15 U	150 U	160 U	0.91 U
Dichlorophenol, 2,4-	--	7.5 U	74 U	79 U	0.46 U
Diethyl phthalate	--	7.5 U	74 U	79 U	0.46 U
Dimethylphenol, 2,4-	--	7.5 U	74 U	79 U	0.46 U
Dimethyl phthalate	--	7.5 U	74 U	79 U	0.46 U
Di-n-butyl phthalate	--	7.5 U	74 U	79 U	0.46 U
Di-n-octyl phthalate	--	7.5 U	74 U	79 U	0.46 U
Dinitro-2-methylphenol, 4,6-	--	22 UJ	220 UJ	240 UJ	1.4 UJ
Dinitrophenol, 2,4-	--	R	R	R	R
Dinitrotoluene, 2,4-	--	1.5 U	15 U	16 U	0.091 U
Dinitrotoluene, 2,6-	--	1.5 U	15 U	16 U	0.091 U
Fluoranthene	100	7.5 UJ	74 U	79 U	**0.52**
Fluorene	100	**1.2 J**	74 U	79 U	0.46 U
Hexachlorobenzene	1.2	0.75 U	7.4 U	7.9 U	0.046 U
Hexachlorobutadiene	--	1.5 U	15 U	16 U	0.091 U
Hexachlorocyclopentadiene	--	7.5 U	74 U	79 U	0.46 U
Hexachloroethane	--	0.75 U	7.4 U	7.9 U	0.046 U
Indeno(1,2,3-cd)pyrene	0.5	0.75 U	7.4 U	7.9 U	**0.12**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-10	CGGP-11	CGGP-11	CGGP-12
Sample ID:		CGGP-10_7.5-8	CGGP-11_3-4	CGGP-11_7-8	CGGP-12_3-4
Sample Interval (feet bgs):		7.50 to 8.00	3.00 to 4.00	7.00 to 8.00	3.00 to 4.00
Sample Interval (feet NAVD88):	Soil Cleanup	6.90 to 6.40	11.90 to 10.90	7.90 to 6.90	12.10 to 11.10
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	7.5 U	74 U	79 U	0.46 U
Methylnaphthalene, 2-	--	**21**	**150**	**120**	**0.28 J**
Methylphenol, 2-	0.33	7.5 U	74 U	79 U	0.46 U
Methylphenol, 4-	0.33	7.5 U	74 U	79 U	0.46 U
Naphthalene	12	**110**	**1,000**	**1,000**	**1.2**
Nitroaniline, 2-	--	15 U	150 U	160 U	0.91 U
Nitroaniline, 3-	--	15 U	150 U	160 U	0.91 U
Nitroaniline, 4-	--	15 U	150 U	160 U	0.91 U
Nitrobenzene	--	0.75 U	7.4 U	7.9 U	0.046 U
Nitrophenol, 2-	--	7.5 U	74 U	79 U	0.46 U
Nitrophenol, 4-	--	22 U	220 U	240 U	1.4 U
N-Nitrosodi-n-propylamine	--	0.75 U	7.4 U	7.9 U	0.046 U
N-Nitrosodiphenylamine	--	7.5 U	74 U	79 U	0.46 U
Oxybis(1-chloropropane), 2,2'-	--	7.5 U	74 U	79 U	0.46 U
Pentachlorophenol	0.8	22 U	220 U	240 U	1.4 U
Phenanthrene	100	**5.4 J**	74 U	79 U	**0.17 J**
Phenol	0.33	7.5 U	74 U	79 U	0.46 U
Pyrene	100	7.5 UJ	74 U	79 U	**0.54**
Trichlorobenzene, 1,2,4-	--	0.75 U	7.4 U	7.9 U	0.046 U
Trichlorophenol, 2,4,5-	--	7.5 U	74 U	79 U	0.46 U
Trichlorophenol, 2,4,6-	--	7.5 U	74 U	79 U	0.46 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-12	CGGP-13	CGGP-13	CGGP-14
Sample ID:		CGGP-12_6-7	CGGP-13_3-4	CGGP-13_6-7	CGGP-14_5-6
Sample Interval (feet bgs):		6.00 to 7.00	3.00 to 4.00	6.00 to 7.00	5.00 to 6.00
Sample Interval (feet NAVD88):	Soil Cleanup	9.10 to 8.10	12.80 to 11.80	9.80 to 8.80	11.20 to 10.20
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Volatile Organic Compounds					
Acetone	0.05	0.006 UB	0.0053 UB	0.0055 UB	0.0052 UB
Benzene	0.06	0.0012 U	0.001 U	0.0011 U	0.001 U
Bromodichloromethane	--	0.0012 U	0.001 U	0.0011 U	0.001 U
Bromoform	--	0.0048 U	0.0042 U	0.0044 U	0.0042 U
Bromomethane	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Butanone, 2-	0.12	R	R	R	R
Carbon disulfide	--	**0.0009 J**	0.0053 U	0.0055 U	0.0052 U
Carbon tetrachloride	0.76	0.0024 U	0.0021 U	0.0022 U	0.0021 U
Chlorobenzene	1.1	0.006 U	0.0053 U	0.0055 U	0.0052 U
Chloroethane	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Chloroform	0.37	0.006 U	0.0053 U	0.0055 U	0.0052 U
Chloromethane	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Dibromochloromethane	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Dichloroethane, 1,1-	0.27	0.006 U	0.0053 U	0.0055 U	0.0052 U
Dichloroethane, 1,2-	0.02	0.0024 U	0.0021 U	0.0022 U	0.0021 U
Dichloroethene, 1,1-	0.33	0.0024 U	0.0021 U	0.0022 U	0.0021 U
Dichloroethene, cis-1,2-	0.25	0.006 U	0.0053 U	0.0055 U	0.0052 U
Dichloroethene, trans-1,2-	0.19	0.006 U	0.0053 U	0.0055 U	0.0052 U
Dichloropropane, 1,2-	--	0.0012 U	0.001 U	0.0011 U	0.001 U
Dichloropropene, cis-1,3-	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Dichloropropene, trans-1,3-	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Ethylbenzene	1	**0.0009 J**	0.0042 U	0.0044 U	0.0042 U
Hexanone, 2-	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Methyl-2-pentanone, 4-	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Methylene chloride	0.05	0.0036 UB	0.0032 UB	0.0033 UB	0.0031 UB
Styrene	--	0.006 U	0.0053 U	0.0055 U	0.0052 U
Tetrachloroethane, 1,1,2,2-	--	0.0012 U	0.001 U	0.0011 U	0.001 U
Tetrachloroethene	1.3	0.0012 U	0.001 U	0.0011 U	0.001 U
Toluene	0.7	**0.0054 J**	**0.0016 J**	**0.0014 J**	**0.0025 J**
Trichloroethane, 1,1,1-	0.68	0.006 U	0.0053 U	0.0055 U	0.0052 U
Trichloroethane, 1,1,2-	--	0.0036 U	0.0032 U	0.0033 U	0.0031 U
Trichloroethene	0.47	**0.0008 J**	0.001 U	0.0011 U	0.001 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.006 U	0.0053 U	0.0055 U	0.0052 U
Xylenes, Total	1.6	**0.0019 J**	0.0053 U	0.0055 U	0.0052 U
Semivolatile Organic Compounds					
Acenaphthene	98	**0.048 J**	0.37 U	**0.0082 J**	0.37 U
Acenaphthylene	100	**0.076 J**	0.37 U	**0.096 J**	0.37 U
Anthracene	100	**0.15 J**	0.37 U	**0.099 J**	0.37 U
Benzo(a)anthracene	1	**0.66**	**0.058**	**0.95**	**0.052 J**
Benzo(a)pyrene	1	**0.59**	0.037 U	**0.83**	0.037 UJ

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-12	CGGP-13	CGGP-13	CGGP-14
Sample ID:		CGGP-12_6-7	CGGP-13_3-4	CGGP-13_6-7	CGGP-14_5-6
Sample Interval (feet bgs):		6.00 to 7.00	3.00 to 4.00	6.00 to 7.00	5.00 to 6.00
Sample Interval (feet NAVD88):	Soil Cleanup	9.10 to 8.10	12.80 to 11.80	9.80 to 8.80	11.20 to 10.20
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**0.52**	0.037 U	**0.65**	0.037 U
Benzo(g,h,i)perylene	100	**0.22 J**	0.37 U	**0.36 J**	0.37 UJ
Benzo(k)fluoranthene	1.7	**0.66**	0.037 U	**1**	0.037 UJ
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.41 U	0.37 U	0.38 U	0.37 U
Bis(2-chloroethyl)ether	--	0.041 U	0.037 U	0.038 U	0.037 U
Bis(2-ethylhexyl)phthalate	--	0.41 U	0.37 U	0.38 U	0.37 U
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.41 U	0.37 U	0.38 U	0.37 U
Butyl benzyl phthalate	--	0.41 U	0.37 U	0.38 U	0.37 U
Carbazole	--	**0.059 J**	0.37 U	**0.056 J**	0.37 U
Chloro-3-methylphenol, 4-	--	0.41 U	0.37 U	0.38 U	0.37 U
Chloroaniline, 4-	--	0.41 U	0.37 U	0.38 U	0.37 U
Chloronaphthalene, 2-	--	0.41 U	0.37 U	0.38 U	0.37 U
Chlorophenol, 2-	--	0.41 U	0.37 U	0.38 U	0.37 U
Chlorophenyl phenyl ether, 4-	--	0.41 U	0.37 U	0.38 U	0.37 U
Chrysene	1	**0.71**	**0.074 J**	**0.94**	**0.068 J**
Dibenzo(a,h)anthracene	0.33	**0.11**	0.037 U	0.038 U	0.037 U
Dibenzofuran	59	**0.045 J**	0.37 U	**0.0087 J**	0.37 U
Dichlorobenzene, 1,2-	1.1	0.41 U	0.37 U	0.38 U	0.37 U
Dichlorobenzene, 1,3-	2.4	0.41 U	0.37 U	0.38 U	0.37 U
Dichlorobenzene, 1,4-	1.8	0.41 U	0.37 U	0.38 U	0.37 U
Dichlorobenzidine, 3,3-	--	0.81 U	0.74 U	0.76 U	0.74 U
Dichlorophenol, 2,4-	--	0.41 U	0.37 U	0.38 U	0.37 U
Diethyl phthalate	--	0.41 U	0.37 U	0.38 U	0.37 U
Dimethylphenol, 2,4-	--	0.41 U	R	0.38 U	0.37 U
Dimethyl phthalate	--	0.41 U	0.37 U	0.38 U	0.37 U
Di-n-butyl phthalate	--	0.41 U	0.37 U	0.38 U	0.37 U
Di-n-octyl phthalate	--	0.41 U	0.37 U	0.38 U	0.37 U
Dinitro-2-methylphenol, 4,6-	--	1.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Dinitrophenol, 2,4-	--	R	1.1 U	R	R
Dinitrotoluene, 2,4-	--	0.081 U	0.074 U	0.076 U	0.074 U
Dinitrotoluene, 2,6-	--	0.081 U	0.074 U	0.076 U	0.074 U
Fluoranthene	100	**1.1**	0.37 UJ	**1.7**	0.37 UJ
Fluorene	100	**0.044 J**	0.37 U	0.38 U	0.37 U
Hexachlorobenzene	1.2	0.041 U	0.037 U	0.038 U	0.037 U
Hexachlorobutadiene	--	0.081 U	0.074 U	0.076 U	0.074 U
Hexachlorocyclopentadiene	--	0.41 U	0.37 U	0.38 U	0.37 U
Hexachloroethane	--	0.041 U	0.037 U	0.038 U	0.037 U
Indeno(1,2,3-cd)pyrene	0.5	**0.17**	0.037 U	**0.35**	0.037 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-12	CGGP-13	CGGP-13	CGGP-14
Sample ID:		CGGP-12_6-7	CGGP-13_3-4	CGGP-13_6-7	CGGP-14_5-6
Sample Interval (feet bgs):		6.00 to 7.00	3.00 to 4.00	6.00 to 7.00	5.00 to 6.00
Sample Interval (feet NAVD88):	Soil Cleanup	9.10 to 8.10	12.80 to 11.80	9.80 to 8.80	11.20 to 10.20
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.41 U	0.37 U	0.38 U	0.37 U
Methylnaphthalene, 2-	--	**0.036 J**	0.37 U	0.38 U	0.37 U
Methylphenol, 2-	0.33	0.41 U	0.37 U	0.38 U	0.37 U
Methylphenol, 4-	0.33	0.41 U	0.37 U	0.38 U	0.37 U
Naphthalene	12	**0.091 J**	0.37 U	0.38 U	0.37 U
Nitroaniline, 2-	--	0.81 U	0.74 U	0.76 U	0.74 U
Nitroaniline, 3-	--	0.81 U	0.74 U	0.76 U	0.74 U
Nitroaniline, 4-	--	0.81 U	0.74 U	0.76 U	0.74 U
Nitrobenzene	--	0.041 U	0.037 U	0.038 U	0.037 U
Nitrophenol, 2-	--	0.41 U	0.37 U	0.38 U	0.37 U
Nitrophenol, 4-	--	1.2 U	1.1 U	1.1 U	1.1 U
N-Nitrosodi-n-propylamine	--	0.041 U	0.037 U	0.038 U	0.037 U
N-Nitrosodiphenylamine	--	0.41 U	0.37 U	0.38 U	0.37 U
Oxybis(1-chloropropane), 2,2'-	--	0.41 U	0.37 U	0.38 U	0.37 U
Pentachlorophenol	0.8	1.2 U	1.1 U	1.1 U	1.1 U
Phenanthrene	100	**0.34 J**	**0.042 J**	**0.36 J**	**0.033 J**
Phenol	0.33	0.41 U	0.37 U	0.38 U	0.37 U
Pyrene	100	**1.3**	0.37 UJ	**1.7**	0.37 UJ
Trichlorobenzene, 1,2,4-	--	0.041 U	0.037 U	0.038 U	0.037 U
Trichlorophenol, 2,4,5-	--	0.41 U	0.37 U	0.38 U	0.37 U
Trichlorophenol, 2,4,6-	--	0.41 U	0.37 U	0.38 U	0.37 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-14	CGGP-15	CGGP-16	CGGP-17
Sample ID:		CG-DUP01	CGGP-15_5-8	CGGP-16_7-8	CGGP-17_9-10
Sample Interval (feet bgs):		5.00 to 6.00	5.00 to 8.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.20 to 10.20	10.70 to 7.70	9.00 to 8.00	7.60 to 6.60
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Volatile Organic Compounds					
Acetone	0.05	0.0054 UB	0.0051 UB	**0.065 B**	0.0057 UB
Benzene	0.06	0.0011 U	**0.0004 J**	0.0011 U	0.0011 U
Bromodichloromethane	--	0.0011 U	0.001 U	0.0011 U	0.0011 U
Bromoform	--	0.0044 U	0.0041 U	0.0043 U	0.0046 U
Bromomethane	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Butanone, 2-	0.12	R	R	**0.005 J**	**0.0022 J**
Carbon disulfide	--	0.0054 U	0.0051 U	**0.0016 J**	**0.0013 J**
Carbon tetrachloride	0.76	0.0022 U	0.002 U	0.0021 U	0.0023 U
Chlorobenzene	1.1	0.0054 U	0.0051 U	0.0054 UJ	0.0057 U
Chloroethane	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Chloroform	0.37	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Chloromethane	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Dibromochloromethane	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Dichloroethane, 1,1-	0.27	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Dichloroethane, 1,2-	0.02	0.0022 U	0.002 U	0.0021 U	0.0023 U
Dichloroethene, 1,1-	0.33	0.0022 U	0.002 U	0.0021 U	0.0023 U
Dichloroethene, cis-1,2-	0.25	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Dichloroethene, trans-1,2-	0.19	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Dichloropropane, 1,2-	--	0.0011 U	0.001 U	0.0011 U	0.0011 U
Dichloropropene, cis-1,3-	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Dichloropropene, trans-1,3-	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Ethylbenzene	1	0.0044 U	0.0041 U	0.0043 UJ	**0.0007 J**
Hexanone, 2-	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Methyl-2-pentanone, 4-	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Methylene chloride	0.05	0.0033 UB	**0.023 B**	**0.019 J**	**0.028 B**
Styrene	--	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Tetrachloroethane, 1,1,2,2-	--	0.0011 U	0.001 U	0.0011 U	0.0011 U
Tetrachloroethene	1.3	0.0011 U	0.001 U	0.0011 U	0.0011 U
Toluene	0.7	**0.002 J**	**0.003 J**	**0.001 J**	**0.0029 J**
Trichloroethane, 1,1,1-	0.68	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Trichloroethane, 1,1,2-	--	0.0033 U	0.0031 U	0.0032 U	0.0034 U
Trichloroethene	0.47	0.0011 U	0.001 U	0.0011 U	0.0011 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0054 U	0.0051 U	0.0054 U	0.0057 U
Xylenes, Total	1.6	0.0054 U	0.0051 U	0.0054 U	**0.0009 J**
Semivolatile Organic Compounds					
Acenaphthene	98	0.37 U	3.6 U	**0.12 J**	**0.082 J**
Acenaphthylene	100	0.37 U	3.6 U	**0.21 J**	0.78 U
Anthracene	100	**0.045 J**	**0.1 J**	**0.36 J**	**0.099 J**
Benzo(a)anthracene	1	**0.18 J**	**0.38**	**1.2**	**0.24**
Benzo(a)pyrene	1	**0.19 J**	**0.42 J**	**1**	0.078 UJ

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-14	CGGP-15	CGGP-16	CGGP-17
Sample ID:		CG-DUP01	CGGP-15_5-8	CGGP-16_7-8	CGGP-17_9-10
Sample Interval (feet bgs):		5.00 to 6.00	5.00 to 8.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.20 to 10.20	10.70 to 7.70	9.00 to 8.00	7.60 to 6.60
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**0.17 J**	**0.42 J**	**0.93**	0.078 UJ
Benzo(g,h,i)perylene	100	**0.14 J**	3.6 UJ	**0.36 J**	0.78 UJ
Benzo(k)fluoranthene	1.7	**0.19 J**	**0.59 J**	**1.3**	0.078 U
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.37 U	3.6 U	0.38 U	0.78 U
Bis(2-chloroethyl)ether	--	0.037 U	0.36 U	0.038 U	0.078 U
Bis(2-ethylhexyl)phthalate	--	0.37 U	**1.9 J**	**0.12 J**	**0.46 J**
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.37 U	3.6 U	0.38 U	0.78 U
Butyl benzyl phthalate	--	0.37 U	3.6 U	0.38 U	0.78 U
Carbazole	--	0.37 U	3.6 U	**0.078 J**	0.78 U
Chloro-3-methylphenol, 4-	--	0.37 U	3.6 U	0.38 U	0.78 U
Chloroaniline, 4-	--	0.37 U	3.6 U	0.38 U	0.78 U
Chloronaphthalene, 2-	--	0.37 U	3.6 U	0.38 U	0.78 U
Chlorophenol, 2-	--	0.37 U	3.6 U	0.38 U	0.78 U
Chlorophenyl phenyl ether, 4-	--	0.37 U	3.6 U	0.38 U	0.78 U
Chrysene	1	**0.18 J**	**0.53 J**	**1.3**	**0.3 J**
Dibenzo(a,h)anthracene	0.33	0.037 U	0.36 UJ	**0.13**	0.078 UJ
Dibenzofuran	59	**0.016 J**	3.6 U	**0.055 J**	0.78 U
Dichlorobenzene, 1,2-	1.1	0.37 U	3.6 U	0.38 U	0.78 U
Dichlorobenzene, 1,3-	2.4	0.37 U	3.6 U	0.38 U	0.78 U
Dichlorobenzene, 1,4-	1.8	0.37 U	3.6 U	0.38 U	0.78 U
Dichlorobenzidine, 3,3-	--	0.75 U	7.2 U	0.76 U	1.6 U
Dichlorophenol, 2,4-	--	0.37 U	3.6 U	0.38 U	0.78 U
Diethyl phthalate	--	0.37 U	3.6 U	0.38 U	0.78 U
Dimethylphenol, 2,4-	--	0.37 U	3.6 U	0.38 U	0.78 U
Dimethyl phthalate	--	0.37 U	3.6 U	0.38 U	0.78 U
Di-n-butyl phthalate	--	0.37 U	3.6 U	0.38 U	0.78 U
Di-n-octyl phthalate	--	0.37 U	3.6 UJ	0.38 U	0.78 UJ
Dinitro-2-methylphenol, 4,6-	--	1.1 UJ	11 UJ	1.1 UJ	2.3 UJ
Dinitrophenol, 2,4-	--	R	R	R	R
Dinitrotoluene, 2,4-	--	0.075 U	0.72 U	0.076 U	0.16 U
Dinitrotoluene, 2,6-	--	0.075 U	0.72 U	0.076 U	0.16 U
Fluoranthene	100	0.37 UJ	3.6 UJ	**2.6**	0.78 UJ
Fluorene	100	0.37 U	3.6 U	**0.12 J**	0.78 U
Hexachlorobenzene	1.2	0.037 U	0.36 U	0.038 U	0.078 U
Hexachlorobutadiene	--	0.075 U	0.72 U	0.076 U	0.16 U
Hexachlorocyclopentadiene	--	0.37 U	3.6 U	0.38 U	0.78 U
Hexachloroethane	--	0.037 U	0.36 U	0.038 U	0.078 U
Indeno(1,2,3-cd)pyrene	0.5	**0.11**	0.36 UJ	**0.32**	0.078 UJ

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-14	CGGP-15	CGGP-16	CGGP-17
Sample ID:		CG-DUP01	CGGP-15_5-8	CGGP-16_7-8	CGGP-17_9-10
Sample Interval (feet bgs):		5.00 to 6.00	5.00 to 8.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.20 to 10.20	10.70 to 7.70	9.00 to 8.00	7.60 to 6.60
Parameter / Sample Date:	Objective[3]	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.37 U	3.6 U	0.38 U	0.78 U
Methylnaphthalene, 2-	--	**0.014 J**	3.6 U	**0.043 J**	0.78 U
Methylphenol, 2-	0.33	0.37 U	3.6 U	0.38 U	0.78 U
Methylphenol, 4-	0.33	0.37 U	3.6 U	0.38 U	0.78 U
Naphthalene	12	0.37 U	3.6 U	**0.095 J**	**0.18 J**
Nitroaniline, 2-	--	0.75 U	7.2 U	0.76 U	1.6 U
Nitroaniline, 3-	--	0.75 U	7.2 U	0.76 U	1.6 U
Nitroaniline, 4-	--	0.75 U	7.2 U	0.76 U	1.6 U
Nitrobenzene	--	0.037 U	0.36 U	0.038 U	0.078 U
Nitrophenol, 2-	--	0.37 U	3.6 U	0.38 U	0.78 U
Nitrophenol, 4-	--	1.1 U	11 U	1.1 U	2.3 U
N-Nitrosodi-n-propylamine	--	0.037 U	0.36 U	0.038 U	0.078 U
N-Nitrosodiphenylamine	--	0.37 U	**0.56 J**	0.38 U	0.78 U
Oxybis(1-chloropropane), 2,2'-	--	0.37 U	3.6 U	0.38 U	0.78 U
Pentachlorophenol	0.8	1.1 U	11 U	1.1 U	2.3 U
Phenanthrene	100	**0.17 J**	**0.26 J**	**1.1**	**0.26 J**
Phenol	0.33	0.37 U	3.6 U	0.38 U	0.78 U
Pyrene	100	0.37 UJ	3.6 UJ	**2.9 J**	**0.64 J**
Trichlorobenzene, 1,2,4-	--	0.037 U	0.36 U	0.038 U	0.078 U
Trichlorophenol, 2,4,5-	--	0.37 U	3.6 U	0.38 U	0.78 U
Trichlorophenol, 2,4,6-	--	0.37 U	3.6 U	0.38 U	0.78 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-18	CGGP-19	CGGP-20	CGGP-21
Sample ID:		CGGP-18_3-4	CGGP-19_10-11	CGGP-20_7-8	CGGP-21_9-10
Sample Interval (feet bgs):		3.00 to 4.00	10.00 to 11.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.20 to 13.20	7.80 to 6.80	9.60 to 8.60	9.70 to 8.70
Parameter / Sample Date:	Objective[3]	3/12/2008	3/13/2008	3/13/2008	3/13/2008
Volatile Organic Compounds					
Acetone	0.05	0.0054 UB	0.0058 UB	0.0055 UB	**0.012 B**
Benzene	0.06	**0.0004 J**	0.0012 U	0.0011 U	0.0012 U
Bromodichloromethane	--	0.0011 U	0.0012 U	0.0011 U	0.0012 U
Bromoform	--	0.0043 U	0.0046 U	0.0044 U	0.0047 U
Bromomethane	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Butanone, 2-	0.12	R	R	0.0055 U	0.0059 U
Carbon disulfide	--	0.0054 U	**0.001 J**	0.0055 U	0.0059 U
Carbon tetrachloride	0.76	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Chlorobenzene	1.1	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Chloroethane	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Chloroform	0.37	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Chloromethane	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Dibromochloromethane	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Dichloroethane, 1,1-	0.27	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Dichloroethane, 1,2-	0.02	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Dichloroethene, 1,1-	0.33	0.0022 U	0.0023 U	0.0022 U	0.0023 U
Dichloroethene, cis-1,2-	0.25	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Dichloroethene, trans-1,2-	0.19	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Dichloropropane, 1,2-	--	0.0011 U	0.0012 U	0.0011 U	0.0012 U
Dichloropropene, cis-1,3-	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Dichloropropene, trans-1,3-	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Ethylbenzene	1	0.0043 U	0.0046 U	0.0044 U	0.0047 U
Hexanone, 2-	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Methyl-2-pentanone, 4-	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Methylene chloride	0.05	**0.023 B**	**0.02 B**	**0.012 B**	0.0035 UB
Styrene	--	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Tetrachloroethane, 1,1,2,2-	--	0.0011 U	0.0012 U	0.0011 U	0.0012 U
Tetrachloroethene	1.3	0.0011 U	0.0012 U	0.0011 U	0.0012 U
Toluene	0.7	0.0054 U	0.0058 U	**0.0021 J**	0.0059 U
Trichloroethane, 1,1,1-	0.68	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Trichloroethane, 1,1,2-	--	0.0032 U	0.0035 U	0.0033 U	0.0035 U
Trichloroethene	0.47	0.0011 U	0.0012 U	0.0011 U	0.0012 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Xylenes, Total	1.6	0.0054 U	0.0058 U	0.0055 U	0.0059 U
Semivolatile Organic Compounds					
Acenaphthene	98	**0.036 J**	0.8 U	**0.93**	**0.067 J**
Acenaphthylene	100	0.37 U	**0.19 J**	**0.23 J**	**0.26 J**
Anthracene	100	**0.081 J**	**0.1 J**	**2.7**	**0.35 J**
Benzo(a)anthracene	1	**0.33**	**0.43**	**6.1**	**1.4**
Benzo(a)pyrene	1	**0.35**	**0.41 J**	**5.1**	**1.4**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-18	CGGP-19	CGGP-20	CGGP-21
Sample ID:		CGGP-18_3-4	CGGP-19_10-11	CGGP-20_7-8	CGGP-21_9-10
Sample Interval (feet bgs):		3.00 to 4.00	10.00 to 11.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.20 to 13.20	7.80 to 6.80	9.60 to 8.60	9.70 to 8.70
Parameter / Sample Date:	Objective[3]	3/12/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**0.4**	**0.44**	**4.5**	**1.2**
Benzo(g,h,i)perylene	100	**0.12 J**	0.8 U	**1.4**	**0.81**
Benzo(k)fluoranthene	1.7	**0.44**	**0.5**	**5.5**	**1.3**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.37 U	0.8 U	0.75 U	0.4 U
Bis(2-chloroethyl)ether	--	0.037 U	0.08 U	0.075 U	0.04 U
Bis(2-ethylhexyl)phthalate	--	0.37 U	**0.51 J**	**0.16 J**	0.4 U
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.37 U	0.8 U	0.75 U	0.4 U
Butyl benzyl phthalate	--	0.37 U	0.8 U	**0.25 J**	0.4 U
Carbazole	--	**0.067 J**	**0.042 J**	**1.3**	**0.12 J**
Chloro-3-methylphenol, 4-	--	0.37 U	0.8 U	0.75 U	0.4 U
Chloroaniline, 4-	--	0.37 U	0.8 U	0.75 U	0.4 U
Chloronaphthalene, 2-	--	0.37 U	0.8 U	0.75 U	0.4 U
Chlorophenol, 2-	--	0.37 U	0.8 U	0.75 U	0.4 U
Chlorophenyl phenyl ether, 4-	--	0.37 U	0.8 U	0.75 U	0.4 U
Chrysene	1	**0.4**	**0.52 J**	**6.4**	**1.5**
Dibenzo(a,h)anthracene	0.33	0.037 U	0.08 U	**0.56**	**0.23**
Dibenzofuran	59	**0.019 J**	0.8 U	**0.52 J**	**0.033 J**
Dichlorobenzene, 1,2-	1.1	0.37 U	0.8 U	0.75 U	0.4 U
Dichlorobenzene, 1,3-	2.4	0.37 U	0.8 U	0.75 U	0.4 U
Dichlorobenzene, 1,4-	1.8	0.37 U	0.8 U	0.75 U	0.4 U
Dichlorobenzidine, 3,3-	--	0.75 U	1.6 U	1.5 U	0.8 U
Dichlorophenol, 2,4-	--	0.37 U	0.8 U	0.75 U	0.4 U
Diethyl phthalate	--	0.37 U	0.8 U	0.75 U	0.4 U
Dimethylphenol, 2,4-	--	0.37 U	0.8 U	0.75 U	0.4 U
Dimethyl phthalate	--	0.37 U	0.8 U	0.75 U	0.4 U
Di-n-butyl phthalate	--	0.37 U	**0.23 J**	0.75 U	0.4 U
Di-n-octyl phthalate	--	0.37 U	0.8 U	0.75 U	0.4 U
Dinitro-2-methylphenol, 4,6-	--	1.1 UJ	2.4 UJ	2.2 U	1.2 U
Dinitrophenol, 2,4-	--	R	2.4 U	2.2 U	1.2 U
Dinitrotoluene, 2,4-	--	0.075 U	0.16 U	0.15 U	0.08 U
Dinitrotoluene, 2,6-	--	0.075 U	0.16 U	0.15 U	0.08 U
Fluoranthene	100	**0.7**	0.8 UJ	**13**	**3.6**
Fluorene	100	**0.034 J**	**0.068 J**	**0.93**	**0.046 J**
Hexachlorobenzene	1.2	0.037 U	0.08 U	0.075 U	0.04 U
Hexachlorobutadiene	--	0.075 U	0.16 U	0.15 U	0.08 U
Hexachlorocyclopentadiene	--	0.37 U	0.8 U	0.75 U	0.4 U
Hexachloroethane	--	0.037 U	0.08 U	0.075 U	0.04 U
Indeno(1,2,3-cd)pyrene	0.5	**0.11**	R	**1.5**	**0.75**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-18	CGGP-19	CGGP-20	CGGP-21
Sample ID:		CGGP-18_3-4	CGGP-19_10-11	CGGP-20_7-8	CGGP-21_9-10
Sample Interval (feet bgs):		3.00 to 4.00	10.00 to 11.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.20 to 13.20	7.80 to 6.80	9.60 to 8.60	9.70 to 8.70
Parameter / Sample Date:	Objective[3]	3/12/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.37 U	0.8 U	0.75 U	0.4 U
Methylnaphthalene, 2-	--	**0.01 J**	**0.14 J**	**0.47 J**	0.4 U
Methylphenol, 2-	0.33	0.37 U	0.8 U	0.75 U	0.4 U
Methylphenol, 4-	0.33	0.37 U	0.8 U	**0.042 J**	0.4 U
Naphthalene	12	0.37 U	**0.12 J**	**0.77**	**0.015 J**
Nitroaniline, 2-	--	0.75 U	1.6 U	1.5 U	0.8 U
Nitroaniline, 3-	--	0.75 U	1.6 U	1.5 U	0.8 U
Nitroaniline, 4-	--	0.75 U	1.6 U	1.5 U	0.8 U
Nitrobenzene	--	0.037 U	0.08 U	0.075 U	0.04 U
Nitrophenol, 2-	--	0.37 U	0.8 U	0.75 U	0.4 U
Nitrophenol, 4-	--	1.1 U	2.4 U	2.2 U	1.2 U
N-Nitrosodi-n-propylamine	--	0.037 U	0.08 U	0.075 U	0.04 U
N-Nitrosodiphenylamine	--	0.37 U	0.8 U	0.75 U	0.4 U
Oxybis(1-chloropropane), 2,2'-	--	0.37 U	0.8 U	0.75 U	0.4 U
Pentachlorophenol	0.8	1.1 U	2.4 U	2.2 U	1.2 U
Phenanthrene	100	**0.44**	**0.43 J**	**13**	**2.2**
Phenol	0.33	0.37 U	0.8 U	0.75 U	0.4 U
Pyrene	100	**0.76**	**1.1**	**12**	**3.1**
Trichlorobenzene, 1,2,4-	--	0.037 U	0.08 U	0.075 U	0.04 U
Trichlorophenol, 2,4,5-	--	0.37 U	0.8 U	0.75 U	0.4 U
Trichlorophenol, 2,4,6-	--	0.37 U	0.8 U	0.75 U	0.4 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-22	CGGP-23	CGGP-24	CGGP-24
Sample ID:		CGGP-22_6-7	CGGP-23_7-8	CGGP-24_6-7	DUP-02
Sample Interval (feet bgs):		6.00 to 7.00	7.00 to 8.00	6.00 to 7.00	6.00 to 7.00
Sample Interval (feet NAVD88):	Soil Cleanup	13.50 to 12.50	10.80 to 9.80	13.50 to 12.50	13.50 to 12.50
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Volatile Organic Compounds					
Acetone	0.05	**0.038 B**	**0.018 B**	**0.0083 B**	0.0053 UB
Benzene	0.06	**0.0004 J**	0.0011 U	0.0011 U	0.001 U
Bromodichloromethane	--	0.0012 U	0.0011 U	0.0011 U	0.001 U
Bromoform	--	0.0046 U	0.0045 U	0.0043 U	0.0042 U
Bromomethane	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Butanone, 2-	0.12	**0.0028 J**	0.0056 U	R	R
Carbon disulfide	--	**0.0009 J**	**0.0011 J**	0.0054 U	0.0053 U
Carbon tetrachloride	0.76	0.0023 U	0.0022 U	0.0021 U	0.0021 U
Chlorobenzene	1.1	0.0058 U	0.0056 UJ	0.0054 U	0.0053 U
Chloroethane	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Chloroform	0.37	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Chloromethane	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Dibromochloromethane	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Dichloroethane, 1,1-	0.27	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Dichloroethane, 1,2-	0.02	0.0023 U	0.0022 U	0.0021 U	0.0021 U
Dichloroethene, 1,1-	0.33	0.0023 U	0.0022 U	0.0021 U	0.0021 U
Dichloroethene, cis-1,2-	0.25	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Dichloroethene, trans-1,2-	0.19	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Dichloropropane, 1,2-	--	0.0012 U	0.0011 U	0.0011 U	0.001 U
Dichloropropene, cis-1,3-	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Dichloropropene, trans-1,3-	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Ethylbenzene	1	0.0046 U	0.0045 U	0.0043 U	0.0042 U
Hexanone, 2-	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Methyl-2-pentanone, 4-	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Methylene chloride	0.05	0.0035 UB	0.0034 UB	0.0032 UB	0.0032 UB
Styrene	--	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Tetrachloroethane, 1,1,2,2-	--	0.0012 U	0.0011 U	0.0011 U	0.001 U
Tetrachloroethene	1.3	0.0012 U	0.0011 U	0.0011 U	0.001 U
Toluene	0.7	0.0058 U	**0.0018 J**	0.0054 U	**0.0011 J**
Trichloroethane, 1,1,1-	0.68	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Trichloroethane, 1,1,2-	--	0.0035 U	0.0034 U	0.0032 U	0.0032 U
Trichloroethene	0.47	0.0012 U	0.0011 U	0.0011 U	0.001 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Xylenes, Total	1.6	0.0058 U	0.0056 U	0.0054 U	0.0053 U
Semivolatile Organic Compounds					
Acenaphthene	98	**0.047 J**	**0.76**	**5.2 J**	**0.25 J**
Acenaphthylene	100	**0.013 J**	**0.11 J**	18 U	0.37 U
Anthracene	100	**0.14 J**	**1.8**	**17 J**	**0.76 J**
Benzo(a)anthracene	1	**0.36**	**3.8**	**61 J**	**1.8 J**
Benzo(a)pyrene	1	**0.28**	**3.2**	**68 J**	**1.6 J**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-22	CGGP-23	CGGP-24	CGGP-24
Sample ID:		CGGP-22_6-7	CGGP-23_7-8	CGGP-24_6-7	DUP-02
Sample Interval (feet bgs):		6.00 to 7.00	7.00 to 8.00	6.00 to 7.00	6.00 to 7.00
Sample Interval (feet NAVD88):	Soil Cleanup	13.50 to 12.50	10.80 to 9.80	13.50 to 12.50	13.50 to 12.50
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**0.29**	**2.9**	**70 J**	**1.3 J**
Benzo(g,h,i)perylene	100	**0.088 J**	**0.76**	**16 J**	**0.46 J**
Benzo(k)fluoranthene	1.7	**0.32**	**3.6**	**110 J**	**1.9 J**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.4 U	0.38 U	18 U	0.37 U
Bis(2-chloroethyl)ether	--	0.04 U	0.038 U	1.8 U	0.037 U
Bis(2-ethylhexyl)phthalate	--	**0.2 J**	**0.089 J**	18 UJ	**0.098 J**
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.4 U	0.38 U	18 U	0.37 U
Butyl benzyl phthalate	--	0.4 U	0.38 U	18 U	0.37 U
Carbazole	--	**0.036 J**	**0.73**	**15 J**	**0.33 J**
Chloro-3-methylphenol, 4-	--	0.4 U	0.38 U	18 U	0.37 U
Chloroaniline, 4-	--	0.4 U	0.38 U	18 U	0.37 U
Chloronaphthalene, 2-	--	0.4 U	0.38 U	18 U	0.37 U
Chlorophenol, 2-	--	0.4 U	0.38 U	18 U	0.37 U
Chlorophenyl phenyl ether, 4-	--	0.4 U	0.38 U	18 U	0.37 U
Chrysene	1	**0.38 J**	**3.6**	**60 J**	**1.8 J**
Dibenzo(a,h)anthracene	0.33	**0.027 J**	**0.32**	**9 J**	**0.22 J**
Dibenzofuran	59	**0.031 J**	**0.46**	**2.6 J**	**0.17 J**
Dichlorobenzene, 1,2-	1.1	0.4 U	0.38 U	18 U	0.37 U
Dichlorobenzene, 1,3-	2.4	0.4 U	0.38 U	18 U	0.37 U
Dichlorobenzene, 1,4-	1.8	0.4 U	0.38 U	18 U	0.37 U
Dichlorobenzidine, 3,3-	--	0.8 U	0.77 U	37 U	0.74 U
Dichlorophenol, 2,4-	--	0.4 U	0.38 U	18 U	0.37 U
Diethyl phthalate	--	0.4 U	0.38 U	18 U	0.37 U
Dimethylphenol, 2,4-	--	0.4 U	0.38 U	18 U	0.37 U
Dimethyl phthalate	--	0.4 U	0.38 U	18 U	0.37 U
Di-n-butyl phthalate	--	0.4 U	0.38 U	18 U	0.37 U
Di-n-octyl phthalate	--	0.4 U	0.38 U	18 U	0.37 U
Dinitro-2-methylphenol, 4,6-	--	1.2 U	1.2 U	55 U	1.1 U
Dinitrophenol, 2,4-	--	1.2 U	1.2 U	55 U	1.1 U
Dinitrotoluene, 2,4-	--	0.08 U	0.077 U	3.7 U	0.074 U
Dinitrotoluene, 2,6-	--	0.08 U	0.077 U	3.7 U	0.074 U
Fluoranthene	100	**0.78**	**8.2**	**120 J**	**3.7 J**
Fluorene	100	**0.036 J**	**0.69**	**5.3 J**	**0.22 J**
Hexachlorobenzene	1.2	0.04 U	0.038 U	1.8 U	0.037 U
Hexachlorobutadiene	--	0.08 U	0.077 U	3.7 U	0.074 U
Hexachlorocyclopentadiene	--	0.4 U	0.38 U	18 U	0.37 U
Hexachloroethane	--	0.04 U	0.038 U	1.8 U	0.037 U
Indeno(1,2,3-cd)pyrene	0.5	**0.078**	**0.87**	**17 J**	**0.5 J**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-22	CGGP-23	CGGP-24	CGGP-24
Sample ID:		CGGP-22_6-7	CGGP-23_7-8	CGGP-24_6-7	DUP-02
Sample Interval (feet bgs):		6.00 to 7.00	7.00 to 8.00	6.00 to 7.00	6.00 to 7.00
Sample Interval (feet NAVD88):	Soil Cleanup	13.50 to 12.50	10.80 to 9.80	13.50 to 12.50	13.50 to 12.50
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.4 U	0.38 U	18 U	0.37 U
Methylnaphthalene, 2-	--	**0.028 J**	**0.2 J**	**0.47 J**	**0.059 J**
Methylphenol, 2-	0.33	0.4 U	0.38 U	18 U	0.37 U
Methylphenol, 4-	0.33	0.4 U	0.38 U	18 U	0.37 U
Naphthalene	12	**0.029 J**	**0.34 J**	18 UJ	**0.081 J**
Nitroaniline, 2-	--	0.8 U	0.77 U	37 U	0.74 U
Nitroaniline, 3-	--	0.8 U	0.77 U	37 U	0.74 U
Nitroaniline, 4-	--	0.8 U	0.77 U	37 U	0.74 U
Nitrobenzene	--	0.04 U	0.038 U	1.8 U	0.037 U
Nitrophenol, 2-	--	0.4 U	0.38 U	18 U	0.37 U
Nitrophenol, 4-	--	1.2 U	1.2 U	55 U	1.1 U
N-Nitrosodi-n-propylamine	--	0.04 U	0.038 U	1.8 U	0.037 U
N-Nitrosodiphenylamine	--	0.4 U	0.38 U	18 U	0.37 U
Oxybis(1-chloropropane), 2,2'-	--	0.4 U	0.38 U	18 U	0.37 U
Pentachlorophenol	0.8	1.2 U	1.2 U	55 U	1.1 U
Phenanthrene	100	**0.61**	**6.6**	**53 J**	**3 J**
Phenol	0.33	0.4 U	0.38 U	18 U	0.37 U
Pyrene	100	**0.76**	**7.4 J**	**120 J**	**3.6 J**
Trichlorobenzene, 1,2,4-	--	0.04 U	0.038 U	1.8 U	0.037 U
Trichlorophenol, 2,4,5-	--	0.4 U	0.38 U	18 U	0.37 U
Trichlorophenol, 2,4,6-	--	0.4 U	0.38 U	18 U	0.37 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-25	CGGP-26	CGGP-27	CGGP-28
Sample ID:		CGGP-25_11-12	CGGP-26_11.5-12	CGGP-27_7-8	CGGP-28_9-10
Sample Interval (feet bgs):		11.00 to 12.00	11.50 to 12.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	9.20 to 8.20	9.20 to 8.70	12.30 to 11.30	10.40 to 9.40
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Volatile Organic Compounds					
Acetone	0.05	**0.009 B**	**0.02 B**	**0.016 B**	**0.016 B**
Benzene	0.06	0.0012 U	0.0013 U	0.0012 U	**0.0008 J**
Bromodichloromethane	--	0.0012 U	0.0013 U	0.0012 U	0.0011 U
Bromoform	--	0.0047 U	0.0052 U	0.0047 U	0.0043 U
Bromomethane	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Butanone, 2-	0.12	R	R	R	R
Carbon disulfide	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Carbon tetrachloride	0.76	0.0023 U	0.0026 U	0.0024 U	0.0022 U
Chlorobenzene	1.1	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Chloroethane	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Chloroform	0.37	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Chloromethane	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Dibromochloromethane	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Dichloroethane, 1,1-	0.27	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Dichloroethane, 1,2-	0.02	0.0023 U	0.0026 U	0.0024 U	0.0022 U
Dichloroethene, 1,1-	0.33	0.0023 U	0.0026 U	0.0024 U	0.0022 U
Dichloroethene, cis-1,2-	0.25	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Dichloroethene, trans-1,2-	0.19	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Dichloropropane, 1,2-	--	0.0012 U	0.0013 U	0.0012 U	0.0011 U
Dichloropropene, cis-1,3-	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Dichloropropene, trans-1,3-	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Ethylbenzene	1	0.0047 U	0.0052 U	0.0047 U	0.0043 U
Hexanone, 2-	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Methyl-2-pentanone, 4-	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Methylene chloride	0.05	0.0035 UB	0.0039 UB	0.0035 UB	0.0032 UB
Styrene	--	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Tetrachloroethane, 1,1,2,2-	--	0.0012 U	0.0013 U	0.0012 U	0.0011 U
Tetrachloroethene	1.3	0.0012 U	0.0013 U	0.0012 U	0.0011 U
Toluene	0.7	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Trichloroethane, 1,1,1-	0.68	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Trichloroethane, 1,1,2-	--	0.0035 U	0.0039 U	0.0035 U	0.0032 U
Trichloroethene	0.47	0.0012 U	0.0013 U	0.0012 U	0.0011 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Xylenes, Total	1.6	0.0059 U	0.0064 U	0.0059 U	0.0054 U
Semivolatile Organic Compounds					
Acenaphthene	98	0.39 U	**0.28 J**	**1.7 J**	0.37 U
Acenaphthylene	100	**0.04 J**	**0.3 J**	**0.4 J**	0.37 U
Anthracene	100	**0.037 J**	**1.2**	**7.4**	**0.038 J**
Benzo(a)anthracene	1	**0.15**	**3.6**	**17**	**0.15**
Benzo(a)pyrene	1	**0.21**	**3.5**	**11**	**0.25 J**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-25	CGGP-26	CGGP-27	CGGP-28
Sample ID:		CGGP-25_11-12	CGGP-26_11.5-12	CGGP-27_7-8	CGGP-28_9-10
Sample Interval (feet bgs):		11.00 to 12.00	11.50 to 12.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	9.20 to 8.20	9.20 to 8.70	12.30 to 11.30	10.40 to 9.40
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**0.27**	**4**	**9.9**	**0.18 J**
Benzo(g,h,i)perylene	100	**0.11 J**	**0.84 J**	**2.3 J**	R
Benzo(k)fluoranthene	1.7	**0.15**	**7**	**19**	**0.25 J**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.39 U	0.44 U	4 U	0.37 U
Bis(2-chloroethyl)ether	--	0.039 U	0.044 U	0.4 U	0.037 U
Bis(2-ethylhexyl)phthalate	--	**0.084 J**	**0.6**	**0.83 J**	**0.2 J**
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.39 U	0.44 U	4 U	0.37 U
Butyl benzyl phthalate	--	0.39 U	0.44 U	4 U	0.37 U
Carbazole	--	**0.033 J**	**0.8**	**2.1 J**	**0.012 J**
Chloro-3-methylphenol, 4-	--	0.39 U	0.44 U	4 U	0.37 U
Chloroaniline, 4-	--	0.39 U	0.44 U	4 U	0.37 U
Chloronaphthalene, 2-	--	0.39 U	0.44 U	4 U	0.37 U
Chlorophenol, 2-	--	0.39 U	0.44 U	4 U	0.37 U
Chlorophenyl phenyl ether, 4-	--	0.39 U	0.44 U	4 U	0.37 U
Chrysene	1	**0.24 J**	**4.5**	**17**	**0.19 J**
Dibenzo(a,h)anthracene	0.33	0.039 U	**0.36 J**	**1.4 J**	R
Dibenzofuran	59	0.39 U	**0.24 J**	**1.8 J**	0.37 U
Dichlorobenzene, 1,2-	1.1	0.39 U	0.44 U	4 U	0.37 U
Dichlorobenzene, 1,3-	2.4	0.39 U	0.44 U	4 U	0.37 U
Dichlorobenzene, 1,4-	1.8	0.39 U	0.44 U	4 U	0.37 U
Dichlorobenzidine, 3,3-	--	0.79 UJ	0.87 UJ	8 U	0.74 U
Dichlorophenol, 2,4-	--	0.39 U	0.44 U	4 U	0.37 U
Diethyl phthalate	--	0.39 U	0.44 U	4 U	0.37 U
Dimethylphenol, 2,4-	--	0.39 U	0.44 U	4 U	0.37 U
Dimethyl phthalate	--	0.39 U	0.44 U	4 U	0.37 U
Di-n-butyl phthalate	--	0.39 U	0.44 U	4 U	0.37 U
Di-n-octyl phthalate	--	0.39 U	0.44 U	4 U	0.37 UJ
Dinitro-2-methylphenol, 4,6-	--	1.2 UJ	1.3 UJ	12 U	1.1 U
Dinitrophenol, 2,4-	--	1.2 U	1.3 U	12 U	1.1 U
Dinitrotoluene, 2,4-	--	0.079 U	0.087 U	0.8 U	0.074 U
Dinitrotoluene, 2,6-	--	0.079 U	0.087 U	0.8 U	0.074 U
Fluoranthene	100	**0.3 J**	**8.7**	**32**	**0.21 J**
Fluorene	100	0.39 U	**0.42 J**	**3.7 J**	0.37 U
Hexachlorobenzene	1.2	0.039 U	0.044 U	0.4 U	0.037 U
Hexachlorobutadiene	--	0.079 U	0.087 U	0.8 U	0.074 U
Hexachlorocyclopentadiene	--	0.39 UJ	0.44 UJ	4 U	0.37 U
Hexachloroethane	--	0.039 U	0.044 U	0.4 U	0.037 U
Indeno(1,2,3-cd)pyrene	0.5	**0.12**	**0.99 J**	**2.6 J**	R

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-25	CGGP-26	CGGP-27	CGGP-28
Sample ID:		CGGP-25_11-12	CGGP-26_11.5-12	CGGP-27_7-8	CGGP-28_9-10
Sample Interval (feet bgs):		11.00 to 12.00	11.50 to 12.00	7.00 to 8.00	9.00 to 10.00
Sample Interval (feet NAVD88):	Soil Cleanup	9.20 to 8.20	9.20 to 8.70	12.30 to 11.30	10.40 to 9.40
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.39 U	0.44 U	4 U	0.37 U
Methylnaphthalene, 2-	--	0.39 U	**0.12 J**	**0.49 J**	0.37 U
Methylphenol, 2-	0.33	0.39 U	0.44 U	4 U	0.37 U
Methylphenol, 4-	0.33	0.39 U	**0.02 J**	**0.26 J**	0.37 U
Naphthalene	12	0.39 U	**0.26 J**	**0.51 J**	0.37 U
Nitroaniline, 2-	--	0.79 U	0.87 U	8 U	0.74 U
Nitroaniline, 3-	--	0.79 U	0.87 U	8 U	0.74 U
Nitroaniline, 4-	--	0.79 U	0.87 U	8 U	0.74 U
Nitrobenzene	--	0.039 U	0.044 U	0.4 U	0.037 U
Nitrophenol, 2-	--	0.39 U	0.44 U	4 U	0.37 U
Nitrophenol, 4-	--	1.2 U	1.3 U	12 U	1.1 U
N-Nitrosodi-n-propylamine	--	0.039 U	0.044 U	0.4 U	0.037 U
N-Nitrosodiphenylamine	--	0.39 U	0.44 U	4 U	0.37 U
Oxybis(1-chloropropane), 2,2'-	--	0.39 U	0.44 U	4 U	0.37 U
Pentachlorophenol	0.8	1.2 U	1.3 U	12 U	1.1 U
Phenanthrene	100	**0.14 J**	**6.6**	**36**	**0.14 J**
Phenol	0.33	0.39 U	0.44 U	4 U	0.37 U
Pyrene	100	**0.28 J**	**8.6**	**58**	**0.45**
Trichlorobenzene, 1,2,4-	--	0.039 U	0.044 U	0.4 U	0.037 U
Trichlorophenol, 2,4,5-	--	0.39 U	0.44 U	4 U	0.37 U
Trichlorophenol, 2,4,6-	--	0.39 U	0.44 U	4 U	0.37 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-29	CGGP-30	CGGP-31	CGGP-31
Sample ID:		CGGP-29_6-8	CGGP-30_11-12	CGGP-31_10-11	DUP-03
Sample Interval (feet bgs):		6.00 to 8.00	11.00 to 12.00	10.00 to 11.00	10.00 to 11.00
Sample Interval (feet NAVD88):	Soil Cleanup	15.00 to 13.00	10.50 to 9.50	12.10 to 11.10	12.10 to 11.10
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Volatile Organic Compounds					
Acetone	0.05	0.0062 UB	0.0059 UB	0.006 UB	0.0057 UB
Benzene	0.06	0.0012 UJ	0.0012 U	0.0012 U	0.0011 U
Bromodichloromethane	--	0.0012 U	0.0012 U	0.0012 U	0.0011 U
Bromoform	--	0.005 U	0.0047 U	0.0048 U	0.0046 U
Bromomethane	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Butanone, 2-	0.12	R	R	R	R
Carbon disulfide	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Carbon tetrachloride	0.76	0.0025 U	0.0023 U	0.0024 U	0.0023 U
Chlorobenzene	1.1	0.0062 UJ	0.0059 U	0.006 U	0.0057 U
Chloroethane	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Chloroform	0.37	0.0062 UJ	0.0059 U	0.006 U	0.0057 U
Chloromethane	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Dibromochloromethane	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Dichloroethane, 1,1-	0.27	0.0062 UJ	0.0059 U	0.006 U	0.0057 U
Dichloroethane, 1,2-	0.02	0.0025 U	0.0023 U	0.0024 U	0.0023 U
Dichloroethene, 1,1-	0.33	0.0025 U	0.0023 U	0.0024 U	0.0023 U
Dichloroethene, cis-1,2-	0.25	0.0062 U	0.0059 U	0.006 U	0.0057 U
Dichloroethene, trans-1,2-	0.19	0.0062 U	0.0059 U	0.006 U	0.0057 U
Dichloropropane, 1,2-	--	0.0012 UJ	0.0012 U	0.0012 U	0.0011 U
Dichloropropene, cis-1,3-	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Dichloropropene, trans-1,3-	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Ethylbenzene	1	0.005 UJ	0.0047 U	0.0048 U	0.0046 U
Hexanone, 2-	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Methyl-2-pentanone, 4-	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Methylene chloride	0.05	**0.02 J**	0.0035 UB	0.0036 UB	0.0034 UB
Styrene	--	0.0062 U	0.0059 U	0.006 U	0.0057 U
Tetrachloroethane, 1,1,2,2-	--	0.0012 U	0.0012 U	0.0012 U	0.0011 U
Tetrachloroethene	1.3	0.0012 UJ	0.0012 U	0.0012 U	0.0011 U
Toluene	0.7	0.0062 UJ	0.0059 U	0.006 U	0.0057 U
Trichloroethane, 1,1,1-	0.68	0.0062 U	0.0059 U	0.006 U	0.0057 U
Trichloroethane, 1,1,2-	--	0.0037 U	0.0035 U	0.0036 U	0.0034 U
Trichloroethene	0.47	0.0012 UJ	0.0012 U	0.0012 U	0.0011 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0062 U	0.0059 U	0.006 U	0.0057 U
Xylenes, Total	1.6	0.0062 U	0.0059 U	0.006 U	0.0057 U
Semivolatile Organic Compounds					
Acenaphthene	98	**0.034 J**	**1.1 J**	**0.073 J**	**0.22 J**
Acenaphthylene	100	**0.036 J**	**4.5**	**0.15 J**	**0.22 J**
Anthracene	100	**0.062 J**	**5.3**	**0.39 J**	**0.62**
Benzo(a)anthracene	1	**0.12**	**13**	**1.3**	**1.6**
Benzo(a)pyrene	1	**0.1**	**10**	**1.2**	**1.4**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-29	CGGP-30	CGGP-31	CGGP-31
Sample ID:		CGGP-29_6-8	CGGP-30_11-12	CGGP-31_10-11	DUP-03
Sample Interval (feet bgs):		6.00 to 8.00	11.00 to 12.00	10.00 to 11.00	10.00 to 11.00
Sample Interval (feet NAVD88):	Soil Cleanup	15.00 to 13.00	10.50 to 9.50	12.10 to 11.10	12.10 to 11.10
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	0.083 U	**7.8**	**1.3**	**1.3**
Benzo(g,h,i)perylene	100	R	**4.6**	**0.4 J**	**0.66**
Benzo(k)fluoranthene	1.7	0.083 U	**14**	**2.4**	**1.7**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.83 U	3.9 U	0.41 U	0.4 U
Bis(2-chloroethyl)ether	--	0.083 U	0.39 U	0.041 U	0.04 U
Bis(2-ethylhexyl)phthalate	--	**0.78 J**	3.9 U	**0.2 J**	0.4 U
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.83 U	3.9 U	0.41 U	0.4 U
Butyl benzyl phthalate	--	0.83 U	3.9 U	0.41 U	0.4 U
Carbazole	--	0.83 U	**4.4**	**0.3 J**	**0.38 J**
Chloro-3-methylphenol, 4-	--	0.83 U	3.9 U	0.41 U	0.4 U
Chloroaniline, 4-	--	0.83 U	3.9 U	0.41 U	0.4 U
Chloronaphthalene, 2-	--	0.83 U	3.9 U	0.41 U	0.4 U
Chlorophenol, 2-	--	0.83 U	3.9 U	0.41 U	0.4 U
Chlorophenyl phenyl ether, 4-	--	0.83 U	3.9 U	0.41 U	0.4 U
Chrysene	1	**0.27 J**	**15**	**1.4**	**1.7**
Dibenzo(a,h)anthracene	0.33	R	**1.7**	R	**0.21 J**
Dibenzofuran	59	**0.032 J**	**6.1**	**0.066 J**	**0.21 J**
Dichlorobenzene, 1,2-	1.1	0.83 U	3.9 U	0.41 U	0.4 U
Dichlorobenzene, 1,3-	2.4	0.83 U	3.9 U	0.41 U	0.4 U
Dichlorobenzene, 1,4-	1.8	0.83 U	3.9 U	0.41 U	0.4 U
Dichlorobenzidine, 3,3-	--	1.6 U	7.9 U	0.82 U	0.8 U
Dichlorophenol, 2,4-	--	0.83 U	3.9 U	0.41 U	0.4 U
Diethyl phthalate	--	0.83 U	3.9 U	0.41 U	0.4 U
Dimethylphenol, 2,4-	--	0.83 U	**0.19 J**	0.41 U	0.4 U
Dimethyl phthalate	--	0.83 U	3.9 U	0.41 U	0.4 U
Di-n-butyl phthalate	--	0.83 U	3.9 U	0.41 U	0.4 U
Di-n-octyl phthalate	--	0.83 U	3.9 U	0.41 U	0.4 U
Dinitro-2-methylphenol, 4,6-	--	2.5 U	12 U	1.2 U	1.2 U
Dinitrophenol, 2,4-	--	2.5 U	12 U	1.2 U	1.2 U
Dinitrotoluene, 2,4-	--	0.16 U	0.79 U	0.082 U	0.08 U
Dinitrotoluene, 2,6-	--	0.16 U	0.79 U	0.082 U	0.08 U
Fluoranthene	100	**0.19 J**	**40**	**2.6**	**3.1**
Fluorene	100	0.83 U	**8.4**	**0.092 J**	**0.33 J**
Hexachlorobenzene	1.2	0.083 U	0.39 U	0.041 U	0.04 U
Hexachlorobutadiene	--	0.16 U	0.79 U	0.082 U	0.08 U
Hexachlorocyclopentadiene	--	0.83 U	3.9 U	0.41 U	0.4 U
Hexachloroethane	--	0.083 U	0.39 U	0.041 U	0.04 U
Indeno(1,2,3-cd)pyrene	0.5	R	**5.5**	**0.42**	**0.67**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-29	CGGP-30	CGGP-31	CGGP-31
Sample ID:		CGGP-29_6-8	CGGP-30_11-12	CGGP-31_10-11	DUP-03
Sample Interval (feet bgs):		6.00 to 8.00	11.00 to 12.00	10.00 to 11.00	10.00 to 11.00
Sample Interval (feet NAVD88):	Soil Cleanup	15.00 to 13.00	10.50 to 9.50	12.10 to 11.10	12.10 to 11.10
Parameter / Sample Date:	Objective[3]	3/13/2008	3/13/2008	3/13/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.83 U	3.9 U	0.41 U	0.4 U
Methylnaphthalene, 2-	--	**0.3 J**	**4.2**	**0.03 J**	**0.15 J**
Methylphenol, 2-	0.33	0.83 U	3.9 U	0.41 U	**0.015 J**
Methylphenol, 4-	0.33	0.83 U	**0.17 J**	0.41 U	**0.031 J**
Naphthalene	12	**0.13 J**	**6.2**	**0.061 J**	**0.43**
Nitroaniline, 2-	--	1.6 U	7.9 U	0.82 U	0.8 U
Nitroaniline, 3-	--	1.6 U	7.9 U	0.82 U	0.8 U
Nitroaniline, 4-	--	1.6 U	7.9 U	0.82 U	0.8 U
Nitrobenzene	--	0.083 U	0.39 U	0.041 U	0.04 U
Nitrophenol, 2-	--	0.83 U	3.9 U	0.41 U	0.4 U
Nitrophenol, 4-	--	2.5 U	12 U	1.2 U	1.2 U
N-Nitrosodi-n-propylamine	--	0.083 U	0.39 U	0.041 U	0.04 U
N-Nitrosodiphenylamine	--	**0.17 J**	3.9 U	0.41 U	0.4 U
Oxybis(1-chloropropane), 2,2'-	--	0.83 U	3.9 U	0.41 U	0.4 U
Pentachlorophenol	0.8	2.5 U	12 U	1.2 U	1.2 U
Phenanthrene	100	**0.36 J**	**51**	**1.9**	**2.5**
Phenol	0.33	0.83 U	3.9 U	0.41 U	0.4 U
Pyrene	100	**0.42 J**	**26**	**3.6**	**2.5**
Trichlorobenzene, 1,2,4-	--	0.083 U	0.39 U	0.041 U	0.04 U
Trichlorophenol, 2,4,5-	--	0.83 U	3.9 U	0.41 U	0.4 U
Trichlorophenol, 2,4,6-	--	0.83 U	3.9 U	0.41 U	0.4 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-32	CGGP-33	CGGP-34	CGGP-35
Sample ID:		CGGP-32_6-7	CGGP-33_3-4	CGGP-34_3-4	CGGP-35_3-3.5
Sample Interval (feet bgs):		6.00 to 7.00	3.00 to 4.00	3.00 to 3.50	2.00 to 3.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.30 to 13.30	18.30 to 17.30	19.40 to 18.90	21.10 to 20.10
Parameter / Sample Date:	Objective[3]	3/14/2008	3/14/2008	3/14/2008	3/13/2008
Volatile Organic Compounds					
Acetone	0.05	**9**	**0.19 B**	**0.098 B**	0.0058 UB
Benzene	0.06	0.11 U	0.0011 U	0.0011 U	0.0012 U
Bromodichloromethane	--	0.11 U	0.0011 U	0.0011 U	0.0012 U
Bromoform	--	0.45 U	0.0045 U	0.0044 U	0.0046 U
Bromomethane	--	0.56 UJ	0.0057 U	0.0055 U	0.0058 U
Butanone, 2-	0.12	0.56 U	**0.003 J**	**0.0035 J**	**0.0036 J**
Carbon disulfide	--	0.56 U	**0.0005 J**	**0.0015 J**	**0.0007 J**
Carbon tetrachloride	0.76	0.22 U	0.0023 U	0.0022 U	0.0023 U
Chlorobenzene	1.1	0.56 U	0.0057 U	0.0055 U	0.0058 U
Chloroethane	--	0.56 UJ	0.0057 U	0.0055 U	0.0058 U
Chloroform	0.37	0.56 U	0.0057 U	0.0055 U	0.0058 U
Chloromethane	--	0.56 UJ	0.0057 U	0.0055 U	0.0058 U
Dibromochloromethane	--	0.56 U	0.0057 U	0.0055 U	0.0058 U
Dichloroethane, 1,1-	0.27	0.56 U	0.0057 U	0.0055 U	0.0058 U
Dichloroethane, 1,2-	0.02	0.22 UJ	0.0023 U	0.0022 U	0.0023 U
Dichloroethene, 1,1-	0.33	0.22 U	0.0023 U	0.0022 U	0.0023 U
Dichloroethene, cis-1,2-	0.25	0.56 U	0.0057 U	0.0055 U	0.0058 U
Dichloroethene, trans-1,2-	0.19	0.56 U	0.0057 U	0.0055 U	0.0058 U
Dichloropropane, 1,2-	--	0.11 U	0.0011 U	0.0011 U	0.0012 U
Dichloropropene, cis-1,3-	--	0.56 U	0.0057 U	0.0055 U	0.0058 U
Dichloropropene, trans-1,3-	--	0.56 U	0.0057 U	0.0055 U	0.0058 U
Ethylbenzene	1	0.45 U	0.0045 U	0.0044 U	0.0046 U
Hexanone, 2-	--	0.56 UJ	0.0057 U	0.0055 U	0.0058 U
Methyl-2-pentanone, 4-	--	0.56 U	0.0057 U	0.0055 U	0.0058 U
Methylene chloride	0.05	0.34 U	0.0034 UJB	0.0033 UJB	0.0035 UB
Styrene	--	0.56 U	0.0057 U	0.0055 U	0.0058 U
Tetrachloroethane, 1,1,2,2-	--	0.11 U	0.0011 U	0.0011 U	0.0012 U
Tetrachloroethene	1.3	0.11 U	0.0011 U	0.0011 U	0.0012 U
Toluene	0.7	0.56 U	0.0057 U	0.0055 U	0.0058 U
Trichloroethane, 1,1,1-	0.68	R	0.0057 U	0.0055 U	0.0058 U
Trichloroethane, 1,1,2-	--	0.34 U	0.0034 U	0.0033 U	0.0035 U
Trichloroethene	0.47	0.11 U	0.0011 U	0.0011 U	0.0012 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.56 U	0.0057 U	0.0055 U	0.0058 U
Xylenes, Total	1.6	0.56 U	0.0057 U	0.0055 U	0.0058 U
Semivolatile Organic Compounds					
Acenaphthene	98	**29**	**0.024 J**	**0.3 J**	**0.049 J**
Acenaphthylene	100	**2.7 J**	**0.021 J**	**0.73 J**	**0.053 J**
Anthracene	100	**100**	**0.14 J**	**1.2**	**0.1 J**
Benzo(a)anthracene	1	**120**	**0.34**	**4.3**	**0.6**
Benzo(a)pyrene	1	**80**	**0.29**	**2.8**	**0.62**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-32	CGGP-33	CGGP-34	CGGP-35
Sample ID:		CGGP-32_6-7	CGGP-33_3-4	CGGP-34_3-4	CGGP-35_3-3.5
Sample Interval (feet bgs):		6.00 to 7.00	3.00 to 4.00	3.00 to 3.50	2.00 to 3.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.30 to 13.30	18.30 to 17.30	19.40 to 18.90	21.10 to 20.10
Parameter / Sample Date:	Objective[3]	3/14/2008	3/14/2008	3/14/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**51**	**0.19**	**3**	**0.66**
Benzo(g,h,i)perylene	100	**33**	**0.17 J**	**0.89**	**0.23 J**
Benzo(k)fluoranthene	1.7	**89**	**0.27**	**4**	**0.29**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	19 U	0.39 U	0.77 U	0.39 U
Bis(2-chloroethyl)ether	--	1.9 U	0.039 U	0.077 U	0.039 U
Bis(2-ethylhexyl)phthalate	--	19 U	0.39 U	0.77 U	0.39 U
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	19 U	0.39 U	0.77 U	0.39 U
Butyl benzyl phthalate	--	19 U	0.39 U	0.77 U	0.39 U
Carbazole	--	**31**	**0.042 J**	**0.63 J**	**0.068 J**
Chloro-3-methylphenol, 4-	--	19 U	0.39 U	0.77 U	0.39 U
Chloroaniline, 4-	--	19 U	0.39 U	0.77 U	0.39 U
Chloronaphthalene, 2-	--	19 U	0.39 U	0.77 U	0.39 U
Chlorophenol, 2-	--	19 U	0.39 U	0.77 U	0.39 U
Chlorophenyl phenyl ether, 4-	--	19 U	0.39 U	0.77 U	0.39 U
Chrysene	1	**120**	**0.35 J**	**5.3**	**0.81**
Dibenzo(a,h)anthracene	0.33	**13**	0.039 U	**0.43**	**0.14**
Dibenzofuran	59	**21**	**0.023 J**	**0.5 J**	**0.046 J**
Dichlorobenzene, 1,2-	1.1	19 U	0.39 U	0.77 U	0.39 U
Dichlorobenzene, 1,3-	2.4	19 U	0.39 U	0.77 U	0.39 U
Dichlorobenzene, 1,4-	1.8	19 U	0.39 U	0.77 U	0.39 U
Dichlorobenzidine, 3,3-	--	38 U	0.78 U	1.5 U	0.78 UJ
Dichlorophenol, 2,4-	--	19 U	0.39 U	0.77 U	0.39 U
Diethyl phthalate	--	19 U	0.39 U	0.77 U	0.39 U
Dimethylphenol, 2,4-	--	19 U	0.39 U	0.77 U	0.39 U
Dimethyl phthalate	--	19 U	0.39 U	0.77 U	0.39 U
Di-n-butyl phthalate	--	19 U	0.39 U	0.77 U	0.39 U
Di-n-octyl phthalate	--	19 U	0.39 U	0.77 U	0.39 U
Dinitro-2-methylphenol, 4,6-	--	58 U	1.2 U	2.3 U	1.2 UJ
Dinitrophenol, 2,4-	--	R	R	R	1.2 U
Dinitrotoluene, 2,4-	--	3.8 U	0.078 U	0.15 U	0.078 U
Dinitrotoluene, 2,6-	--	3.8 U	0.078 U	0.15 U	0.078 U
Fluoranthene	100	**270**	**0.58**	**11**	**1**
Fluorene	100	**45**	**0.029 J**	**1.1**	**0.085 J**
Hexachlorobenzene	1.2	1.9 U	0.039 U	0.077 U	0.039 U
Hexachlorobutadiene	--	3.8 U	0.078 U	0.15 U	0.078 U
Hexachlorocyclopentadiene	--	19 UJ	0.39 U	0.77 U	0.39 UJ
Hexachloroethane	--	1.9 U	0.039 U	0.077 U	0.039 U
Indeno(1,2,3-cd)pyrene	0.5	**38**	**0.17**	**1.1**	**0.22**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-32	CGGP-33	CGGP-34	CGGP-35
Sample ID:		CGGP-32_6-7	CGGP-33_3-4	CGGP-34_3-4	CGGP-35_3-3.5
Sample Interval (feet bgs):		6.00 to 7.00	3.00 to 4.00	3.00 to 3.50	2.00 to 3.00
Sample Interval (feet NAVD88):	Soil Cleanup	14.30 to 13.30	18.30 to 17.30	19.40 to 18.90	21.10 to 20.10
Parameter / Sample Date:	Objective[3]	3/14/2008	3/14/2008	3/14/2008	3/13/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	19 U	0.39 U	0.77 U	0.39 U
Methylnaphthalene, 2-	--	**14 J**	0.39 U	**0.2 J**	**0.008 J**
Methylphenol, 2-	0.33	19 U	0.39 U	0.77 U	0.39 U
Methylphenol, 4-	0.33	19 U	0.39 U	**0.022 J**	0.39 U
Naphthalene	12	**15 J**	0.39 U	**0.23 J**	**0.029 J**
Nitroaniline, 2-	--	38 U	0.78 U	1.5 U	0.78 U
Nitroaniline, 3-	--	38 U	0.78 U	1.5 U	0.78 U
Nitroaniline, 4-	--	38 U	0.78 U	1.5 U	0.78 U
Nitrobenzene	--	1.9 U	0.039 U	0.077 U	0.039 U
Nitrophenol, 2-	--	19 U	0.39 U	0.77 U	0.39 U
Nitrophenol, 4-	--	58 U	1.2 U	2.3 U	1.2 U
N-Nitrosodi-n-propylamine	--	1.9 U	0.039 U	0.077 U	0.039 U
N-Nitrosodiphenylamine	--	19 U	0.39 U	0.77 U	0.39 U
Oxybis(1-chloropropane), 2,2'-	--	19 U	0.39 U	0.77 U	0.39 U
Pentachlorophenol	0.8	58 U	1.2 U	2.3 U	1.2 U
Phenanthrene	100	**350**	**0.46**	**10**	**0.67**
Phenol	0.33	19 U	0.39 U	0.77 U	0.39 U
Pyrene	100	**230**	**0.6**	**9.4**	**0.96**
Trichlorobenzene, 1,2,4-	--	1.9 U	0.039 U	0.077 U	0.039 U
Trichlorophenol, 2,4,5-	--	19 U	0.39 U	0.77 U	0.39 U
Trichlorophenol, 2,4,6-	--	19 U	0.39 U	0.77 U	0.39 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-36	CGGP-37	CGGP-38	CGGP-38
Sample ID:		CGGP-36_2-3	CGGP-37_6-8	CGGP-38_7-8	CGGP-38_13-14
Sample Interval (feet bgs):		2.00 to 3.00	6.00 to 8.00	7.00 to 8.00	13.00 to 14.00
Sample Interval (feet NAVD88):	Soil Cleanup	21.80 to 20.80	16.00 to 14.00	15.90 to 14.90	9.90 to 8.90
Parameter / Sample Date:	Objective[3]	3/13/2008	3/14/2008	3/14/2008	3/14/2008
Volatile Organic Compounds					
Acetone	0.05	0.0055 UB	0.0055 UB	0.0059 UB	0.0057 UB
Benzene	0.06	0.0011 U	**0.0005 J**	0.0012 U	0.0011 U
Bromodichloromethane	--	0.0011 U	0.0011 U	0.0012 U	0.0011 U
Bromoform	--	0.0044 U	0.0044 U	0.0047 U	0.0046 U
Bromomethane	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Butanone, 2-	0.12	R	R	R	R
Carbon disulfide	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Carbon tetrachloride	0.76	0.0022 U	0.0022 U	0.0024 U	0.0023 U
Chlorobenzene	1.1	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Chloroethane	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Chloroform	0.37	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Chloromethane	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Dibromochloromethane	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Dichloroethane, 1,1-	0.27	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Dichloroethane, 1,2-	0.02	0.0022 U	0.0022 U	0.0024 U	0.0023 U
Dichloroethene, 1,1-	0.33	0.0022 U	0.0022 U	0.0024 U	0.0023 U
Dichloroethene, cis-1,2-	0.25	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Dichloroethene, trans-1,2-	0.19	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Dichloropropane, 1,2-	--	0.0011 U	0.0011 U	0.0012 U	0.0011 U
Dichloropropene, cis-1,3-	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Dichloropropene, trans-1,3-	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Ethylbenzene	1	0.0044 U	0.0044 U	0.0047 U	0.0046 U
Hexanone, 2-	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Methyl-2-pentanone, 4-	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Methylene chloride	0.05	0.0033 UB	0.0033 UJB	0.0035 UJB	0.0034 UJB
Styrene	--	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Tetrachloroethane, 1,1,2,2-	--	0.0011 U	0.0011 U	0.0012 U	0.0011 U
Tetrachloroethene	1.3	0.0011 U	0.0011 U	0.0012 U	**0.0006 J**
Toluene	0.7	0.0055 U	0.0055 U	**0.0017 J**	0.0057 U
Trichloroethane, 1,1,1-	0.68	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Trichloroethane, 1,1,2-	--	0.0033 U	0.0033 U	0.0035 U	0.0034 U
Trichloroethene	0.47	0.0011 U	0.0011 U	0.0012 U	**0.0032**
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0055 U	0.0055 U	0.0059 U	0.0057 U
Xylenes, Total	1.6	0.0055 U	0.0055 U	0.0059 U	**0.0016 J**
Semivolatile Organic Compounds					
Acenaphthene	98	**0.046 J**	0.37 U	**0.068 J**	**0.65 J**
Acenaphthylene	100	**0.15 J**	0.37 U	**1.6**	**0.78 J**
Anthracene	100	**0.24 J**	0.37 U	**0.35 J**	**3.4**
Benzo(a)anthracene	1	**1.4**	**0.014 J**	**0.74**	**7.4**
Benzo(a)pyrene	1	**1.5**	0.037 U	**1.9 J**	**6.2 J**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-36	CGGP-37	CGGP-38	CGGP-38
Sample ID:		CGGP-36_2-3	CGGP-37_6-8	CGGP-38_7-8	CGGP-38_13-14
Sample Interval (feet bgs):		2.00 to 3.00	6.00 to 8.00	7.00 to 8.00	13.00 to 14.00
Sample Interval (feet NAVD88):	Soil Cleanup	21.80 to 20.80	16.00 to 14.00	15.90 to 14.90	9.90 to 8.90
Parameter / Sample Date:	Objective[3]	3/13/2008	3/14/2008	3/14/2008	3/14/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**1.7**	0.037 U	**1 J**	**6.7 J**
Benzo(g,h,i)perylene	100	**0.39 J**	0.37 U	**0.59 J**	**1.5 J**
Benzo(k)fluoranthene	1.7	**2**	0.037 U	**1.5 J**	**8.2 J**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.38 U	0.37 U	0.79 U	0.79 U
Bis(2-chloroethyl)ether	--	0.038 U	0.037 U	0.079 U	0.079 U
Bis(2-ethylhexyl)phthalate	--	**0.5**	**0.12 J**	**0.23 J**	**0.18 J**
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.38 U	0.37 U	0.79 U	0.79 U
Butyl benzyl phthalate	--	0.38 U	0.37 U	0.79 U	0.79 U
Carbazole	--	**0.13 J**	0.37 U	0.79 U	**1.7**
Chloro-3-methylphenol, 4-	--	0.38 U	0.37 U	0.79 U	0.79 U
Chloroaniline, 4-	--	0.38 U	0.37 U	0.79 U	0.79 U
Chloronaphthalene, 2-	--	0.38 U	0.37 U	0.79 U	0.79 U
Chlorophenol, 2-	--	0.38 U	0.37 U	0.79 U	0.79 U
Chlorophenyl phenyl ether, 4-	--	0.38 U	0.37 U	0.79 U	0.79 U
Chrysene	1	**1.7**	**0.024 J**	**1**	**7.3**
Dibenzo(a,h)anthracene	0.33	**0.22 J**	0.037 U	**0.27 J**	**0.6 J**
Dibenzofuran	59	**0.044 J**	0.37 U	**0.04 J**	**0.88**
Dichlorobenzene, 1,2-	1.1	0.38 U	0.37 U	0.79 U	0.79 U
Dichlorobenzene, 1,3-	2.4	0.38 U	0.37 U	0.79 U	0.79 U
Dichlorobenzene, 1,4-	1.8	0.38 U	0.37 U	0.79 U	0.79 U
Dichlorobenzidine, 3,3-	--	0.76 U	0.74 U	1.6 U	1.6 U
Dichlorophenol, 2,4-	--	0.38 U	0.37 U	0.79 U	0.79 U
Diethyl phthalate	--	0.38 U	0.37 U	0.79 U	0.79 U
Dimethylphenol, 2,4-	--	0.38 U	0.37 U	0.79 U	**0.058 J**
Dimethyl phthalate	--	0.38 U	0.37 U	0.79 U	0.79 U
Di-n-butyl phthalate	--	0.38 U	0.37 U	0.79 U	0.79 U
Di-n-octyl phthalate	--	0.38 U	0.37 U	0.79 UJ	0.79 UJ
Dinitro-2-methylphenol, 4,6-	--	1.1 U	1.1 U	2.4 U	2.4 U
Dinitrophenol, 2,4-	--	1.1 U	R	R	R
Dinitrotoluene, 2,4-	--	0.076 U	0.074 U	0.16 U	0.16 U
Dinitrotoluene, 2,6-	--	0.076 U	0.074 U	0.16 U	0.16 U
Fluoranthene	100	**2.4**	0.37 U	**0.39 J**	**15**
Fluorene	100	**0.049 J**	0.37 U	**0.21 J**	**1.1**
Hexachlorobenzene	1.2	0.038 U	0.037 U	0.079 U	0.079 U
Hexachlorobutadiene	--	0.076 U	0.074 U	0.16 U	0.16 U
Hexachlorocyclopentadiene	--	0.38 U	0.37 U	0.79 U	0.79 U
Hexachloroethane	--	0.038 U	0.037 U	0.079 U	0.079 U
Indeno(1,2,3-cd)pyrene	0.5	**0.49 J**	0.037 U	**0.61 J**	**1.7 J**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-36	CGGP-37	CGGP-38	CGGP-38
Sample ID:		CGGP-36_2-3	CGGP-37_6-8	CGGP-38_7-8	CGGP-38_13-14
Sample Interval (feet bgs):		2.00 to 3.00	6.00 to 8.00	7.00 to 8.00	13.00 to 14.00
Sample Interval (feet NAVD88):	Soil Cleanup	21.80 to 20.80	16.00 to 14.00	15.90 to 14.90	9.90 to 8.90
Parameter / Sample Date:	Objective[3]	3/13/2008	3/14/2008	3/14/2008	3/14/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.38 U	0.37 U	0.79 U	0.79 U
Methylnaphthalene, 2-	--	**0.02 J**	**0.072 J**	**0.28 J**	**0.4 J**
Methylphenol, 2-	0.33	0.38 U	0.37 U	0.79 U	**0.032 J**
Methylphenol, 4-	0.33	**0.013 J**	0.37 U	0.79 U	**0.088 J**
Naphthalene	12	**0.052 J**	**0.21 J**	**0.34 J**	**0.74 J**
Nitroaniline, 2-	--	0.76 U	0.74 U	1.6 U	1.6 U
Nitroaniline, 3-	--	0.76 U	0.74 U	1.6 U	1.6 U
Nitroaniline, 4-	--	0.76 U	0.74 U	1.6 U	1.6 U
Nitrobenzene	--	0.038 U	0.037 U	0.079 U	0.079 U
Nitrophenol, 2-	--	0.38 U	0.37 U	0.79 U	0.79 U
Nitrophenol, 4-	--	1.1 U	1.1 U	2.4 U	2.4 U
N-Nitrosodi-n-propylamine	--	0.038 U	0.037 U	0.079 U	0.079 U
N-Nitrosodiphenylamine	--	0.38 U	0.37 U	0.79 U	0.79 U
Oxybis(1-chloropropane), 2,2'-	--	0.38 U	0.37 U	0.79 U	0.79 U
Pentachlorophenol	0.8	1.1 U	1.1 U	2.4 U	2.4 U
Phenanthrene	100	**1**	0.37 U	**0.26 J**	**14**
Phenol	0.33	0.38 U	0.37 U	0.79 U	0.79 U
Pyrene	100	**3**	0.37 U	**1**	**17**
Trichlorobenzene, 1,2,4-	--	0.038 U	0.037 U	0.079 U	0.079 U
Trichlorophenol, 2,4,5-	--	0.38 U	0.37 U	0.79 U	0.79 U
Trichlorophenol, 2,4,6-	--	0.38 U	0.37 U	0.79 U	0.79 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-39	CGGP-40A	CGGP-41	CGGP-42
Sample ID:		CGGP-39_14-15	CGGP-40A_3-4	CGGP-41_13-14	CGGP-42_3-4
Sample Interval (feet bgs):		14.00 to 15.00	3.00 to 4.00	13.00 to 14.00	3.00 to 4.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.50 to 10.50	21.70 to 20.70	7.30 to 6.30	14.40 to 13.40
Parameter / Sample Date:	Objective[3]	3/17/2008	3/14/2008	3/17/2008	3/17/2008
Volatile Organic Compounds					
Acetone	0.05	0.0053 UB	**2.5**	0.0057 UB	0.0058 UB
Benzene	0.06	0.001 U	0.11 U	0.0011 U	0.0012 U
Bromodichloromethane	--	0.001 U	0.11 U	0.0011 U	0.0012 U
Bromoform	--	0.0042 U	0.46 U	0.0045 U	0.0046 U
Bromomethane	--	0.0053 U	0.57 UJ	0.0057 U	0.0058 U
Butanone, 2-	0.12	R	R	R	R
Carbon disulfide	--	0.0053 U	0.57 U	0.0057 U	0.0058 U
Carbon tetrachloride	0.76	0.0021 U	0.23 U	0.0023 U	0.0023 U
Chlorobenzene	1.1	0.0053 U	0.57 U	0.0057 U	0.0058 U
Chloroethane	--	0.0053 U	0.57 UJ	0.0057 U	0.0058 U
Chloroform	0.37	0.0053 U	0.57 U	0.0057 U	0.0058 U
Chloromethane	--	0.0053 U	0.57 UJ	0.0057 U	0.0058 U
Dibromochloromethane	--	0.0053 U	0.57 U	0.0057 U	0.0058 U
Dichloroethane, 1,1-	0.27	0.0053 U	0.57 UJ	0.0057 U	0.0058 U
Dichloroethane, 1,2-	0.02	0.0021 U	0.23 U	0.0023 U	0.0023 U
Dichloroethene, 1,1-	0.33	0.0021 U	0.23 U	0.0023 U	0.0023 U
Dichloroethene, cis-1,2-	0.25	0.0053 U	0.57 U	0.0057 U	0.0058 U
Dichloroethene, trans-1,2-	0.19	0.0053 U	0.57 U	0.0057 U	0.0058 U
Dichloropropane, 1,2-	--	0.001 U	0.11 U	0.0011 U	0.0012 U
Dichloropropene, cis-1,3-	--	0.0053 U	0.57 U	0.0057 U	0.0058 U
Dichloropropene, trans-1,3-	--	0.0053 U	0.57 U	0.0057 U	0.0058 U
Ethylbenzene	1	0.0042 U	0.46 U	0.0045 U	**0.0009 J**
Hexanone, 2-	--	0.0053 U	0.57 UJ	0.0057 U	0.0058 U
Methyl-2-pentanone, 4-	--	0.0053 U	0.57 U	0.0057 U	0.0058 U
Methylene chloride	0.05	0.0032 UJB	0.34 UJ	0.0034 UJB	0.0035 UJB
Styrene	--	0.0053 U	0.57 U	0.0057 U	0.0058 U
Tetrachloroethane, 1,1,2,2-	--	0.001 U	0.11 U	0.0011 U	0.0012 U
Tetrachloroethene	1.3	0.001 U	0.11 U	0.0011 U	0.0012 U
Toluene	0.7	0.0053 U	0.57 U	0.0057 U	0.0058 U
Trichloroethane, 1,1,1-	0.68	0.0053 U	0.57 U	0.0057 U	0.0058 U
Trichloroethane, 1,1,2-	--	0.0032 U	0.34 U	0.0034 U	0.0035 U
Trichloroethene	0.47	0.001 U	0.11 U	0.0011 U	0.0012 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0053 U	0.57 U	0.0057 U	0.0058 U
Xylenes, Total	1.6	0.0053 U	0.57 U	0.0057 U	0.0058 U
Semivolatile Organic Compounds					
Acenaphthene	98	0.36 U	0.4 U	**0.054 J**	0.39 U
Acenaphthylene	100	0.36 U	**0.035 J**	0.4 U	0.39 U
Anthracene	100	0.36 U	**0.024 J**	**0.17 J**	**0.017 J**
Benzo(a)anthracene	1	0.036 U	**0.041**	**0.49**	**0.12**
Benzo(a)pyrene	1	0.036 U	**0.1 J**	**0.36**	**0.097**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-39	CGGP-40A	CGGP-41	CGGP-42
Sample ID:		CGGP-39_14-15	CGGP-40A_3-4	CGGP-41_13-14	CGGP-42_3-4
Sample Interval (feet bgs):		14.00 to 15.00	3.00 to 4.00	13.00 to 14.00	3.00 to 4.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.50 to 10.50	21.70 to 20.70	7.30 to 6.30	14.40 to 13.40
Parameter / Sample Date:	Objective[3]	3/17/2008	3/14/2008	3/17/2008	3/17/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	0.036 U	**0.062 J**	**0.36**	**0.07**
Benzo(g,h,i)perylene	100	0.36 U	0.4 UJ	**0.21 J**	0.39 U
Benzo(k)fluoranthene	1.7	0.036 U	**0.077 J**	**0.44**	**0.12**
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.36 U	0.4 U	0.4 U	0.39 U
Bis(2-chloroethyl)ether	--	0.036 U	0.04 U	0.04 U	0.039 U
Bis(2-ethylhexyl)phthalate	--	0.36 U	0.4 U	**0.11 J**	0.39 U
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.36 U	0.4 U	0.4 U	0.39 U
Butyl benzyl phthalate	--	0.36 U	0.4 U	0.4 U	0.39 U
Carbazole	--	0.36 U	**0.014 J**	**0.13 J**	0.39 U
Chloro-3-methylphenol, 4-	--	0.36 U	0.4 U	0.4 U	0.39 U
Chloroaniline, 4-	--	0.36 UJ	0.4 U	0.4 UJ	0.39 UJ
Chloronaphthalene, 2-	--	0.36 U	0.4 U	0.4 U	0.39 U
Chlorophenol, 2-	--	0.36 U	0.4 U	0.4 U	0.39 U
Chlorophenyl phenyl ether, 4-	--	0.36 U	0.4 U	0.4 U	0.39 U
Chrysene	1	0.36 U	**0.07 J**	**0.5**	**0.13 J**
Dibenzo(a,h)anthracene	0.33	0.036 U	0.04 UJ	0.04 U	0.039 U
Dibenzofuran	59	0.36 U	0.4 U	**0.051 J**	0.39 U
Dichlorobenzene, 1,2-	1.1	0.36 U	0.4 U	0.4 U	0.39 U
Dichlorobenzene, 1,3-	2.4	0.36 U	0.4 U	0.4 U	0.39 U
Dichlorobenzene, 1,4-	1.8	0.36 U	0.4 U	0.4 U	0.39 U
Dichlorobenzidine, 3,3-	--	0.72 UJ	0.8 U	0.8 UJ	0.78 UJ
Dichlorophenol, 2,4-	--	0.36 U	0.4 U	0.4 U	0.39 U
Diethyl phthalate	--	0.36 U	0.4 U	0.4 U	0.39 U
Dimethylphenol, 2,4-	--	0.36 U	0.4 U	0.4 U	0.39 U
Dimethyl phthalate	--	0.36 U	0.4 U	0.4 U	0.39 U
Di-n-butyl phthalate	--	0.36 U	0.4 U	0.4 U	0.39 U
Di-n-octyl phthalate	--	0.36 U	0.4 UJ	0.4 U	0.39 U
Dinitro-2-methylphenol, 4,6-	--	1.1 U	1.2 U	1.2 U	1.2 U
Dinitrophenol, 2,4-	--	1.1 U	R	1.2 U	1.2 U
Dinitrotoluene, 2,4-	--	0.072 U	0.08 U	0.08 U	0.078 U
Dinitrotoluene, 2,6-	--	0.072 U	0.08 U	0.08 U	0.078 U
Fluoranthene	100	0.36 U	**0.049 J**	**1**	**0.2 J**
Fluorene	100	0.36 U	0.4 U	**0.057 J**	0.39 U
Hexachlorobenzene	1.2	0.036 U	0.04 U	0.04 U	0.039 U
Hexachlorobutadiene	--	0.072 U	0.08 U	0.08 U	0.078 U
Hexachlorocyclopentadiene	--	0.36 U	0.4 U	0.4 U	0.39 U
Hexachloroethane	--	0.036 U	0.04 U	0.04 U	0.039 U
Indeno(1,2,3-cd)pyrene	0.5	0.036 U	0.04 UJ	**0.19**	0.039 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-39	CGGP-40A	CGGP-41	CGGP-42
Sample ID:		CGGP-39_14-15	CGGP-40A_3-4	CGGP-41_13-14	CGGP-42_3-4
Sample Interval (feet bgs):		14.00 to 15.00	3.00 to 4.00	13.00 to 14.00	3.00 to 4.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.50 to 10.50	21.70 to 20.70	7.30 to 6.30	14.40 to 13.40
Parameter / Sample Date:	Objective[3]	3/17/2008	3/14/2008	3/17/2008	3/17/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.36 U	0.4 U	0.4 U	0.39 U
Methylnaphthalene, 2-	--	0.36 U	**0.035 J**	**0.03 J**	0.39 U
Methylphenol, 2-	0.33	0.36 U	0.4 U	0.4 U	0.39 U
Methylphenol, 4-	0.33	0.36 U	**0.036 J**	0.4 U	0.39 U
Naphthalene	12	0.36 U	0.4 U	**0.12 J**	0.39 U
Nitroaniline, 2-	--	0.72 U	0.8 U	0.8 U	0.78 U
Nitroaniline, 3-	--	0.72 U	0.8 U	0.8 U	0.78 U
Nitroaniline, 4-	--	0.72 U	0.8 U	0.8 U	0.78 U
Nitrobenzene	--	0.036 U	0.04 U	0.04 U	0.039 U
Nitrophenol, 2-	--	0.36 U	0.4 U	0.4 U	0.39 U
Nitrophenol, 4-	--	1.1 U	1.2 U	1.2 U	1.2 U
N-Nitrosodi-n-propylamine	--	0.036 U	0.04 U	0.04 U	0.039 U
N-Nitrosodiphenylamine	--	0.36 U	0.4 U	0.4 U	0.39 U
Oxybis(1-chloropropane), 2,2'-	--	0.36 U	0.4 U	0.4 U	0.39 U
Pentachlorophenol	0.8	1.1 U	1.2 U	1.2 U	1.2 U
Phenanthrene	100	0.36 U	**0.062 J**	**0.7**	**0.075 J**
Phenol	0.33	0.36 U	0.4 U	0.4 U	0.39 U
Pyrene	100	0.36 U	**0.087 J**	**0.91**	**0.21 J**
Trichlorobenzene, 1,2,4-	--	0.036 U	0.04 U	0.04 U	0.039 U
Trichlorophenol, 2,4,5-	--	0.36 U	0.4 U	0.4 U	0.39 U
Trichlorophenol, 2,4,6-	--	0.36 U	0.4 U	0.4 U	0.39 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-43	CGGP-44	CGGP-44	CGGP-45
Sample ID:		CGGP-43_2-3	CGGP-44_9-10	CGGP-44_12-13	CGGP-45_10-11
Sample Interval (feet bgs):		2.00 to 3.00	9.00 to 10.00	12.00 to 13.00	10.00 to 11.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.70 to 10.70	5.10 to 4.10	2.10 to 1.10	5.10 to 4.10
Parameter / Sample Date:	Objective[3]	3/17/2008	3/17/2008	3/17/2008	3/17/2008
Volatile Organic Compounds					
Acetone	0.05	0.0055 UB	0.56 U	0.6 U	12 U
Benzene	0.06	0.0011 U	**0.31**	0.12 U	**1.3 J**
Bromodichloromethane	--	0.0011 U	0.11 U	0.12 U	2.3 U
Bromoform	--	0.0044 U	0.45 U	0.48 U	9.3 U
Bromomethane	--	0.0055 U	0.56 U	0.6 U	12 U
Butanone, 2-	0.12	R	R	R	R
Carbon disulfide	--	0.0055 U	0.56 U	0.6 U	12 U
Carbon tetrachloride	0.76	0.0022 U	0.22 U	0.24 U	4.6 U
Chlorobenzene	1.1	0.0055 U	0.56 U	0.6 U	12 U
Chloroethane	--	0.0055 U	0.56 U	0.6 U	12 U
Chloroform	0.37	0.0055 U	0.56 U	0.6 U	12 U
Chloromethane	--	0.0055 U	0.56 U	0.6 U	12 U
Dibromochloromethane	--	0.0055 U	0.56 U	0.6 U	12 U
Dichloroethane, 1,1-	0.27	0.0055 U	0.56 U	0.6 U	12 U
Dichloroethane, 1,2-	0.02	0.0022 U	0.22 U	0.24 U	4.6 U
Dichloroethene, 1,1-	0.33	0.0022 U	0.22 U	0.24 U	4.6 U
Dichloroethene, cis-1,2-	0.25	0.0055 U	0.56 U	0.6 U	12 U
Dichloroethene, trans-1,2-	0.19	0.0055 U	0.56 U	0.6 U	12 U
Dichloropropane, 1,2-	--	0.0011 U	0.11 U	0.12 U	2.3 U
Dichloropropene, cis-1,3-	--	0.0055 U	0.56 U	0.6 U	12 U
Dichloropropene, trans-1,3-	--	0.0055 U	0.56 U	0.6 U	12 U
Ethylbenzene	1	0.0044 U	**0.82**	**0.36 J**	**200**
Hexanone, 2-	--	0.0055 U	0.56 U	0.6 U	12 U
Methyl-2-pentanone, 4-	--	0.0055 U	0.56 U	0.6 U	12 U
Methylene chloride	0.05	0.0033 UJB	0.34 U	0.36 U	7 U
Styrene	--	0.0055 U	0.56 U	0.6 U	12 U
Tetrachloroethane, 1,1,2,2-	--	0.0011 U	0.11 U	0.12 U	2.3 U
Tetrachloroethene	1.3	0.0011 U	0.11 U	0.12 U	2.3 U
Toluene	0.7	0.0055 U	**0.45 J**	0.6 U	**18**
Trichloroethane, 1,1,1-	0.68	0.0055 U	0.56 U	0.6 U	12 U
Trichloroethane, 1,1,2-	--	0.0033 U	0.34 U	0.36 U	7 U
Trichloroethene	0.47	0.0011 U	0.11 U	0.12 U	2.3 U
Vinyl acetate	--	NA	NA	NA	NA
Vinyl chloride	0.02	0.0055 U	0.56 U	0.6 U	12 U
Xylenes, Total	1.6	0.0055 U	**0.77**	**0.32 J**	**220**
Semivolatile Organic Compounds					
Acenaphthene	98	**0.14 J**	0.38 U	0.42 U	8 U
Acenaphthylene	100	**0.59 J**	0.38 U	0.42 U	8 U
Anthracene	100	**0.94**	0.38 U	**0.01 J**	8 U
Benzo(a)anthracene	1	**5.6**	0.038 U	0.042 U	0.8 U
Benzo(a)pyrene	1	**4.2**	0.038 U	0.042 U	0.8 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-43	CGGP-44	CGGP-44	CGGP-45
Sample ID:		CGGP-43_2-3	CGGP-44_9-10	CGGP-44_12-13	CGGP-45_10-11
Sample Interval (feet bgs):		2.00 to 3.00	9.00 to 10.00	12.00 to 13.00	10.00 to 11.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.70 to 10.70	5.10 to 4.10	2.10 to 1.10	5.10 to 4.10
Parameter / Sample Date:	Objective[3]	3/17/2008	3/17/2008	3/17/2008	3/17/2008
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	1	**3.9**	0.038 U	0.042 U	0.8 U
Benzo(g,h,i)perylene	100	**1.3**	0.38 U	0.42 U	8 U
Benzo(k)fluoranthene	1.7	**5.6**	0.038 U	0.042 U	0.8 U
Benzoic acid	--	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.75 U	0.38 U	0.42 U	8 U
Bis(2-chloroethyl)ether	--	0.075 U	0.038 U	0.042 U	0.8 U
Bis(2-ethylhexyl)phthalate	--	0.75 U	0.38 U	0.42 U	8 U
Bis(chloroisopropyl)ether	--	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	--	0.75 U	0.38 U	0.42 U	8 U
Butyl benzyl phthalate	--	0.75 U	0.38 U	0.42 U	8 U
Carbazole	--	**0.25 J**	0.38 U	0.42 U	8 U
Chloro-3-methylphenol, 4-	--	0.75 U	0.38 U	0.42 U	8 U
Chloroaniline, 4-	--	0.75 UJ	0.38 UJ	0.42 UJ	8 UJ
Chloronaphthalene, 2-	--	0.75 U	0.38 U	0.42 U	8 U
Chlorophenol, 2-	--	0.75 U	0.38 U	0.42 U	8 U
Chlorophenyl phenyl ether, 4-	--	0.75 U	0.38 U	0.42 U	8 U
Chrysene	1	**5.2**	0.38 U	0.42 U	8 U
Dibenzo(a,h)anthracene	0.33	**0.55**	0.038 U	0.042 U	0.8 U
Dibenzofuran	59	**0.065 J**	0.38 U	0.42 U	8 U
Dichlorobenzene, 1,2-	1.1	0.75 U	0.38 U	0.42 U	8 U
Dichlorobenzene, 1,3-	2.4	0.75 U	0.38 U	0.42 U	8 U
Dichlorobenzene, 1,4-	1.8	0.75 U	0.38 U	0.42 U	8 U
Dichlorobenzidine, 3,3-	--	1.5 UJ	0.75 UJ	0.83 UJ	16 UJ
Dichlorophenol, 2,4-	--	0.75 U	0.38 U	0.42 U	8 U
Diethyl phthalate	--	0.75 U	0.38 U	0.42 U	8 U
Dimethylphenol, 2,4-	--	0.75 U	0.38 U	0.42 U	8 U
Dimethyl phthalate	--	0.75 U	0.38 U	0.42 U	8 U
Di-n-butyl phthalate	--	0.75 U	0.38 U	0.42 U	8 U
Di-n-octyl phthalate	--	0.75 U	0.38 U	0.42 U	8 U
Dinitro-2-methylphenol, 4,6-	--	2.2 U	1.1 U	1.2 U	24 U
Dinitrophenol, 2,4-	--	2.2 U	1.1 U	1.2 U	24 U
Dinitrotoluene, 2,4-	--	0.15 U	0.075 U	0.083 U	1.6 U
Dinitrotoluene, 2,6-	--	0.15 U	0.075 U	0.083 U	1.6 U
Fluoranthene	100	**11**	0.38 U	0.42 U	8 U
Fluorene	100	**0.18 J**	0.38 U	0.42 U	8 U
Hexachlorobenzene	1.2	0.075 U	0.038 U	0.042 U	0.8 U
Hexachlorobutadiene	--	0.15 U	0.075 U	0.083 U	1.6 U
Hexachlorocyclopentadiene	--	0.75 U	0.38 U	0.42 U	8 UJ
Hexachloroethane	--	0.075 U	0.038 U	0.042 U	0.8 U
Indeno(1,2,3-cd)pyrene	0.5	**1.4**	0.038 U	0.042 U	0.8 U

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation			
Location ID:		CGGP-43	CGGP-44	CGGP-44	CGGP-45
Sample ID:		CGGP-43_2-3	CGGP-44_9-10	CGGP-44_12-13	CGGP-45_10-11
Sample Interval (feet bgs):		2.00 to 3.00	9.00 to 10.00	12.00 to 13.00	10.00 to 11.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.70 to 10.70	5.10 to 4.10	2.10 to 1.10	5.10 to 4.10
Parameter / Sample Date:	Objective[3]	3/17/2008	3/17/2008	3/17/2008	3/17/2008
Semivolatile Organic Compounds (continued)					
Isophorone	--	0.75 U	0.38 U	0.42 U	8 U
Methylnaphthalene, 2-	--	**0.05 J**	**0.049 J**	**0.27 J**	**14**
Methylphenol, 2-	0.33	0.75 U	0.38 U	0.42 U	8 U
Methylphenol, 4-	0.33	0.75 U	0.38 U	0.42 U	8 U
Naphthalene	12	**0.13 J**	**0.37 J**	**2.2**	**130**
Nitroaniline, 2-	--	1.5 U	0.75 U	0.83 U	16 U
Nitroaniline, 3-	--	1.5 U	0.75 U	0.83 U	16 U
Nitroaniline, 4-	--	1.5 U	0.75 U	0.83 U	16 U
Nitrobenzene	--	0.075 U	0.038 U	0.042 U	0.8 U
Nitrophenol, 2-	--	0.75 U	0.38 U	0.42 U	8 U
Nitrophenol, 4-	--	2.2 U	1.1 U	1.2 U	24 U
N-Nitrosodi-n-propylamine	--	0.075 U	0.038 U	0.042 U	0.8 U
N-Nitrosodiphenylamine	--	0.75 U	0.38 U	0.42 U	8 U
Oxybis(1-chloropropane), 2,2'-	--	0.75 U	0.38 U	0.42 U	8 U
Pentachlorophenol	0.8	2.2 U	1.1 U	1.2 U	24 U
Phenanthrene	100	**3.3**	0.38 U	**0.045 J**	8 U
Phenol	0.33	0.75 U	0.38 U	0.42 U	8 U
Pyrene	100	**8.8**	0.38 U	0.42 U	8 U
Trichlorobenzene, 1,2,4-	--	0.075 U	0.038 U	0.042 U	0.8 U
Trichlorophenol, 2,4,5-	--	0.75 U	0.38 U	0.42 U	8 U
Trichlorophenol, 2,4,6-	--	0.75 U	0.38 U	0.42 U	8 U
Metals					
Arsenic	16	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA
Cadmium	4.3	NA	NA	NA	NA
Chromium	19	NA	NA	NA	NA
Lead	400	NA	NA	NA	NA
Mercury	0.73	NA	NA	NA	NA
Selenium	4	NA	NA	NA	NA
Silver	8.3	NA	NA	NA	NA
Total Cyanide					
Cyanide, Total	27	NA	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation		
Location ID:		CGGP-46	CGP4SB-47	CGP4SB-47
Sample ID:		CGGP-46_4-5	CGP4SB-47_10-12	CGP4SB-47_14-16
Sample Interval (feet bgs):		4.00 to 5.00	10.00 to 12.00	14.00 to 16.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.50 to 10.50	13.50 to 11.50	9.50 to 7.50
Parameter / Sample Date:	Objective[3]	3/17/2008	5/28/2008	5/28/2008
Volatile Organic Compounds				
Acetone	0.05	**0.07 B**	0.0052 UJ	0.0056 UJ
Benzene	0.06	**0.0029**	**0.0004 J**	0.0011 U
Bromodichloromethane	--	0.0012 U	0.001 U	0.0011 U
Bromoform	--	0.0048 U	0.0042 U	0.0045 U
Bromomethane	--	0.006 U	0.0052 U	0.0056 U
Butanone, 2-	0.12	**0.0094 J**	R	R
Carbon disulfide	--	**0.0026 J**	0.0052 U	0.0056 U
Carbon tetrachloride	0.76	0.0024 U	0.0021 U	0.0022 U
Chlorobenzene	1.1	0.006 U	0.0052 U	0.0056 U
Chloroethane	--	0.006 U	0.0052 U	0.0056 U
Chloroform	0.37	0.006 U	0.0052 U	0.0056 U
Chloromethane	--	0.006 U	0.0052 U	0.0056 U
Dibromochloromethane	--	0.006 U	0.0052 U	0.0056 U
Dichloroethane, 1,1-	0.27	0.006 U	0.0052 U	0.0056 U
Dichloroethane, 1,2-	0.02	0.0024 U	0.0021 U	0.0022 U
Dichloroethene, 1,1-	0.33	0.0024 U	0.0021 U	**0.0017 J**
Dichloroethene, cis-1,2-	0.25	0.006 U	0.0052 U	0.0056 U
Dichloroethene, trans-1,2-	0.19	0.006 U	0.0052 U	0.0056 U
Dichloropropane, 1,2-	--	0.0012 U	0.001 U	0.0011 U
Dichloropropene, cis-1,3-	--	0.006 U	0.0052 U	0.0056 U
Dichloropropene, trans-1,3-	--	0.006 U	0.0052 U	0.0056 U
Ethylbenzene	1	**0.035**	0.0057 U	0.0045 U
Hexanone, 2-	--	0.006 U	0.0052 U	0.0056 U
Methyl-2-pentanone, 4-	--	0.006 U	0.0052 U	0.0056 U
Methylene chloride	0.05	0.0036 UJB	**0.0048**	0.0034 U
Styrene	--	**0.0007 J**	0.0052 U	0.0056 U
Tetrachloroethane, 1,1,2,2-	--	0.0012 U	0.001 U	0.0011 U
Tetrachloroethene	1.3	0.0012 U	0.001 U	0.0011 U
Toluene	0.7	**0.0095**	**0.0019 J**	0.0056 U
Trichloroethane, 1,1,1-	0.68	0.006 U	0.0052 U	0.0056 U
Trichloroethane, 1,1,2-	--	0.0036 U	0.0032 U	0.0034 U
Trichloroethene	0.47	0.0012 U	**0.001 J**	0.0011 U
Vinyl acetate	--	NA	NA	NA
Vinyl chloride	0.02	0.006 U	0.0052 U	0.0056 U
Xylenes, Total	1.6	**0.028**	**0.059**	0.0056 U
Semivolatile Organic Compounds				
Acenaphthene	98	0.41 U	**0.62 J**	**0.17 J**
Acenaphthylene	100	0.41 U	3.5 U	**0.012 J**
Anthracene	100	**0.044 J**	**0.68 J**	**0.34 J**
Benzo(a)anthracene	1	**0.18**	**0.91**	**0.53**
Benzo(a)pyrene	1	**0.16**	**0.85 J**	**0.47**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation		
Location ID:		CGGP-46	CGP4SB-47	CGP4SB-47
Sample ID:		CGGP-46_4-5	CGP4SB-47_10-12	CGP4SB-47_14-16
Sample Interval (feet bgs):		4.00 to 5.00	10.00 to 12.00	14.00 to 16.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.50 to 10.50	13.50 to 11.50	9.50 to 7.50
Parameter / Sample Date:	Objective[3]	3/17/2008	5/28/2008	5/28/2008
Semivolatile Organic Compounds (continued)				
Benzo(b)fluoranthene	1	**0.13**	**0.83 J**	**0.38**
Benzo(g,h,i)perylene	100	**0.12 J**	3.5 UJ	**0.2 J**
Benzo(k)fluoranthene	1.7	**0.16**	**1 J**	**0.46**
Benzoic acid	--	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.41 U	3.5 U	0.38 U
Bis(2-chloroethyl)ether	--	0.041 U	0.35 U	0.038 U
Bis(2-ethylhexyl)phthalate	--	0.41 U	**2.6 J**	**0.096 J**
Bis(chloroisopropyl)ether	--	NA	3.5 U	0.38 U
Bromophenyl phenyl ether, 4-	--	0.41 U	3.5 U	0.38 U
Butyl benzyl phthalate	--	0.41 U	3.5 U	0.38 U
Carbazole	--	0.41 U	**0.34 J**	**0.16 J**
Chloro-3-methylphenol, 4-	--	0.41 U	3.5 U	0.38 U
Chloroaniline, 4-	--	0.41 UJ	3.5 U	0.38 U
Chloronaphthalene, 2-	--	0.41 U	3.5 U	0.38 U
Chlorophenol, 2-	--	0.41 U	3.5 U	0.38 U
Chlorophenyl phenyl ether, 4-	--	0.41 U	3.5 U	0.38 U
Chrysene	1	**0.19 J**	**1 J**	**0.52**
Dibenzo(a,h)anthracene	0.33	0.041 U	0.35 UJ	**0.064**
Dibenzofuran	59	0.41 U	3.5 U	**0.1 J**
Dichlorobenzene, 1,2-	1.1	0.41 U	3.5 U	0.38 U
Dichlorobenzene, 1,3-	2.4	0.41 U	3.5 U	0.38 U
Dichlorobenzene, 1,4-	1.8	0.41 U	3.5 U	0.38 U
Dichlorobenzidine, 3,3-	--	0.82 U	7.1 U	0.76 U
Dichlorophenol, 2,4-	--	0.41 U	3.5 U	0.38 U
Diethyl phthalate	--	0.41 U	3.5 U	0.38 U
Dimethylphenol, 2,4-	--	0.41 U	3.5 U	0.38 U
Dimethyl phthalate	--	0.41 U	3.5 U	0.38 U
Di-n-butyl phthalate	--	0.41 U	3.5 U	0.38 U
Di-n-octyl phthalate	--	0.41 U	3.5 UJ	0.38 U
Dinitro-2-methylphenol, 4,6-	--	1.2 U	11 U	1.1 U
Dinitrophenol, 2,4-	--	1.2 U	R	R
Dinitrotoluene, 2,4-	--	0.082 U	0.71 U	0.076 U
Dinitrotoluene, 2,6-	--	0.082 U	0.71 U	0.076 U
Fluoranthene	100	**0.31 J**	**1.9 J**	**1.3**
Fluorene	100	0.41 U	**0.99 J**	**0.14 J**
Hexachlorobenzene	1.2	0.041 U	0.35 U	0.038 U
Hexachlorobutadiene	--	0.082 U	0.71 U	0.076 U
Hexachlorocyclopentadiene	--	0.41 UJ	3.5 U	0.38 U
Hexachloroethane	--	0.041 U	0.35 U	0.038 U
Indeno(1,2,3-cd)pyrene	0.5	**0.084**	0.35 UJ	**0.21**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation		
Location ID:		CGGP-46	CGP4SB-47	CGP4SB-47
Sample ID:		CGGP-46_4-5	CGP4SB-47_10-12	CGP4SB-47_14-16
Sample Interval (feet bgs):		4.00 to 5.00	10.00 to 12.00	14.00 to 16.00
Sample Interval (feet NAVD88):	Soil Cleanup	11.50 to 10.50	13.50 to 11.50	9.50 to 7.50
Parameter / Sample Date:	Objective[3]	3/17/2008	5/28/2008	5/28/2008
Semivolatile Organic Compounds (continued)				
Isophorone	--	0.41 U	3.5 U	0.38 U
Methylnaphthalene, 2-	--	0.41 U	**14**	**0.055 J**
Methylphenol, 2-	0.33	0.41 U	3.5 U	0.38 U
Methylphenol, 4-	0.33	0.41 U	3.5 U	0.38 U
Naphthalene	12	0.41 U	**6**	**0.12 J**
Nitroaniline, 2-	--	0.82 U	7.1 U	0.76 U
Nitroaniline, 3-	--	0.82 U	7.1 U	0.76 U
Nitroaniline, 4-	--	0.82 U	7.1 U	0.76 U
Nitrobenzene	--	0.041 U	0.35 U	0.038 U
Nitrophenol, 2-	--	0.41 U	3.5 U	0.38 U
Nitrophenol, 4-	--	1.2 U	11 U	1.1 U
N-Nitrosodi-n-propylamine	--	0.041 U	0.35 U	0.038 U
N-Nitrosodiphenylamine	--	0.41 U	3.5 U	0.38 U
Oxybis(1-chloropropane), 2,2'-	--	0.41 U	NA	NA
Pentachlorophenol	0.8	1.2 U	11 U	1.1 U
Phenanthrene	100	**0.09 J**	**3.2 J**	**1.4**
Phenol	0.33	0.41 U	3.5 U	0.38 U
Pyrene	100	**0.34 J**	**2.6 J**	**1.3**
Trichlorobenzene, 1,2,4-	--	0.041 U	0.35 U	0.038 U
Trichlorophenol, 2,4,5-	--	0.41 U	3.5 U	0.38 U
Trichlorophenol, 2,4,6-	--	0.41 U	3.5 U	0.38 U
Metals				
Arsenic	16	NA	NA	NA
Barium	400	NA	NA	NA
Cadmium	4.3	NA	NA	NA
Chromium	19	NA	NA	NA
Lead	400	NA	NA	NA
Mercury	0.73	NA	NA	NA
Selenium	4	NA	NA	NA
Silver	8.3	NA	NA	NA
Total Cyanide				
Cyanide, Total	27	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation		
Location ID:		CGP4SB-48	CGP4SB-48	CGP4SB-48
Sample ID:		CGP4SB-48_4-5	CGP4SB-48_5-7	CGP4SB-48_13-15
Sample Interval (feet bgs):		4.00 to 5.00	5.00 to 7.00	13.00 to 15.00
Sample Interval (feet NAVD88):	Soil Cleanup	17.50 to 16.50	16.50 to 14.50	8.50 to 6.50
Parameter / Sample Date:	Objective[3]	5/28/2008	5/28/2008	5/28/2008
Volatile Organic Compounds				
Acetone	0.05	0.0055 UJ	0.0056 UJ	0.0054 UJ
Benzene	0.06	0.0011 U	0.0011 U	0.0011 U
Bromodichloromethane	--	0.0011 U	0.0011 U	0.0011 U
Bromoform	--	0.0044 U	0.0045 U	0.0043 U
Bromomethane	--	0.0055 U	0.0056 U	0.0054 U
Butanone, 2-	0.12	R	R	**0.0067 J**
Carbon disulfide	--	0.0055 U	0.0056 U	0.0054 U
Carbon tetrachloride	0.76	0.0022 U	0.0022 U	0.0022 U
Chlorobenzene	1.1	0.0055 U	0.0056 U	0.0054 U
Chloroethane	--	0.0055 U	0.0056 U	0.0054 U
Chloroform	0.37	0.0055 U	0.0056 U	0.0054 U
Chloromethane	--	0.0055 U	0.0056 U	0.0054 U
Dibromochloromethane	--	0.0055 U	0.0056 U	0.0054 U
Dichloroethane, 1,1-	0.27	0.0055 U	0.0056 U	0.0054 U
Dichloroethane, 1,2-	0.02	0.0022 U	0.0022 U	0.0022 U
Dichloroethene, 1,1-	0.33	0.0022 U	**0.0015 J**	**0.0009 J**
Dichloroethene, cis-1,2-	0.25	0.0055 U	0.0056 U	0.0054 U
Dichloroethene, trans-1,2-	0.19	0.0055 U	0.0056 U	0.0054 U
Dichloropropane, 1,2-	--	0.0011 U	0.0011 U	0.0011 U
Dichloropropene, cis-1,3-	--	0.0055 U	0.0056 U	0.0054 U
Dichloropropene, trans-1,3-	--	0.0055 U	0.0056 U	0.0054 U
Ethylbenzene	1	0.0044 U	**0.001 J**	**0.0036 J**
Hexanone, 2-	--	0.0055 U	0.0056 U	0.0054 U
Methyl-2-pentanone, 4-	--	0.0055 U	0.0056 U	0.0054 U
Methylene chloride	0.05	**0.0094**	**0.028**	**0.0036 J**
Styrene	--	0.0055 U	0.0056 U	0.0054 U
Tetrachloroethane, 1,1,2,2-	--	0.0011 U	0.0011 U	0.0011 U
Tetrachloroethene	1.3	0.0011 U	0.0011 U	0.0011 U
Toluene	0.7	0.0055 U	**0.0007 J**	**0.0014 J**
Trichloroethane, 1,1,1-	0.68	0.0055 U	0.0056 U	0.0054 U
Trichloroethane, 1,1,2-	--	0.0033 U	0.0034 U	0.0032 U
Trichloroethene	0.47	0.0011 U	0.0011 U	0.0011 U
Vinyl acetate	--	NA	NA	NA
Vinyl chloride	0.02	0.0055 U	0.0056 U	0.0054 U
Xylenes, Total	1.6	0.0055 U	**0.01**	**0.039 J**
Semivolatile Organic Compounds				
Acenaphthene	98	**0.052 J**	**0.098 J**	**0.18 J**
Acenaphthylene	100	**0.068 J**	**0.12 J**	0.76 U
Anthracene	100	**0.2 J**	**0.25 J**	**0.47 J**
Benzo(a)anthracene	1	**0.75**	**0.77**	**0.98**
Benzo(a)pyrene	1	**0.71**	**0.77 J**	**0.95 J**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation		
Location ID:		CGP4SB-48	CGP4SB-48	CGP4SB-48
Sample ID:		CGP4SB-48_4-5	CGP4SB-48_5-7	CGP4SB-48_13-15
Sample Interval (feet bgs):		4.00 to 5.00	5.00 to 7.00	13.00 to 15.00
Sample Interval (feet NAVD88):	Soil Cleanup	17.50 to 16.50	16.50 to 14.50	8.50 to 6.50
Parameter / Sample Date:	Objective[3]	5/28/2008	5/28/2008	5/28/2008
Semivolatile Organic Compounds (continued)				
Benzo(b)fluoranthene	1	**0.62**	**0.73 J**	**0.9 J**
Benzo(g,h,i)perylene	100	**0.23 J**	**0.2 J**	**0.26 J**
Benzo(k)fluoranthene	1.7	**0.87**	**1 J**	**1.2 J**
Benzoic acid	--	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA
Bis(2-chloroethoxy)methane	--	0.38 U	0.76 U	0.76 U
Bis(2-chloroethyl)ether	--	0.038 U	0.076 U	0.076 U
Bis(2-ethylhexyl)phthalate	--	**0.33 J**	**1.5**	**0.97**
Bis(chloroisopropyl)ether	--	0.38 U	0.76 U	0.76 U
Bromophenyl phenyl ether, 4-	--	0.38 U	0.76 U	0.76 U
Butyl benzyl phthalate	--	0.38 U	0.76 U	0.76 U
Carbazole	--	**0.097 J**	**0.11 J**	**0.22 J**
Chloro-3-methylphenol, 4-	--	0.38 U	0.76 U	0.76 U
Chloroaniline, 4-	--	0.38 U	0.76 U	0.76 U
Chloronaphthalene, 2-	--	0.38 U	0.76 U	0.76 U
Chlorophenol, 2-	--	0.38 U	0.76 U	0.76 U
Chlorophenyl phenyl ether, 4-	--	0.38 U	0.76 U	0.76 U
Chrysene	1	**0.78**	**0.84**	**1**
Dibenzo(a,h)anthracene	0.33	**0.091**	**0.099 J**	**0.13 J**
Dibenzofuran	59	**0.027 J**	**0.091 J**	**0.2 J**
Dichlorobenzene, 1,2-	1.1	0.38 U	0.76 U	0.76 U
Dichlorobenzene, 1,3-	2.4	0.38 U	0.76 U	0.76 U
Dichlorobenzene, 1,4-	1.8	0.38 U	0.76 U	0.76 U
Dichlorobenzidine, 3,3-	--	0.76 U	1.5 U	1.5 U
Dichlorophenol, 2,4-	--	R	0.76 U	0.76 U
Diethyl phthalate	--	0.38 U	0.76 U	0.76 U
Dimethylphenol, 2,4-	--	0.38 U	0.76 U	0.76 U
Dimethyl phthalate	--	0.38 U	0.76 U	0.76 U
Di-n-butyl phthalate	--	0.38 U	0.76 U	0.76 U
Di-n-octyl phthalate	--	**0.12 J**	**0.26 J**	0.76 UJ
Dinitro-2-methylphenol, 4,6-	--	1.1 U	2.3 U	2.3 U
Dinitrophenol, 2,4-	--	R	R	2.3 U
Dinitrotoluene, 2,4-	--	0.076 U	0.15 U	0.15 U
Dinitrotoluene, 2,6-	--	0.076 U	0.15 U	0.15 U
Fluoranthene	100	**1.3**	**1.4**	**1.9**
Fluorene	100	**0.05 J**	**0.17 J**	**0.33 J**
Hexachlorobenzene	1.2	0.038 U	0.076 U	0.076 U
Hexachlorobutadiene	--	0.076 U	0.15 U	0.15 U
Hexachlorocyclopentadiene	--	0.38 U	0.76 U	0.76 U
Hexachloroethane	--	0.038 U	0.076 U	0.076 U
Indeno(1,2,3-cd)pyrene	0.5	**0.26**	**0.22 J**	**0.29 J**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation		
Location ID:		CGP4SB-48	CGP4SB-48	CGP4SB-48
Sample ID:		CGP4SB-48_4-5	CGP4SB-48_5-7	CGP4SB-48_13-15
Sample Interval (feet bgs):		4.00 to 5.00	5.00 to 7.00	13.00 to 15.00
Sample Interval (feet NAVD88):	Soil Cleanup	17.50 to 16.50	16.50 to 14.50	8.50 to 6.50
Parameter / Sample Date:	Objective[3]	5/28/2008	5/28/2008	5/28/2008
Semivolatile Organic Compounds (continued)				
Isophorone	--	0.38 U	0.76 U	0.76 U
Methylnaphthalene, 2-	--	**0.014 J**	**1.6**	**2.2**
Methylphenol, 2-	0.33	0.38 U	0.76 U	0.76 U
Methylphenol, 4-	0.33	0.38 U	0.76 U	0.76 U
Naphthalene	12	**0.026 J**	**0.68 J**	**1**
Nitroaniline, 2-	--	0.76 U	1.5 U	1.5 U
Nitroaniline, 3-	--	0.76 U	1.5 U	1.5 U
Nitroaniline, 4-	--	0.76 U	1.5 U	1.5 U
Nitrobenzene	--	0.038 U	0.076 U	0.076 U
Nitrophenol, 2-	--	0.38 U	0.76 U	0.76 U
Nitrophenol, 4-	--	1.1 U	2.3 U	2.3 U
N-Nitrosodi-n-propylamine	--	0.038 U	0.076 U	0.076 U
N-Nitrosodiphenylamine	--	0.38 U	0.76 U	0.76 U
Oxybis(1-chloropropane), 2,2'-	--	NA	NA	NA
Pentachlorophenol	0.8	1.1 U	2.3 U	2.3 U
Phenanthrene	100	**0.91**	**1.2**	**2**
Phenol	0.33	0.38 U	0.76 U	0.76 U
Pyrene	100	**1.4 J**	**1.8**	**2.4**
Trichlorobenzene, 1,2,4-	--	0.038 U	0.076 U	0.076 U
Trichlorophenol, 2,4,5-	--	0.38 U	0.76 U	0.76 U
Trichlorophenol, 2,4,6-	--	0.38 U	0.76 U	0.76 U
Metals				
Arsenic	16	NA	NA	NA
Barium	400	NA	NA	NA
Cadmium	4.3	NA	NA	NA
Chromium	19	NA	NA	NA
Lead	400	NA	NA	NA
Mercury	0.73	NA	NA	NA
Selenium	4	NA	NA	NA
Silver	8.3	NA	NA	NA
Total Cyanide				
Cyanide, Total	27	NA	NA	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation
Location ID:		CGP4SB-48
Sample ID:		CGP4SB-XX_052808
Sample Interval (feet bgs):		13.00 to 15.00
Sample Interval (feet NAVD88):	Soil Cleanup	8.50 to 6.50
Parameter / Sample Date:	Objective[3]	5/28/2008
Volatile Organic Compounds		
Acetone	0.05	0.0056 UJ
Benzene	0.06	0.0011 U
Bromodichloromethane	--	0.0011 U
Bromoform	--	0.0045 U
Bromomethane	--	0.0056 U
Butanone, 2-	0.12	R
Carbon disulfide	--	0.0056 U
Carbon tetrachloride	0.76	0.0022 U
Chlorobenzene	1.1	0.0056 U
Chloroethane	--	0.0056 U
Chloroform	0.37	0.0056 U
Chloromethane	--	0.0056 U
Dibromochloromethane	--	0.0056 U
Dichloroethane, 1,1-	0.27	0.0056 U
Dichloroethane, 1,2-	0.02	0.0022 U
Dichloroethene, 1,1-	0.33	**0.0015 J**
Dichloroethene, cis-1,2-	0.25	0.0056 U
Dichloroethene, trans-1,2-	0.19	0.0056 U
Dichloropropane, 1,2-	--	0.0011 U
Dichloropropene, cis-1,3-	--	0.0056 U
Dichloropropene, trans-1,3-	--	0.0056 U
Ethylbenzene	1	**0.0021 J**
Hexanone, 2-	--	0.0056 U
Methyl-2-pentanone, 4-	--	0.0056 U
Methylene chloride	0.05	**0.016 J**
Styrene	--	0.0056 U
Tetrachloroethane, 1,1,2,2-	--	0.0011 U
Tetrachloroethene	1.3	0.0011 U
Toluene	0.7	0.0056 U
Trichloroethane, 1,1,1-	0.68	0.0056 U
Trichloroethane, 1,1,2-	--	0.0034 U
Trichloroethene	0.47	0.0011 U
Vinyl acetate	--	NA
Vinyl chloride	0.02	0.0056 U
Xylenes, Total	1.6	**0.013 J**
Semivolatile Organic Compounds		
Acenaphthene	98	**0.13 J**
Acenaphthylene	100	0.75 U
Anthracene	100	**0.21 J**
Benzo(a)anthracene	1	**0.67**
Benzo(a)pyrene	1	**0.79**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:		Remedial Design Investigation
Location ID:		CGP4SB-48
Sample ID:		CGP4SB-XX_052808
Sample Interval (feet bgs):		13.00 to 15.00
Sample Interval (feet NAVD88):	Soil Cleanup	8.50 to 6.50
Parameter / Sample Date:	Objective[3]	5/28/2008
Semivolatile Organic Compounds (continued)		
Benzo(b)fluoranthene	1	**0.66**
Benzo(g,h,i)perylene	100	**0.32 J**
Benzo(k)fluoranthene	1.7	**0.75**
Benzoic acid	--	NA
Benzyl alcohol	--	NA
Bis(2-chloroethoxy)methane	--	0.75 U
Bis(2-chloroethyl)ether	--	0.075 U
Bis(2-ethylhexyl)phthalate	--	**0.9**
Bis(chloroisopropyl)ether	--	0.75 U
Bromophenyl phenyl ether, 4-	--	0.75 U
Butyl benzyl phthalate	--	0.75 U
Carbazole	--	**0.09 J**
Chloro-3-methylphenol, 4-	--	0.75 U
Chloroaniline, 4-	--	0.75 U
Chloronaphthalene, 2-	--	0.75 U
Chlorophenol, 2-	--	0.75 U
Chlorophenyl phenyl ether, 4-	--	0.75 U
Chrysene	1	**0.74 J**
Dibenzo(a,h)anthracene	0.33	**0.081**
Dibenzofuran	59	0.75 U
Dichlorobenzene, 1,2-	1.1	0.75 U
Dichlorobenzene, 1,3-	2.4	0.75 U
Dichlorobenzene, 1,4-	1.8	0.75 U
Dichlorobenzidine, 3,3-	--	1.5 U
Dichlorophenol, 2,4-	--	0.75 U
Diethyl phthalate	--	0.75 U
Dimethylphenol, 2,4-	--	0.75 U
Dimethyl phthalate	--	0.75 U
Di-n-butyl phthalate	--	0.75 U
Di-n-octyl phthalate	--	**0.16 J**
Dinitro-2-methylphenol, 4,6-	--	2.2 U
Dinitrophenol, 2,4-	--	R
Dinitrotoluene, 2,4-	--	0.15 U
Dinitrotoluene, 2,6-	--	0.15 U
Fluoranthene	100	**1.2**
Fluorene	100	**0.19 J**
Hexachlorobenzene	1.2	0.075 U
Hexachlorobutadiene	--	0.15 U
Hexachlorocyclopentadiene	--	0.75 U
Hexachloroethane	--	0.075 U
Indeno(1,2,3-cd)pyrene	0.5	**0.22**

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation: Location ID: Sample ID: Sample Interval (feet bgs): Sample Interval (feet NAVD88): Parameter / Sample Date:	Soil Cleanup Objective[3]	Remedial Design Investigation CGP4SB-48 CGP4SB-XX_052808 13.00 to 15.00 8.50 to 6.50 5/28/2008
Semivolatile Organic Compounds (continued)		
Isophorone	--	0.75 U
Methylnaphthalene, 2-	--	**2.1**
Methylphenol, 2-	0.33	0.75 U
Methylphenol, 4-	0.33	0.75 U
Naphthalene	12	**0.86**
Nitroaniline, 2-	--	1.5 U
Nitroaniline, 3-	--	1.5 U
Nitroaniline, 4-	--	1.5 U
Nitrobenzene	--	0.075 U
Nitrophenol, 2-	--	0.75 U
Nitrophenol, 4-	--	2.2 U
N-Nitrosodi-n-propylamine	--	0.075 U
N-Nitrosodiphenylamine	--	0.75 U
Oxybis(1-chloropropane), 2,2'-	--	NA
Pentachlorophenol	0.8	2.2 U
Phenanthrene	100	**1**
Phenol	0.33	0.75 U
Pyrene	100	**1.3**
Trichlorobenzene, 1,2,4-	--	0.075 U
Trichlorophenol, 2,4,5-	--	0.75 U
Trichlorophenol, 2,4,6-	--	0.75 U
Metals		
Arsenic	16	NA
Barium	400	NA
Cadmium	4.3	NA
Chromium	19	NA
Lead	400	NA
Mercury	0.73	NA
Selenium	4	NA
Silver	8.3	NA
Total Cyanide		
Cyanide, Total	27	NA

Table 5
Summary of Subsurface Soil Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Notes:

1. Subsurface soil sample data summarized in this table for soil borings CGSB-17, CGSB-18, CGSB-19, CGSB-40, and CGSB-41 were originally presented in Table 11 of the *Final Remedial Investigation Report* (GEI 2005).
2. Sample concentrations are presented in units of milligrams per kilogram (mg/kg).
3. Vertical reference datum is the North American Vertical Datum of 1988 (NAVD88).
4. Soil cleanup objectives (SCOs) reflect the lower of the restricted use SCOs for protection of public health (restricted residential use) or protection of groundwater, as set forth in Table 375-6.8(b) of 6 NYCRR 375.
5. Bolded sample concentrations denote detected parameters.
6. Gray shading denotes sample concentrations that exceed the applicable SCOs.
7. --: No SCO is listed in Table 375-6.8(b) of 6 NYCRR 375 for this parameter.
8. bgs: below ground surface.
9. NA: not analyzed.

Data Qualifiers:

1. B: Parameter was also detected in the associated method blank.
2. J: Concentration is less than the reporting limit (RL), but greater than or equal to the method detection limit. The reported concentration is an estimate.
3. R: Sample result has been rejected.
4. U: Parameter was not detected in the sample. The reported concentration is the RL.
5. UB: Parameter is considered non-detect at the listed value due to associated blank contamination.
6. UJ: Parameter was not detected above the reported RL. However, the reported RL is approximate and may or may not represent the actual RL.

Table 6
Summary of Groundwater Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:	New York State Class GA Ambient Water Quality Standard or Guidance Value[3]	Remedial Investigation			
Location ID:		CGMW-05S	CGMW-05S	CGMW-05I	CGMW-05I
Sample ID:		CGMW-05S	CGMW-05S	CGMW-05I	CGMW-05I
Screened Interval (feet bgs):		25.0 to 35.0	25.0 to 35.0	54.0 to 64.0	54.0 to 64.0
Screened Interval (feet NAVD88):		1.1 to -8.9	1.1 to -8.9	-27.6 to -37.6	-27.6 to -37.6
Parameter / Sample Date:		6/3/2003	4/18/2005	6/3/2003	4/18/2005
Volatile Organic Compounds					
Acetone	50	10 U	10 UJ	50 U	200 UJ
Benzene	1	**1 J**	5 U	**150**	**160**
Bromodichloromethane	50	5 U	5 U	25 U	100 U
Bromoform	50	5 U	5 U	25 U	100 U
Bromomethane	5	5 UJ	5 U	25 U	100 U
Butanone, 2-	50	10 U	10 UJ	50 U	200 U
Carbon disulfide	--	5 U	5 U	25 U	100 U
Carbon tetrachloride	5	5 U	5 U	25 U	100 U
Chlorobenzene	5	5 U	5 U	25 U	100 U
Chloroethane	5	5 UJ	5 U	25 UJ	100 U
Chloroform	7	5 U	5 U	25 U	100 U
Chloromethane	5	5 U	5 U	25 U	100 U
Dibromochloromethane	50	5 U	5 U	25 U	100 U
Dichloroethane, 1,1-	5	5 U	5 U	25 U	100 U
Dichloroethane, 1,2-	0.6	5 U	5 U	25 U	100 U
Dichloroethene, 1,1-	5	5 U	5 U	25 U	100 U
Dichloroethene, cis-1,2-	5	5 U	5 U	25 U	100 U
Dichloroethene, trans-1,2-	5	5 U	5 U	25 U	100 U
Dichloropropane, 1,2-	1	5 U	5 U	25 U	100 U
Dichloropropene, cis-1,3-	0.4	5 U	5 U	25 U	100 U
Dichloropropene, trans-1,3-	0.4	5 U	5 U	25 U	100 U
Ethylbenzene	5	**1 J**	5 U	**450**	**3,300**
Hexanone, 2-	50	10 U	10 UJ	50 U	200 U
Methyl-2-pentanone, 4-	--	10 U	10 UJ	50 U	200 U
Methylene chloride	5	5 U	5 U	25 U	100 U
Styrene	5	5 U	5 U	**280**	**30 J**
Tetrachloroethane, 1,1,2,2-	5	5 U	5 U	25 U	100 U
Tetrachloroethene	5	5 U	5 U	25 U	100 U
Toluene	5	**4 J**	5 U	**660**	**890**
Trichloroethane, 1,1,1-	5	5 U	5 U	25 U	100 U
Trichloroethane, 1,1,2-	1	5 U	5 U	25 U	100 U
Trichloroethene	5	5 U	5 U	25 U	100 U
Vinyl acetate	--	5 U	NA	25 U	NA
Vinyl chloride	2	5 U	5 U	25 U	100 U
Xylenes, Total	--	5 U	5 U	**760**	**3,500**
Semivolatile Organic Compounds					
Acenaphthene	20	10 U	10 U	250 U	1,000 U
Acenaphthylene	--	10 U	10 U	**18 J**	1,000 U
Anthracene	50	10 U	10 U	250 U	1,000 U
Benzo(a)anthracene	0.002	10 U	10 U	250 U	1,000 U
Benzo(a)pyrene	ND	10 U	10 U	250 U	1,000 U

Table 6
Summary of Groundwater Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:	New York State Class GA Ambient Water Quality Standard or Guidance Value[3]	Remedial Investigation			
Location ID:		CGMW-05S	CGMW-05S	CGMW-05I	CGMW-05I
Sample ID:		CGMW-05S	CGMW-05S	CGMW-05I	CGMW-05I
Screened Interval (feet bgs):		25.0 to 35.0	25.0 to 35.0	54.0 to 64.0	54.0 to 64.0
Screened Interval (feet NAVD88):		1.1 to -8.9	1.1 to -8.9	-27.6 to -37.6	-27.6 to -37.6
Parameter / Sample Date:		6/3/2003	4/18/2005	6/3/2003	4/18/2005
Semivolatile Organic Compounds (continued)					
Benzo(b)fluoranthene	0.002	10 U	10 U	250 U	1,000 U
Benzo(g,h,i)perylene	--	10 U	10 U	250 U	1,000 U
Benzo(k)fluoranthene	0.002	10 U	10 U	250 U	1,000 U
Benzoic acid	--	50 U	NA	1,200 UJ	NA
Benzyl alcohol	--	10 U	10 U	250 U	1,000 U
Bis(2-chloroethoxy)methane	5	10 U	10 U	250 U	1,000 U
Bis(2-chloroethyl)ether	1	10 U	10 U	250 U	1,000 U
Bis(2-ethylhexyl)phthalate	5	**0.6 J**	10 U	250 U	1,000 U
Bis(chloroisopropyl)ether	5	10 U	10 U	250 U	1,000 U
Bromophenyl phenyl ether, 4-	--	10 U	10 U	250 U	1,000 U
Butyl benzyl phthalate	50	10 U	10 U	250 U	1,000 U
Carbazole	--	10 U	10 U	250 U	1,000 U
Chloro-3-methylphenol, 4-	--	10 U	10 U	250 U	1,000 U
Chloroaniline, 4-	5	10 U	10 U	250 U	1,000 U
Chloronaphthalene, 2-	10	10 U	10 U	250 U	1,000 U
Chlorophenol, 2-	--	10 U	10 U	250 U	1,000 U
Chlorophenyl phenyl ether, 4-	--	10 U	10 U	250 U	1,000 U
Chrysene	0.002	10 U	10 U	250 U	1,000 U
Dibenzo(a,h)anthracene	--	10 U	10 U	250 U	1,000 U
Dibenzofuran	--	10 U	10 U	250 U	1,000 U
Dichlorobenzene, 1,2-	3	10 U	10 U	250 U	1,000 U
Dichlorobenzene, 1,3-	3	10 U	10 U	250 U	1,000 U
Dichlorobenzene, 1,4-	3	10 U	10 U	250 U	1,000 U
Dichlorobenzidine, 3,3-	5	20 U	20 U	500 U	2,000 U
Dichlorophenol, 2,4-	5	10 U	10 U	250 U	1,000 U
Diethyl phthalate	50	10 U	10 U	250 U	1,000 U
Dimethylphenol, 2,4-	50	10 U	10 U	250 U	1,000 U
Dimethyl phthalate	50	10 U	10 U	250 U	1,000 U
Di-n-butyl phthalate	50	10 U	10 U	250 U	1,000 U
Di-n-octyl phthalate	50	10 U	10 U	250 U	1,000 U
Dinitro-2-methylphenol, 4,6-	--	50 U	50 U	1,200 U	5,000 U
Dinitrophenol, 2,4-	10	50 U	50 UJ	1,200 U	5,000 U
Dinitrotoluene, 2,4-	5	10 U	10 U	250 U	1,000 U
Dinitrotoluene, 2,6-	5	10 U	10 U	250 U	1,000 U
Fluoranthene	50	10 U	10 U	250 U	1,000 U
Fluorene	50	10 U	10 U	250 U	1,000 U
Hexachlorobenzene	0.04	10 U	10 U	250 U	1,000 U
Hexachlorobutadiene	0.5	10 U	10 U	250 U	1,000 U
Hexachlorocyclopentadiene	5	10 U	10 U	250 U	1,000 U
Hexachloroethane	5	10 U	10 U	250 U	1,000 U
Indeno(1,2,3-cd)pyrene	0.002	10 U	10 U	250 U	1,000 U

Table 6
Summary of Groundwater Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Investigation:	New York State Class GA Ambient Water Quality Standard or Guidance Value[3]	Remedial Investigation			
Location ID:		CGMW-05S	CGMW-05S	CGMW-05I	CGMW-05I
Sample ID:		CGMW-05S	CGMW-05S	CGMW-05I	CGMW-05I
Screened Interval (feet bgs):		25.0 to 35.0	25.0 to 35.0	54.0 to 64.0	54.0 to 64.0
Screened Interval (feet NAVD88):		1.1 to -8.9	1.1 to -8.9	-27.6 to -37.6	-27.6 to -37.6
Parameter / Sample Date:		6/3/2003	4/18/2005	6/3/2003	4/18/2005
Semivolatile Organic Compounds (continued)					
Isophorone	50	10 U	10 U	250 U	1,000 U
Methylnaphthalene, 2-	--	10 U	10 U	**60 J**	1,000 U
Methylphenol, 2-	--	10 U	10 U	250 U	1,000 U
Methylphenol, 4-	--	10 U	10 U	250 U	1,000 U
Naphthalene	10	**4 J**	10 U	**1,600**	**7,300**
Nitroaniline, 2-	5	50 U	50 U	1,200 U	5,000 U
Nitroaniline, 3-	5	50 U	50 U	1,200 U	5,000 U
Nitroaniline, 4-	5	20 U	20 U	500 U	2,000 U
Nitrobenzene	0.4	10 U	10 U	250 U	1,000 U
Nitrophenol, 2-	--	10 U	10 U	250 U	1,000 U
Nitrophenol, 4-	--	50 U	50 U	1,200 UJ	5,000 U
N-Nitrosodi-n-propylamine	--	10 U	10 U	250 U	1,000 U
N-Nitrosodiphenylamine	50	10 U	10 U	250 U	1,000 U
Pentachlorophenol	1	50 U	50 U	1,200 U	5,000 U
Phenanthrene	50	**1 J**	10 U	250 U	1,000 U
Phenol	1	**0.4 J**	10 U	250 UJ	1,000 U
Pyrene	50	10 U	10 U	250 U	1,000 U
Trichlorobenzene, 1,2,4-	5	10 U	10 U	250 U	1,000 U
Trichlorophenol, 2,4,5-	--	50 U	50 U	1,200 U	5,000 U
Trichlorophenol, 2,4,6-	--	10 U	10 U	250 U	1,000 U
Metals					
Arsenic	25	**8.8**	**5.9 J**	**4.3 J**	3.9 U
Barium	1,000	**137**	**132 J**	**277**	**383**
Cadmium	5	10 U	10 U	10 U	1.1 U
Chromium	50	10 U	10 U	**8.2**	1.3 U
Lead	25	10 U	10 U	10 U	3 U
Mercury	0.7	0.2 U	0.4 U	0.2 U	0.4 U
Selenium	10	30 U	30 U	30 U	5 U
Silver	50	6 U	6 U	6 U	1.1 U
Total Cyanide					
Cyanide, Total	200	**371 J**	**281**	**16 J**	**7.8 J**

Table 6
Summary of Groundwater Sample Data
Data Summary Report for Parcel IV

National Grid
Former Citizens Gas Works Manufactured Gas Plant Site
Borough of Brooklyn, Kings County, New York
NYSDEC Site No. 224012

Notes:

1. Groundwater sample data summarized in this table were originally presented in Table 12 of the *Final Remedial Investigation Report* (GEI 2005).
2. Sample concentrations are presented in units of micrograms per liter (µg/L).
3. Vertical reference datum is the North American Vertical Datum of 1988 (NAVD88).
4. New York State Class GA (groundwater) ambient water quality standards and guidance values are from the New York State Department of Environmental Conservation's Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, titled *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* (NYSDEC 1998).
5. Bolded sample concentrations denote detected parameters.
6. Gray shading denotes sample concentrations that exceed the applicable New York State Class GA ambient water quality standards or guidance values.
7. --: No applicable standard or guidance value is listed in TOGS 1.1.1 for this parameter.
8. bgs: below ground surface.
9. NA: not analyzed.
10. ND: non-detect.

Data Qualifiers:

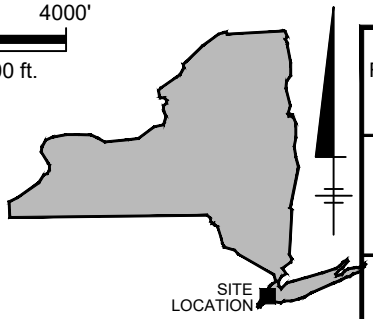
1. J: Concentration is less than the reporting limit (RL), but greater than or equal to the method detection limit. The reported concentration is an estimate.
2. U: Parameter was not detected in the sample. The reported concentration is the RL.
3. UJ: Parameter was not detected above the reported RL. However, the reported RL is approximate and may or may not represent the actual RL.

Figures

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., BROOKLYN, NY, 2013, AND JERSEY CITY, NY-NJ, 2014.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



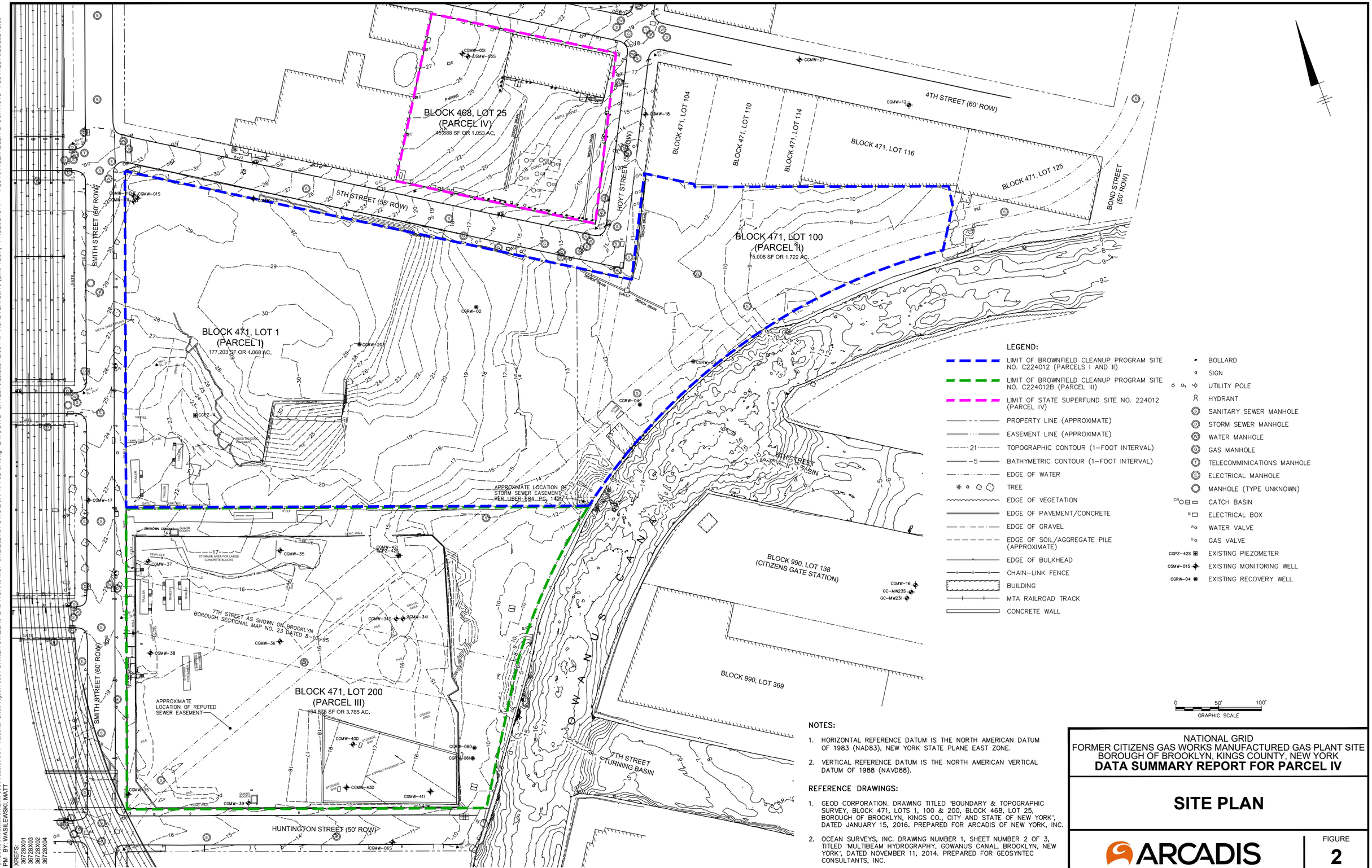
NATIONAL GRID
FORMER CITIZENS GAS WORKS MANUFACTURED GAS PLANT SITE
BOROUGH OF BROOKLYN, KINGS COUNTY, NEW YORK
DATA SUMMARY REPORT FOR PARCEL IV

SITE LOCATION MAP

ARCADIS

FIGURE
1

C:\Users\jlharris\ACCDocs\Arcadis\ANA - National Grid\Project Files\FORMER CITIZENS GAS WORKS MGP SITE\2021\01-DWG\DSRPIV-F01-SLM.dwg LAYOUT: 1 SAVED: 6/24/2021 5:02 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/24/2021 5:02 AM
BY: HARRIS, JESS
XREFS:
IMAGES: Arcadis Logo_2021.PNG
NJ_Jersey_City_20140403_TM_geo.jpg
NY_Brooklyn_20130328_TM_geo.jpg
PROJECTNAME: ----



NOTES:

1. HORIZONTAL REFERENCE DATUM IS THE NORTH AMERICAN DATUM OF 1983 (NAD83), NEW YORK STATE PLANE EAST ZONE.
2. VERTICAL REFERENCE DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

REFERENCE DRAWINGS:

1. GEOD CORPORATION. DRAWING TITLED "BOUNDARY & TOPOGRAPHIC SURVEY, BLOCK 471, LOTS 1, 100 & 200, BLOCK 468, LOT 25, BOROUGH OF BROOKLYN, KINGS CO., CITY AND STATE OF NEW YORK", DATED JANUARY 15, 2016. PREPARED FOR ARCADIS OF NEW YORK, INC.
2. OCEAN SURVEYS, INC. DRAWING NUMBER 1, SHEET NUMBER 2 OF 3, TITLED "MULTIBEAM HYDROGRAPHY, GOWANUS CANAL, BROOKLYN, NEW YORK", DATED NOVEMBER 11, 2014. PREPARED FOR GEOSYNTEC CONSULTANTS, INC.

NATIONAL GRID
FORMER CITIZENS GAS WORKS MANUFACTURED GAS PLANT SITE
BOROUGH OF BROOKLYN, KINGS COUNTY, NEW YORK
DATA SUMMARY REPORT FOR PARCEL IV

SITE PLAN

ARCADIS

FIGURE
2

C:\Users\mwasilewski\BIM 360\Arcadis\ANA - National Grid\Project Files\FORMER CITIZENS GAS WORKS MGP SITE\2021101-DWG\DSRPIV-F02-SP.dwg LAYOUT: 2 SAVED: 6/25/2021 2:58 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTCONT.CTB PLOTTED: 6/25/2021 2:59
PM BY: WASILEWSKI, MATT
XREFS:
36728X01
36728X03
36728X02
36728X04

LEGEND:

- LIMIT OF BROWNFIELD CLEANUP PROGRAM SITE NO. C224012 (PARCELS I AND II)
- LIMIT OF STATE SUPERFUND SITE NO. 224012 (PARCEL IV)
- PROPERTY LINE (APPROXIMATE)
- TOPOGRAPHIC CONTOUR (1-FOOT INTERVAL)
- LIMIT OF FORMER BUILDING/STRUCTURE (APPROXIMATE)
- TREE
- EDGE OF PAVEMENT/CONCRETE
- CHAIN-LINK FENCE
- BUILDING
- CONCRETE WALL
- BOLLARD
- SIGN
- UTILITY POLE
- HYDRANT
- SANITARY SEWER MANHOLE
- WATER MANHOLE
- GAS MANHOLE
- TELECOMMINICATIONS MANHOLE
- CATCH BASIN
- ELECTRICAL BOX
- WATER VALVE
- GAS VALVE
- CGSS-03▲ SURFACE SOIL SAMPLE
- CGSB-40● SOIL BORING
- CGMW-05I EXISTING MONITORING WELL

NOTES:

1. HORIZONTAL REFERENCE DATUM IS THE NORTH AMERICAN DATUM OF 1983 (NAD83), NEW YORK STATE PLANE EAST ZONE.
2. VERTICAL REFERENCE DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

REFERENCE DRAWINGS:

1. THE BROOKLYN UNION GAS COMPANY. DRAWING NUMBER B-40, TITLED "CITIZENS WORKS PROPERTY PLAN", DATED OCTOBER 11, 1937, REVISED SEPTEMBER 21, 1949.
2. GEOD CORPORATION. DRAWING TITLED "BOUNDARY & TOPOGRAPHIC SURVEY, BLOCK 471, LOTS 1, 100 & 200, BLOCK 468, LOT 25, BOROUGH OF BROOKLYN, KINGS CO., CITY AND STATE OF NEW YORK", DATED JANUARY 15, 2016. PREPARED FOR ARCADIS OF NEW YORK, INC.

0 15' 30'
GRAPHIC SCALE

NATIONAL GRID
FORMER CITIZENS GAS WORKS MANUFACTURED GAS PLANT SITE
BOROUGH OF BROOKLYN, KINGS COUNTY, NEW YORK
DATA SUMMARY REPORT FOR PARCEL IV

PARCEL IV INVESTIGATION PLAN

ARCADIS

FIGURE
3

C:\Users\mwasilewski\BIM 360\Arcadis\ANA - National Grid\Project Files\FORMER CITIZENS GAS WORKS MGP SITE\2021\01-DWG\DSR\IV-F03-PIV SP.dwg LAYOUT: 3 SAVED: 6/25/2021 9:36 AM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTCONT.CTB PLOTTED: 6/25/2021
9:41 AM BY: WASILEWSKI, MATT
XREFS:
36728X01
36728X03
36728X02
36728X04
CGPZ-1I

Attachments

Attachment A

Soil Boring and Well Construction Logs

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-10

GROUND SURFACE ELEVATION (FT): 14.40 **LOCATION:** Parcel IV
NORTHING (FT): 671841 **EASTING (FT):** 632284 **TOTAL DEPTH (FT):** 12.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/44						S-1A (0'- 0.5') ASPHALT; FILL. S-1B (0.5'- 1') ASPHALT; brown black, FILL. S-1C (1'- 1.2') SILTY SAND WITH GRAVEL (SM); ~50% sand, fine to coarse, ~35% gravel, fine to coarse, ~15% fines; dry, brown, FILL. S-1D (1.2'- 2') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine to coarse, ~5% fines; dry, black brown, FILL. S-1E (2'- 4') SILTY SAND WITH GRAVEL (SM); ~50% sand, fine to coarse, ~35% gravel, fine to coarse, ~15% fines; max. size 2"", dry, brown, brick and coal fragments at 33 and 39", FILL.
10	5	S-2	48/33.5	PID= 9.2			TLO		S-2A (4'- 5.5') SILTY SAND WITH GRAVEL (SM); ~55% sand, fine to coarse, ~25% gravel, fine to coarse, ~20% fines; max. size 2"", slight tar-like odor, dry, brown to gray to black brown, coal fragments, brick 1-2", FILL. S-2B (5.5'- 5.9') SILTY SAND WITH GRAVEL (SM); ~50% sand, fine to coarse, ~25% gravel, fine, ~25% fines; max. size 0.25"", moist, gray, FILL. S-2C (5.9'- 7.1') SANDY SILT (ML); ~50% fines, ~40% sand, fine to coarse, ~10% gravel, fine; max. size 0.25"", moist, black brown, coal and brick fragments, FILL. S-2D (7.1'- 8') SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine to coarse; max. size 2.5"", strong naphthalene-like odor, moist, brown, tar saturated 22-33", FILL.
				PID= 523			NLO	Env. Sample ID= CGGP-10 (7.5-8)	
5	10	S-3	48/5				NLO		S-3 (8'- 12') SILTY SAND WITH GRAVEL (SM); ~45% fines, ~40% sand, fine to coarse, ~15% gravel, fine; max. size 0.25"", strong naphthalene-like odor, wet, brown black, mostly water recovered, wood, coal and brick fragments. Tar staining, FILL.

End of Boring at 12 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) IN PARTS PER MILLION

IN. = INCHES
FT. = FEET
TSF = TONS PER SQUARE FOOT

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-11

GROUND SURFACE ELEVATION (FT): 14.90 **LOCATION:** Parcel IV
NORTHING (FT): 671862 **EASTING (FT):** 632295 **TOTAL DEPTH (FT):** 12.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/42					S-1A (0'- 0.6') ASPHALT; black, FILL.
								S-1B (0.6'- 1.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine to coarse, ~5% fines; max. size 1.5"", dark brown, brick and slag fragments, FILL.
						CrLO		S-1C (1.5'- 2.3') WIDELY GRADED SAND WITH GRAVEL (SW); ~50% sand, fine to coarse; ~50% gravel, fine to coarse, slight creosote-like odor, white gray, FILL.
						CrLO	Env. Sample ID= CGGP-11 (3-4)	S-1D (2.3'- 4') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~25% gravel, fine to coarse, ~15% fines; max. size 1.5"", strong creosote-like odor, wet, black brown, slight saturation towards bottom, FILL.
		S-2	48/24	PID= 1852				S-2A (4'- 5.7') SILTY SAND (SM); ~75% sand, fine to medium, ~15% fines, ~10% gravel, fine to coarse; max. size 0.25"", strong creosote-like odor, black brown, FILL.
10	5					CrLO		
				PID= 906				S-2B (5.7'- 6.7') WOOD; strong creosote-like odor, FILL.
						CrLO		
				PID= 3341		CrLO	Env. Sample ID= CGGP-11 (7-8)	S-2C (6.7'- 8') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% gravel, fine to coarse, ~15% fines; max. size 0.5"", strong creosote-like odor, FILL.
		S-3	48/0					S-3 (8'- 12') NO RECOVERY.
5	10							

End of Boring at 12 feet.

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CLO = CHEMICAL LIKE ODOR
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CrLO= CREOSOTE LIKE ODOR
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Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-12

GROUND SURFACE ELEVATION (FT): 15.10 **LOCATION:** Parcel IV
NORTHING (FT): 671884 **EASTING (FT):** 632307 **TOTAL DEPTH (FT):** 7.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
15	0	S-1	48/36						S-1A (0'- 0.7') ASPHALT; FILL.
									S-1B (0.7'- 1') WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine, ~5% fines; max. size 0.25"", dry, brown, FILL. S-1C (1'- 2.7') WIDELY GRADED SAND (SW); ~80% sand, fine to coarse; ~20% brick fragments, brown, FILL.
				PID= 7.5				Env. Sample ID= CGGP-12 (3-4)	S-1D (2.7'- 4') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, mostly fine to medium, ~10% gravel, fine to coarse, ~10% fines; max. size 1"", brown, brick fragments, FILL.
		S-2	36/25	PID= 5.7					S-2A (4'- 5.1') WIDELY GRADED SAND WITH SILT (SW-SM); ~85% sand, fine to coarse, ~10% fines, ~5% gravel, fine to coarse; max. size 1.5"", dry, black brown, slag and brick fragments, FILL.
10	5						CrLO		S-2B (5.1'- 5.8') SILTY SAND WITH GRAVEL (SM); ~40% sand, fine to coarse, ~30% gravel, fine to coarse, ~30% fines; max. size 2.5"", moderate creosote-like odor, brown, brick fragments. Black stained, FILL.
								Env. Sample ID= CGGP-12 (6-7)	S-2C (5.8'- 7') SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to coarse, ~15% gravel, fine, ~15% fines; moist, brick and slag fragments, FILL.

End of Boring at 7 feet.
Refusal on concrete.

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Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

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CLIENT: National Grid
PROJECT: Citizens Gas Works
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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-13

GROUND SURFACE ELEVATION (FT): 15.80 **LOCATION:** Parcel IV
NORTHING (FT): 671907 **EASTING (FT):** 632319 **TOTAL DEPTH (FT):** 10.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/40					S-1A (0'- 0.8') WIDELY GRADED GRAVEL WITH SAND (GW); ~60% gravel, fine to coarse, ~40% sand, fine to coarse; gray, some concrete and asphalt, FILL.
15								S-1B (0.8'- 1.8') WIDELY GRADED SAND WITH SILT (SW-SM); ~60% sand, fine to coarse; ~25% brick fragments, ~10% fines, ~5% gravel, fine, brown, FILL.
								S-1C (1.8'- 3.1') BRICK; ~85% brick, ~15% sand, fine to medium, brown, FILL.
							Env. Sample ID= CGGP-13 (3-4)	S-1D (3.1'- 3.5') NARROWLY GRADED SAND (SP); ~100% sand, medium; white brown, FILL.
				PID= 1.2		CrLO		S-1E (3.5'- 4') NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, medium, ~10% gravel, fine to coarse, ~10% fines; max. size 0.5"", slight creosote-like odor, brown, FILL.
		S-2	48/28			CrLO		S-2A (4'- 4.6') NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, medium, ~10% gravel, fine to coarse, ~10% fines; max. size 0.5"", slight creosote-like odor, brown, FILL.
	5							S-2B (4.6'- 5.3') WIDELY GRADED GRAVEL WITH SILT AND SAND (GW-GM); ~75% rock fragments, crushed, ~15% sand, medium, ~10% fines, brown, FILL.
10				PID= 2.8		CrLO	Env. Sample ID= CGGP-13 (6-7)	S-2C (5.3'- 6.6') NARROWLY GRADED SAND WITH SILT (SP-SM); ~70% sand, medium, ~20% gravel, fine to coarse, ~10% fines; max. size 1.5"", slight creosote-like odor, moist, brown, FILL.
								S-2D (6.6'- 7') CONCRETE; FILL.
								S-2E (7'- 8') SILTY SAND (SM); ~75% sand, medium, ~15% fines, ~10% gravel, fine to coarse; max. size 1"", moist, brown, FILL.
		S-3	24/11					S-3 (8'- 10') SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines, ~10% gravel, fine; max. size 0.25"", moist, brown, brick fragments, FILL.
	10			PID= 5.7				

End of Boring at 10 feet.

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TLO = TAR LIKE ODOR
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OLO = ORGANIC LIKE ODOR
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Q_P = POCKET PENETROMETER IN TSF
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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-14

GROUND SURFACE ELEVATION (FT): 16.20 **LOCATION:** Parcel IV
NORTHING (FT): 671924 **EASTING (FT):** 632327 **TOTAL DEPTH (FT):** 10.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/38					S-1A (0'- 0.6') ASPHALT; FILL.
15								S-1B (0.6'- 3.6') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; max. size 0.75"", dry, brown, brick at 13-14", 18-20", 23-27", and 30-34", FILL.
				PID= 0.3				S-1C (3.6'- 4') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, fine, ~10% fines; max. size 0.25"", moist, brown, FILL.
		S-2	48/22					S-2A (4'- 6.9') SILTY SAND (SM); ~75% sand, medium, ~15% fines, ~10% gravel, fine; max. size 0.25"", brown, slag at 4 and 13", FILL.
	5			PID= 0.4			Env. Sample ID= CGGP-14 (5-6)	
10								S-2B (6.9'- 7.1') GROUT; FILL.
								S-2C (7.1'- 8') WIDELY GRADED GRAVEL WITH SAND (GW); ~75% rock fragments, crushed, ~15% sand, ~10% organics, max. size 2.5"", black, no odor observed, FILL.
		S-3	24/11			CrLO		S-3 (8'- 10') WIDELY GRADED GRAVEL WITH SAND (GW); ~75% rock fragments, crushed, ~15% sand, ~10% organics, slight creosote-like odor, black, odor at bottom of sample, FILL.
				PID= 5.6				
	10							End of Boring at 10 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-15

GROUND SURFACE ELEVATION (FT): 15.70 **LOCATION:** Parcel IV
NORTHING (FT): 671855 **EASTING (FT):** 632264 **TOTAL DEPTH (FT):** 8.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/38				S-1A (0'- 0.6') ASPHALT; FILL.
15							S-1B (0.6'- 2.1') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~50% sand, fine to coarse, ~40% gravel, fine, ~10% fines; max. size 0.5"", dry, black brown, FILL.
							S-1C (2.1'- 3.2') BRICK; ~90% brick, ~10% sand, medium, brown, FILL.
				PID= 0.1			S-2A (3.2'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; max. size 0.25"", brown, slag and brick fragments, FILL.
		S-2	48/16				S-2B (4'- 5') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine; max. size 0.25"", brown, slag and brick fragments, FILL.
	5			PID= 0.0		Env. Sample ID= CGGP-15 (5-6)	S-2C (5'- 5.5') CONCRETE; FILL.
10							S-2D (5.5'- 8') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine to coarse; max. size 1"", red brown, brick fragments up to 1", FILL.

End of Boring at 8 feet.

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TLO = TAR LIKE ODOR
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ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CLIENT: National Grid
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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-16

GROUND SURFACE ELEVATION (FT): 16.00 **LOCATION:** Parcel IV
NORTHING (FT): 671877 **EASTING (FT):** 632275 **TOTAL DEPTH (FT):** 9.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/35					S-1A (0'- 0.5') ASPHALT; FILL. S-1B (0.5'- 1.6') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~35% gravel, fine, ~5% fines; max. size 0.5"", brown, slag and brick fragments, FILL. S-1C (1.6'- 2.6') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% brick, ~35% sand, fine to coarse, brown, FILL. S-1D (2.6'- 3.2') BRICK; gray discoloration, FILL. S-1E (3.2'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine, ~5% fines; max. size 0.25"", brown, conglomerate coal, brick at 34", FILL.
15				PID= 0.6				
		S-2	48/38					S-2A (4'- 5.2') LEAN CLAY (CL); ~100% fines, medium plasticity, no dilatancy; gray, FILL. S-2B (5.2'- 6.4') NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~5% gravel, fine, ~5% fines; max. size 0.25"", tan, 1" thick gray lean clay lens at 15.5", timber at 19", coal fragments at 22", FILL.
	5							
10						TLO	Env. Sample ID= CGGP-16 (7-8)	S-2C (6.4'- 8') NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~5% gravel, fine, ~5% fines; max. size 0.25"", slight tar-like odor, tan, FILL.
				PID= 2.1				
		S-3	12/9	PID= 2.5				S-3A (8'- 8.3') NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~5% gravel, fine, ~5% fines; tan, FILL. S-3B (8.3'- 8.7') BRICK; FILL. S-3C (8.7'- 9') SANDY SILT (ML); ~70% fines, ~30% sand, fine to medium; brown, faint odor, FILL. End of Boring at 9 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-17

GROUND SURFACE ELEVATION (FT): 16.60 **LOCATION:** Parcel IV
NORTHING (FT): 671898 **EASTING (FT):** 632285 **TOTAL DEPTH (FT):** 10.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/38						S-1A (0'- 0.6') ASPHALT; gray, gravel, ~30% sand, medium to coarse, FILL. S-1B (0.6'- 1.9') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine, ~5% fines; max. size 0.5"", brown, brick fragments, FILL.
15									S-1C (1.9'- 2.9') BRICK; large rock" middle of sample, FILL.
				PID= 2.0					S-1D (2.9'- 4') SILTY SAND (SM); ~65% sand, fine to medium, ~25% fines, ~10% gravel, fine; max. size 0.25"", brown, brick and slag fragments, FILL.
		S-2	48/16.5						S-2 (4'- 8') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine to coarse, ~5% fines; max. size 2"", brown to light brown, brick fragments, grout pieces, 2" rock in middle of sample, FILL.
	5								
10				PID= 2.9					
		S-3	24/14					Env. Sample ID= CGGP-17 (9-10)	S-3A (8'- 8.4') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% brick, ~25% sand, fine to coarse, white gray, FILL. S-3B (8.4'- 8.7') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine, ~5% fines; max. size 0.75"", brown, FILL. S-3C (8.7'- 9.4') CONCRETE; crushed, FILL. S-3D (9.4'- 10') SILTY SAND (SM); ~75% sand, fine to medium, ~15% fines, ~10% gravel, fine to coarse; max. size 0.5"", slight tar-like odor, wet, brown, black staining, FILL.
	10						TLO		End of Boring at 10 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-18

GROUND SURFACE ELEVATION (FT): 17.20 **LOCATION:** Parcel IV
NORTHING (FT): 671921 **EASTING (FT):** 632298 **TOTAL DEPTH (FT):** 7.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/41				S-1A (0'- 0.8') ASPHALT; black / gray, concrete, gravel, FILL.
							S-1B (0.8'- 1.2') CONCRETE; FILL.
							S-1C (1.2'- 2.4') BRICK; ~80% brick, ~20% sand, fine to medium, brown, 1.5" rock at 22", FILL.
15							S-1D (2.4'- 2.8') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, mostly fine to medium, ~10% gravel, fine, ~10% fines; max. size 0.25"", brown, FILL.
				PID= 0.0		Env. Sample ID= CGGP-18 (3-4)	S-1E (2.8'- 3.1') WIDELY GRADED GRAVEL WITH SAND (GW); ~55% brick fragments and gravel, ~35% sand, fine to coarse, ~10% gravel, max. size 0.5"", red brown, FILL.
		S-2	36/16				S-1F (3.1'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, medium to coarse, ~20% gravel, fine to coarse, ~5% fines; max. size 0.75"", brown, brick and slag fragments, 0.25" thick coal layer at top of sample, FILL.
	5						S-2A (4'- 6.8') BRICK; ~80% brick, ~20% sand, fine to coarse, light brown, FILL.
				PID= 0.0			
							S-2B (6.8'- 7') CONCRETE; FILL.
							End of Boring at 7 feet.

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FT. = FEET
TSF = TONS PER SQUARE FOOT

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S_V = TORVANE PEAK IN TSF

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MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-19

GROUND SURFACE ELEVATION (FT): 17.80 **LOCATION:** Parcel IV
NORTHING (FT): 671939 **EASTING (FT):** 632308 **TOTAL DEPTH (FT):** 11.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/12/2008 - 3/12/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/39						S-1A (0'- 0.6') ASPHALT; FILL.
									S-1B (0.6'- 1.2') WIDELY GRADED SAND WITH GRAVEL (SW); ~55% sand, fine to coarse; ~45% asphalt, brown, FILL. S-1C (1.2'- 2.7') BRICK; ~75% brick, ~25% sand, medium, brown, gray discoloration 22-25", FILL.
15									S-1D (2.7'- 3.1') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~25% gravel, fine; max. size 0.25"", black, FILL.
				PID= 0.0					S-1E (3.1'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine, ~5% fines; max. size 0.25"", brown, glass at 33", brick 34-35", FILL.
		S-2	48/18						S-2 (4'- 8') WIDELY GRADED SAND WITH GRAVEL (SW); fine to coarse, ~40% sand, fine to coarse; ~50% brick, ~10% gravel, fine to coarse, max. size 1"", brown, timber 11-13", black discoloration of brick and soil 15-18", FILL.
	5								
				PID= 0.0					
10		S-3	36/19						S-3A (8'- 10.4') WIDELY GRADED SAND WITH GRAVEL (SW); ~55% brick fragments, ~35% sand, fine to coarse, ~10% gravel, fine to coarse, max. size 0.25"", brown, 1" rock at bottom of sample, FILL.
				PID= 0.6					
	10							Env. Sample ID= CGGP-19 (10-11)	
							TLO		S-3B (10.4'- 11') WIDELY GRADED SAND WITH SILT (SW-SM); ~90% sand, fine to coarse, ~10% fines; slight tar-like odor, black stained, FILL.
									End of Boring at 11 feet.

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Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-20

GROUND SURFACE ELEVATION (FT): 16.60 **LOCATION:** Parcel IV
NORTHING (FT): 671862 **EASTING (FT):** 632240 **TOTAL DEPTH (FT):** 10.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/22				S-1A (0'- 0.5') ASPHALT; FILL.
							S-1B (0.5'- 2.6') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, ~5% fines; max. size 1"", brown, some asphalt, FILL.
15				PID= 0.8			
							S-1C (2.6'- 4') BRICK; FILL.
		S-2	48/16				S-2A (4'- 5.8') BRICK; ~85% brick, ~15% sand, fine to coarse, black brown, FILL.
	5						
							S-2B (5.8'- 6.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine to coarse, ~5% fines; max. size 0.25"", black brown, 2" concrete piece at top of sample, shell and slag fragments, FILL.
10						Env. Sample ID= CGGP-20 (7-8)	S-2C (6.5'- 8') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~20% gravel, fine to coarse, ~20% fines; max. size 0.25"", brown, shell and slag fragments, FILL.
				PID= 0.5			
		S-3	24/17	PID= 1.2			S-3A (8'- 8.2') BRICK; FILL.
							S-3B (8.2'- 8.9') SILTY SAND (SM); ~60% sand, fine to coarse, ~25% fines; ~10% wood, ~5% gravel, fine, max. size 0.25"", brown, FILL.
							S-3C (8.9'- 10') BRICK; FILL.
	10						End of Boring at 10 feet.

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CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-21

GROUND SURFACE ELEVATION (FT): 18.70 **LOCATION:** Parcel IV
NORTHING (FT): 671934 **EASTING (FT):** 632278 **TOTAL DEPTH (FT):** 10.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/36				S-1A (0'- 1.4') ASPHALT; max. size 2"", gravel, FILL.
							S-1B (1.4'- 1.7') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, fine to coarse, ~10% fines; max. size 0.5"", brown, brick fragments, FILL. S-1C (1.7'- 3.2') BRICK; ~85% brick, ~15% sand, fine to coarse, brown, FILL.
15				PID= 0.1			S-1D (3.2'- 4') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~55% sand, fine to coarse, ~35% gravel, fine to coarse, ~10% fines; max. size 0.5"", brown, brick and slag fragments, FILL.
		S-2	48/12	PID= 1.7			S-2A (4'- 5') WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine to coarse, ~5% fines; max. size 0.25"", brown, brick fragments, FILL. S-2B (5'- 8') BRICK; FILL.
	5						
		S-3	24/13				S-3A (8'- 8.8') BRICK; ~55% brick fragments, ~30% sand, fine to coarse, brown, ~10% gravel, ~5% fines; max. size 0.5", FILL.
10				PID= 0.3		Env. Sample ID= CGGP-21 (9-10)	S-3B (8.8'- 10') SANDY SILT (ML); ~60% fines, ~30% sand, fine, ~10% gravel, fine; max. size 0.25"", moist, brown, brick and slag fragments, FILL.
	10						End of Boring at 10 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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BORING LOG

PAGE 1 of 1

CGGP-22

GROUND SURFACE ELEVATION (FT): 19.50 **LOCATION:** Parcel IV
NORTHING (FT): 671953 **EASTING (FT):** 632286 **TOTAL DEPTH (FT):** 7.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/43				S-1A (0'- 1') ASPHALT; ~60% asphalt, ~15% sand, fine to coarse, ~15% gravel, ~5% fines; max size 0.5", FILL. S-1B (1'- 1.5') BRICK; FILL. S-1C (1.5'- 1.7') BRICK; ~85% brick, ~15% sand, lensed, fine to coarse, brown, FILL. S-1D (1.7'- 2') BRICK; FILL. S-1E (2'- 2.1') NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel; light white tan, FILL. S-1F (2.1'- 4') BRICK; coal, slag, and glass fragments at 33" and 40-43", FILL.
				PID= 3.2			
15	5	S-2	36/17			Env. Sample ID= CGGP-22 (6-7)	S-2 (4'- 7') BRICK; ~65% brick, ~20% sand, fine to coarse, light brown, ~10% gravel, ~5% fines; max size 0.25", timber 9-11", coal fragments 12-17", FILL.

End of Boring at 7 feet.

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-23

GROUND SURFACE ELEVATION (FT): 17.80 **LOCATION:** Parcel IV
NORTHING (FT): 671882 **EASTING (FT):** 632222 **TOTAL DEPTH (FT):** 11.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/29						S-1A (0'- 0.8') ASPHALT; FILL.
									S-1B (0.8'- 1.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; max. size 1"", black, brick and slag fragments, FILL. S-1C (1.5'- 2.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~35% gravel, fine, ~5% fines; max. size 0.75"", brown, brick and slag fragments, FILL. S-1D (2.5'- 3.6') BRICK; ~70% brick, ~20% sand, fine to coarse, tan, ~10% gravel, fine, max. size 0.25"", FILL.
15				PID= 0.1					S-1E (3.6'- 4') WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine, ~5% fines; max. size 0.25"", brown, brick and slag fragments, FILL. S-2A (4'- 4.3') BRICK; FILL.
		S-2	48/27						S-2B (4.3'- 4.9') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~35% gravel, fine to coarse; max. size 1.5"", black, brick fragments, FILL. S-2C (4.9'- 5.6') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine, ~25% fines, ~15% gravel, fine to coarse; max. size 0.5"", brown, FILL.
	5			PID= 0.0			TLO		S-2D (5.6'- 6.4') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine, ~25% fines, ~15% gravel, fine to coarse; slight tar-like odor, brown, coal fragments, black stained, FILL.
10								Env. Sample ID= CGGP-23 (7-8)	S-2E (6.4'- 7') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to medium; max. size 0.5"", brown, brick fragments, FILL.
		S-3	36/13						S-2F (7'- 8') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine, ~20% fines, ~15% gravel, fine to coarse; max. size 0.75"", brown, slag and timber pieces, FILL. S-3A (8'- 8.5') SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; brown, small pieces of timber, FILL.
	10			PID= 0.0					S-3B (8.5'- 9.4') BRICK; ~85% brick, ~15% sand, fine to coarse, very dark brown, FILL. S-3C (9.4'- 9.8') CONCRETE; FILL. S-3D (9.8'- 10.3') SILTY SAND (SM); ~65% sand, fine to coarse; ~20% wood, ~15% fines, max. size 1"", brown, brick fragments, FILL. S-3E (10.3'- 11') BRICK; FILL. End of Boring at 11 feet.

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-24

GROUND SURFACE ELEVATION (FT): 19.50 **LOCATION:** Parcel IV
NORTHING (FT): 671926 **EASTING (FT):** 632245 **TOTAL DEPTH (FT):** 7.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/43	PID= 2.4			S-1A (0'- 0.3') ASPHALT; FILL. S-1B (0.3'- 1.1') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine, ~5% fines; max. size 0.25"", brown, brick fragments, FILL. S-1C (1.1'- 3.4') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, mostly medium to coarse, ~20% gravel, fine to coarse, angular; max. size 1"", white tan, glass at bottom of sample, FILL. S-1D (3.4'- 3.6') RUBBER; black, FILL. S-1E (3.6'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine, ~5% fines; max. size 0.25"", brown, FILL.
15	5	S-2	36/28	PID= 0.3		Env. Sample ID= CGGP-24 (6-7)	S-2A (4'- 4.4') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine to coarse, ~5% fines; max. size 2"", brown, brick fragments, FILL. S-2B (4.4'- 4.6') CONCRETE; FILL. S-2C (4.6'- 5.3') WIDELY GRADED SAND (SW); ~75% sand, fine to coarse, ~20% coal fragments, ~5% silty fines, max. size 0.25"", black, solid coal from 6-8", FILL. S-2D (5.3'- 6.8') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~65% sand, fine to coarse, ~25% gravel, fine to coarse, rounded, ~10% fines; max. size 1.5"", brown, small brick fragments, FILL. S-2E (6.8'- 7') CONCRETE; FILL. End of Boring at 7 feet. Refusal on concrete.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-25

GROUND SURFACE ELEVATION (FT): 20.20 **LOCATION:** Parcel IV
NORTHING (FT): 671949 **EASTING (FT):** 632257 **TOTAL DEPTH (FT):** 12.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
20	0	S-1	48/44				S-1A (0'- 0.5') ASPHALT; FILL. S-1B (0.5'- 1.8') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine to coarse, ~5% fines; max. size 1"", black brown, 1" layer of tan medium sand at 13", clinker, FILL. S-1C (1.8'- 2.2') CONCRETE; crushed, FILL. S-1D (2.2'- 3.1') SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines, ~10% gravel, fine; max. size 0.25"", brown, brick fragments, large pieces of glass at 29", 1" thick layer of timber at 34", FILL.
				PID= 0.0			S-1E (3.4'- 4') BRICK; ~80% brick, ~20% sand, fine to coarse, brown, bottom 2" of sample is black, FILL.
		S-2	48/18				S-2 (4'- 8') WIDELY GRADED SAND WITH SILT (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; max. size 0.25"", brown, coal fragments and slag, timber at 3-5", brick at 7-10" and 15-17", schist/rock in bottom 1", FILL.
15	5			PID= 0.6			
		S-3	48/15				S-3A (8'- 8.5') CONGLOMERATE; brick and concrete, FILL. S-3B (8.5'- 9.7') BRICK; ~85% brick, ~15% sand, fine to coarse, brown, FILL. S-3C (9.7'- 12') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; max. size 0.25"", brown, brick and concrete fragments, FILL.
10	10			PID= 10.8		Env. Sample ID= CGGP-25 (11-12)	

End of Boring at 12 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
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NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

IN. = INCHES
FT. = FEET
TSF = TONS PER SQUARE FOOT

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
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GEI Consultants

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-26

GROUND SURFACE ELEVATION (FT): 20.70 **LOCATION:** Parcel IV
NORTHING (FT): 671966 **EASTING (FT):** 632266 **TOTAL DEPTH (FT):** 14.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/24					S-1A (0'- 0.8') ASPHALT; FILL.
20				PID= 1.0				S-1B (0.8'- 2.2') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine, ~5% fines; max. size 0.25"", brown, FILL.
								S-1C (2.2'- 2.8') ASPHALT; FILL.
								S-1D (2.8'- 4') BRICK; ~80% brick, ~20% sand, fine to coarse, brown, FILL.
		S-2	48/7					S-2A (4'- 4.1') ROCK; 1.5" piece of rock.
	5							S-2B (4.1'- 6.8') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; max. size 2"", tan, FILL.
15				PID= 4.4				S-2C (6.8'- 8') TIMBER; FILL.
		S-3	48/26					S-3A (8'- 8.6') BRICK; FILL.
	10							S-3B (8.6'- 12') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, fine, ~10% fines; max. size 0.25"", brown, crushed brick 11-13", brick 14-16", glass, porcelain 22-33", black foil at bottom of sample, FILL.
10				PID= 2.2			Env. Sample ID= CGGP-26 (11-12)	
		S-4	24/8					S-4A (12'- 13.3') BRICK; FILL.
				PID= 2.7		OLO		S-4B (13.3'- 14') NARROWLY GRADED GRAVEL WITH SAND (GP); ~80% gravel, fine, ~20% sand, fine to coarse; <~5% organics, max. size 0.25"", slight organic-like odor, wet, brown, glass fragments, FILL.
								End of Boring at 14 feet.

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ALO = ASPHALT LIKE ODOR

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OLO = ORGANIC LIKE ODOR
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NA = NOT APPLICABLE
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Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-27

GROUND SURFACE ELEVATION (FT): 19.30 **LOCATION:** Parcel IV
NORTHING (FT): 671898 **EASTING (FT):** 632196 **TOTAL DEPTH (FT):** 12.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/40	PID= 0.6				S-1A (0'- 0.7') ASPHALT; ~75% asphalt, ~25% gravel, max. size 0.5"", FILL. S-1B (0.7'- 2') SILTY SAND WITH GRAVEL (SM); ~55% sand, fine to coarse, ~25% gravel, fine to coarse, ~20% fines; max. size 1"", brown, brick fragments, FILL. S-1C (2'- 2.3') CONCRETE; crushed, FILL. S-1D (2.3'- 4') SILTY SAND (SM); ~60% sand, fine to coarse, ~35% fines, ~5% gravel, fine; max. size 0.25"", brown, FILL.
15	5	S-2	48/29	PID= 7.3		TLO	Env. Sample ID= CGGP-27 (7-8)	S-2A (4'- 6.2') SILTY SAND (SM); ~60% sand, fine to coarse, ~35% fines, ~5% gravel, fine; max. size 0.5"", brown, 3-2" lens of widely graded sand with 15% gravel, fine; max size 0.5"; at 7" lens of widely graded silty sand with 15% gravel, fine to coarse, 15% silty fines, FILL. S-2B (6.2'- 6.5') CONCRETE; FILL. S-2C (6.5'- 8') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~15% gravel, fine; ~10% wood, ~5% fines, max. size 0.75"", slight tar-like odor, brown, last 3" is black brown, FILL.
10	10	S-3	48/33	PID= 0.6				S-3A (8'- 11') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine to coarse, ~10% fines; max. size 0.5"", brown, brick and slag fragments and wood pieces, silt content increases to 20% from 3-5", and 9-11", FILL. S-3B (11'- 11.6') CONCRETE; FILL. S-3C (11.6'- 12') SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel; <~5% wood, black, shell pieces, FILL.

End of Boring at 12 feet.
Boring location is approximate.

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NA = NOT APPLICABLE
NM = NOT MEASURED
Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-28

GROUND SURFACE ELEVATION (FT): 19.40 **LOCATION:** Parcel IV
NORTHING (FT): 671924 **EASTING (FT):** 632211 **TOTAL DEPTH (FT):** 10.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/40	PID= 0.7			S-1A (0'- 0.2') ASPHALT; FILL. S-1B (0.2'- 2.2') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine to coarse, ~5% fines; max. size 1.75"", black brown, brick 12-14", FILL. S-1C (2.2'- 3.8') SILTY SAND WITH GRAVEL (SM); ~55% sand, fine to coarse, ~30% fines, ~15% gravel, fine to coarse; max. size 1.5"", brown, FILL.
15	5	S-2	48/10	PID= 0.0			S-1D (3.8'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; max. size 0.75"", gray and brown, FILL. S-2A (4'- 5.2') SILTY SAND (SM); ~70% sand, fine to coarse, ~25% fines, ~5% gravel, fine; max. size 0.25"", brown, FILL. S-2B (5.2'- 5.6') WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine, ~5% fines; max. size 0.25"", black brown, FILL. S-2C (5.6'- 6.8') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine to coarse, angular; max. size 1"", tan, FILL. S-2D (6.8'- 8') SILTY SAND (SM); ~70% sand, fine to coarse, ~25% fines, ~5% gravel, fine; brown, last 1" of sample is concrete, FILL.
10	10	S-3	24/12	PID= 0.8		Env. Sample ID= CGGP-28 (9-10)	S-3A (8'- 9.7') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~25% fines, ~15% gravel, fine to coarse; max. size 1"", brown, coal fragments, FILL. S-3B (9.7'- 10') CONCRETE; FILL. End of Boring at 10 feet. Boring location is approximate.

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S_V = TORVANE PEAK IN TSF

NLO = NAPHTHALENE LIKE ODOR
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CLO = CHEMICAL LIKE ODOR
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CrLO= CREOSOTE LIKE ODOR
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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-29

GROUND SURFACE ELEVATION (FT): 21.00 **LOCATION:** Parcel IV
NORTHING (FT): 671942 **EASTING (FT):** 632222 **TOTAL DEPTH (FT):** 12.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/42				S-1A (0'- 0.6') ASPHALT; FILL.
20				PID= 0.2			S-1B (0.6'- 1.4') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine, ~5% fines; max. size 0.75"", brown, brick and slag fragments, FILL. S-1C (1.4'- 2.9') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine to coarse; max. size 1"", brown, brick and slag fragments, 1" lens of widely graded sand at 26", FILL.
							S-1D (2.9'- 4') BRICK; ~70% brick, ~30% sand, fine to coarse, brown, coal fragments in bottom 2", FILL.
		S-2	48/30				S-2A (4'- 4.5') BRICK; FILL.
	5						S-2B (4.5'- 8') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine to coarse; max. size 2"", black, glass, metal, and plastic pieces, FILL.
15						Env. Sample ID= CGGP-29 (6-8)	
		S-3	48/25	PID= 2			S-3A (8'- 8.6') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine to coarse; black, glass, metal, and plastic pieces, FILL. S-3B (8.6'- 9.1') SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine; max. size 0.25"", brown, FILL. S-3C (9.1'- 9.6') BRICK; FILL. S-3D (9.6'- 12') SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine; max. size 0.25"", brown, 1/8" of mica at 16", FILL.
	10						
10							

End of Boring at 12 feet.

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S_V = TORVANE PEAK IN TSF

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-30

GROUND SURFACE ELEVATION (FT): 21.50 **LOCATION:** Parcel IV
NORTHING (FT): 671963 **EASTING (FT):** 632234 **TOTAL DEPTH (FT):** 13.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/42				S-1A (0'- 0.6') ASPHALT; FILL. S-1B (0.6'- 1.2') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine, ~10% fines; max. size 0.125"", gray brown, FILL. S-1C (1.2'- 1.7') ASPHALT; FILL. S-1D (1.7'- 2') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine, angular; max. size 0.25"", tan, FILL. S-1E (2'- 2.5') CONCRETE; FILL. S-1F (2.5'- 3.7') BRICK; ~80% brick, ~20% sand, fine to coarse, brown, FILL.
20				PID= 0.0			S-1G (3.7'- 4') SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines; ~10% wood, brown, FILL. S-2A (4'- 4.6') ROCK; schist, FILL. S-2B (4.6'- 8') SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines, ~10% gravel, fine to coarse; max. size 1"", brown, brick at 5-7" and 10-12", timber pieces at 21", FILL.
		S-2	48/26				
	5						
15				PID= 3.8			
		S-3	48/10				S-3 (8'- 12') BRICK; fine to coarse; ~75% brick, ~20% sand, fine to coarse, brown, ~5% silty fines, brown, large pieces of timber at 8", FILL.
	10						
10				PID= 0.4		Env. Sample ID= CGGP-30 (11-12)	
		S-4	12/4				S-4 (12'- 13') SILTY SAND (SM); ~85% sand, fine to coarse, ~15% fines; brown, 2.5" brick piece, FILL.

End of Boring at 13 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-31

GROUND SURFACE ELEVATION (FT): 22.10 **LOCATION:** Parcel IV
NORTHING (FT): 671980 **EASTING (FT):** 632244 **TOTAL DEPTH (FT):** 11.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/45				S-1A (0'- 0.5') ASPHALT; FILL. S-1B (0.5'- 1') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine to coarse, ~10% fines; max. size 1"", brown, FILL. S-1C (1'- 1.2') ASPHALT; FILL. S-1D (1.2'- 2') SANDY SILT WITH GRAVEL (ML); ~50% fines, ~35% sand, fine to medium, ~15% gravel, fine; max. size 0.25"", brown, brick fragments, FILL. S-1E (2'- 2.7') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine to coarse; ~5% silty fines, max. size 0.25"", brown, 2" schist rock at 25", FILL. S-1F (2.7'- 2.8') ROCK; crushed, schist, FILL. S-1G (2.8'- 3.6') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine to coarse, ~10% fines; max. size 1"", olive brown, brick and grout fragments, FILL. S-1H (3.6'- 4') BRICK; piece of timber at the bottom, FILL. S-2A (4'- 4.3') TIMBER; FILL. S-2B (4.3'- 5.5') SHALE; burgundy, FILL. S-2C (5.5'- 5.8') BRICK (SM); ~75% brick, ~25% silty sand, brown, FILL. S-2D (5.8'- 6.8') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; max. size 0.25"", light brown, brick at 15-16", FILL. S-2E (6.8'- 7.1') TIMBER; FILL. S-2F (7.1'- 8') SILTY SAND (SM); ~55% sand, fine to coarse, ~35% fines, ~10% gravel; brown, brick and wood fragments, FILL. S-3A (8'- 8.5') SILTY SAND (SM); ~55% sand, fine to coarse, ~35% fines, ~10% gravel, fine; max. size 0.25"", brown, FILL. S-3B (8.5'- 11') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine; ~5% silty fines, max. size 0.25"", gray brown, brick pieces at 8-9", coal fragments at 16", FILL.
20				PID= 0.3			
	5	S-2	48/26				
15				PID= 1.5			
		S-3	36/20				
	10					Env. Sample ID= CGGP-31 (10-11)	

End of Boring at 11 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-32

GROUND SURFACE ELEVATION (FT): 20.30 **LOCATION:** Parcel IV
NORTHING (FT): 671912 **EASTING (FT):** 632175 **TOTAL DEPTH (FT):** 12.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/14/2008 - 3/14/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
20	0	S-1	48/44	PID= 1.8			S-1A (0'- 0.7') ASPHALT; 1" layer of widely graded brown sand at 3", FILL. S-1B (0.7'- 1') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine, ~5% fines; max. size 0.25"", brown, FILL. S-1C (1'- 4') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; max. size 0.75"", brown, brick fragments at 13" and 30", slag fragments at 16" and 41", dense, FILL.
15	5	S-2	48/38	PID= 17.3		Env. Sample ID= CGGP-32 (6-7)	S-2A (4'- 5.7') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; max. size 0.5"", brown, plastic and brick fragments, dense, FILL. S-2B (5.7'- 6.4') SILTY SAND WITH GRAVEL (SM); ~45% sand, fine to coarse, ~20% gravel, fine to coarse; ~20% wood, brick, plastic, coal, and slag fragments, ~15% fines, black, FILL. S-2C (6.4'- 8') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; max. size 0.5"", brown, plastic and brick fragments, 2" pieces of rock at 28" and 30", dense, FILL.
10	10	S-3	48/22	PID= 2.0			S-3A (8'- 10.4') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine to coarse, angular; max. size 1"", brown, coal fragments at 4", FILL. S-3B (10.4'- 12') SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine to coarse; max. size 1"", brown, coal fragments at 14", porcelain/ceramic pieces at 16", conglomerate coal and concrete at 22", FILL.

End of Boring at 12 feet.
Boring location is approximate.

NOTES:

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TSF = TONS PER SQUARE FOOT

NLO = NAPHTHALENE LIKE ODOR
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CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
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MLO = MUSTY LIKE ODOR

NA = NOT APPLICABLE
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Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-33

GROUND SURFACE ELEVATION (FT): 21.30 **LOCATION:** Parcel IV
NORTHING (FT): 671932 **EASTING (FT):** 632191 **TOTAL DEPTH (FT):** 10.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/14/2008 - 3/14/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/45	PID= 1.9		Env. Sample ID= CGGP-33 (3-4)	S-1A (0'- 0.3') ASPHALT; FILL. S-1B (0.3'- 1') WIDELY GRADED SAND WITH SILT (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine, ~10% fines; max. size 0.5"", gray brown, FILL. S-1C (1'- 4') SILTY SAND WITH GRAVEL (SM); ~55% sand, fine to coarse, ~30% fines, ~15% gravel, fine to coarse; max. size 1"", brown, FILL.
20							
		S-2	48/0				S-2 (4'- 8') NO RECOVERY.
	5						
15							
		S-3	24/11				S-3A (8'- 8.4') CONCRETE; FILL. S-3B (8.4'- 9.6') ASPHALT; FILL. S-3C (9.6'- 10') CONCRETE; conglomerate, FILL.
	10						End of Boring at 10 feet.

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GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-34

GROUND SURFACE ELEVATION (FT): 22.40 **LOCATION:** Parcel IV
NORTHING (FT): 671954 **EASTING (FT):** 632200 **TOTAL DEPTH (FT):** 8.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/14/2008 - 3/14/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/45						S-1A (0'- 0.3') ASPHALT; FILL. S-1B (0.3'- 1.1') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~35% gravel, fine to coarse, angular; ~5% silty fines, max. size 1"", black brown, brick fragments, FILL. S-1C (1.1'- 3.4') SILTY SAND WITH GRAVEL (SM); ~50% sand, fine to coarse, ~35% fines, ~15% gravel, fine; max. size 0.5"", brown, bottom 4" stained black, FILL.
20				PID= 14.8			CrLO	Env. Sample ID= CGGP-34 (3-4)	S-1D (3.4'- 4') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~25% fines, ~15% gravel, fine, rounded; max. size 0.75"", slight creosote-like odor, black, wood and coal fragments, FILL.
		S-2	48/22						S-2 (4'- 8') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~15% gravel, fine, angular, ~15% fines; ~10% glass fragments, max. size 0.75"", black, metal debris and wires 14-17", FILL.
	5								
15				PID= 2.5					

End of Boring at 8 feet.

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S_V = TORVANE PEAK IN TSF

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BORING LOG

CGGP-35

GROUND SURFACE ELEVATION (FT): 23.10 **LOCATION:** Parcel IV
NORTHING (FT): 671977 **EASTING (FT):** 632214 **TOTAL DEPTH (FT):** 3.5
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	42/37				S-1A (0'- 0.6') ASPHALT; FILL.
							S-1B (0.6'- 0.7') SILTY SAND (SM); ~85% sand, fine to coarse, ~15% fines; brown, FILL.
							S-1C (0.7'- 1.4') ASPHALT; FILL.
							S-1D (1.4'- 1.5') SILTY SAND (SM); ~85% sand, fine to coarse, ~15% fines; brown, FILL.
							S-1E (1.5'- 1.8') NARROWLY GRADED SAND (SP); ~80% sand, fine, ~20% gravel, fine to coarse, rounded; max. size 0.5"", light tan, FILL.
20				PID= 2.0		Env. Sample ID= CGGP-35 (3-3.5)	S-1F (1.8'- 3.5') SILTY SAND (SM); ~55% sand, fine to coarse, ~35% fines, ~10% gravel, fine; max. size 0.25"", brown, timber at 30", brick at 30-34", FILL.
							End of Boring at 3.5 feet.

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BORING LOG

CGGP-36

GROUND SURFACE ELEVATION (FT): 23.80 **LOCATION:** Parcel IV
NORTHING (FT): 671993 **EASTING (FT):** 632224 **TOTAL DEPTH (FT):** 3.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/13/2008 - 3/13/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	36/27	PID= 0.3		Env. Sample ID= CGGP-36 (2.5-3)	S-1A (0'- 0.7') ASPHALT; FILL. S-1B (0.7'- 0.8') WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines; brown, FILL. S-1C (0.8'- 1') ASPHALT; FILL. S-1D (1'- 3') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, ~10% fines; max. size 0.25"", gray brown, concrete at 11-13", brick at 21-24", FILL.

End of Boring at 3 feet.

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BORING LOG

CGGP-37

GROUND SURFACE ELEVATION (FT): 22.00 **LOCATION:** Parcel IV
NORTHING (FT): 671930 **EASTING (FT):** 632161 **TOTAL DEPTH (FT):** 12.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/14/2008 - 3/14/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/32				S-1A (0'- 0.8') ASPHALT; FILL.
							S-1B (0.8'- 0.9') CONCRETE; FILL.
							S-1C (1.3'- 2') SILTY SAND (SM); ~75% sand, fine to coarse, ~20% fines, ~5% gravel, fine; max. size 0.25"", black, glass at 14", FILL.
20							S-1D (2'- 4') SILTY SAND WITH GRAVEL (SM); ~40% sand, fine to coarse, ~35% fines, ~25% gravel, fine to coarse, rounded and angular; max. size 1.5"", brown, 3/4" thick layer of black medium sand at 19", FILL.
				PID= 1.8			
		S-2	48/13				S-2 (4'- 8') SILTY GRAVEL WITH SAND (GM); ~45% gravel, fine to coarse, rounded, ~30% sand, fine to coarse, ~25% fines; max. size 1.75"", brown, FILL.
	5						
						Env. Sample ID= CCGP-37 (6-8)	
15				PID= 1.1			
		S-3	48/0				S-3 (8'- 12') NO RECOVERY.
	10						
10							End of Boring at 12 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-38

GROUND SURFACE ELEVATION (FT): 22.90 **LOCATION:** Parcel IV
NORTHING (FT): 671955 **EASTING (FT):** 632174 **TOTAL DEPTH (FT):** 14.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/14/2008 - 3/14/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/45				S-1A (0'- 0.9') ASPHALT; FILL. S-1B (0.9'- 3.6') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine, rounded; max. size 0.5"", brown, FILL.
20				PID= 1.8			S-1C (3.6'- 4') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~25% gravel, fine to coarse, angular, ~15% fines; max. size 1"", gray brown, FILL.
		S-2	48/34				S-2A (4'- 4.4') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% gravel, fine to coarse, ~15% fines; max. size 0.25"", gray brown, FILL. S-2B (4.4'- 5') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, fine, ~10% fines; red brown, FILL. S-2C (5'- 5.4') BRICK; ~50% brick fragments, ~25% sand, fine to coarse, ~25% gravel, fine to coarse, max. size 1"", brown, FILL. S-2D (5.4'- 7.5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~50% sand, fine to coarse, ~40% gravel, fine to coarse, ~10% fines; max. size 1"", multicolored, timber at 19", FILL. S-2E (7.5'- 8') SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines, ~10% gravel, fine, angular; max. size 0.25"", red brown, FILL.
	5					Env. Sample ID= CGGP-38 (7-8)	
15		S-3	48/32				S-3A (8'- 8.8') SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; brown, 2" piece of quartz at 5", FILL. S-3B (8.8'- 9.5') BRICK; FILL.
	10			PID= 1.2			S-3C (9.5'- 9.9') NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, medium; ~30% crushed white rock, white brown, FILL. S-3D (9.9'- 10.5') SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; brown, FILL. S-3E (10.5'- 10.8') BRICK; FILL. S-3F (10.8'- 12') SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; brown, FILL.
10		S-4	24/20			Env. Sample ID= CGGP-38 (13-14)	S-4A (12'- 12.2') SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; brown, FILL. S-4B (12.2'- 14') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~65% sand, fine to coarse, ~25% gravel, fine to coarse, ~10% fines; max. size 0.5"", brown, brick and coal fragments, large coal fragments 4-6", 2" piece of rock at 14", brick piece at 21", FILL.
							End of Boring at 14 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-39

GROUND SURFACE ELEVATION (FT): 25.50 **LOCATION:** Parcel IV
NORTHING (FT): 672017 **EASTING (FT):** 632207 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/17/2008 - 3/17/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	60/44				S-1A (0'- 0.5') ASPHALT; FILL.
25							S-1B (0.5'- 0.9') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine to coarse; max. size 1"", brown, FILL. S-1C (0.9'- 1.1') WIDELY GRADED SAND WITH GRAVEL (SW); ~85% sand, fine to coarse, ~15% gravel, fine to coarse, angular; light tan sand, gray gravel, FILL. S-1D (1.1'- 3') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine to coarse; brown, FILL. S-1E (3'- 3.4') WIDELY GRADED SAND WITH GRAVEL (SW); ~85% sand, fine to coarse, ~15% gravel, fine to coarse, angular; light tan sand, gray gravel, FILL. S-1F (3.4'- 5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine to coarse, ~10% fines; max. size 1.5"", brown, FILL.
				PID= 0			
	5	S-2	60/41				S-2 (5'- 10') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% gravel, fine to coarse, rounded, ~15% fines; max. size 1.5"", brown, FILL.
20				PID= 0			
	10	S-3	60/37				S-3A (10'- 10.4') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% gravel, ~15% fines; brown, FILL. S-3B (10.4'- 12.1') CONCRETE; FILL.
15							S-3C (12.1'- 15') SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to coarse, ~15% gravel, ~15% fines; brown, 2" piece of concrete at 20", FILL.
				PID= 3.4		Env. Sample ID= CGGP-39 (14-15)	
	15						End of Boring at 15 feet.

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-40A

GROUND SURFACE ELEVATION (FT): 24.70 **LOCATION:** Parcel IV
NORTHING (FT): 672018 **EASTING (FT):** 632232 **TOTAL DEPTH (FT):** 4.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/14/2008 - 3/14/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	48/38	PID= 2.5		Env. Sample ID= CGGP-40A (3-4)	S-1A (0'- 0.3') ASPHALT; FILL. S-1B (0.3'- 0.9') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~55% sand, fine to coarse, ~35% gravel, fine to coarse, ~10% fines; max. size 1"", brown, brick fragments, FILL. S-1C (0.9'- 1.5') SILTY SAND (SM); ~65% sand, fine to medium, ~30% fines, ~5% gravel, fine to coarse; brown, metal piece at 13", FILL. S-1D (1.5'- 1.7') ROCK; granite, FILL. S-1E (1.7'- 2.6') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine to coarse, ~10% fines; max. size 1"", black, FILL. S-1F (2.6'- 4') SILTY SAND WITH GRAVEL (SM); ~40% sand, fine to coarse, ~40% gravel, fine to coarse, subangular, ~20% fines, max. size 1"", tan, FILL.

End of Boring at 4 feet.
Boring location is approximate.

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TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

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NM = NOT MEASURED

Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

GEI Consultants

GEI Consultants, Inc.
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Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGGP-41

GROUND SURFACE ELEVATION (FT): 20.30 **LOCATION:** Parcel IV
NORTHING (FT): 671968 **EASTING (FT):** 632280 **TOTAL DEPTH (FT):** 14.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/17/2008 - 3/17/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
20	0	S-1	60/49				S-1A (0'- 0.4') ASPHALT; FILL. S-1B (0.4'- 1.2') WIDELY GRADED SAND WITH GRAVEL (SW); ~85% sand, fine to coarse, ~15% gravel, fine; max. size 0.5"", gray - brown, FILL. S-1C (1.2'- 1.6') ASPHALT; FILL. S-1D (1.6'- 4.1') BRICK; tan widely graded sand and angular gravel at 28-30", FILL.
				PID= 2.2			S-1E (4.1'- 4.4') TIMBER; FILL. S-1F (4.4'- 4.8') SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel; brown, FILL. S-1G (4.8'- 5') BRICK; FILL.
15	5	S-2	60/25	PID= 3.1			S-2A (5'- 5.8') WIDELY GRADED SAND WITH SILT (SW-SM); ~90% sand, fine to coarse, ~10% fines; brown, brick fragments, FILL. S-2B (5.8'- 10') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~20% gravel, fine to coarse, ~20% fines; max. size 1"", brown, tan medium sand and gray gravel at 18-19", brick fragments at 23-25", FILL.
10	10	S-3	48/11			Env. Sample ID= CGGP-41 (13-14)	S-3A (10'- 13.3') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel; brown, metal and brick fragments, FILL. S-3B (13.3'- 14') BRICK; FILL.

End of Boring at 14 feet.

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Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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BORING LOG

CGGP-42

GROUND SURFACE ELEVATION (FT): 17.40 **LOCATION:** Parcel IV
NORTHING (FT): 671942 **EASTING (FT):** 632323 **TOTAL DEPTH (FT):** 11.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/17/2008 - 3/17/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	60/49				S-1A (0'- 0.4') ASPHALT; FILL. S-1B (0.4'- 0.5') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel; brown, FILL. S-1C (0.5'- 1') ASPHALT; FILL. S-1D (1'- 2.3') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, ~10% fines; brown, slag and brick fragments, FILL.
15							S-1E (2.3'- 2.7') BRICK; FILL.
						Env. Sample ID= CGGP-42 (3-4)	S-1F (2.7'- 4.5') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; max. size 0.5"", brown, black glass shards 33-35", FILL.
				PID= 0			S-1G (4.5'- 5') Solidified tar and sand mix, concrete at top of sample, FILL.
	5	S-2	60/24				S-2A (5'- 6') CONCRETE; FILL.
							S-2B (6'- 7.7') BRICK; ~80% brick, ~20% sand, fine to coarse, brown, FILL.
10							S-2C (7.7'- 9') CONCRETE; FILL.
				PID= 0			S-2D (9'- 10') BRICK; ~80% brick, ~20% sand, fine to coarse, brown, FILL.
	10	S-3	12/0				S-3 (10'- 11') NO RECOVERY.

End of Boring at 11 feet.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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BORING LOG

CGGP-43

GROUND SURFACE ELEVATION (FT): 13.70 **LOCATION:** Parcel IV
NORTHING (FT): 671830 **EASTING (FT):** 632294 **TOTAL DEPTH (FT):** 5.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/17/2008 - 3/17/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	60/33				S-1A (0'- 0.9') ASPHALT; FILL.
							S-1B (0.9'- 2.1') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine to coarse, ~10% fines; max. size 1"", brown.
				PID= 48.5		Env. Sample ID= CGGP-43 (2-3)	S-1C (2.1'- 3.6') BRICK AND CONCRETE; ~60% large pieces of concrete and brick, to 2", ~40% sand, fine to coarse, max. size 2"", black.
10							S-1D (3.6'- 5') BRICK AND CONCRETE.
	5						End of Boring at 5 feet.

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BORING LOG

CGGP-44

GROUND SURFACE ELEVATION (FT): 14.10 **LOCATION:** Parcel IV
NORTHING (FT): 671855 **EASTING (FT):** 632307 **TOTAL DEPTH (FT):** 19.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/17/2008 - 3/17/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	60/36						S-1A (0'- 0.7') ASPHALT; FILL.
									S-1B (0.7'- 1.3') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine to coarse, ~5% fines; max. size 1.5"", brown, FILL. S-1C (1.3'- 3.2') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW); ~70% sand, fine to coarse, ~20% gravel, fine, ~10% fines; max. size 0.5"", black brown, FILL.
									S-1D (3.2'- 3.7') CONCRETE; FILL.
10				PID= 97.5					S-1E (3.7'- 5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW); ~70% sand, fine to coarse, ~20% gravel, fine to coarse, angular, ~10% fines; max. size 1.5"", black brown, FILL.
	5	S-2	60/36						S-2A (5'- 5.4') TIMBER; FILL.
									S-2B (5.4'- 6.3') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine to coarse; max. size 1"", brown, FILL. S-2C (6.3'- 6.7') BRICK; FILL.
							TLO		S-2D (6.7'- 8.2') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine to medium; max. size 0.5"", moderate tar-like odor, brown, black stained, FILL.
									S-2E (8.2'- 8.6') BRICK; black stained, FILL.
5				PID= 13.3			TLO	Env. Sample ID= CGGP-44 (9-10)	S-2F (8.6'- 10') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine to medium; max. size 0.5"", moderate tar-like odor, brown, black stained, FILL.
	10	S-3	60/54				TLO		S-3A (10'- 10.9') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine to coarse; max. size 1.5"", strong tar-like odor, black, FILL.
							TLO		S-3B (10.9'- 11.9') SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine, rounded; max. size 0.5"", strong tar-like odor, brown, FILL.
				PID= 675			TLO	Env. Sample ID= CGGP-44 (12-13)	S-3C (11.9'- 12.4') SILTY SAND (SM); ~85% sand, fine to coarse, ~15% fines; strong tar-like odor, black, porcelain pieces, fibers, FILL.
							TLO		S-3D (12.4'- 12.7') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; max. size 0.5"", strong tar-like odor, black, tar saturated at 30-36" and 41-47", FILL.
0				PID= 9999+			TLO		S-3E (14.4'- 15') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; max. size 0.5"", strong
	15								

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S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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BORING LOG

CGGP-44

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	15	S-4	48/47	PID= 9999+			TLO		tar-like odor, black, small blebs of tar, FILL. S-4A (15'- 18.1') NARROWLY GRADED SAND (SP); ~95% sand, medium, ~5% gravel; strong tar-like odor, black, tar saturated, FILL.
				PID= 919					
							TLO		S-4B (18.1'- 19') SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel; strong tar-like odor, black, tar saturated, FILL. End of Boring at 19 feet.

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BORING LOG

CGGP-45

GROUND SURFACE ELEVATION (FT): 15.10 **LOCATION:** Parcel IV
NORTHING (FT): 671893 **EASTING (FT):** 632327 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/17/2008 - 3/17/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S-1	60/51						S-1A (0'- 0.6') ASPHALT; FILL. S-1B (0.6'- 1.9') SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to coarse, ~15% gravel, fine to medium, ~15% fines; max. size 0.75"", brown, FILL. S-1C (1.9'- 2.3') BRICK; FILL. S-1D (2.3'- 5') SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to coarse, ~15% gravel, fine to medium, ~15% fines; brown, 2" piece of concrete at 29", FILL.
				PID= 19.5					
10	5	S-2	60/34				TLO		S-2A (5'- 8.5') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine; max. size 0.5"", strong tar-like odor, brown, rock at 16", FILL.
							TLO		S-2B (8.5'- 9.1') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to coarse, ~20% fines, ~15% gravel, fine; max. size 0.5"", strong tar-like odor, brown, tar saturated, FILL.
				PID= 9999			TLO		S-2C (9.1'- 10') COAL; ~85% crushed coal, ~15% sand, black stained, strong tar-like odor, FILL.
5	10	S-3	60/38	PID= 9999			TLO	Env. Sample ID= CGGP-56 (10-11)	S-3A (10'- 12.2') SILTY SAND (SM); ~70% sand, fine to coarse, ~30% fines; strong tar-like odor, black, stained, FILL.
									S-3B (12.2'- 12.5') PEAT (PT); black, stained. S-3C (12.5'- 15') SILTY SAND (SM); ~70% sand, fine to coarse, ~30% fines; strong tar-like odor, black, stained, FILL.
							TLO		
	15								End of Boring at 15 feet.

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BORING LOG

CGGP-46

GROUND SURFACE ELEVATION (FT): 15.50 **LOCATION:** Parcel IV
NORTHING (FT): 671917 **EASTING (FT):** 632340 **TOTAL DEPTH (FT):** 9.0
DRILLED BY: Zebra Environmental / Luke Reiss **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Serkan Talip and Amy Hare **DATE START / END:** 3/17/2008 - 3/17/2008
DRILLING DETAILS: Geoprobe / MT52 Mobile GeoProbe
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
15	0	S-1	60/51					S-1A (0'- 0.6') ASPHALT; FILL.
								S-1B (0.6'- 3.2') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine to coarse, rounded, ~10% fines; brown, brick fragments, FILL.
								S-1C (3.2'- 3.4') CONCRETE; FILL.
								S-1D (3.4'- 4') BRICK; FILL.
				PID= 30.2		TLO	Env. Sample ID= CGGP-46 (4-5)	S-1E (4'- 5') SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines, ~10% gravel; slight tar-like odor, black brown, FILL.
10	5	S-2	48/13					S-2A (5'- 5.6') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, rounded, ~10% fines; brown, FILL.
								S-2B (5.6'- 7.8') TIMBER; FILL.
				PID= 34.4				S-2C (7.8'- 9') SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; black, FILL.

End of Boring at 9 feet.
Boring location is approximate.

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GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-01

GROUND SURFACE ELEVATION (FT): 15.00 **LOCATION:** Parcel IV
NORTHING (FT): 671889 **EASTING (FT):** 632326 **TOTAL DEPTH (FT):** 30.0
DRILLED BY: Summit Drilling / Bob Kimley **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Matt Sweet **DATE START / END:** 6/2/2008 - 6/3/2008
DRILLING DETAILS: Hollow Stem Auger / Mobile B-61 HSA / Hammer: 140 lbs / Drop: 30 in.
WATER LEVEL ELEVATIONS (FT): ▽ -1.50 6/2/2008 2:00 pm

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0		60/60	NA	PID= 0				Hand clear and vacuum extraction to 5' bgs.	
										(2'- 4') SILTY SAND WITH GRAVEL (SM); 73% sand, fine to coarse, 14% gravel, fine to coarse, 12% fines, max. size 4"", brown, brick and concrete fragments, FILL.
10	5	S-1	24/10	3-2-2-1	PID= 0					S-1 (5'- 7') WIDELY GRADED SAND WITH GRAVEL (SW); 83% sand, fine to coarse, 15% gravel, fine, 2% fines, max. size 0.25"", moist, brown, brick and concrete fragments, debris, FILL.
		S-2	24/8	0-0-2-1	PID= 0					S-2 (7'- 9') SILTY SAND WITH GRAVEL (SM); 55% sand, fine to coarse, 26% fines, 19% gravel, fine, moist, brown, orange and black, brick and concrete fragments, FILL.
5	10	S-3	24/2	2-5-4-6	PID= 662			PLO		S-3 (9'- 11') SILTY SAND (SM); fine to coarse; sand, fine to coarse, fines, moderate petroleum-like odor, black, black stained, FILL.
		S-4	24/10	5-4-4-6	PID= 863			PLO		S-4 (11'- 13') NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~75% sand, medium to coarse, ~15% gravel, fine to medium, ~10% fines; max. size 0.5"", strong petroleum-like odor, wet, black, brick and concrete fragments. Stained, FILL.
		S-5	2/2	50/2"	PID= 11.8					S-5 (13'- 13.2') SANDY SILT WITH GRAVEL (ML); ~60% fines, ~20% gravel, fine, ~20% sand, medium to coarse; brown.
0	15	S-6	24/20	63-10-9-5	PID= 164					S-6A (15'- 16.7') SANDY SILT WITH GRAVEL (ML); ~50% fines, ~25% gravel, fine to medium, ~25% sand, coarse; max. size 0.5"", concrete and sandstone fragments.
▽								TLO		S-6B (16.7'- 17') WIDELY GRADED SAND (SW); ~95% sand, mostly fine; ~5% silty fines, slight tar-like odor, wet, green brown.
		S-7	24/3	2-3-3-3	PID= 82.3			TLO		S-7 (17'- 19') SILTY SAND (SM); sand, silty fines, ~5% organics and root matter, slight tar-like odor, dark brown.
		S-8	24/20	5-5-6-6	PID= 127			OLO		S-8 (19'- 21') PEAT (PT); ~100% organic fines, plastic, moderate organic-like odor, moist, dark
	20									

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE
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IN. = INCHES
FT. = FEET
TSF = TONS PER SQUARE FOOT

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-01

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	20							OLO	No cohesive soils recovered, shelby tube discarded.	brown, plastic.
		ST-1	24/6	P-U-S-H	PID= NA					ST-1 (21'- 23') Shelby tube attempted, poor recovery.
		S-9	24/10	12-18-29-39	PID= 21.4			NLO		S-9 (23'- 25') SILTY SAND (SM); 76% sand, 19% fines, 5% gravel, fine, max. size 0.25"", slight naphthalene-like odor, moist, brown gray.
-10	25									
		S-10	24/24	11-18-22-29	PID= 2766			NLO		S-10 (28'- 30') SILTY SAND (SM); sand, silty fines, ~10% gravel, fine, max. size 0.25"", moderate naphthalene-like odor, moist, gray, purple and brown, odor towards bottom of sample.
-15	30									End of Boring at 30 feet. Fill with grout.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-02

GROUND SURFACE ELEVATION (FT): 13.50 **LOCATION:** Parcel IV
NORTHING (FT): 671826 **EASTING (FT):** 632293 **TOTAL DEPTH (FT):** 30.0
DRILLED BY: Summit Drilling / Bob Kimley **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Matt Sweet **DATE START / END:** 5/30/2008 - 5/30/2008
DRILLING DETAILS: Hollow Stem Auger / Mobile B-61 HSA / Hammer: 140 lbs / Drop: 30 in.
WATER LEVEL ELEVATIONS (FT): ▽ -4.50 5/30/2008 11:00 am

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0		60/60	NA				Hand clear and vacuum extraction to 5' bgs.	
10									(2'- 4') SILTY SAND WITH GRAVEL (SM); 74% sand, fine to coarse, 14% gravel, fine to coarse, 13% silty fines, max. size 2"", brown, FILL.
	5	S-1	6/6	12-50/0"	PID= 40.1		PLO		S-1 (5'- 5.5') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse; ~10% fines, ~10% gravel, brick, and debris, slight petroleum-like odor, brown, brick in tip of sampler, FILL.
		S-2	24/15	13-9-5-7	PID= 1434				S-2A (7'- 7.8') NARROWLY GRADED GRAVEL (GP); ~100% brick, concrete, debris, and coarse gravel, max. size 2"", FILL.
5							PLO		S-2B (7.8'- 9') WIDELY GRADED SAND WITH SILT AND GRAVEL; ~60% sand, fine to coarse, ~30% gravel, medium to coarse; ~10% fines, max. size 0.75"", slight petroleum-like odor, wet, black, FILL.
	10	S-3	24/6	5-7-3-2	PID= 920		PLO		S-3 (9'- 11') SILTY SAND (SM); sand, fine to coarse, silty fines, slight petroleum-like odor, brown black, 1" of brown silt in tip of sampler, FILL.
		S-4	24/4	1-1-1-2	PID= 58		MLO		S-4 (11'- 13') SILTY SAND WITH GRAVEL (SM); 63% sand, fine to coarse, 24% gravel, fine, 13% fines, max. size 0.25"", slight musty-like odor, wet, brown, brick, tile, and concrete fragments, FILL.
0		S-5	24/3	2-2-2-3	PID= 83.9		PLO		S-5 (13'- 15') SANDY SILT WITH GRAVEL (ML); ~50% fines, ~25% gravel, fine to medium, ~25% sand, fine to coarse; max. size 0.5"", slight petroleum-like odor, brick and concrete fragments, FILL.
	15	S-6	24/2	2-1-2-3	PID= 23		MLO		S-6 (15'- 17') SANDY SILT WITH GRAVEL (ML); ~50% fines, ~25% gravel, fine to medium, ~25% sand, fine to coarse; max. size 0.5"", slight musty-like odor, brick and concrete fragments, FILL.
▽ -5		S-7	24/22	12-12-12-12	PID= 19.8		MLO		S-7 (17'- 19') SILTY SAND (SM); 77% sand, fine to medium, 19% fines, 4% gravel, fine, slight musty-like odor, wet, black, gray, and brown.
	20	S-8	24/22	2-2-2-3	PID= 82.3		OLO		S-8 (19'- 21') PEAT (PT); ~100% fines, low plasticity; roots, slight organic-like odor, moist, dark gray.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

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455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-02

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	20						OLO		
		ST-1	24/0	P-U-S-H	PID= NA				ST-1 (21'- 23') NO RECOVERY; Shelby tube attempted, no cohesive soils, 2.5" cobble in tip.
-10		S-9	24/12	8-10-14-19	PID= 664				S-9A (23'- 23.7') ORGANIC SOIL (OL); ~50% organics, ~50% silty fines, roots, light gray to dark brown. S-9B (23.7'- 25') NARROWLY GRADED SAND (SP); ~95% sand, fine; ~5% silty fines, green gray.
	25								
-15		S-10	24/20	38-24-14-12	PID= 846				S-10A (28'- 28.8') SILT (ML); silty fines, roots, dark brown. S-10B (28.8'- 29.2') SILT (ML); ~100% silty fines, very moist, gray green. S-10C (29.2'- 30') SILTY SAND (SM); sand, fine, silty fines, ~10% gravel, fine to medium, max. size 0.5"", brown gray.
	30								End of Boring at 30 feet. Fill with grout.

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PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-03

GROUND SURFACE ELEVATION (FT): 16.00 **LOCATION:** Parcel IV
NORTHING (FT): 671854 **EASTING (FT):** 632250 **TOTAL DEPTH (FT):** 37.0
DRILLED BY: Summit Drilling / Bob Kimley **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Matt Sweet **DATE START / END:** 5/30/2008 - 6/2/2008
DRILLING DETAILS: Hollow Stem Auger / Mobile B-61 HSA / Hammer: 140 lbs / Drop: 30 in.
WATER LEVEL ELEVATIONS (FT): ▽ 2.13 6/2/2008 9:30 am

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
15	0		60/60	NA					Hand clear and vacuum extraction to 5' bgs.	(0'- 2') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse; ~10% gravel, fine and debris, max. size 0.5"", black brown, FILL.
										(2'- 5') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine; ~5% silty fines, max. size 0.25"", black, FILL.
10	5	S-1	24/10	5-7-4-2	PID= 0					S-1 (5'- 7') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); 62% sand, fine to coarse, 33% gravel, fine to coarse, 5% fines, max. size 0.75"", black, gray and white, concrete fragments, FILL.
		S-2	24/6	2-1-2-2	PID= 0					S-2 (7'- 9') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); 62% sand, fine to coarse, 33% gravel, fine to coarse, 5% fines, max. size 0.75"", moist, black, gray and white, concrete fragments, FILL.
5	10	S-3	24/12	2-2-2-4	PID= 0					S-3 (9'- 11') SILTY SAND WITH GRAVEL (SM); 65% sand, fine to medium, 20% fines, 15% gravel, wet, brown, gray and black, brick fragments, FILL.
		S-4	24/3	3-4-3-2	PID= 0					S-4 (11'- 13') SILTY SAND WITH GRAVEL (SM); 65% sand, fine to medium, 20% fines, 15% gravel, very moist, brown, gray and black, brick fragments, FILL.
▽		S-5	24/1	2-2-3-2	PID= 0					S-5 (13'- 15') SILTY SAND (SM); sand, silty fines, ~10% gravel, fine, max. size 0.25"", black, FILL.
0	15	S-6	24/5	5-4-3-2	PID= Lamp					S-6 (15'- 17') SILTY SAND (SM); ~85% sand, fine to coarse; ~15% silty fines, very moist, brown black.
		S-7	24/10	2-2-2-2	PID= Lamp			NLO		S-7 (17'- 19') SILTY SAND (SM); sand, fine to coarse, silty fines, slight naphthalene-like odor, brown black.
	20		24/0	2-2-2-2	PID= Lamp					(19'- 21') NO RECOVERY.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-03

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	20									
-5		S-8	24/10	2-2-3-3	PID= Lamp			NLO		S-8 (21'- 23') SILTY SAND (SM); sand, fine to coarse, silty fines, moderate naphthalene-like odor, wet, black and brown, sheen, NAPL coated grains throughout.
		S-9	24/20	1-2-2-3	PID= Lamp			NLO		S-9A (23'- 24') ORGANIC SOIL (OL); ~100% organic fines, slight naphthalene-like odor, brown, slight organic-like odor.
								NLO		S-9B (24'- 25') ORGANIC SOIL (OL); ~100% fines, plastic, slight naphthalene-like odor, moist, gray.
	25									
-10										
		S-10	24/22	5-9-18-22	PID= 105			NLO		S-10 (28'- 30') SILTY SAND (SM); 53% sand, fine to medium, 39% fines, 8% gravel, slight naphthalene-like odor, wet, black and gray, wood fragments.
	30									
-15										
		S-12	24/24	15-12-9-10	PID= 127			NLO		S-12A (33'- 33.8') NARROWLY GRADED SAND (SP); ~100% sand, fine; moderate naphthalene-like odor, moist, gray brown, sheen, NAPL coated grains.
	35	S-13	24/24	10-11-12-15	PID= 3719					S-12B (33.8'- 34.5') ORGANIC SOIL (OL); ~100% organic fines, low plasticity, moist, dark brown. S-12C (34.5'- 35') CLAYEY SAND (SC); ~60% sand; ~40% clayey fines, very moist, gray. S-13A (35'- 36.5') SILTY SAND (SM); fine; ~50% sand, fine to coarse, ~50% fines, very moist, brown and gray, interbedded silty sand and clayey sand. S-13C (36.5'- 37') SILT (ML); ~95% silty fines, ~5% sand, coarse, brown.
-20										End of Boring at 37 feet. Fill with grout.

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CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-04

GROUND SURFACE ELEVATION (FT): 19.50 **LOCATION:** Parcel IV
NORTHING (FT): 671899 **EASTING (FT):** 632170 **TOTAL DEPTH (FT):** 40.0
DRILLED BY: Summit Drilling / Bob Kimley **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Matt Sweet **DATE START / END:** 5/29/2008 - 5/30/2008
DRILLING DETAILS: Hollow Stem Auger / Mobile B-61 HSA / Hammer: 140 lbs / Drop: 30 in.
WATER LEVEL ELEVATIONS (FT): ▽ 6.50 5/29/2008 1:30 pm

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0		60/60	NA					Hand clear and vacuum extraction to 5' bgs.	
15	5	S-1	24/20	2-1-2-1	PID= 0					S-1 (5'- 7') SILTY SAND (SM); 80% sand, fine to coarse, 14% fines, 6% gravel, fine to coarse, max. size 0.75"", dark brown to orange brown, FILL.
		S-2	24/12	2-3-2-4	PID= 0					S-2 (7'- 9') SILTY SAND (SM); 80% sand, fine to coarse, 14% fines, 6% gravel, fine to coarse, max. size 0.75"", moist, dark brown to orange brown, FILL.
10	10		24/2	7-6-9-10	PID= 0					(9'- 11') SILTY GRAVEL WITH SAND (GM); ~50% gravel, fine; sand, fine to medium, silty fines, max. size 0.75"", brown, FILL.
		S-3	24/6	5-5-4-4	PID= 0					S-3 (11'- 13') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse; ~15% gravel, fine, brick fragments, and red sandstone, ~10% silty fines, max. size 0.75"", moist to wet, red, brown and tan, wet at tip of spoon, FILL.
▽		S-4	24/4	5-5-7-7	PID= 28.2			NLO		S-4 (13'- 15') SILTY SAND (SM); ~80% sand, fine to coarse; ~20% silty fines, moderate naphthalene-like odor, wet, brown, slight sheen.
5	15	S-5	24/10	5-5-7-5	PID= 152			NLO		S-5 (15'- 17') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% sand, fine to coarse, ~30% gravel, fine; ~10% silty fines, max. size 0.75"", moderate naphthalene-like odor, black staining, heavy sheen, NAPL blebs and globs.
		S-6	24/3	5-7-7-5	PID= 240			NLO NLO		S-6A (17'- 17.7') NARROWLY GRADED SAND WITH GRAVEL (SP); ~75% sand, fine to medium, ~20% gravel, fine to coarse, ~5% fines; moderate naphthalene-like odor, brown gray, staining.
0	20	S-7	24/14	4-5-5-4	PID= 189			NLO NLO		S-6B (17.7'- 19') SILTY SAND (SM); ~65% sand, fine; ~35% silty fines, moderate naphthalene-like odor, black.

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BORING LOG

CGP4SB-04

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	20							NLO		S-7A (19'- 19.3') SANDY SILT (ML); ~50% silty fines, ~50% sand, fine, moderate naphthalene-like odor, black.
		ST-1	24/24	P-U-S-H	PID= NA					S-7B (19.3'- 21') ORGANIC SOIL (OL); 50% organics, ~25% sand, fine, ~25% silty fines, moderate naphthalene-like odor, moist, black brown. ST-1 (21'- 23') PEAT (PT); peat, silty fines, Shelby tube.
-5		S-8	24/12	8-5-7-11				NLO		S-8 (23'- 25') SILTY SAND (SM); 73% sand, fine to medium, 21% fines, 6% gravel, fine, max. size 0.5"", slight naphthalene-like odor, wet, light brown.
	25									
		S-9	24/8	18-24-25-28	PID= 603					S-9A (28'- 29') ORGANIC SOIL (OL); organics, silty and clayey fines, max. size 1"", very moist, black, coarse gravel at bottom of sample.
-10								NLO		S-9B (29'- 30') SILTY SAND (SM); ~80% sand, fine to coarse; ~20% silty fines, moderate naphthalene-like odor, very moist, red, brown and black, NAPL coated grains, tar lenses.
	30									
		S-10	24/14	12-7-10-7	PID= 9183			NLO		S-10 (33'- 35') SILTY SAND (SM); sand, fine to coarse, silty fines, strong naphthalene-like odor, brown, NAPL coated grains at bottom of sample.
-15										
	35									
		S-11	24/24	12-38-40-15	PID= >9999			NLO		S-11 (38'- 40') SILTY SAND (SM); sand, fine to coarse, silty fines, ~10% gravel, fine, strong naphthalene-like odor, wet, brown, sheen, blebs and globs of tar.
-20	40									

End of Boring at 40 feet.
Fill with grout.

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FT. = FEET
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Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-05

GROUND SURFACE ELEVATION (FT): 22.25 **LOCATION:** Parcel IV
NORTHING (FT): 671933 **EASTING (FT):** 632142 **TOTAL DEPTH (FT):** 50.0
DRILLED BY: Summit Drilling / Bob Kimley **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Matt Sweet **DATE START / END:** 5/28/2008 - 6/3/2008
DRILLING DETAILS: Hollow Stem Auger / Mobile B-61 HSA / Hammer: 140 lbs / Drop: 30 in.
WATER LEVEL ELEVATIONS (FT): ▽ 6.25 5/29/2008 9:00 am

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0		60/60	NA	PID= 0.0				Hand clear and vacuum extraction to 5' bgs.	(0'- 1') WIDELY GRADED SAND (SW); ~80% sand, fine to coarse; ~15% gravel, fine to coarse, ~5% silty fines, max. size 0.25"", brown, FILL. (1'- 2') NARROWLY GRADED SAND (SP); ~80% sand, medium to coarse; ~15% gravel, fine to coarse, ~5% silty fines, max. size 0.5"", brown, FILL. (2'- 4') WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; max. size 0.25"", orange brown, FILL.
20										(4'- 5') NARROWLY GRADED SAND (SP); ~95% sand, medium to coarse; ~5% silty fines, brown, FILL.
	5	S-1	24/6	3-4-1-1	PID= 0					S-1 (5'- 7') SILTY SAND (SM); ~75% sand, fine to coarse; ~15% silty fines, ~10% gravel, fine to medium, max. size 0.5"", brown, FILL.
15		S-2	24/7	1-0-1-0	PID= 0					S-2 (7'- 9') WIDELY GRADED GRAVEL WITH SAND (GW); 57% gravel, fine to coarse, 38% sand, fine to coarse, 5% fines, moist, brown black, asphalt, brick, FILL.
		S-3	24/3	4-3-2-1	PID= 0					S-3 (9'- 11') SILTY SAND (SM); ~75% sand, fine to coarse; ~15% silty fines, ~10% gravel, fine, max. size 0.25"", moist, brown, FILL.
	10	S-4	24/2	1-0-0-1	PID= 0					S-4 (11'- 13') WIDELY GRADED SAND (SW); ~80% sand, fine to coarse; ~10% timber, ~10% slag and coal fragments, FILL.
10		S-5	24/4	3-2-1-2	PID= 1.7					S-5 (13'- 15') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); 52% sand, fine to coarse, 42% gravel, fine to coarse and debris, 6% fines, moist, black brown to gray, FILL.
	15	S-6	24/6	3-2-1-3	PID= 1.5					S-6 (15'- 17') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); 52% sand, fine to coarse, 42% gravel, fine to coarse and debris, 6% fines, moist, black brown to gray, FILL.
5		S-7	24/5	12-11-4-3	PID= 15			NLO		S-7 (17'- 19') SILTY SAND WITH GRAVEL (SM); ~50% sand, fine to coarse, ~25% gravel, fine to medium; ~25% silty fines, max. size 0.5"", slight naphthalene-like odor, wet, brown, FILL.
	20	S-8	24/20	6-5-3-2	PID= 358			TLO TLO		S-8A (19'- 19.6') SILTY SAND (SM); ~55% sand, fine to medium; ~45% silty fines, slight tar-like odor,

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S_V = TORVANE PEAK IN TSF

ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-05

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	20							TLO		brown, sheen. S-8B (19.6'- 21') SILTY SAND (SM); ~55% sand, fine to coarse; ~45% silty fines, slight tar-like odor, brown, black stained, coarse sand has NAPL saturation.
		S-9	24/18	1-1-2-2	PID= 358			TLO		S-9 (21'- 23') SILTY SAND (SM); sand, fine to medium, silty fines, ~5% gravel, fine, max. size 0.25"", slight tar-like odor, black stained.
0										
	25									
-5										
		S-10	24/24	3-5-8-9	PID= 357			NLO		S-10 (28'- 30') SILTY SAND (SM); sand, fine to medium, silty fines, ~10% coarse sand to fine gravel, max. size 0.25"", strong naphthalene-like odor, very moist to wet, green brown, NAPL lenses.
	30									
-10										
		S-11	24/14	12-27-36-38	PID= 80.6			NLO	Auger chatter, slow drilling	S-11 (33'- 35') NARROWLY GRADED SAND WITH GRAVEL (SP); ~50% sand, medium to coarse, ~50% gravel, fine to coarse, max. size 0.75"", moderate naphthalene-like odor, wet, brown, gray and green, sheen.
	35									
-15										
		S-12	24/8	195-99-38-25	PID= 242			NLO	Refusal, lose roller bit down hole, 25 feet of auger flights snap, lost down hole. Abandon and grout hole.	S-12 (37.5'- 39.5') SILTY SAND WITH GRAVEL (SM); ~50% sand, fine to coarse, ~35% gravel, fine to coarse; ~15% silty fines, max. size 0.5"", moderate naphthalene-like odor, brown, gray and green, cobbles and boulders, mottled, TILL.
	40								Auger refusal on cobbles or boulder, relocate boring 5' to the north, redrill to 43' bgs.	
-20										
					PID= 33.7					

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-05

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
		S-13	24/6	18-52-59-37					CGP4SB-05R; return to redrill 5 feet north of former location.	S-13 (43'- 45') SILTY GRAVEL WITH SAND (GM); ~30% gravel, fine to coarse, ~20% sand, fine to coarse, ~50% silty fines, max. size 0.75"", brown black, mica and pyrite flakes.
	45									
-25										
		S-14	24/18	27-79-67-111	PID= 73.3			NLO		S-14 (48'- 50') SILTY GRAVEL WITH SAND (GM); ~60% gravel, fine, ~20% sand, fine to coarse; ~20% silty fines, max. size 0.5"", slight naphthalene-like odor, moist, brown, green, red and black, mottled. Trace sheen.
	50									End of Boring at 50 feet. Fill with grout.

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(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

CGP4SB-47

GROUND SURFACE ELEVATION (FT): 23.50 **LOCATION:** Parcel IV
NORTHING (FT): 671968 **EASTING (FT):** 632171 **TOTAL DEPTH (FT):** 17.0
DRILLED BY: Summit Drilling / Bob Kimley **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Matt Sweet **DATE START / END:** 6/2/2008 - 6/3/2008
DRILLING DETAILS: Hollow Stem Auger / Mobile B-61 HSA / Hammer: 140 lbs / Drop: 30 in.
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0		60/60	NA	PID= 0			Hand clear and vacuum extraction to 5' bgs.	(0'- 4') SILTY SAND WITH GRAVEL (SM); 70% sand, fine to medium, 22% fines, 8% gravel, fine to coarse, max. size 0.75"", orange brown, FILL.
20									(4'- 5') SANDY SILT (ML); ~60% silty fines, ~35% sand, fine, ~5% gravel, medium, max. size 0.75"", brown, FILL.
	5	S-1	24/14	15-12-10-8	PID= 22.3		PLO		S-1 (5'- 7') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); 46% sand, fine to coarse, 43% gravel, fine to coarse, 11% fines, slight petroleum-like odor, brown, concrete, brick, FILL.
		S-2	24/3	12-10-8-6	PID= 2		PLO		S-2 (7'- 9') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); 46% sand, fine to coarse, 43% gravel, fine to coarse, 11% fines, max. size 0.75"", slight petroleum-like odor, brown, brick and medium gravel in spoon tip, FILL.
15		S-3	6/6	100/6"	PID= 90.5		PLO / PLO		S-3A (9'- 9.3') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); 46% sand, fine to coarse, 43% gravel, fine to coarse, 11% fines, slight petroleum-like odor, brown, concrete, brick, FILL.
	10	S-4	24/14	34-17-9-9	PID= 113.5		PLO	Env. Sample ID= CGP4SB-47 (10-12)	S-3B (9.3'- 9.5') CONCRETE; slight petroleum-like odor, fragments and dust. Possible concrete holder bottom, FILL. FILL. S-4 (10'- 12') SANDY SILT (ML); ~65% silty fines, ~35% sand, fine to coarse, slight petroleum-like odor, brown, concrete, asphalt, brick, tar, and debris at base, FILL.
		S-5	24/8	7-7-9-20	PID= 16.5				S-5 (12'- 14') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~35% gravel, fine; max. size 0.5"", brown, FILL.
10		S-6	24/12	12-10-9-6	PID= 9.7			Env. Sample ID= CGP4SB-47 (14-16)	S-6 (14'- 16') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~35% gravel, fine; max. size 0.5"", brown, coal and tinder debris, FILL.
	15	S-7	12/1	4-6-100/0"	PID= 0				S-7 (16'- 17') NO RECOVERY; ceramic and concrete in tip of spoon.
								Gas holder base evident at 17' bgs due to fragments of tile and concrete in tip of split spoon.	End of Boring at 17 feet. Fill with grout.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Citizens Gas Works
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 093250

BORING LOG

PAGE 1 of 1

CGP4SB-48

GROUND SURFACE ELEVATION (FT): 21.50 **LOCATION:** Parcel IV
NORTHING (FT): 671994 **EASTING (FT):** 632251 **TOTAL DEPTH (FT):** 15.5
DRILLED BY: Summit Drilling / Bob Kimley **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83 NY East Zone
LOGGED BY: Matt Sweet **DATE START / END:** 6/2/2008 - 6/3/2008
DRILLING DETAILS: Hollow Stem Auger / Mobile B-61 HSA / Hammer: 140 lbs / Drop: 30 in.
WATER LEVEL ELEVATIONS (FT):

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN/REC IN./IN.	BLOWS /6 in.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0		60/60		PID= 0.0		Env. Sample ID= CGP4SB-48 (4-5) Hand clear and vacuum extraction to 5' bgs.	(0'- 1') SILTY SAND (SM); ~60% sand, fine to coarse; ~30% silty fines, ~10% gravel, medium to coarse and brick fragments, brown, brick fragments, FILL. (1'- 2') WIDELY GRADED SAND WITH GRAVEL (SW); ~50% sand, fine to coarse; ~50% brick, concrete, cobbles and debris, max. size 2"", moist, brown, FILL. (2'- 3') WIDELY GRADED SAND WITH GRAVEL (SW); ~50% sand, fine to coarse; ~50% cobbles and debris, max. size 4"", moist, brown, FILL. (3'- 5') NARROWLY GRADED SAND WITH SILT (SP-SM); 89% sand, fine to medium, 9% fines, 2% gravel, fine to medium, max. size 0.25"", brown, FILL.
20								
	5	S-1	24/1	4-3-3-2	PID= 3.1		Env. Sample ID= CGP4SB-48 (5-7)	S-1 (5'- 7') NO RECOVERY; moist, concrete in tip of sampler, FILL.
15								
		S-2	24/10	1-1-2-1	PID= 2.9			S-2 (7'- 9') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse; ~20% silty fines, ~20% gravel, fine to medium, max. size 0.5"", moist, brown black to red, FILL.
	10	S-3	24/3	9-10-5-6	PID= 29.5			S-3 (9'- 11') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse; ~20% silty fines, ~20% gravel, fine to medium, max. size 0.5"", moist, brown black to red, FILL.
10		S-4	24/3	1-2-4-6	PID= 34.7			S-4 (11'- 13') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse; ~20% silty fines, ~20% gravel, fine to medium, max. size 0.5"", moist, brown black to red, FILL.
		S-5	24/6	5-7-7-4	PID= 44.9		Env. Sample ID= CGP4SB-48 (13-15)	S-5 (13'- 15') GRAVELLY SILT (ML); ~70% silty fines, ~30% gravel, fine to coarse, brown, brick, concrete, and wood chips, FILL.
	15	S-6	6/2	3-100/0"	PID= 22.4			S-6 (15'- 15.5') WIDELY GRADED SAND (SW); sand, fine to coarse, brown, tile fragment in tip, FILL.
							Gas holder base evident at 15.5' bgs due to concrete and tile fragments in tip of spoon.	End of Boring at 15.5 feet. Fill with grout.

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ENVIRONMENTAL BORING LOG ALL CITIZENS BORINGS 072512.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 5/18/21

Site Id: CGSB-17

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 14.46'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 68.00'
		Drilling Method: Resonant Sonic	
		Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description: color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
0-1	NA	100	2.3 ppm		0.0-1.0: FILL, asphalt, little fine to medium sand, trace brick, trace fine to coarse gravel, SILT, dry, non-cohesive, poorly-sorted, no visual impacts or odor. (FI)				NONE	
1-8	NA	83	607 ppm		1.0-8.0: Moist, FILL, 3" of wood at 5', trace fine to coarse gravel, little fine to medium sand, SILT, trace brick, non-cohesive, black staining from 3-3.5', moderate naphthalene odor. (FI)			+	MODERATE	10
8-18	NA	90	2000 ppm		8.0-10.0: Wet, red brown, little fine sand, trace clay, trace fine gravel, SILT, moderately sorted, moderately cohesive, soft, trace sheen and naphthalene odor. (SM)			+	FAINT	
				10	10.0-10.5: Wet, red brown CLAY, well-sorted, cohesive, moderately dense, no visual impacts, faint naphthalene odor. (CH)					
			1295 ppm		10.5-14.0: Wet, brown, black stained, trace fine to coarse gravel, trace coal, trace clay, trace silt, fine to coarse SAND, poorly-sorted, non-cohesive, coated grains at 13.5', petroleum odor. (SW)	11.0-14.0		+	MODERATE	
					14.0-18.0: Wet, brown, some silt, fine to medium SAND, well-sorted, semi-cohesive, soft, no visual impacts, faint naphthalene odor. (SP)					0

Legend: Physical Observations

None | Lenses, Grain Coatings and Blebs | Tar Saturated

Stain | Interbedded Tar Layers

Site Id: CGSB-17

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 14.46'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 68.00'
		Drilling Method: Resonant Sonic	
		Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
									FAINT	
18-28	NA	60	671 ppm		18.0-20.0: Wet, brown, trace silt, fine to medium SAND, well-sorted, non-cohesive, soft, no visual impacts, no odors. (SP)					
									NONE	
				20	20.0-20.5: Wet, red brown, trace silt, CLAY, well-sorted, cohesive, moderately dense, no visual impacts or odors. (OH)					
					20.5-24.0: Dark brown, dry, little organics, PEAT, cohesive, dense, no visual impacts, moderate organic odor. (PT)					
			416 ppm						MODERATE	
					24.0-32.0: Wet, brown, trace fine gravel, fine to medium SAND, well-sorted, non-cohesive, soft, no visual impacts, faint naphthalene odor. (SP)					-10
28-38	NA	100								
			9601 ppm						FAINT	

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGSB-17

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 14.46'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 68.00'
		Drilling Method: Resonant Sonic	
		Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
					32.0–34.0: Wet, brown, trace fine sand, SILT, well-sorted, cohesive, dense, trace patchy sheen, faint naphthalene odor. (SM)					
					34.0–38.0: Wet, brown, trace to little silt, fine to medium SAND, grades into coarse sand, trace fine gravel at 37–38', well-sorted, non-cohesive, soft, patchy sheen, heavily tar coated at 37–38', strong tar odor. (SP)				STRONG	–20
			9999+ ppm			37.0–38.0				
38–48	NA	10	32.4 ppm		38.0–44.0: Wet, red brown, sandy till, little fine to medium sand, trace fine to coarse gravel, SILT, poorly-sorted, semi-cohesive, moderately dense, no odors or visual impacts. (SM)					
				40						
					44.0–47.0: Wet, red brown, trace silt, fine to medium SAND, well-sorted, non-cohesive, soft, no visual impacts or odors. (SP)					–30

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGSB-17

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 14.46'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 68.00'
		Drilling Method: Resonant Sonic	
		Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
48-58	NA	100		50	47.0-51.0: Wet, red brown, trace fine to coarse gravel, trace cobbles, little fine to coarse sand, SILT, poorly-sorted, semi-cohesive, moderately dense, no odors or visual impacts. (SM)					
			5.2 ppm		51.0-58.0: Wet, red brown, trace fine to coarse gravel, trace cobble, trace fine sand, SILT, poorly-sorted, cohesive, dense, no odors or visual impacts. (ML)				NONE	-40
58-68	NA	40			58.0-68.0: Wet, gray brown, trace fine to coarse gravel, trace cobbles, fine to coarse SAND, poorly-sorted, non-cohesive, soft, no visual impacts, no odors. (SW)					

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGSB-17

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 14.46'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 68.00'
		Drilling Method: Resonant Sonic	
		Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
			4.0 ppm							
					58.0–68.0: Wet, gray brown, trace fine to coarse gravel, trace cobbles, fine to coarse SAND, poorly-sorted, non-cohesive, soft, no visual impacts, no odors. (SW)	60.0–62.0				
										–50
					68.0: End of boring.					
				70						
										–60

Legend: Physical Observations

- None
- Lenses, Grain Coatings and Blebs
- Tar Saturated
- Stain
- Interbedded Tar Layers

Site Id: CGSB-18

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 21.42'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 67.00'
		Drilling Method: Resonant Sonic	
		Logged By: Melissa Wells	Certified By: Katie Amos

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description: color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
0-1	NA	100	8.1 ppm		0.0-1.5: Brown, FILL, asphalt, cement, medium sand, little silt and gravel, loose, non-cohesive, no visual impacts, no odors. (Fl)					
1-7	NA	100			1.5-3.0: Brown, SILT, trace gravel, trace fine sand, dense, cohesive, no visual impacts, no odors. (ML)					20
			1.5 ppm		3.0-7.0: Brown, dry, FILL, medium SAND, some gravel, little silt, little cobbles, trace brick, loose, non-cohesive, no visual impacts, no odors. (Fl)				NONE	
7-17	NA	50			7.0-7.5: Black stained, dry, medium to coarse SAND, some gravel, loose, non-cohesive. (SW)			+		
					7.5-8.5: FILL (Brick fragments). (Fl)					
					8.5-12.0: FILL (Concrete and wood fragments), 1" steel holder bottom. (Fl)					
				10						10
			680 ppm		12.0-17.0: Brown, dry, fine to medium SAND, little fine gravel, loose, non-cohesive, no visual impacts, faint naphthalene odor. (SW)				FAINT	

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGSB-18

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 21.42'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 67.00'
		Drilling Method: Resonant Sonic	
		Logged By: Melissa Wells	Certified By: Katie Amos

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
17-27	NA	60	1110 ppm		17.0-20.0: Light brown, dry, fine SAND, loose, non-cohesive, well-sorted, no visual impacts, moderate naphthalene odor. (SP)					
				20	20.0-27.0: Brown, wet, medium SAND and GRAVEL with trace cobbles, loose, non-cohesive grading into clayey SAND with little gravel and cobbles, dense and cohesive, poorly-sorted throughout, sheen throughout, moderate naphthalene odor throughout. (SW)					0
			645 ppm			21.0-23.0			MODERATE	
27-37	NA	30	1571 ppm		27.0-37.0: Brown, wet, coarse SAND, some gravel, trace cobbles, loose, non-cohesive, poorly-sorted, sheen from 27'-29', black staining and sheen 29'-37', moderate to strong naphthalene odor. (SW)					
			621 ppm			29.0-31.0				

Legend: Physical Observations

None | Lenses, Grain Coatings and Blebs | Tar Saturated

Stain | Interbedded Tar Layers

Site Id: CGSB-18

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 21.42'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 67.00'
		Drilling Method: Resonant Sonic	
		Logged By: Melissa Wells	Certified By: Katie Amos

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
						29.0-31.0				-10
									STRONG	
37-57	NA	96			37.0-39.0: Wet, coarse GRAVEL, some cobbles, trace medium sand, loose, non-cohesive, poorly-sorted, tar blebs and staining, moderate naphthalene odor. (GP)					
			348 ppm						MODERATE	
			157 ppm		39.0-57.0: Brown, wet, medium to coarse SAND, trace gravel, loose, non-cohesive, well-sorted, no visual impacts, faint naphthalene odor. (SP)					
				40						-20
									FAINT	

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGSB-18

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 21.42'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 67.00'
		Drilling Method: Resonant Sonic	
		Logged By: Melissa Wells	Certified By: Katie Amos

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
					39.0-57.0: Brown, wet, medium to coarse SAND, trace gravel loose, non-cohesive, well-sorted, no visual impacts, faint naphthalene odor. (SP)					
				50						-30
			100 ppm						FAINT	
57-67	NA	100			57.0-67.0: Brown, wet, medium to coarse SAND, loose, non-cohesive, well-sorted, no visual impacts, faint naphthalene odor. (SP)					

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGSB-18

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/01/03	Date Completed: 04/01/03
Remarks:		Ground Elevation: 21.42'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 67.00'
		Drilling Method: Resonant Sonic	
		Logged By: Melissa Wells	Certified By: Katie Amos

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)
										-40
									FAINT	
					57.0-67.0: Brown, wet, medium to coarse SAND, loose, non-cohesive, well-sorted, no visual impacts, faint naphthalene odor. (SP)					
			279 ppm			65.0-67.0				
					67.0: End of boring.					
				70						-50

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGMW-05I

GEI Consultants, Inc.

Client: KeySpan Corporation			
Project Number: 982482-8-1903	Project Name: Citizens Gas Works	Date Started: 04/02/03	Date Completed: 04/02/03
Remarks: CGMW-05I was completed within CGSB-19. Geology, physical observations, and analytical samples for CGMW-05I were obtained from CGSB-19. The screened interval for CGMW-05S is depicted on the well construction diagram.		Ground Elevation: 26.40'	Datum: NAVD 88
		Contractor: Prosonic	Total Depth: 77.00'
		Drilling Method: Resonant Sonic	
		Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description: color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Vis. Signs of Contamination	Odors	Elevation (ft)
0-1	NA	100			0.0-0.75: CONCRETE. (CR)					
1-8	NA	71	0.4 ppm		0.75-1.0: Brown, dry, FILL, trace fine to coarse sand, trace fine gravel, trace brick, trace coal, SILT, concrete, no visual impacts, no odors. (FI)					
			0.2 ppm		1.0-2.0: Orange brown, moist, FILL, little fine to medium sand, trace fine gravel, SILT, poorly-sorted, non-cohesive, no visual impacts, no odors. (FI)					
			0.4 ppm		2.0-5.0: Black, moist, FILL, ash, coal, clinker, silt, trace fine to medium sand, no visual impacts, no odors. (FI)					
					5.0-8.0: Brown, moist, FILL, fine to medium SAND, trace silt, trace to little fine to coarse gravel, poorly-sorted, non-cohesive, moderately dense, no visual impacts, no odors. (FI)					20
8-18	NA	40	0.4 ppm		8.0-8.5: Black, FILL, silt and sand, ash, trace clay, non-cohesive, no visual impacts, no odors. (FI)				NONE	
				10	8.5-18.0: Brown, moist, FILL, little fine to coarse gravel, trace silt, fine to coarse SAND, trace shells, ash and clinker, poorly-sorted, semi-cohesive, moderately dense, no visual impacts, no odors. (FI)					
			0.4 ppm			11.0-12.0				

Legend: Physical Observations

None | Lenses, Grain Coatings and Blebs | Tar Saturated

Stain | Interbedded Tar Layers

Site Id: CGMW-05I

GEI Consultants, Inc.

Client: KeySpan Corporation	
Project Number: 982482-8-1903	Project Name: Citizens Gas Works
Remarks: CGMW-05I was completed within CGSB-19. Geology, physical observations, and analytical samples for CGMW-05I were obtained from CGSB-19. The screened interval for CGMW-05S is depicted on the well construction diagram.	

Date Started: 04/02/03	Date Completed: 04/02/03
Ground Elevation: 26.40'	Datum: NAVD 88
Contractor: Prosonic	Total Depth: 77.00'
Drilling Method: Resonant Sonic	
Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)	Well Construction
									NONE	10	
18-24	NA	33	12.7 ppm	20	18.0-25.0: Brown, wet, TILL, SILT, little fine to coarse gravel, trace to little fine to medium sand, poorly-sorted, cohesive, dense, no visual impacts, no odors. (ML) CGMW-05S is a shallow monitoring well, part of CGMW-05 well cluster. CGMW-05S WELL CONSTRUCTION: Measuring Point Elevation 25.68' tor 17.0-0.0 Grout 21.0-17.0 Seal 37.0-21.0 Sand 35.0-25.0 Screen 37.0-35.0 Sump						
24-28	NA	100	3.2 ppm						NONE		
					25.0-27.0: Yellow, dry, fine to coarse SAND, little coarse gravel and cobbles, poorly-sorted, non-cohesive, soft, no visual impacts, no odors. (SW)					0	
			1.8 ppm		27.0-28.0: Red brown, wet, sandy TILL, fine to coarse SAND, little silt, trace fine to coarse gravel, trace cobbles, poorly-sorted, non-cohesive, soft, no visual impacts, no odors. (SM)						
28-38	NA	90	1.6 ppm								
			2 ppm		28.0-29.0: Cobble. (AG) 29.0-32.0: Red brown, wet, sandy TILL, fine to coarse SAND, trace to little coarse gravel and cobbles, trace silt, poorly-						

Legend: Physical Observations

- None
- Lenses, Grain Coatings and Blebs
- Tar Saturated
- Stain
- Interbedded Tar Layers

Site Id: CGMW-05I

GEI Consultants, Inc.

Client: KeySpan Corporation	
Project Number: 982482-8-1903	Project Name: Citizens Gas Works
Date Started: 04/02/03	Date Completed: 04/02/03
Ground Elevation: 26.40'	Datum: NAVD 88
Contractor: Prosonic	Total Depth: 77.00'
Drilling Method: Resonant Sonic	
Logged By: Katie Amos	Certified By: Melissa Wells

Remarks: CGMW-05I was completed within CGSB-19. Geology, physical observations, and analytical samples for CGMW-05I were obtained from CGSB-19.
The screened interval for CGMW-05S is depicted on the well construction diagram.

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description (color, density, SOIL, admixture, moisture, other notes, ORIGIN.)	Analyzed Sample Interval	Lithology / Physical Observations	Odors	Elevation (ft)	Well Construction
					sorted, non-cohesive, soft, no visual impacts, no odors. (SM)					
			0.8 ppm		32.0-34.0: Brown, wet, fine to medium SAND, trace fine gravel, trace cobbles, well-sorted, non-cohesive, soft, no visual impacts, no odors. (SP)			NONE		
					34.0-38.0: Gray brown, wet, medium to coarse SAND, trace fine gravel, trace fine sand, well-sorted, non-cohesive, soft, no visual impacts, no odors. (SP)				-10	
38-48	NA	100			38.0-41.0: Brown, wet, medium to coarse SAND, trace to little silt, trace fine gravel, moderately sorted, non-cohesive, soft, no visual impacts, no odors. (SW)					
				40				NONE		
					41.0-41.5: Gray SILT, no visual impacts, no odors. (ML)					
					41.5-43.0: Core of rock. (AG)					
					43.0-44.0: Red brown, wet, TILL, SILT, trace gravel, little fine to medium sand, poorly-sorted, semi-cohesive, dense, no visual impacts, no odors. (ML)					
			0.9 ppm		44.0-48.0: Brown, wet, fine to coarse SAND, trace fine gravel					

Legend: Physical Observations

- None
- Lenses, Grain Coatings and Blebs
- Tar Saturated
- Stain
- Interbedded Tar Layers

Site Id: CGMW-05I

GEI Consultants, Inc.

Client: KeySpan Corporation	
Project Number: 982482-8-1903	Project Name: Citizens Gas Works
Remarks: CGMW-05I was completed within CGSB-19. Geology, physical observations, and analytical samples for CGMW-05I were obtained from CGSB-19. The screened interval for CGMW-05S is depicted on the well construction diagram.	

Date Started: 04/02/03	Date Completed: 04/02/03
Ground Elevation: 26.40'	Datum: NAVD 88
Contractor: Prosonic	Total Depth: 77.00'
Drilling Method: Resonant Sonic	
Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description: color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)	Well Construction
					well-sorted, non-cohesive, soft, no visual impacts, no odors. (SP)					-20	
			0.5 ppm								
48-58	NA	100			48.0-68.0: Gray brown, wet, fine to medium SAND, trace coarse sand, well-sorted, non-cohesive, soft, no visual impacts, faint naphthalene odor from 53-68'. (SP)				None		
				50							
									FAINT	-30	
			381 ppm			57.0-58.0					
58-68	NA	100									

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGMW-05I

GEI Consultants, Inc.

Client: KeySpan Corporation	
Project Number: 982482-8-1903	Project Name: Citizens Gas Works
Remarks: CGMW-05I was completed within CGSB-19. Geology, physical observations, and analytical samples for CGMW-05I were obtained from CGSB-19. The screened interval for CGMW-05S is depicted on the well construction diagram.	

Date Started: 04/02/03	Date Completed: 04/02/03
Ground Elevation: 26.40'	Datum: NAVD 88
Contractor: Prosonic	Total Depth: 77.00'
Drilling Method: Resonant Sonic	
Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)	Well Construction
					CGMW-05I WELL CONSTRUCTION: Measuring Point Elevation 26.14' tor 47.0-0.0 Grout 50.4-47.0 Seal 69.0-50.4 Sand 64.0-54.0 Screen 66.0-64.0 Sump 77.0-69.0 Bentonite Seal						
			124 ppm			63.0-64.0			FAINT		
										-40	
			62.9 ppm								
68-77	NA	100			68.0-77.0: Gray brown, wet, fine to medium SAND, trace silt, trace coarse sand, well-sorted, non-cohesive, soft, no visual impacts, faint naphthalene odor. (SP)						
			5.1 ppm								
				70							
									FAINT		

Legend: Physical Observations

- None
- Stain
- Lenses, Grain Coatings and Blebs
- Interbedded Tar Layers
- Tar Saturated

Site Id: CGMW-05I

GEI Consultants, Inc.

Client: KeySpan Corporation	
Project Number: 982482-8-1903	Project Name: Citizens Gas Works
Remarks: CGMW-05I was completed within CGSB-19. Geology, physical observations, and analytical samples for CGMW-05I were obtained from CGSB-19. The screened interval for CGMW-05S is depicted on the well construction diagram.	

Date Started: 04/02/03	Date Completed: 04/02/03
Ground Elevation: 26.40'	Datum: NAVD 88
Contractor: Prosonic	Total Depth: 77.00'
Drilling Method: Resonant Sonic	
Logged By: Katie Amos	Certified By: Melissa Wells

Split Spoon Sample Depth (ft.)	Blows Per 6 Inches	Recovery %	PID	Depth (ft.)	Soil Description: color, density, SOIL, admixture, moisture, other notes, ORIGIN.	Analyzed Sample Interval	Lithology	Physical Observations	Odors	Elevation (ft)	Well Construction
			1.5 ppm								
										-50	
					77.0: End of boring.						
				80							
										-60	

Legend: Physical Observations

- None
- Lenses, Grain Coatings and Blebs
- Tar Saturated
- Stain
- Interbedded Tar Layers

GEI Consultants	GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	CLIENT: KeySpan Corporation PROJECT NAME: Carroll Gardens/Public Place CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 982482 - 8	BORING LOG PAGE 1 of 3	CGSB-40

BORING ID:	CGSB-40	LOCATION:	Smith & 5th Street
GROUND SURFACE ELEVATION (FT):	23.58	TOTAL DEPTH (FT):	59.00
NORTHING: 632267.59	EASTING: 671934.68	VERT. DATUM:	NAVD 88
DRILLED BY: Prosonic	Ben Grim	HOR. DATUM:	NAD83 NY East Zone
LOGGED BY: M. Felter		DATE START / END:	12/13/2004 - 12/13/2004

DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN FT.	REC FT.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
0	S1	4.5	1.0	31.5					0 - 4.5 wet, brown FILL, fine-medium SAND, some fine gravel, some brick fragments and traces of slag, traces of fines, loose, non-cohesive, poorly sorted, no odor or visual impacts.
2									
4									
	S2	4.5	2.0	4.1					4.5 - 9 wet, brown FILL, fine-medium SAND, some fine gravel, some brick fragments and traces of slag with traces of wood fragments, traces of fines, loose, non-cohesive, poorly sorted, no odor or visual impacts.
6									
8									
	S3	10.0	5.5	79.5					9 - 12.5 wet, brown FILL, medium-coarse SAND and GRAVEL, BRICK, loose, non-cohesive, poorly sorted, no odors or visual impacts.
10									
12									12.5 - 13 wet, brown FILL, medium-coarse SAND and GRAVEL, BRICK, loose, non-cohesive, poorly sorted, slight napthalene-like odor (steel at end of interval 1/2 inch thick).
							NLO		13 - 14.5 Concrete rock flour.
14									14.5 - 15.5 moist, brown FILL, medium-coarse SAND, some gravel and brick, traces of fines, loose, non-cohesive, poorly sorted, moderate napthalene-like odor.
				2819			NLO		
16							NLO -		15.5 - 19 Concrete rock flour, slight napthalene-like odor in shoe, no visual impacts.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
NM = NOT MEASURED

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO= NAPHTHALENE LIKE ODOR
PLO= PETROLEUM LIKE ODOR
TLO= TAR LIKE ODOR
CLO= CHEMICAL LIKE ODOR
MLO = MUSTY LIKE ODOR
CrLO= CREOSOTE LIKE ODOR
OLO= ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
ALO = ASPHALT LIKE ODOR

Tar Saturated | Staining and sheen | Tar Lenses and tar/naptha odor | Blebs, globs, lenses, grain-coating, sheen | Petroleum sheen/ staining odors

GEI Consultants	CLIENT: KeySpan Corporation	BORING LOG
GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	PROJECT NAME: Carroll Gardens/Public Place CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 982482 - 8	PAGE 2 of 3 — CGSB-40

DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC FT.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
18									
	S4	10.0	4.5	9999+			NLO		19 - 20 wet, black (organic) PEAT, soft, root material, slight napthalene-like odor, no visual impacts.
20							NLO		
				9999+			NLO	CGSB-40 21-21.5	20 - 20.5 wet, brown, fine SAND, some fines, some root material, loose, non-cohesive, well-sorted, slight napthalene-like odor, no visual impacts.
22							NLO		20.5 - 29 wet, brown fine SAND, some fines, trace varves of silt, some fine gravel (22-23), loose, non-cohesive, well-sorted, sheen throughout, moderate-strong napthalene-like odor.
24							NLO		
26							NLO		
28							NLO		
	S5	10.0	7.0	9795.0			NLO		29 - 31.5 moist, brown fine SAND and SILT, dense, cohesive, some fine gravel, poorly sorted, slight napthalene-like odor, no visual impacts.
30							NLO		
32							NLO		31.5 - 33 wet, dark brown fine-coarse SAND, some fine-medium gravel, traces of cobble and fines, loose, non-cohesive, poorly sorted, strong napthalene-like odor, no visual impacts.
							NLO		33 - 34 wet, dark brown fine-coarse SAND, some fine-medium gravel, traces of cobble and fines, loose, non-cohesive, poorly sorted, strong napthalene-like odor, lightly coated with tar.
34							NLO		34 - 39 wet, dark brown fine-coarse SAND, some fine-medium gravel, traces of cobble and fines, loose, non-cohesive, poorly sorted, strong napthalene-like odor, trace tar staining.
36							NLO		
38							NLO		

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Tar Saturated | Staining and sheen | Tar Lenses and tar/naptha odor | Blebs, globs, lenses, grain-coating, sheen | Petroleum sheen/ staining odors

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DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN FT.	REC FT.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	S6	10.0	6.0	8776.0			TLO	CGSB-40 39-40	39 - 40.5 wet, brown, coarse SAND and GRAVEL, some fines, loose, non-cohesive, poorly sorted, slight tar-like odor, blebs and sheen.
40									40.5 - 43.5 moist, reddish brown TILL, fine SAND and SILT, some fine-medium gravel, moderately dense and cohesive, poorly sorted, no odor or visual impacts.
42									
44				238					43.5 - 49 wet, brown medium-coarse SAND, traces of fines, loose, non-cohesive, well-sorted, no odor or visual impacts.
46									
48									
	S7	10.0	10.0	138.0			NLO		49 - 50 wet, brown, fine-medium SAND, traces of fines, loose, non-cohesive, well-sorted, slight napthalene-like odor, no visual impacts.
50								CGSB-40 58-59	50 - 59 wet, brown, fine-medium SAND, (57 feet) becoming grayish-brown fine-coarse SAND, traces of fines, loose, non-cohesive, well-sorted, no odors or visual impacts.
52									
54									
56									
58				6.2					END OF BORING AT 59 FEET.

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GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	PROJECT NAME: Carroll Gardens/Public Place CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 982482 - 8	PAGE 1 of 2 — CGSB-41

BORING ID:	CGSB-41	LOCATION:	Smith & 5th Street
GROUND SURFACE ELEVATION (FT):	18.86	TOTAL DEPTH (FT):	58.00
NORTHING: 632187.82	EASTING: 671980.61	VERT. DATUM:	NAVD 88
DRILLED BY:	Prosonic Ben Grim	HOR. DATUM:	NAD83 NY East Zone
LOGGED BY:	M. Felter	DATE START / END:	12/8/2004 - 12/8/2004

DEPTH FT.	SAMPLE INFORMATION: TYPE and NO.	PEN FT.	REC FT.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
0	S1	2.0	1.5	2.4			ALO		0 - 0.5 ASPHALT 0.5 - 8 wet, brown FILL, medium SAND, some fines, gravel and asphalt, loose, non-cohesive, poorly sorted, traces of brick, asphalt-like odor, no visual impacts.
2									
4									
6									
8	S2	9.0	4.0	1.8			NLO		8 - 11 wet, brown, FILL, medium SAND, some fines, some gravel and brick, trace wood, very faint napthalene-like odor, no visual impacts.
10									
12									
14									11 - 16.5 wet, brown, FILL, medium SAND, some fines, some gravel and brick, trace wood, no odors or visual impacts.
16									16.5 - 18 BRICK, traces of black staining, traces of wood, burnt odor.
18	S3	11.0	8.5	21.2			MLO		18 - 19.5 wet, dark brown FILL, fine SAND, some fines, gravel and brick fragments, loose, non-cohesive, musty-like odor, no visual impacts.
20									19.5 - 20.5 white and gray ROCK powder, no odors or visual impacts.
22									20.5 - 22 dry, reddish-brown FILL, coarse SAND, traces of fines, some brick and gravel, loose, non-cohesive, poorly sorted, no odors or visual impacts.
24									22 - 23 gray ROCK powder, no odors or visual impacts.
26				2.3					23 - 28 dry, brown FILL, medium-coarse SAND, traces of fines, some gravel, traces of brick and glass, loose, non-cohesive, poorly sorted, no odor or visual

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DEPTH FT.	SAMPLE INFORMATION TYPE and NO.	PEN FT.	REC FT.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
									impacts.
28	S4	10.0	6.0	2898.0			NLO		28 - 29.5 wet, brown, coarse SAND, some fines and gravel, loose, non-cohesive, poorly sorted, moderate napthalene-like odor, heavy sheen.
30							NLO	CGSB-41 30-30.5	29.5 - 30 COBBLE.
32							NLO		30 - 31.5 wet, brown, medium SAND, some fines and gravel, loose, non-cohesive, poorly sorted, moderate napthalene-like odor, heavy sheen.
34				2267			NLO		31.5 - 33 wet, brown, medium SAND, some fines and gravel, loose, non-cohesive, poorly sorted, moderate napthalene-like odor.
36									33 - 38 wet, brown, medium-coarse SAND and GRAVEL, traces of fines, loose, non-cohesive, poorly sorted, moderate napthalene-like odor, heavy sheen.
38	S5	10.0	8.0	2146.0			NLO	CGSB-41 38-38.5	38 - 41wet, brown, medium-coarse SAND and GRAVEL, traces of fines, loose, non-cohesive, poorly sorted, moderate napthalene-like odor, heavy sheen.
40									
42				1979			NLO		41 - 42 moist, brown TILL, SILT, traces of fine sand, some clay and gravel, dense, non-cohesive, poorly sorted, slight napthalene-like odor, trace sheen.
44							NLO		42 - 44.5 moist, brown TILL, SILT, traces of fine sand, some clay and gravel, dense, non-cohesive, poorly sorted, slight napthalene-like odor, no visual impacts.
46				182					44.5 - 48 wet, dark brown, medium SAND, traces of fines, loose, non-cohesive, well-sorted, no odors or visual impacts.
48	S6	10.0	10.0	21.4			NLO		48 - 50 wet, brown, fine-medium SAND, traces of fines and fine gravel, loose, non-cohesive, well-sorted, slight napthalene-like odor, no other odors or visual impacts.
50								CGSB-41 56-56.5	40 - 58 wet, brown, fine-medium SAND, traces of fines and fine gravel, loose, non-cohesive, well-sorted, no odors or visual impacts.
52									
54									
56				10.4					
58									END OF BORING AT 58 FEET.

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