

DATA SUMMARY REPORT
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

Prepared for

Niagara Mohawk Corporation d/b/a
National Grid, Syracuse, New York

June 2009

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REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Prepared for
Niagara Mohawk Corporation d/b/a National Grid
300 Erie Boulevard West
Syracuse, New York 13202

June 2009

Project Number: 136501.103

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June 15, 2009

136501.103

Jamie L. Verrigni
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Division of Environmental Remediation, Remedial Bureau C, Section A
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Albany, NY 12233-7014

Subject: Rensselaer Non-Owned Former MGP Site (V00488)
Remedial Investigation
Data Summary Report

Dear Ms. Verrigni:

As discussed during our on-site meeting with Ed Neuhauser, Ph.D. of National Grid on April 10, I enclose a Data Summary Report (DSR) for the Remedial Investigation (RI) of the Rensselaer Non-Owned Former Manufacture Gas Plant (MGP) Site, located on Washington Street in Rensselaer, New York (hereinafter, site). This DSR has been prepared because the results of the investigations conducted so far indicate that the extent of MGP-related impacts has not been sufficiently delineated and further field activities will be required before a full RI report can be prepared. As listed in the Table of Contents, the DSR consists of 16 figures, 8 tables, and associated appendices.

Scope of the RI

With the following exception, all field investigation elements of the approved RI Work Plan were completed.

- The test pit designated TP-106-08 in the work plan was excavated and achieved the objective of locating and characterizing the tar well shown on historical maps in the northwest corner of the site. Accordingly, the test pit designated TP-105-08 in the work plan was not excavated and test pit TP-106-08 was renamed TP-105-08.

The following was added to the scope of the investigation:

- An additional, deeper overburden well was installed adjacent to MW-106-08. The purpose of the additional well was to monitor groundwater quality in a deeper zone that was found to be impacted with MGP-related DNAPL. The shallow and deeper wells were named MW-106S-08 and MW-106D-08, respectively.

All soil borings, monitoring wells, test pits and sediment samples are listed in Table 1 and their locations are shown of Figure 2.

Findings

The main findings of the investigation to date (RI and Site Characterization) are summarized below.

1. The geologic materials encountered on the site consist in descending order of anthropogenic fill, a silt and sand deposit (potentially alluvium and/or lacustrine deposits) and glacial till over dark gray shale bedrock (see Figure 4, hydrogeologic cross-sections A-A' and B-B'). The fill varies in thickness from approximately 3-10 feet and is composed primarily of reworked sand and silt mixed with varying amounts of brick, cinders, ash and coal fragments. The silt and sand deposit generally consists of mixtures of grey to brown sand and silt with occasional, relatively minor zones of fine to medium gravel. At several locations in the study area the upper 3-5 feet of the silt and sand deposit consist of silty clay or clayey silt. The silt and sand deposit generally thickens to the north, possibly filling an erosional channel in the underlying glacial till. In the vicinity of well MW-105-08 the glacial till appears to have been completely eroded and the silt and sand deposit rests directly on bedrock. The glacial till generally consists of dense, poorly sorted silt, sand and gravel. The till ranges in thickness from 5-15 feet except in the vicinity of MW-105-08, where it is absent.
2. Rock fragments retained in the split spoon sampler after refusal indicate the bedrock immediately underlying the overburden is dark gray shale. The elevation of the bedrock surface (Figure 3) ranges from approximately -4 to -9 feet msl. As interpreted in Figure 3, a longitudinal depression in the bedrock surface may extend SW-NE across the Site.
3. The water table occurs in the fill and silt and sand deposit, generally about five to eight feet below ground surface. Water table contours for December 19, 2008 and April 27, 2009 indicate that the overburden groundwater flows north-northeasterly toward Huyck Stream (Table 2, Figures 5 and 6).

Groundwater elevations measured on the above dates in monitoring well couplet MW-106S-08/MW-106D-08 indicate an upward gradient in the overburden in this area. Based on this limited data, it appears likely that overburden groundwater present beneath the site discharges to Huyck Stream.

4. A summary of the estimated horizontal hydraulic conductivity (K) values from slug tests conducted on all monitoring wells is provided in Table 3. The K values range from 2.3×10^{-5} to 4.4×10^{-4} cm/sec. Lower hydraulic conductivity values were generally obtained from monitoring wells with screens that were partially surrounded by saturated silt/clay zones in the upper silt and sand deposit (e.g. MW-101-05, MW-102-05, MW-103-05). The geometric mean of all measured K values is 1.1×10^{-4} cm/sec. Lower hydraulic conductivity values are expected in the dense glacial till layer and the silt/clay zones in the silt and sand deposit, with higher values in the coarser-grained (gravel-rich) zones within the silt and sand deposit.
5. A combined sanitary/storm sewer is present under Washington Street (Figure 2). Two catch basins (CB-1, CB-2) located on the west and east sides Washington Street near the intersection with Huyck Square discharge to sewer manhole MH-1. Catch basin CB-1 was filled with debris and its interior could not be inspected. A third catch basin (CB-3), on the northwest corner of Huyck Square and Washington Street, was filled with debris and its discharge point could not be identified. As shown on Figures 5 and 6, the elevations of the water table on December 19, 2008 and April 27, 2009 were higher than the surveyed invert elevations of the combined sanitary/storm sewer in the vicinity of MH-1 (8.7' msl, 8.9' msl), indicating a potential for groundwater to infiltrate the sewer pipe and the surrounding bedding. The surveyed inverts of the catch basin laterals are higher than the sewer pipe; however, groundwater may potentially infiltrate the laterals during high water table conditions. The sewer manhole and catch basins were inspected on November 25, 2008 to further assess the potential for interaction of shallow groundwater and the sewer lines (photographic log, Appendix C). Water was observed to be infiltrating the brick-lined walls of CB-2, however, this may have resulted from rainfall at the time of the inspection. Southward flow and a slight sewage odor were noted in manhole MH-1 but direct evidence of infiltration was not noted. No MGP-related odors were noted during the sewer inspection. There are no indications from water level monitoring data that the sewers are substantially influencing groundwater flow.
6. Visual and olfactory indications of MGP-related impacts were noted in a number of SC/RI borings and test pits (Table 4). These indications included tar-like odors, sheens, and NAPLs of varying color and viscosity. Some odors were petroleum or fuel-like (B-108-08, B-111-08, MW-107-08, and TP-101-05). Interbedded layers of white and black fill with a slight sulfur-like odor noted in test pit TP-103-5 may be indicative of potential purifier waste material. NAPL coatings or blebs were noted in soil borings B-104-05, B-106-05, B-110-08, B-111-08, MW-102-05, MW-103-05, MW-105-08, MW-106S/D-08, and

MW-107-08, and test pits TP-102-05, TP-103-05, TP-104-05 and TP-105-08. The vertical distribution of NAPL in the general vicinity of Huyck Square (hydrogeologic cross-sections A-A' and B-B') suggests that MGP-related DNAPL may have migrated northeasterly from the northern gas holder and/or the tar well, through coarser zones in the silt and sand deposit, and penetrated coarser, less dense glacial till in the vicinity of MW-106S-08.

7. Subsurface soil samples collected during the RI were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL SVOCs, Total Cyanide, and free cyanide. The results of these analyses were compared to the New York State Subpart 375 Soil Cleanup Objectives (SCOs) for Residential Use, Protection of Ecological Resources, or Protection of Groundwater (Table 6, Figure 8). Benzene, ethylbenzene, toluene, and isomers of xylene (BTEX compounds) were detected above one or more of the applicable SCOs in subsurface soil samples from eight locations. The only other VOC detected above the SCOs was acetone, a common laboratory contaminant. Polycyclic aromatic hydrocarbons (PAHs) were detected above one or more of the SCOs in subsurface soil samples from ten locations. No other SVOCs were detected above the applicable SCOs. The locations with exceedances of the SCOs for BTEX or PAHs generally fall within areas impacted by NAPL. Total Cyanide was not detected above the applicable SCOs in subsurface soil samples from any location.
8. Surface soil samples were collected at ten locations from the top two inches of soil after the overlying vegetation was removed. The surface soil samples were analyzed for TCL SVOCs, Total Cyanide, and free cyanide. The results of these analyses were compared to the Subpart 375 SCOs for Residential Use, Protection of Ecological Resources, or Protection of Groundwater (Table 5, Figure 7). PAHs were detected above one or more of the SCOs in surface soil samples from four locations. These exceedances were limited to carcinogenic PAHs, which have very low SCOs for protection of public health (1 mg/kg or less). Total PAH concentrations in surface soil ranged from 1.3 to 37 mg/kg, levels that are not unexpected given the urban setting. No other SVOCs were detected above the applicable SCOs. Total Cyanide was not detected above the applicable SCOs at any location.
9. Stream sediment samples (approximate 0-6 inch depth interval) were collected at two locations near the south shore of the Huyck Stream (Figure 9). A third sediment sample was collected east of the Washington Street bridge (upstream from the former MGP) site to evaluate impacts by urban runoff and other, non-MGP substances. The sediment samples were analyzed for BTEX, Total

Cyanide, free cyanide, and total organic carbon (TOC). The sediment samples were also analyzed for a total of 34 commonly identified PAH compounds consisting of the 18 parent (non-alkylated) PAH compounds typically targeted in SW-846 Method 8270, and 16 alkylated PAH compounds that have been generally recognized as most abundant and which are commonly measured as part of environmental monitoring (Table 7, Figure 9).

The results of the sediment sampling and analyses indicate that there are no site-related impacts in the surficial sediments in Huyck Stream. BTEX was not detected in any sediment sample. Total Cyanide was only detected in the upstream sediment sample SED-1, which was selected to be representative of background conditions. PAH concentrations in the upstream sample are slightly higher than those in the samples from the locations in the stream adjacent to the site. Overall, these PAH concentrations are relatively low, with total PAH concentrations ranging from 2.8 to 15 mg/kg. These findings indicate the PAHs in the sediment are representative of background conditions associated with an urban setting, with the PAHs being derived from storm water run-off, soot, and/or atmospheric deposition.

Histograms of the concentrations of each PAH compound (non-alkylated and alkylated) were prepared for each sediment sample (see Figures 12-15). In the histograms, the PAH compounds are arranged in a general order of increasing molecular weight and increasing number of aromatic ring structures. Within this ordering, alkylated compounds are arranged by, and with, their non-alkylated parent compound (i.e., homolog group) by increasing number of carbons in the alkyl group (e.g., chrysene [parent PAH], C1-chrysenes, C2-chrysenes, C3-chrysenes). The histograms illustrate a predominance of higher molecular weight PAHs in these samples. The histograms also depict a pattern within homolog groups of the parent compound having the highest concentration, with concentration decreasing with the increased number of carbons in the alkyl group (e.g., chrysene > C1-chrysenes > C2-chrysenes > C3-chrysenes). Both of these characteristics suggest a pyrogenic origin for the PAHs such as soot or urban road run-off, or possibly weathered coal tar (unweathered coal tar would typically be indicated by the presence of greater concentrations of the lighter molecular weight PAHs, e.g., naphthalene). A further indicator of pyrogenic origin is that the fluoranthene:pyrene ratio is greater than 1, which has been shown to be an indicator of derivation from high temperature combustion (versus lower temperature processes, such as distillation). As described above, the low concentration of the PAHs, the presence of similar concentrations in all the samples including the upstream sample, and the setting of Huyck stream in an urban area support the conclusion that PAHs in the sediment are derived from urban run-off and soot deposition.

The expanded list of PAH compounds was also analyzed for a soil sample from the 9 to 11 ft BGS depth interval in boring MW-107. The soils here were described as containing blebs of black-red NAPL with moderate tar-like odor. The total PAH concentration in this sample is 70 mg/kg. The histogram for this sample (Figure 16) indicates that the PAHs likely originate from coal tar, although there are indications of possible contributions from petroleum fuel. The pattern within most of the homolog groups of the parent compound having the highest concentration, with concentration decreasing with the increased number of carbons in the alkyl group, are indicative of coal tar. The material is not highly weathered based on the presence of lower molecular weight PAHs. However, there are two indications of possible petrogenic origin. First, in the naphthalene homolog group, the C2-naphthalene is predominant rather than the parent naphthalene. Second, although the field description of the sample is indicative of coal tar, "fuel-like/hydrocarbon odors" were noted for the samples from directly below (11 to 13 and 13-15 ft. BGS). The fluoranthene:pyrene ratio for this sample (0.76) is less than one, indicating the PAHs are derived from a lower temperature process.

10. Two rounds of groundwater sampling were conducted during the RI, on December 18-19, 2008 and April 27-28, 2009. Water table elevations were slightly higher during the December 2008 round of sampling (Figures 5 and 6). The samples were analyzed for TCL VOCs, TCL SVOCs, Total Cyanide, and free cyanide. The results of the analyses were compared to the 6 NYCRR Part 703 groundwater standards for Class GA water or, where no such standard exists, the corresponding guidance value from Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 (Table 8, Figures 10, 11). In accordance with the RI Work Plan, no groundwater samples were collected from MW-102-05 during the December 2008 round or from MW-106S/D-08 during both rounds because NAPL was detected in the monitoring wells during water level measurements and NAPL gauging prior to sampling.

BTEX compounds were detected above the standards in monitoring wells MW-102-05, MW-103-05, MW-105-08 and MW-107-08. The only other VOC detected above standards/guidelines was the potentially MGP- or petroleum-related compound isopropyl benzene in MW-107-08. The PAH compounds naphthalene, 2-methylnaphthalene and/or acenaphthene were detected above standards/guidelines in MW-102-05, MW-103-05, MW-105-08, and MW-107-08. The only other SVOCs detected above standards/guidelines were biphenyl (MW-102-05, MW-107-08) and phenol (MW-107-08). No exceedances of the standards/guidelines for VOCs or SVOCs were detected in the upgradient well MW-101-05 or in side-gradient well MW-104-05, located between the site and the residential yards on Academy Street. The only exceedances of the standard for Total Cyanide were detected in the upgradient well MW-101-05. A low (estimated) concentration of free cyanide (3J µg/L) was detected in the second round sample from this well.

We look forward to discussing the RI, including conclusions and recommendations for further investigation, with you at a meeting to be scheduled in the near future.

Very truly yours,

Brown and Caldwell Associates

Brown and Caldwell

A handwritten signature in black ink, appearing to read "Jeffrey R. Caputi". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Jeffrey R. Caputi, P.E., CHMM, QEP
Vice President

A handwritten signature in black ink, appearing to read "Frank J. Williams". The signature is cursive, with the first letters of the first and last names being capitalized and prominent.

Frank J. Williams, P.G.
Supervising Geologist, Geoservices

Enclosures

cc: B. Donovan, NYSDOH
E. Neuhauser, Ph.D., National Grid
R. O'Neill, Brown and Caldwell
J. Marolda, Brown and Caldwell

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TABLE 1
SUMMARY OF BACKGROUND INFORMATION FOR INVESTIGATORY SAMPLE LOCATIONS
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Location ID	Installation Date	Survey Coordinates		Ground Surface	Depth to	Base of Fill	Depth to	Glacial Till	Depth to	Bedrock	Screened Interval		Screened Interval		Total Depth	
		NY State Plane - NAD 83		Elevation ⁽¹⁾	Base of Fill	Elevation	Glacial Till	Elevation	Bedrock	Elevation	Top	Bottom	Top	Bottom	(ft., BGS)	(ft., NGVD)
		Northing	Easting	(ft., NGVD)	(ft., BGS)	(ft., NGVD)	(ft., BGS)	(ft., NGVD)	(ft., BGS)	(ft., NGVD)	(ft., BGS)	(ft., BGS)	(ft., NGVD)	(ft., NGVD)	(ft., BGS)	(ft., NGVD)
Soil Borings																
B-104-05	6/18/2005	1387603.4	695344.7	16.58	--	--	--	--	--	--	--	--	--	--	10.0	6.6
B-105-05	6/18/2005	1387561.7	695294.8	17.19	4.3	12.9	9.6	7.6	--	--	--	--	--	--	12.7	4.5
B-106-05	6/25/2005	1387593.0	695248.7	18.09	6.2	11.9	10.2	7.9	--	--	--	--	--	--	21.7	-3.6
B-107-08	11/22/2008	1387524.7	695296.9	16.76	2.9	13.9	8.4	8.4	22.5	-5.7	--	--	--	--	22.8	-6.0
B-108-08	11/22/2008	1387567.6	695321.8	16.69	8.0	8.7	10.2	6.5	23.0	-6.3	--	--	--	--	23.3	-6.6
B-109-08	11/20/2008	1387591.2	695436.4	15.83	10.3	5.5	--	--	19.0	-3.2	--	--	--	--	19.1	-3.3
B-110-08	11/18/2008	1387616.3	695360.6	16.31	4.0	12.3	16.4	-0.1	24.2	-7.9	--	--	--	--	24.3	-8.0
B-111-08	11/17/2008	1387683.1	695313.0	17.26	4.0	13.3	16.5	0.8	24.3	-7.0	--	--	--	--	25.3	-8.0
B-112-08	11/25/2008	1387532.3	695337.5	16.14	2.0	14.1	8.9	7.2	--	--	--	--	--	--	19.1	-3.0
SOIL-1-08	12/3/2008	1387880.4	695670.1	12.60	--	--	--	--	--	--	--	--	--	--	3.5	9.1
SOIL-2-08	12/3/2008	1387757.8	695441.6	7.12	--	--	--	--	--	--	--	--	--	--	4.0	3.1
SOIL-3-08	12/3/2008	1387756.5	695385.1	7.37	--	--	--	--	--	--	--	--	--	--	3.5	3.9
SOIL-4-08	12/3/2008	1387769.6	695330.5	7.52	--	--	--	--	--	--	--	--	--	--	3.5	4.0
SOIL-5-08	12/3/2008	1387702.9	695430.8	11.42	--	--	--	--	--	--	--	--	--	--	0.2	11.2
SOIL-6-08	12/3/2008	1387718.8	695384.3	9.10	--	--	--	--	--	--	--	--	--	--	0.2	8.9
SOIL-7-08	12/3/2008	1387703.5	695270.3	17.16	--	--	--	--	--	--	--	--	--	--	0.2	17.0
SOIL-8-08	12/3/2008	1387573.7	695174.0	17.94	--	--	--	--	--	--	--	--	--	--	0.2	17.7
SOIL-9-08	12/3/2008	1387471.0	695302.7	16.24	--	--	--	--	--	--	--	--	--	--	0.2	16.0
SOIL-10-08	12/3/2008	1387548.2	695421.5	16.17	--	--	--	--	--	--	--	--	--	--	0.2	16.0
Monitoring Wells																
MW-101-05	6/19/2005	1387532.5	695276.2	17.18	4.8	12.4	10.5	6.7	--	--	4.0	14.0	13.2	3.2	14.0	3.2
MW-102-05	6/18/2005	1387627.5	695359.9	16.24	6.0	10.2	20.7	-4.5	--	--	5.0	20.0	11.2	-3.8	22.0	-5.8
MW-103-05	6/19/2005	1387689.9	695306.1	17.47	5.0	12.5	19.0	-1.5	--	--	5.0	20.0	12.5	-2.5	21.5	-4.0
MW-104-08	12/2/2008	1387667.3	695247.1	17.39	5.1	12.3	11.0	6.4	25.1	-7.7	6.0	16.0	11.4	1.4	25.1	-7.7
MW-105-08	11/24/2008	1387726.8	695325.3	16.34	4.2	12.1	NE	--	22.5	-6.2	8.0	16.0	8.3	0.3	22.8	-6.5
MW-106S-08	11/19/2008	1387675.3	695391.1	16.45	10.3	6.2	18.9	-2.5	25.6	-9.2	8.0	18.0	8.5	-1.6	25.6	-9.2
MW-106D-08	11/21/2008	1387664.0	695391.2	16.19	10.2	6.0	20.0	-3.8	--	--	19.0	24.0	-2.8	-7.8	25.4	-9.2
MW-107-08	12/3/2008	1387569.2	695374.9	15.78	2.0	13.8	15.0	0.8	20.3	-4.5	5.0	15.0	10.8	0.8	20.3	-4.5

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		NY State Plane - NAD 83		Elevation ⁽¹⁾	Base of Fill	Elevation	Glacial Till	Elevation	Bedrock	Elevation	Top	Bottom	Top	Bottom	(ft., BGS)	(ft., NGVD)
		Northing	Easting	(ft., NGVD)	(ft., BGS)	(ft., NGVD)	(ft., BGS)	(ft., NGVD)	(ft., BGS)	(ft., NGVD)	(ft., BGS)	(ft., BGS)	(ft., NGVD)	(ft., NGVD)	(ft., BGS)	(ft., NGVD)
Test Pits																
TP-101-05	6/11/2005	1387611.4	695350.5	16.55	--	--	--	--	--	--	--	--	--	--	7.8	8.8
TP-102-05	6/11/2005	1387555.4	695299.7	16.83	4.2	12.6	--	--	--	--	--	--	--	--	7.1	9.7
TP-103-05	6/12/2005	1387663.7	695291.9	17.67	4.9	12.8	10.4	7.3	--	--	--	--	--	--	10.4	7.3
TP-104-05	6/11/2005	1387533.9	695327.5	16.27	3.3	13.0	--	--	--	--	--	--	--	--	9.3	7.0
TP-105-08	11/22/2008	1387680.3	695296.0	17.46	--	--	--	--	--	--	--	--	--	--	10.0	7.5
Sediment Samples																
SED-1-08	12/9/2008	1387858.8	695654.7	3.31	--	--	--	--	--	--	--	--	--	--	0.5	2.81
SED-2-08	12/3/2008	1387783.0	695413.1	6.23	--	--	--	--	--	--	--	--	--	--	0.5	5.73
SED-3-08	12/3/2008	1387776.6	695356.6	6.74	--	--	--	--	--	--	--	--	--	--	0.5	6.24

Notes:

(1) - For monitoring wells, value presented reflects ground surface elevation at time of installation

-- Data not available or not applicable

NGVD - National Geodetic Vertical Datum

BGS - Below Ground Surface

NE - Not encountered

TABLE 2
GROUNDWATER ELEVATIONS AND NAPL MONITORING DATA
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Well ID	Top of Casing Elevation (ft., NGVD)	Screened Interval (ft., BGS)	12/19/2008			Comments	4/27/2009			Comments
			Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to NAPL (ft., BTOC)		Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to NAPL (ft., BTOC)	
MW-101-05	16.99	4-14	5.47	11.52	ND ⁽¹⁾	Moderate tar-like odor	6.06	10.93	ND	
MW-102-05	15.96	5-20	6.72	9.24	ND ⁽²⁾	NAPL on bottom of probe, strong tar-like odor	7.03	8.93	ND ⁽³⁾	Moderate tar-like odor
MW-103-05	17.19	5-20	8.19	9.00	ND	Moderate tar-like odor	8.73	8.46	ND	Slight tar-like odor
MW-104-08	17.14	6-16	6.51	10.63	ND	Slight musty odor	7.68	9.46	ND	
MW-105-08	19.10	8-16	11.23	7.87	ND		11.75	7.35	ND	Slight tar-like odor
MW-106S-08	19.10	8-18	10.78	8.32	ND ⁽⁴⁾	Very strong tar-like odor. DNAPL and LNAPL observed within evacuated water during NAPL gauging activities	11.15	7.95	ND ⁽²⁾	Strong tar-like odor. Black-red NAPL coating along tape and probe
MW-106D-08	18.98	19-24	10.32	8.66	ND ⁽²⁾	NAPL on probe, moderate tar-like odor	10.77	8.21	ND ⁽²⁾	Strong tar-like odor. Black-red NAPL coating along tape and probe
MW-107-08	15.30	5-15	5.04	10.26	ND ⁽³⁾	Slight to moderate tar-like odor.	5.38	9.92	ND	Moderate tar-like odor

Notes:
 NGVD - National Geodetic Vertical Datum
 BGS - Below Ground Surface
 BTOC - Below Top of Casing
 ND - Not detected with oil/water interface probe
 (1) - Skim layer of NAPL detected on surface of water. Thickness of layer was not measureable.
 (2) - NAPL was not detected with oil/water interface probe, however, upon removal of the probe, a NAPL bleb with a tar-like odor was observed on the end of the probe.
 (3) - Specks of sheen and/or NAPL blebs were observed on surface of purge water during groundwater sampling efforts.
 (4) - NAPL/tar coating on oil/water interface probe prevented accurate water level and NAPL thickness measurements.

TABLE 3
SUMMARY OF IN-SITU HYDRAULIC CONDUCTIVITY TEST RESULTS
REMEDIAL INVESTIGATION
RENSELAER NON-OWNED FORMER MGP SITE
RENSELAER, NEW YORK

Location ID	Screened Interval (ft., BGS)	Formation(s) Screened ^(1,2)	Saturated Formation(s) Adjacent to Screen at Time of Slug Test ^(2,3)	Test Date	Hydraulic Conductivity (cm/sec)
MW-101-05	4-14	Fill(0.8)/Silt and Clay(5.7)/Glacial Till(3.5)	Silt and Clay/Glacial Till	4/29/2009	3.1E-05
MW-102-05	5-20	Fill(1)/Silt and Clay(19)	Silt and Clay	4/28/2009	7.7E-05
MW-103-05	5-20	Silt and Clay(14)/Glacial Till(1)	Silt and Clay/Glacial Till	4/28/2009	9.2E-05
MW-104-08	6-16	Sand and Silt(5)/Glacial Till(5)	Sand and Silt/Glacial Till	4/29/2009	2.3E-05
MW-105-08	8-16	Sand and Silt(10)	Sand and Silt	4/28/2009	2.5E-04
MW-106S-08	8-18	Fill(2.3)/Silt and Sand(7.7)	Fill/Silt and Sand	4/29/2009	4.4E-04
MW-106D-08	19-24	Glacial Till(5)	Glacial Till	4/29/2009	1.9E-04
MW-107-08	5-15	Silt and Sand(10)	Silt and Sand(10)	4/29/2009	1.9E-04
Geometric Mean					1.1E-04

Notes:

BGS - Below Ground Surface

cm/sec - centimeters per second

(1) - Formation(s) adjacent to screened interval. Value presented in parentheses indicates length of screen in feet adjacent to listed formation(s).

(2) - Silt and Clay units contain some sand and gravel-rich layers.

(3) - Based on depth to water data collected prior to initiation of slug test, formation(s) listed indicates which formation(s) the slug test is representative of.

TABLE 4
SUMMARY OF VISUAL/OLFACTORY FIELD OBSERVATIONS IN SOIL FROM SC AND RI ACTIVITIES
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Location	Depth (ft., BGS)	Description
SOIL BORINGS		
B-104-05	4-6	Tar-like odor.
	6-8	Strong tar-like odor.
	8-10	Saturated with water and tar, strong tar-like odor, sheen observed on soils.
B-105-05	4.3-4.5	Strong tar-like odor.
B-106-05	6.2-8	Tar-like odor, very faint sheen .
	8-10.2	Tar-like odor, pockets of sheen.
	10.2-10.3	Pockets of brown tar.
	10.3-12	Tar-like odor, pockets of sheen.
	12-15	Faint tar-like odor.
B-107-08		No observations or odor indicative of MGP-related materials.
B-108-08	4.4	Strong tar-like odor.
	6.4	Strong fuel-like odor.
	8.3	Strong fuel-like odor in gravel zone.
	8.7	Moderate hydrocarbon odor.
B-109-08	14-16	Sheen observed on outside of spoon, but not within soils when broken apart. Slight tar-like odor.
B-110-08	8.2	Slight sheen observed on soils.
	13	Partially saturated with NAPL/tar in gravelly zone.
	14-14.9	Sheen observed throughout, NAPL/tar on outside of spoon.
	16.4	Gravel seam coated with NAPL.
	16.9	Moderate tar-like odor.
	18	Strong tar-like odor.
	19	Sheen observed on soil.
B-111-08	8.5	Slight fuel-like odor.
	10	Slight fuel-like odor.
	13.5	NAPL coating on gravel grains, moderate tar-like odor throughout.
	14.2	NAPL coating coarser sand grains.
	15.2	NAPL coating coarser sand grains.
	16.7	Sheen observed on soils.
	17	Sheen observed on soils, slight tar-like odor.
	18.7	NAPL blebs on coarser material.
B-112-08	8-12	Strong hydrocarbon odor.

TABLE 4
SUMMARY OF VISUAL/OLFACTORY FIELD OBSERVATIONS IN SOIL FROM SC AND RI ACTIVITIES
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Location	Depth (ft., BGS)	Description
SOIL BORINGS AT MONITORING WELL LOCATIONS		
MW-101-05		No observations or odor indicative of MGP-related materials.
MW-102-05	3.8-4	Tar-like odor
	8-10	Blebs of light-colored NAPL, petroleum-like odor. Few blebs of tar around gravel, intermittent sheen.
	10-12	Blebs of brown-red tar, strong tar-like odor.
	12-13.5	Tar around gravel
	14-18	Occasional tar on gravel, moderate sheen, strong tar-like odor.
	18-20	Frequent brown-red tar throughout, heavy sheen, very strong tar-like odor.
	21.4	String of tar.
MW-103-05	12-14	Tar coats gravel in veins throughout soil, strong tar-like odor
	14-19	Saturated with water and tar, strong tar-like odor, sheen observed on soils.
	19-20	Occasional tar near gravel, tar-like odor, sheen.
	20-21.5	Sheen observed on outside of soils, but not within soils when broken apart.
MW-104-08	9-11	Slight hydrocarbon odor.
	13-15	Sheen observed on outside of spoon.
MW-105-08	10.9-11.3	Sheen observed on soils.
	11.1	Sporadic blebs of NAPL and sheen observed on coarse sand and gravel, moderate tar-like odor.
	15	Slight tar-like odor.
	20.4	Very slight hydrocarbon odor.
MW-106D-08	12.5	Slight tar-like and organic odor.
	14.6	Abundant sheen, red-black NAPL bleb.
	16	Moderate tar-like odor.
	18	Sheen on cobble.
	20	Moderate to strong tar-like odor.
	22	Sheen, tar-like odor.
	24	Abundant sheen with occasional red-brown NAPL blebs.
MW-106S-08	16-18	Sheen observed on soils and in water in spoon, tar-like odor.
	18.25	Sheen observed on soils, tar-like odor.
	20	Tar-like odor, very slight sheen.
	22.9-25.6	Coarse grains soils partially saturated with NAPL, tar-like odor.
	24	Partially saturated with NAPL, NAPL blebs on outside of spoon.
MW-107-08	5.2	Very slight hydrocarbon odor.
	7-9	Slight fuel-like odor.
	9-11	Abundant sheen observed on coarser grained soils, sparse blebs of black-red NAPL. Moderate tar-like odor.
	11-13	Strong fuel-like/hydrocarbon odor, occasional slight sheen.
	13-15	Slight hydrocarbon odor.

TABLE 4
SUMMARY OF VISUAL/OLFACTORY FIELD OBSERVATIONS IN SOIL FROM SC AND RI ACTIVITIES
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Location	Depth (ft., BGS)	Description
TEST PITS		
TP-101-05	4.1-7.8	Petroleum-like odor.
TP-102-05	2.4-4.2	Strong tar-like odor and sheen.
	7-7.1	NAPL blebs.
TP-103-05	2.8-4.9	Slight sulfur-like odor, potential purifier waste material.
	10.4	NAPL blebs.
TP-104-05	7-8.4	NAPL blebs.
	8.4	NAPL seep.
	8.4-9.3	NAPL blebs.
TP-105-08	5-10	Viscous black NAPL/tar, strong tar-like odor.

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]															
Constituent	Protection of Public Health - Residential Zoning ^(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SOIL-1 12/3/2008	SOIL-2 12/3/2008	SOIL-3 12/3/2008	SOIL-4 12/3/2008	SOIL-5 12/3/2008	SOIL-6 12/3/2008	SOIL-7 12/3/2008	SOIL-8 12/3/2008	SOIL-8 DUP 12/3/2008	SOIL-9 12/3/2008	SOIL-10 12/3/2008
Semi-volatile Organic Compounds (SVOCs)															
Polycyclic Aromatic Hydrocarbons (PAHs)															
Acenaphthene	100	20	98	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.053 J	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.13 J
Acenaphthylene	100	NE	107	mg/kg	0.38 U	0.57 U	0.57 U	0.22 J	0.24 J	0.98	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
Anthracene	100	NE	1000	mg/kg	0.043 J	0.13 J	0.066 J	0.25 J	0.56	0.36 J	8.9 U	0.21 J	2.2 U	1.1 U	0.4 J
Benzo(a)anthracene	1	NE	1	mg/kg	0.11 J	0.43 J	0.29 J	0.95	2	0.77 J	2.8 J	0.46 J	0.34 J	0.21 J	0.71
Benzo(a)pyrene	1	2.6	22	mg/kg	0.11 J	0.5 J	0.34 J	1	2	2.3	3.2 J	0.47 J	0.38 J	0.24 J	0.69
Benzo(b)fluoranthene	1	NE	1.7	mg/kg	0.099 J	0.55 J	0.43 J	1.2	1.7	1.6	3.1 J	0.47 J	0.42 J	0.26 J	0.58
Benzo(g,h,i)perylene	100	NE	1000	mg/kg	0.094 J	0.45 J	0.36 J	0.89	1.2	2.6	3.1 J	0.48 J	0.43 J	0.23 J	0.52
Benzo(k)fluoranthene	1	NE	1.7	mg/kg	0.1 J	0.52 J	0.33 J	1.1	1.7	1.1	3.2 J	0.48 J	0.35 J	0.21 J	0.6
Chrysene	1	NE	1	mg/kg	0.11 J	0.58	0.41 J	1.2	2	1.1	3.5 J	0.51 J	0.4 J	0.26 J	0.75
Dibenzo(a,h)anthracene	0.33	NE	1000	mg/kg	0.38 U	0.1 J	0.081 J	0.25 J	0.42 J	0.43 J	8.9 U	1.3 U	2.2 U	1.1 U	0.17 J
Fluoranthene	100	NE	1000	mg/kg	0.23 J	1.3	0.97	2	4.5	1.2	8 J	1.3 J	0.75 J	0.59 J	1.9
Fluorene	100	30	386	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.086 J	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.14 J
Indeno(1,2,3-cd)pyrene	0.5	NE	8.2	mg/kg	0.074 J	0.4 J	0.31 J	0.78	1.2	1.7	2.4 J	0.38 J	0.32 J	0.19 J	0.46 J
Naphthalene	100	NE	12	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.13 J	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.049 J
Phenanthrene	100	NE	1000	mg/kg	0.16 J	0.52 J	0.38 J	0.38 J	1.4	0.38 J	2.4 J	0.99 J	0.39 J	0.43 J	1.4
Pyrene	100	NE	1000	mg/kg	0.19 J	0.72	0.55 J	1.8	2.8	1.4	5.1 J	0.78 J	0.54 J	0.35 J	1.1
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.073 J	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.069 J
Total PAHs	NE	NE	NE	mg/kg	1.3	6.2	4.5	12	22	16	37	6.5	4.3	3.0	9.7
Other Semi-VOCs															
Biphenyl	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	2 U	2.9 U	2.9 U	2.6 U	2.4 U	4.8 U	46 U	6.8 U	11 U	5.5 U	2.4 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2-Methylphenol	100	NE	0.33	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
2-Nitroaniline	NE	NE	NE	mg/kg	2 U	2.9 U	2.9 U	2.6 U	2.4 U	4.8 U	46 U	6.8 U	11 U	5.5 U	2.4 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U
3-Nitroaniline	NE	NE	NE	mg/kg	2 U	2.9 U	2.9 U	2.6 U	2.4 U	4.8 U	46 U	6.8 U	11 U	5.5 U	2.4 U

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]																
Constituent	Protection of Public Health -			Units	SOIL-1 12/3/2008	SOIL-2 12/3/2008	SOIL-3 12/3/2008	SOIL-4 12/3/2008	SOIL-5 12/3/2008	SOIL-6 12/3/2008	SOIL-7 12/3/2008	SOIL-8 12/3/2008	SOIL-8 DUP 12/3/2008	SOIL-9 12/3/2008	SOIL-10 12/3/2008	
	Residential	Ecological	Protection of													
	Zoning ^(a)	Resources	Groundwater													
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	2 U	2.9 U	2.9 U	2.6 U	2.4 U	4.8 U	46 U	6.8 U	11 U	5.5 U	2.4 U	
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
4-Chloroaniline	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
4-Nitroaniline	NE	NE	NE	mg/kg	2 U	2.9 U	2.9 U	2.6 U	2.4 U	4.8 U	46 U	6.8 U	11 U	5.5 U	2.4 U	
4-Methylphenol	34	NE	0.33	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
4-Nitrophenol	NE	NE	NE	mg/kg	2 U	2.9 U	2.9 U	2.6 U	2.4 U	4.8 U	46 U	6.8 U	11 U	5.5 U	2.4 U	
Acetophenone	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Atrazine	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Benzaldehyde	NE	NE	NE	mg/kg	0.38 UJ	0.57 UJ	0.57 UJ	0.51 UJ	0.46 UJ	0.94 UJ	8.9 UJ	1.3 UJ	2.2 UJ	1.1 UJ	0.47 UJ	
Bis(1-chloroisopropyl) Ether	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
bis(2-Chloroethoxy) Methane	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.38 U	0.15 J	0.098 J	0.071 J	0.086 J	0.94 U	8.9 U	1.3 U	2.2 U	0.15 J	0.23 J	
Caprolactam	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Carbazole	NE	NE	NE	mg/kg	0.38 U	0.074 J	0.57 U	0.063 J	0.089 J	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.16 J	
Dibenzofuran	14	NE	210	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.053 J	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.088 J	
Benzyl Butyl Phthalate	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Diethylphthalate	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Dimethyl phthalate	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Di-n-butylphthalate	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 UJ	0.94 U	8.9 U	1.3 UJ	2.2 UJ	1.1 U	0.47 U	
Di-n-octyl phthalate	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Hexachlorobenzene	0.33	NE	3.2	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Hexachloroethane	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Isophorone	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Nitrobenzene	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	
Pentachlorophenol	2.4	0.8	0.8	mg/kg	2 U	2.9 U	2.9 U	2.6 U	2.4 U	4.8 U	46 U	6.8 U	11 U	5.5 U	2.4 U	
Phenol	100	30	0.33	mg/kg	0.38 U	0.57 U	0.57 U	0.51 U	0.46 U	0.94 U	8.9 U	1.3 U	2.2 U	1.1 U	0.47 U	

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]															
Constituent	Protection of Public Health - Residential Zoning ^(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SOIL-1 12/3/2008	SOIL-2 12/3/2008	SOIL-3 12/3/2008	SOIL-4 12/3/2008	SOIL-5 12/3/2008	SOIL-6 12/3/2008	SOIL-7 12/3/2008	SOIL-8 12/3/2008	SOIL-8 DUP 12/3/2008	SOIL-9 12/3/2008	SOIL-10 12/3/2008
Inorganic Constituents															
Total Cyanide	27	NE	40	mg/kg	1.16 U	1.72 U	1.72 U	1.54 U	1.39 U	1.42 U	1.35 U	1.34 U	1.34 U	1.08 U	1.44 U
Cyanide, Free	NE	NE	NE	mg/kg	0.0072 U	0.01 UJ	0.011 UJ	0.0095 UJ	0.0087 UJ	0.0086 UJ	0.0074 UJ	0.017 J	0.016 J	0.0066 UJ	0.014 J

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, based on data validation, the reported method detection limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.

NE - Not established.

NA - Not analyzed.

ND - Not detected.

(a) - R-3 Zoning Classification (multi-family residential) per City of Rensselaer Planning and Building Department.

Boxed concentrations are above one or more of the following New York State Subpart 375 Soil Cleanup Objectives for: Residential Zoning, Protection of Ecological Resources, or Protection of Groundwater.

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of					B-107	B-107 DUP	B-108	B-108	B-109	B-109	B-110	B-110	B-110
	Public Health -	Protection of			10-12	10-12	8-10	19-21	10-12	16-18	8-10	12-14	18-20
Constituent	Residential	Ecological	Protection of	Units	11/22/2008	11/22/2008	11/22/2008	11/22/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/18/2008
	Zoning ^(a)	Resources	Groundwater										
Volatile Organic Compounds (VOCs)													
BTEX													
Benzene	2.9	70	0.06	mg/kg	0.0058	0.0038 J	3.5 U	0.028 J	0.017	0.0053 J	0.17 J	61	11
Toluene	100	36	0.7	mg/kg	0.0057 UJ	0.0056 UJ	3.5 UJ	0.0054 UJ	0.0063 J	0.0018 J	0.75 J	550	26
Ethylbenzene	30	NE	1	mg/kg	0.00042 J	0.0056 U	23	0.002 J	0.0049 J	0.0034 J	22	530	19
o-Xylene	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	7.8	0.00068 J	0.0035 J	0.0019 J	6.7	180	9.5
m&p-Xylenes	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	9.8	0.0054 UJ	0.0042 J	0.0015 J	16	400	20
Xylenes, Total	100	0.26	1.6	mg/kg	ND	ND	18	0.00068	0.0035	0.0034	22.7	580	29.5
Total BTEX	NE	NE	NE	mg/kg	0.0062	0.0038	41	0.031	0.036	0.014	46	1721	86
Other VOCs													
1,1,1-Trichloroethane	100	NE	0.68	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 R	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,1-Dichloroethane	19	NE	0.27	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,1-Dichloroethene	100	NE	0.33	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 R	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,2-Dibromo-3-chloropropane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 R	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,2-Dibromoethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,2-Dichlorobenzene	100	NE	1.1	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 R	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,2-Dichloroethane	2.3	10	0.02	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,3-Dichlorobenzene	17	NE	2.4	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 R	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
1,4-Dichlorobenzene	9.8	20	1.8	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 R	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
2-Butanone (MEK)	100	100	0.12	mg/kg	0.011 U	0.011 U	7 U	0.011 UJ	0.018	0.002 J	2.8 U	29 U	2.7 U
2-Hexanone	NE	NE	NE	mg/kg	0.011 U	0.011 U	7 U	0.011 UJ	0.014 U	0.011 U	2.8 U	29 U	2.7 U
4-Methyl-2-pentanone	NE	NE	NE	mg/kg	0.011 U	0.011 U	7 U	0.011 UJ	0.014 U	0.011 U	2.8 U	29 U	2.7 U
Acetone	100	2.2	0.05	mg/kg	0.023 UJ	0.022 UJ	14 U	0.022 UJ	0.067	0.01 UJ	5.7 U	57 U	5.5 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of			Units	B-107	B-107 DUP	B-108	B-108	B-109	B-109	B-110	B-110	B-110
	Public Health -	Protection of	Protection of		10-12	10-12	8-10	19-21	10-12	16-18	8-10	12-14	18-20
	Residential	Ecological			10-12	10-12	8-10	19-21	10-12	16-18	8-10	12-14	18-20
	Zoning ^(a)	Resources			Groundwater	11/22/2008	11/22/2008	11/22/2008	11/22/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008
Bromodichloromethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Bromoform	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Bromomethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Carbon tetrachloride	1.4	NE	0.76	mg/kg	0.0057 UJ	0.0056 UJ	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Carbon disulfide	NE	NE	NE	mg/kg	0.011 U	0.011 U	7 U	0.003 J	0.0015 J	0.00047 J	2.8 U	29 U	2.7 U
Chlorobenzene	100	40	1.1	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Chloroethane	NE	NE	NE	mg/kg	0.011 U	0.011 U	7 U	0.011 UJ	0.014 U	0.011 U	2.8 U	29 U	2.7 U
Chloroform	10	12	0.37	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Chloromethane	NE	NE	NE	mg/kg	0.0057 UJ	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Cyclohexane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0005 J	0.00058 J	0.0056 U	8.3	14 U	1.4 U
cis-1,2-Dichloroethene	59	NE	0.25	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Dichlorodifluoromethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Isopropylbenzene	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	2.5 J	0.0054 U	0.0012 J	0.0017 J	0.87 J	37	0.93 J
Methyl acetate	NE	NE	NE	mg/kg	0.011 U	0.011 U	7 U	0.011 UJ	0.014 U	0.011 U	2.8 U	29 U	2.7 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.00089 J	0.0056 U	10	14 U	1.4 U
Methylene chloride	51	12	0.05	mg/kg	0.0057 UJ	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
tert-Butyl Methyl Ether	62	NE	0.93	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Styrene	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Tetrachloroethene	5.5	2	1.3	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
trans-1,2-Dichloroethene	100	NE	0.19	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Trichloroethene	10	2	0.47	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 U	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Trichlorofluoromethane	NE	NE	NE	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0013 J	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U
Vinyl chloride	0.21	NE	0.02	mg/kg	0.0057 U	0.0056 U	3.5 U	0.0054 UJ	0.0069 U	0.0056 U	1.4 U	14 U	1.4 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of					B-107	B-107 DUP	B-108	B-108	B-109	B-109	B-110	B-110	B-110
Public Health -	Protection of				10-12	10-12	8-10	19-21	10-12	16-18	8-10	12-14	18-20
Residential	Ecological	Protection of											
Zoning ^(a)	Resources	Groundwater	Units		11/22/2008	11/22/2008	11/22/2008	11/22/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/18/2008
Constituent													
Semi-volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs) - Standard Analysis List													
Acenaphthene	100	20	98	mg/kg	0.37 U	0.37 U	9.1	0.36 U	0.46 U	0.11 J	14 J	36 J	6.1 J
Acenaphthylene	100	NE	107	mg/kg	0.37 U	0.37 U	1.1 J	0.36 U	0.46 U	0.085 J	4.9 J	34 J	6.2 J
Anthracene	100	NE	1000	mg/kg	0.37 U	0.37 U	4.7	0.36 U	0.081 J	0.37 U	10 J	41	7 J
Benzo(a)anthracene	1	NE	1	mg/kg	0.37 U	0.37 U	2.9 J	0.36 U	0.38 J	0.37 U	7.1 J	27 J	4.9 J
Benzo(a)pyrene	1	2.6	22	mg/kg	0.37 U	0.37 U	2.7 J	0.36 U	0.49	0.37 U	6.5 J	22 J	4 J
Benzo(b)fluoranthene	1	NE	1.7	mg/kg	0.37 U	0.37 U	1.1 J	0.36 U	0.4 J	0.37 U	2.8 J	10 J	2.1 J
Benzo(g,h,i)perylene	100	NE	1000	mg/kg	0.37 U	0.37 U	1.4 J	0.36 U	0.33 J	0.37 U	19 U	10 J	2.1 J
Benzo(k)fluoranthene	1	NE	1.7	mg/kg	0.37 U	0.37 U	1.4 J	0.36 U	0.4 J	0.37 U	3.6 J	11 J	2 J
Chrysene	1	NE	1	mg/kg	0.37 U	0.37 U	2.8 J	0.36 U	0.36 J	0.37 U	6.6 J	26 J	4.5 J
Dibenzo(a,h)anthracene	0.33	NE	1000	mg/kg	0.37 U	0.37 U	0.37 J	0.36 U	0.11 J	0.37 U	19 U	38 U	7.2 U
Fluoranthene	100	NE	1000	mg/kg	0.37 U	0.37 U	6.4	0.36 U	0.36 J	0.37 U	14 J	50	9.1
Fluorene	100	30	386	mg/kg	0.37 U	0.37 U	4	0.36 U	0.46 U	0.37 U	7.1 J	37 J	6.2 J
Indeno(1,2,3-cd)pyrene	0.5	NE	8.2	mg/kg	0.37 U	0.37 U	0.99 J	0.36 U	0.31 J	0.37 U	19 U	7.1 J	1.4 J
Naphthalene	100	NE	12	mg/kg	0.18 J	0.37 U	56	0.11 J	0.14 J	0.29 J	130	600	86
Phenanthrene	100	NE	1000	mg/kg	0.37 U	0.37 U	19	0.36 U	0.22 J	0.37 U	38	150	27
Pyrene	100	NE	1000	mg/kg	0.37 U	0.37 U	8.2	0.36 U	0.42 J	0.37 U	21	82	14
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.37 U	0.37 U	12	0.36 U	0.053 J	0.37 U	39	180	31
Total PAHs	NE	NE	NE	mg/kg	0.18	ND	134	0.11	4.1	0.49	291	1323	214
PAHs - Expanded Analysis List													
Biphenyl	NE	NE	NE	mg/kg	0.37 U	0.37 U	2.9 J	0.36 U	0.46 U	0.37 U	5.4 J	25 J	4.3 J
Dibenzofuran	14	NE	210	mg/kg	0.37 U	0.37 U	0.58 J	0.36 U	0.46 U	0.37 U	19 U	4.5 J	0.85 J
1-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[e]pyrene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Fluoranthenes/Pyrenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of					B-107	B-107 DUP	B-108	B-108	B-109	B-109	B-110	B-110	B-110
	Public Health -	Protection of			10-12	10-12	8-10	19-21	10-12	16-18	8-10	12-14	18-20
Constituent	Residential	Ecological	Protection of	Units	11/22/2008	11/22/2008	11/22/2008	11/22/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/18/2008
	Zoning ^(a)	Resources	Groundwater										
C1-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene (SYNFUEL)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perylene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other SVOCs													
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	1.9 U	1.9 U	19 U	1.8 U	2.4 U	1.9 U	100 U	190 U	37 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2-Methylphenol	100	NE	0.33	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
2-Nitroaniline	NE	NE	NE	mg/kg	1.9 U	1.9 U	19 U	1.8 U	2.4 U	1.9 U	100 U	190 U	37 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U



TABLE 6
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REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of			Units	B-107	B-107 DUP	B-108	B-108	B-109	B-109	B-110	B-110	B-110
	Public Health -	Protection of	Protection of		10-12	10-12	8-10	19-21	10-12	16-18	8-10	12-14	18-20
	Residential Zoning ^(a)	Ecological Resources	Groundwater		11/22/2008	11/22/2008	11/22/2008	11/22/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/18/2008
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
3-Nitroaniline	NE	NE	NE	mg/kg	1.9 U	1.9 U	19 U	1.8 U	2.4 U	1.9 U	100 U	190 U	37 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	1.9 U	1.9 U	19 U	1.8 U	2.4 U	1.9 U	100 U	190 U	37 U
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
4-Nitroaniline	NE	NE	NE	mg/kg	1.9 U	1.9 U	19 U	1.8 U	2.4 U	1.9 U	100 U	190 U	37 U
4-Methylphenol	34	NE	0.33	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
4-Nitrophenol	NE	NE	NE	mg/kg	1.9 U	1.9 U	19 U	1.8 U	2.4 U	1.9 U	100 U	190 U	37 U
Acetophenone	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Atrazine	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Benzaldehyde	NE	NE	NE	mg/kg	0.37 UJ	0.37 UJ	3.7 UJ	0.36 UJ	0.46 U	0.37 U	19 U	38 U	7.2 U
Bis(1-chloroisopropyl) Ether	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
bis(2-Chloroethoxy) Methane	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Caprolactam	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Carbazole	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Benzyl Butyl Phthalate	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Diethylphthalate	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Di-n-butylphthalate	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 UJ	0.46 U	0.37 U	19 U	38 U	7.2 U
Di-n-octyl phthalate	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Hexachlorobenzene	0.33	NE	3.2	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Hexachloroethane	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Isophorone	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of			Units	B-107	B-107 DUP	B-108	B-108	B-109	B-109	B-110	B-110	B-110
	Public Health -	Protection of	Protection of		10-12	10-12	8-10	19-21	10-12	16-18	8-10	12-14	18-20
	Residential Zoning ^(a)	Ecological Resources	Groundwater		11/22/2008	11/22/2008	11/22/2008	11/22/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/18/2008
Nitrobenzene	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Pentachlorophenol	2.4	0.8	0.8	mg/kg	1.9 U	1.9 U	19 U	1.8 U	2.4 U	1.9 U	100 U	190 U	37 U
Phenol	100	30	0.33	mg/kg	0.37 U	0.37 U	3.7 U	0.36 U	0.46 U	0.37 U	19 U	38 U	7.2 U
Inorganic Constituents													
Total Cyanide	27	NE	40	mg/kg	1.13 U	1.12 U	1.11 U	1.09 U	1.68	1.12 U	1.14 U	1.15 U	1.09 U
Cyanide, Free	NE	NE	NE	mg/kg	0.013 J	0.014 J	0.014 J	0.019 J	0.017 J	0.0068 UJ	0.007 UJ	0.014 J	0.0067 UJ

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of					B-111	B-111	B-112	B-112	MW-104	MW-104	MW-104 DUP	MW-105	MW-105
	Public Health -	Protection of			14-16	22-24	8-10	15-17	5-7	17-19	17-19	10-12	22-24
Constituent	Residential	Ecological	Protection of	Units	11/17/2008	11/17/2008	11/25/2008	11/25/2008	12/1/2008	12/1/2008	12/1/2008	11/24/2008	11/24/2008
	Zoning ^(a)	Resources	Groundwater										
Volatile Organic Compounds (VOCs)													
BTEX													
Benzene	2.9	70	0.06	mg/kg	3 U	0.022 J	0.11	0.0021 J	0.0063 U	0.0052 U	0.0011 J	0.73 U	0.016
Toluene	100	36	0.7	mg/kg	3 U	0.0076 J	0.028 UJ	0.0053 R	0.0063 U	0.0052 U	0.0033 J	0.73 U	0.0054 UJ
Ethylbenzene	30	NE	1	mg/kg	9.4	0.00056 J	1.1	0.00077 J	0.0063 U	0.0052 U	0.0055 R	0.061 J	0.03
o-Xylene	NE	NE	NE	mg/kg	3.8	0.0055 UJ	0.24	0.0053 R	0.0013 J	0.0052 U	0.0055 R	0.072 J	0.02
m&p-Xylenes	NE	NE	NE	mg/kg	3.2	0.0055 UJ	0.053	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0078
Xylenes, Total	100	0.26	1.6	mg/kg	7.0	ND	0.29	0.011 R	0.0013	ND	0.011 R	0.072	0.028
Total BTEX	NE	NE	NE	mg/kg	16	0.030	1.5	0.0029	0.0013	ND	0.0044	0.13	0.074
Other VOCs													
1,1,1-Trichloroethane	100	NE	0.68	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	3 U	0.0055 R	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0053 U	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,1-Dichloroethane	19	NE	0.27	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,1-Dichloroethene	100	NE	0.33	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	3 U	0.0055 R	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,2-Dibromo-3-chloropropane	NE	NE	NE	mg/kg	3 U	0.0055 R	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,2-Dibromoethane	NE	NE	NE	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,2-Dichlorobenzene	100	NE	1.1	mg/kg	3 U	0.0055 R	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,2-Dichloroethane	2.3	10	0.02	mg/kg	3 U	0.0055 U	0.028 U	0.0053 UJ	0.0063 U	0.0052 U	0.0055 UJ	0.73 U	0.0054 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0053 UJ	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,3-Dichlorobenzene	17	NE	2.4	mg/kg	3 U	0.0055 R	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
1,4-Dichlorobenzene	9.8	20	1.8	mg/kg	3 U	0.0055 R	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
2-Butanone (MEK)	100	100	0.12	mg/kg	6 U	0.0013 J	0.056 U	0.011 R	0.0015 J	0.01 U	0.011 R	1.5 U	0.011 U
2-Hexanone	NE	NE	NE	mg/kg	6 U	0.011 UJ	0.056 U	0.011 R	0.013 U	0.01 U	0.011 R	1.5 U	0.011 U
4-Methyl-2-pentanone	NE	NE	NE	mg/kg	6 U	0.011 UJ	0.056 U	0.011 R	0.013 U	0.01 U	0.011 R	1.5 U	0.011 U
Acetone	100	2.2	0.05	mg/kg	12 U	0.01 UJ	0.11 UJ	0.017 J	0.025 UJ	0.021 UJ	0.031 R	2.9 U	0.022 UJ

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of			Units	B-111	B-111	B-112	B-112	MW-104	MW-104	MW-104 DUP	MW-105	MW-105
	Public Health -	Protection of	Protection of		14-16	22-24	8-10	15-17	5-7	17-19	17-19	10-12	22-24
	Residential Zoning ^(a)	Ecological Resources	Groundwater		11/17/2008	11/17/2008	11/25/2008	11/25/2008	12/1/2008	12/1/2008	12/1/2008	11/24/2008	11/24/2008
Bromodichloromethane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0053 UJ	0.0063 U	0.0052 U	0.0055 UJ	0.73 U	0.0054 U
Bromoform	NE	NE	NE	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Bromomethane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Carbon tetrachloride	1.4	NE	0.76	mg/kg	3 U	0.0055 U	0.028 UJ	0.0053 UJ	0.0063 U	0.0052 U	0.0055 UJ	0.73 U	0.0054 U
Carbon disulfide	NE	NE	NE	mg/kg	6 U	0.0027 J	0.0031 J	0.0041 J	0.0008 J	0.01 U	0.0051 J	1.5 U	0.00048 J
Chlorobenzene	100	40	1.1	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Chloroethane	NE	NE	NE	mg/kg	6 U	0.011 U	0.056 U	0.011 R	0.013 U	0.01 U	0.011 R	1.5 U	0.011 U
Chloroform	10	12	0.37	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Chloromethane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Cyclohexane	NE	NE	NE	mg/kg	3 U	0.00034 J	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
cis-1,2-Dichloroethene	59	NE	0.25	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0053 UJ	0.0063 U	0.0052 U	0.0055 UJ	0.73 U	0.0054 U
Dibromochloromethane	NE	NE	NE	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Dichlorodifluoromethane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Isopropylbenzene	NE	NE	NE	mg/kg	2.3 J	0.0055 UJ	0.35	0.0053 UJ	0.0063 U	0.0052 U	0.0055 R	0.15 J	0.0027 J
Methyl acetate	NE	NE	NE	mg/kg	6 U	0.011 U	0.056 U	0.011 R	0.013 U	0.01 U	0.011 R	1.5 U	0.011 U
Methylcyclohexane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.016 J	0.0053 UJ	0.0063 U	0.0052 U	0.0055 UJ	0.73 U	0.0054 U
Methylene chloride	51	12	0.05	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 UJ
tert-Butyl Methyl Ether	62	NE	0.93	mg/kg	3 U	0.0055 U	0.028 U	0.0053 UJ	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Styrene	NE	NE	NE	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Tetrachloroethene	5.5	2	1.3	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
trans-1,2-Dichloroethene	100	NE	0.19	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	3 U	0.0055 UJ	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U
Trichloroethene	10	2	0.47	mg/kg	3 U	0.0055 U	0.028 U	0.0053 UJ	0.0063 U	0.0052 U	0.0055 UJ	0.73 U	0.0054 U
Trichlorofluoromethane	NE	NE	NE	mg/kg	3 U	0.0055 U	0.028 U	0.0015 J	0.0063 U	0.0052 U	0.0025 J	0.73 U	0.0054 U
Vinyl chloride	0.21	NE	0.02	mg/kg	3 U	0.0055 U	0.028 U	0.0053 R	0.0063 U	0.0052 U	0.0055 R	0.73 U	0.0054 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of				Units	B-111	B-111	B-112	B-112	MW-104	MW-104	MW-104 DUP	MW-105	MW-105
Public Health -	Protection of	Protection of	14-16		22-24	8-10	15-17	5-7	17-19	17-19	17-19	10-12	22-24
Residential	Ecological		11/17/2008		11/17/2008	11/25/2008	11/25/2008	12/1/2008	12/1/2008	12/1/2008	12/1/2008	11/24/2008	11/24/2008
Constituent	Zoning ^(a)	Resources	Groundwater										
Semi-volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs) - Standard Analysis List													
Acenaphthene	100	20	98	mg/kg	20	0.36 U	6.1	0.35 U	0.42 U	0.34 U	0.36 U	22	0.064 J
Acenaphthylene	100	NE	107	mg/kg	2.3 J	0.36 U	1.5 J	0.35 U	0.42 U	0.34 U	0.36 U	4.9	0.36 U
Anthracene	100	NE	1000	mg/kg	9.8	0.36 U	6.5	0.35 U	0.42 U	0.34 U	0.36 U	13	0.36 U
Benzo(a)anthracene	1	NE	1	mg/kg	5.6 J	0.36 U	4.3	0.35 U	0.42 U	0.34 U	0.36 U	7.7	0.36 U
Benzo(a)pyrene	1	2.6	22	mg/kg	3.9 J	0.36 U	3.9	0.35 U	0.42 U	0.34 U	0.36 U	9.5	0.36 U
Benzo(b)fluoranthene	1	NE	1.7	mg/kg	2 J	0.36 U	1.9 J	0.35 U	0.42 U	0.34 U	0.36 U	4.3	0.36 U
Benzo(g,h,i)perylene	100	NE	1000	mg/kg	1.7 J	0.36 U	2 J	0.35 U	0.42 U	0.34 U	0.36 U	5.2	0.36 U
Benzo(k)fluoranthene	1	NE	1.7	mg/kg	2.3 J	0.36 U	2.4 J	0.35 U	0.42 U	0.34 U	0.36 U	4.9	0.36 U
Chrysene	1	NE	1	mg/kg	5.2 J	0.36 U	4	0.35 U	0.42 U	0.34 U	0.36 U	7.9	0.36 U
Dibenzo(a,h)anthracene	0.33	NE	1000	mg/kg	5.9 U	0.36 U	0.47 J	0.35 U	0.42 U	0.34 U	0.36 U	1.2 J	0.36 U
Fluoranthene	100	NE	1000	mg/kg	11	0.36 U	9.2	0.35 U	0.42 U	0.34 U	0.36 U	16	0.36 U
Fluorene	100	30	386	mg/kg	9.1	0.36 U	4.3	0.35 U	0.42 U	0.34 U	0.36 U	9.3	0.36 U
Indeno(1,2,3-cd)pyrene	0.5	NE	8.2	mg/kg	1.2 J	0.36 U	1.6 J	0.35 U	0.42 U	0.34 U	0.36 U	3.5 J	0.36 U
Naphthalene	100	NE	12	mg/kg	52	0.069 J	39	0.056 J	0.42 U	0.34 U	0.36 U	3.8 U	0.63
Phenanthrene	100	NE	1000	mg/kg	36	0.05 J	25	0.35 U	0.42 U	0.34 U	0.36 U	49	0.36 U
Pyrene	100	NE	1000	mg/kg	17	0.36 U	11	0.35 U	0.42 U	0.34 U	0.36 U	20	0.36 U
2-Methylnaphthalene	NE	NE	NE	mg/kg	29	0.36 U	17	0.35 U	0.42 U	0.34 U	0.36 U	0.73 J	0.36 U
Total PAHs	NE	NE	NE	mg/kg	208	0.12	140	0.056	ND	ND	ND	179	0.69
PAHs - Expanded Analysis List													
Biphenyl	NE	NE	NE	mg/kg	4.3 J	0.36 U	2.6 J	0.35 U	0.42 U	0.34 U	0.36 U	5.6	0.36 U
Dibenzofuran	14	NE	210	mg/kg	1.7 J	0.36 U	0.85 J	0.35 U	0.42 U	0.34 U	0.36 U	1.3 J	0.36 U
1-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[e]pyrene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Fluoranthenes/Pyrenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of					B-111	B-111	B-112	B-112	MW-104	MW-104	MW-104 DUP	MW-105	MW-105
	Public Health -	Protection of											
	Residential	Ecological	Protection of		14-16	22-24	8-10	15-17	5-7	17-19	17-19	10-12	22-24
Constituent	Zoning ^(a)	Resources	Groundwater	Units	11/17/2008	11/17/2008	11/25/2008	11/25/2008	12/1/2008	12/1/2008	12/1/2008	11/24/2008	11/24/2008
C1-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene (SYNFUEL)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perylene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other SVOCs													
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	30 U	1.9 U	19 U	1.8 U	2.2 U	1.8 U	1.9 U	20 U	1.8 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2-Chlorophenol	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2-Methylphenol	100	NE	0.33	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
2-Nitroaniline	NE	NE	NE	mg/kg	30 U	1.9 U	19 U	1.8 U	2.2 U	1.8 U	1.9 U	20 U	1.8 U
2-Nitrophenol	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSELAER NON-OWNED FORMER MGP SITE
RENSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of													
	Public Health -	Protection of			B-111	B-111	B-112	B-112	MW-104	MW-104	MW-104 DUP	MW-105	MW-105
	Residential	Ecological	Protection of		14-16	22-24	8-10	15-17	5-7	17-19	17-19	10-12	22-24
Constituent	Zoning ^(a)	Resources	Groundwater	Units	11/17/2008	11/17/2008	11/25/2008	11/25/2008	12/1/2008	12/1/2008	12/1/2008	11/24/2008	11/24/2008
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
3-Nitroaniline	NE	NE	NE	mg/kg	30 U	1.9 U	19 U	1.8 U	2.2 U	1.8 U	1.9 U	20 U	1.8 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	30 U	1.9 U	19 U	1.8 U	2.2 U	1.8 U	1.9 U	20 U	1.8 U
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
4-Chloroaniline	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
4-Nitroaniline	NE	NE	NE	mg/kg	30 U	1.9 U	19 U	1.8 U	2.2 U	1.8 U	1.9 U	20 U	1.8 U
4-Methylphenol	34	NE	0.33	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
4-Nitrophenol	NE	NE	NE	mg/kg	30 U	1.9 U	19 U	1.8 U	2.2 U	1.8 U	1.9 U	20 U	1.8 U
Acetophenone	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Atrazine	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Benzaldehyde	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 UJ	0.35 UJ	0.42 UJ	0.34 UJ	0.36 UJ	3.8 UJ	0.36 UJ
Bis(1-chloroisopropyl) Ether	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
bis(2-Chloroethoxy) Methane	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	5.9 U	0.066 J	3.7 U	0.35 U	0.071 J	0.094 J	0.038 J	3.8 U	0.36 U
Caprolactam	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Carbazole	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Benzyl Butyl Phthalate	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Diethylphthalate	NE	NE	NE	mg/kg	5.9 U	0.085 J	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Dimethyl phthalate	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Di-n-butylphthalate	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Di-n-octyl phthalate	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Hexachlorobenzene	0.33	NE	3.2	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Hexachloroethane	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Isophorone	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of			Units	B-111	B-111	B-112	B-112	MW-104	MW-104	MW-104 DUP	MW-105	MW-105
	Public Health -	Protection of	Protection of		14-16	22-24	8-10	15-17	5-7	17-19	17-19	10-12	22-24
	Residential Zoning ^(a)	Ecological Resources	Groundwater		11/17/2008	11/17/2008	11/25/2008	11/25/2008	12/1/2008	12/1/2008	12/1/2008	11/24/2008	11/24/2008
Nitrobenzene	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Pentachlorophenol	2.4	0.8	0.8	mg/kg	30 U	1.9 U	19 U	1.8 U	2.2 U	1.8 U	1.9 U	20 U	1.8 U
Phenol	100	30	0.33	mg/kg	5.9 U	0.36 U	3.7 U	0.35 U	0.42 U	0.34 U	0.36 U	3.8 U	0.36 U
Inorganic Constituents													
Total Cyanide	27	NE	40	mg/kg	1.19 U	1.1 U	1.12 U	1.06 U	1.27 U	1.04 U	1.1 U	1.16 U	1.08 U
Cyanide, Free	NE	NE	NE	mg/kg	0.0072 UJ	0.0067 UJ	0.0069 U	0.0064 U	0.0078 U	0.0066 U	0.0079 U	0.014 J	0.0069 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of				MW-106S	MW-106S	MW-106D	MW-106D	MW-107	MW-107	SOIL-1	SOIL-1	SOIL-2
	Public Health -	Protection of	Protection of	Units	16-18	22-24	20-22	24-26	9-11	19-21	0.5-1	3-3.5	0.5-1
	Residential	Ecological			11/19/2008	11/19/2008	11/20/2008	11/20/2008	12/2/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Zoning ^(a) Resources Groundwater													
Volatile Organic Compounds (VOCs)													
BTEX													
Benzene	2.9	70	0.06	mg/kg	0.071	2.9	0.37	2.3	0.074 J	0.0012 J	0.0053 U	0.0053 U	0.0072 U
Toluene	100	36	0.7	mg/kg	0.0042 J	0.7 J	0.0067 J	0.3 J	0.72 U	0.0011 J	0.0053 U	0.0053 U	0.0008 J
Ethylbenzene	30	NE	1	mg/kg	0.18	35	0.26	15	3	0.0015 J	0.0053 U	0.0053 U	0.0072 U
o-Xylene	NE	NE	NE	mg/kg	0.076	12	0.044	4.8	0.86	0.0054 R	0.0053 U	0.0053 U	0.0072 U
m&p-Xylenes	NE	NE	NE	mg/kg	0.11	24	0.15	11	1.3	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Xylenes, Total	100	0.26	1.6	mg/kg	0.19	36	0.19	16	2.2	0.0108 R	ND	ND	ND
Total BTEX	NE	NE	NE	mg/kg	0.44	75	0.83	33	5.2	0.0038	ND	ND	0.00080
Other VOCs													
1,1,1-Trichloroethane	100	NE	0.68	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,1-Dichloroethane	19	NE	0.27	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,1-Dichloroethene	100	NE	0.33	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,2-Dibromo-3-chloropropane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,2-Dibromoethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,2-Dichlorobenzene	100	NE	1.1	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,2-Dichloroethane	2.3	10	0.02	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 UJ	0.0053 U	0.0053 U	0.0072 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,3-Dichlorobenzene	17	NE	2.4	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
1,4-Dichlorobenzene	9.8	20	1.8	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
2-Butanone (MEK)	100	100	0.12	mg/kg	0.056 U	5.5 U	0.055 U	1.4 U	1.4 U	0.011 R	0.011 U	0.011 U	0.019
2-Hexanone	NE	NE	NE	mg/kg	0.056 U	5.5 U	0.055 U	1.4 U	1.4 U	0.011 R	0.011 U	0.011 U	0.014 U
4-Methyl-2-pentanone	NE	NE	NE	mg/kg	0.056 U	5.5 U	0.055 U	1.4 U	2	0.011 R	0.011 U	0.011 U	0.014 U
Acetone	100	2.2	0.05	mg/kg	0.02 UJ	11 U	0.02 UJ	2.8 U	2.9 U	0.022 R	0.021 UJ	0.021 UJ	0.069

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of					MW-106S	MW-106S	MW-106D	MW-106D	MW-107	MW-107	SOIL-1	SOIL-1	SOIL-2
	Public Health -	Protection of											
	Residential	Ecological	Protection of		16-18	22-24	20-22	24-26	9-11	19-21	0.5-1	3-3.5	0.5-1
Constituent	Zoning ^(a)	Resources	Groundwater	Units	11/19/2008	11/19/2008	11/20/2008	11/20/2008	12/2/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Bromodichloromethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 UJ	0.0053 U	0.0053 U	0.0072 U
Bromoform	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Bromomethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Carbon tetrachloride	1.4	NE	0.76	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 UJ	0.0053 U	0.0053 U	0.0072 U
Carbon disulfide	NE	NE	NE	mg/kg	0.002 J	5.5 U	0.055 U	1.4 U	1.4 U	0.0033 J	0.011 U	0.011 U	0.00055 J
Chlorobenzene	100	40	1.1	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Chloroethane	NE	NE	NE	mg/kg	0.056 U	5.5 U	0.055 U	1.4 U	1.4 U	0.011 R	0.011 U	0.011 U	0.014 U
Chloroform	10	12	0.37	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Chloromethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Cyclohexane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
cis-1,2-Dichloroethene	59	NE	0.25	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 UJ	0.0053 U	0.0053 U	0.0072 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Dichlorodifluoromethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Isopropylbenzene	NE	NE	NE	mg/kg	0.013 J	3.1	0.0066 J	1	0.66 J	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Methyl acetate	NE	NE	NE	mg/kg	0.056 U	5.5 U	0.055 U	1.4 U	1.4 U	0.011 R	0.011 U	0.011 U	0.014 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 UJ	0.0053 U	0.0053 U	0.0072 U
Methylene chloride	51	12	0.05	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.026 J	0.0053 U	0.0053 U	0.0072 UJ
tert-Butyl Methyl Ether	62	NE	0.93	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Styrene	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Tetrachloroethene	5.5	2	1.3	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
trans-1,2-Dichloroethene	100	NE	0.19	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U
Trichloroethene	10	2	0.47	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 UJ	0.0053 U	0.0053 U	0.0072 U
Trichlorofluoromethane	NE	NE	NE	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0024 J	0.0053 U	0.0053 U	0.0072 U
Vinyl chloride	0.21	NE	0.02	mg/kg	0.028 U	2.8 U	0.028 U	0.7 U	0.72 U	0.0054 R	0.0053 U	0.0053 U	0.0072 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of					MW-106S	MW-106S	MW-106D	MW-106D	MW-107	MW-107	SOIL-1	SOIL-1	SOIL-2
	Public Health -	Protection of											
	Residential	Ecological	Protection of		16-18	22-24	20-22	24-26	9-11	19-21	0.5-1	3-3.5	0.5-1
Constituent	Zoning ^(a)	Resources	Groundwater	Units	11/19/2008	11/19/2008	11/20/2008	11/20/2008	12/2/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Semi-volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs) - Standard Analysis List													
Acenaphthene	100	20	98	mg/kg	3.3	29	0.04 J	1.6 J	6.1	0.36 U	0.35 U	0.35 U	0.48 U
Acenaphthylene	100	NE	107	mg/kg	0.4 J	3.9 J	0.36 U	0.3 J	0.89	0.36 U	0.35 U	0.35 U	0.48 U
Anthracene	100	NE	1000	mg/kg	3.4	17 J	0.11 J	1.1 J	4.9	0.36 U	0.35 U	0.35 U	0.13 J
Benzo(a)anthracene	1	NE	1	mg/kg	2.3	12 J	0.17 J	0.84 J	3.9	0.36 U	0.35 U	0.35 U	0.32 J
Benzo(a)pyrene	1	2.6	22	mg/kg	1.9	9.3 J	0.13 J	0.65 J	3.5	0.36 U	0.35 U	0.35 U	0.32 J
Benzo(b)fluoranthene	1	NE	1.7	mg/kg	1.3	3.9 J	0.11 J	0.3 J	2.4	0.36 U	0.35 U	0.35 U	0.32 J
Benzo(g,h,i)perylene	100	NE	1000	mg/kg	1 J	4.5 J	0.079 J	0.36 J	1.6	0.36 U	0.35 U	0.35 U	0.23 J
Benzo(k)fluoranthene	1	NE	1.7	mg/kg	1.2	5.8 J	0.1 J	0.42 J	0.83	0.36 U	0.35 U	0.35 U	0.29 J
Chrysene	1	NE	1	mg/kg	2.2	11 J	0.15 J	0.82 J	3.5	0.36 U	0.35 U	0.35 U	0.36 J
Dibenzo(a,h)anthracene	0.33	NE	1000	mg/kg	0.29 J	18 U	0.36 U	1.9 U	0.44	0.36 U	0.35 U	0.35 U	0.48 U
Fluoranthene	100	NE	1000	mg/kg	5.6	20	0.37	1.6 J	7.1	0.36 U	0.35 U	0.35 U	0.85
Fluorene	100	30	386	mg/kg	2.4	14 J	0.045 J	0.9 J	3.8	0.36 U	0.35 U	0.35 U	0.049 J
Indeno(1,2,3-cd)pyrene	0.5	NE	8.2	mg/kg	0.92 J	3.2 J	0.076 J	0.25 J	1.5	0.36 U	0.35 U	0.35 U	0.2 J
Naphthalene	100	NE	12	mg/kg	11	200	1.8	16	1.4	0.11 J	0.35 U	0.35 U	0.055 J
Phenanthrene	100	NE	1000	mg/kg	10	60	0.42	4.3	17	0.052 J	0.35 U	0.35 U	0.49
Pyrene	100	NE	1000	mg/kg	5.1	32	0.31 J	2.4	9.4	0.36 U	0.35 U	0.35 U	0.51
2-Methylnaphthalene	NE	NE	NE	mg/kg	4.2	68	0.14 J	4.2	1.6	0.037 J	0.35 U	0.35 U	0.055 J
Total PAHs	NE	NE	NE	mg/kg	57	494	4.1	36	70	0.20	ND	ND	4.2
PAHs - Expanded Analysis List													
Biphenyl	NE	NE	NE	mg/kg	0.79 J	9.3 J	0.36 U	0.57 J	1.7	0.36 U	0.35 U	0.35 U	0.48 U
Dibenzofuran	14	NE	210	mg/kg	1.3	18 U	0.36 U	1.9 U	0.52	0.36 U	0.35 U	0.35 U	0.48 U
1-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	3	NA	NA	NA	NA
Benzo[e]pyrene	NE	NE	NE	mg/kg	NA	NA	NA	NA	1.7	NA	NA	NA	NA
C1-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	2.9 J	NA	NA	NA	NA
C1-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	0.37	NA	NA	NA	NA
C1-Fluoranthenes/Pyrenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	7.1 J	NA	NA	NA	NA
C1-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	2.5 J	NA	NA	NA	NA

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of				MW-106S	MW-106S	MW-106D	MW-106D	MW-107	MW-107	SOIL-1	SOIL-1	SOIL-2
	Public Health -	Protection of	Protection of	Units	16-18	22-24	20-22	24-26	9-11	19-21	0.5-1	3-3.5	0.5-1
	Residential	Ecological			11/19/2008	11/19/2008	11/20/2008	11/20/2008	12/2/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
	Zoning ^(a)	Resources	Groundwater										
C1-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	12 J	NA	NA	NA	NA
C2-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	1	NA	NA	NA	NA
C2-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	1.2	NA	NA	NA	NA
C2-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	2.1 J	NA	NA	NA	NA
C2-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	6 J	NA	NA	NA	NA
C2-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	5.1 J	NA	NA	NA	NA
C3-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	0.41	NA	NA	NA	NA
C3-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	0.66	NA	NA	NA	NA
C3-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	1.6	NA	NA	NA	NA
C3-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	3.7 J	NA	NA	NA	NA
C3-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	2.3 J	NA	NA	NA	NA
C4-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	0.088	NA	NA	NA	NA
C4-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	1.6	NA	NA	NA	NA
C4-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	0.76	NA	NA	NA	NA
Dibenzothiophene (SYNFUEL)	NE	NE	NE	mg/kg	NA	NA	NA	NA	1.3	NA	NA	NA	NA
Perylene	NE	NE	NE	mg/kg	NA	NA	NA	NA	0.58	NA	NA	NA	NA
Other SVOCs													
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	5.7 U	94 U	1.9 U	9.6 U	20 U	1.8 U	1.8 U	1.8 U	2.5 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2-Chlorophenol	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2-Methylphenol	100	NE	0.33	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
2-Nitroaniline	NE	NE	NE	mg/kg	5.7 U	94 U	1.9 U	9.6 U	20 U	1.8 U	1.8 U	1.8 U	2.5 U
2-Nitrophenol	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Protection of													
	Public Health -	Protection of			MW-106S	MW-106S	MW-106D	MW-106D	MW-107	MW-107	SOIL-1	SOIL-1	SOIL-2
	Residential	Ecological	Protection of		16-18	22-24	20-22	24-26	9-11	19-21	0.5-1	3-3.5	0.5-1
Constituent	Zoning ^(a)	Resources	Groundwater	Units	11/19/2008	11/19/2008	11/20/2008	11/20/2008	12/2/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
3-Nitroaniline	NE	NE	NE	mg/kg	5.7 U	94 U	1.9 U	9.6 U	20 U	1.8 U	1.8 U	1.8 U	2.5 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	5.7 U	94 U	1.9 U	9.6 U	20 U	1.8 U	1.8 U	1.8 U	2.5 U
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
4-Chloroaniline	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
4-Nitroaniline	NE	NE	NE	mg/kg	5.7 U	94 U	1.9 U	9.6 U	20 U	1.8 U	1.8 U	1.8 U	2.5 U
4-Methylphenol	34	NE	0.33	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
4-Nitrophenol	NE	NE	NE	mg/kg	5.7 U	94 U	1.9 U	9.6 U	20 U	1.8 U	1.8 U	1.8 U	2.5 U
Acetophenone	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Atrazine	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Benzaldehyde	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 UJ	0.36 UJ	0.35 UJ	0.35 UJ	0.19 J
Bis(1-chloroisopropyl) Ether	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
bis(2-Chloroethoxy) Methane	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	1.1 U	18 U	0.14 J	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.093 J
Caprolactam	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Carbazole	NE	NE	NE	mg/kg	0.46 J	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.068 J
Benzyl Butyl Phthalate	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Diethylphthalate	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Dimethyl phthalate	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Di-n-butylphthalate	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Di-n-octyl phthalate	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Hexachlorobenzene	0.33	NE	3.2	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Hexachloroethane	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Isophorone	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]													
Constituent	Protection of			Units	MW-106S	MW-106S	MW-106D	MW-106D	MW-107	MW-107	SOIL-1	SOIL-1	SOIL-2
	Public Health -	Protection of			16-18	22-24	20-22	24-26	9-11	19-21	0.5-1	3-3.5	0.5-1
	Residential	Ecological	Protection of										
	Zoning ^(a)	Resources	Groundwater										
					11/19/2008	11/19/2008	11/20/2008	11/20/2008	12/2/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Nitrobenzene	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Pentachlorophenol	2.4	0.8	0.8	mg/kg	5.7 U	94 U	1.9 U	9.6 U	20 U	1.8 U	1.8 U	1.8 U	2.5 U
Phenol	100	30	0.33	mg/kg	1.1 U	18 U	0.36 U	1.9 U	3.8 U	0.36 U	0.35 U	0.35 U	0.48 U
Inorganic Constituents													
Total Cyanide	27	NE	40	mg/kg	1.11 U	1.11 U	1.1 U	1.13 U	1.16 U	1.08 U	1.07 U	1.06 U	1.45 U
Cyanide, Free	NE	NE	NE	mg/kg	0.0068 UJ	0.007 UJ	0.013 J	0.04 J	0.0071 U	0.0065 U	0.0065 U	0.0066 U	0.0086 UJ

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSELAER NON-OWNED FORMER MGP SITE
RENSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]												
Protection of					SOIL-2	SOIL-3	SOIL-3	SOIL-4	SOIL-4	TP-105	TP-105	TP-105
Public Health -	Protection of											
Residential	Ecological	Protection of			3.5-4	0.5-1	3-3.5	0.5-1	3-3.5	2-5	4-5	6-8
Constituent	Zoning ^(a)	Resources	Groundwater	Units	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	11/22/2008	11/22/2008	11/22/2008
Volatile Organic Compounds (VOCs)												
BTEX												
Benzene	2.9	70	0.06	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	190	0.0063 U
Toluene	100	36	0.7	mg/kg	0.0062 U	0.0073 U	0.00085 J	0.001 J	0.0077 U	0.006 U	240	0.0063 U
Ethylbenzene	30	NE	1	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	47	0.0063 U
o-Xylene	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	90	0.0063 U
m&p-Xylenes	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	310	0.0063 U
Xylenes, Total	100	0.26	1.6	mg/kg	ND	ND	ND	ND	ND	ND	400	ND
Total BTEX	NE	NE	NE	mg/kg	ND	ND	0.00085	0.0010	ND	ND	877	ND
Other VOCs												
1,1,1-Trichloroethane	100	NE	0.68	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,1-Dichloroethane	19	NE	0.27	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,1-Dichloroethene	100	NE	0.33	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,2-Dibromo-3-chloropropane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,2-Dibromoethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,2-Dichlorobenzene	100	NE	1.1	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,2-Dichloroethane	2.3	10	0.02	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,3-Dichlorobenzene	17	NE	2.4	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
1,4-Dichlorobenzene	9.8	20	1.8	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
2-Butanone (MEK)	100	100	0.12	mg/kg	0.0061 J	0.011 J	0.023	0.01 J	0.0068 J	0.012 U	17 U	0.013 U
2-Hexanone	NE	NE	NE	mg/kg	0.012 U	0.015 U	0.015 U	0.016 U	0.015 U	0.012 U	17 U	0.013 U
4-Methyl-2-pentanone	NE	NE	NE	mg/kg	0.012 U	0.015 U	0.015 U	0.016 U	0.015 U	0.012 U	17 U	0.013 U
Acetone	100	2.2	0.05	mg/kg	0.028 UJ	0.049	0.08	0.049	0.037	0.024 UJ	34 U	0.025 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSELAER NON-OWNED FORMER MGP SITE
RENSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]												
Constituent	Protection of			Units	SOIL-2	SOIL-3	SOIL-3	SOIL-4	SOIL-4	TP-105	TP-105	TP-105
	Public Health -	Protection of	Protection of		3.5-4	0.5-1	3-3.5	0.5-1	3-3.5	2-5	4-5	6-8
	Residential Zoning ^(a)	Ecological Resources	Groundwater		12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	11/22/2008	11/22/2008	11/22/2008
Bromodichloromethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Bromoform	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Bromomethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Carbon tetrachloride	1.4	NE	0.76	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Carbon disulfide	NE	NE	NE	mg/kg	0.012 U	0.00054 J	0.0018 J	0.00076 J	0.00074 J	0.012 U	2.4 J	0.013 U
Chlorobenzene	100	40	1.1	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Chloroethane	NE	NE	NE	mg/kg	0.012 U	0.015 U	0.015 U	0.016 U	0.015 U	0.012 U	17 U	0.013 U
Chloroform	10	12	0.37	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Chloromethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Cyclohexane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
cis-1,2-Dichloroethene	59	NE	0.25	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Dichlorodifluoromethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Isopropylbenzene	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	2.1 J	0.0063 U
Methyl acetate	NE	NE	NE	mg/kg	0.012 U	0.015 U	0.015 U	0.016 U	0.015 U	0.012 U	17 U	0.013 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	0.39 J	0.0063 U
Methylene chloride	51	12	0.05	mg/kg	0.0062 UJ	0.0073 UJ	0.0076 UJ	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
tert-Butyl Methyl Ether	62	NE	0.93	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Styrene	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	50	0.0063 U
Tetrachloroethene	5.5	2	1.3	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
trans-1,2-Dichloroethene	100	NE	0.19	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Trichloroethene	10	2	0.47	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Trichlorofluoromethane	NE	NE	NE	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U
Vinyl chloride	0.21	NE	0.02	mg/kg	0.0062 U	0.0073 U	0.0076 U	0.0079 U	0.0077 U	0.006 U	8.4 U	0.0063 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]												
Protection of					SOIL-2	SOIL-3	SOIL-3	SOIL-4	SOIL-4	TP-105	TP-105	TP-105
Public Health -	Protection of											
Residential	Ecological	Protection of			3.5-4	0.5-1	3-3.5	0.5-1	3-3.5	2-5	4-5	6-8
Constituent	Zoning ^(a)	Resources	Groundwater	Units	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	11/22/2008	11/22/2008	11/22/2008
Semi-volatile Organic Compounds (SVOCs)												
Polycyclic Aromatic Hydrocarbons (PAHs) - Standard Analysis List												
Acenaphthene	100	20	98	mg/kg	0.3 J	0.48 U	0.26 J	0.52 U	0.51 U	4 U	430 J	0.42 U
Acenaphthylene	100	NE	107	mg/kg	0.14 J	0.48 U	0.057 J	0.52 U	0.054 J	2.8 J	460	0.089 J
Anthracene	100	NE	1000	mg/kg	0.56	0.077 J	0.42 J	0.077 J	0.094 J	5.8	920	0.42 U
Benzo(a)anthracene	1	NE	1	mg/kg	1	0.2 J	0.71	0.3 J	0.34 J	20	660	0.42 U
Benzo(a)pyrene	1	2.6	22	mg/kg	0.98	0.2 J	0.68	0.36 J	0.4 J	22	580	0.42 U
Benzo(b)fluoranthene	1	NE	1.7	mg/kg	0.83	0.19 J	0.64	0.41 J	0.45 J	17	460	0.42 U
Benzo(g,h,i)perylene	100	NE	1000	mg/kg	0.56	0.17 J	0.45 J	0.36 J	0.34 J	13	310 J	0.18 J
Benzo(k)fluoranthene	1	NE	1.7	mg/kg	0.8	0.2 J	0.59	0.36 J	0.37 J	19	460	0.42 U
Chrysene	1	NE	1	mg/kg	1	0.23 J	0.76	0.46 J	0.45 J	18	590	0.42 U
Dibenzo(a,h)anthracene	0.33	NE	1000	mg/kg	0.2 J	0.48 U	0.15 J	0.093 J	0.1 J	4.6	100 J	0.42 U
Fluoranthene	100	NE	1000	mg/kg	2.6	0.49	2	0.79	0.97	40	2000	0.42 U
Fluorene	100	30	386	mg/kg	0.32 J	0.48 U	0.21 J	0.52 U	0.51 U	1.2 J	710	0.42 U
Indeno(1,2,3-cd)pyrene	0.5	NE	8.2	mg/kg	0.54	0.14 J	0.41 J	0.3 J	0.29 J	13	290 J	0.42 U
Naphthalene	100	NE	12	mg/kg	0.32 J	0.48 U	0.2 J	0.52 U	0.51 U	0.7 J	4600	0.42 U
Phenanthrene	100	NE	1000	mg/kg	2.2	0.29 J	1.5	0.24 J	0.36 J	24	3200	0.42 U
Pyrene	100	NE	1000	mg/kg	1.6	0.31 J	1.2	0.47 J	0.57	26	1300	0.42 U
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.12 J	0.48 U	0.12 J	0.52 U	0.51 U	4 U	790	0.42 U
Total PAHs	NE	NE	NE	mg/kg	14	2.5	10	4.2	4.8	227	17860	0.27
PAHs - Expanded Analysis List												
Biphenyl	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.065 J	0.52 U	0.51 U	4 U	170 J	0.42 U
Dibenzofuran	14	NE	210	mg/kg	0.2 J	0.48 U	0.13 J	0.52 U	0.51 U	1.1 J	640	0.42 U
1-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[e]pyrene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C1-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C1-Fluoranthenes/Pyrenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C1-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]												
Protection of					SOIL-2	SOIL-3	SOIL-3	SOIL-4	SOIL-4	TP-105	TP-105	TP-105
	Public Health -	Protection of										
	Residential	Ecological	Protection of		3.5-4	0.5-1	3-3.5	0.5-1	3-3.5	2-5	4-5	6-8
Constituent	Zoning ^(a)	Resources	Groundwater	Units	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	11/22/2008	11/22/2008	11/22/2008
C1-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C2-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C2-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C2-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C2-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C3-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C3-Fluorenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C3-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C3-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C4-Chrysenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C4-Naphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
C4-Phenanthrenes/Anthracenes	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene (SYNFUEL)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perylene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Other SVOCs												
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	2.1 U	2.5 U	2.6 U	2.7 U	2.6 U	20 U	2300 U	2.2 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2-Methylphenol	100	NE	0.33	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
2-Nitroaniline	NE	NE	NE	mg/kg	2.1 U	2.5 U	2.6 U	2.7 U	2.6 U	20 U	2300 U	2.2 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSELAER NON-OWNED FORMER MGP SITE
RENSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]												
Protection of												
	Public Health -	Protection of			SOIL-2	SOIL-3	SOIL-3	SOIL-4	SOIL-4	TP-105	TP-105	TP-105
	Residential	Ecological	Protection of		3.5-4	0.5-1	3-3.5	0.5-1	3-3.5	2-5	4-5	6-8
Constituent	Zoning ^(a)	Resources	Groundwater	Units	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	11/22/2008	11/22/2008	11/22/2008
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
3-Nitroaniline	NE	NE	NE	mg/kg	2.1 U	2.5 U	2.6 U	2.7 U	2.6 U	20 U	2300 U	2.2 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	2.1 U	2.5 U	2.6 U	2.7 U	2.6 U	20 U	2300 U	2.2 U
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
4-Nitroaniline	NE	NE	NE	mg/kg	2.1 U	2.5 U	2.6 U	2.7 U	2.6 U	20 U	2300 U	2.2 U
4-Methylphenol	34	NE	0.33	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
4-Nitrophenol	NE	NE	NE	mg/kg	2.1 U	2.5 U	2.6 U	2.7 U	2.6 U	20 U	2300 U	2.2 U
Acetophenone	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Atrazine	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Benzaldehyde	NE	NE	NE	mg/kg	0.41 UJ	0.14 J	0.18 J	0.16 J	0.51 UJ	4 UJ	440 UJ	0.42 UJ
Bis(1-chloroisopropyl) Ether	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
bis(2-Chloroethoxy) Methane	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.41 U	0.14 J	0.23 J	0.1 J	0.099 J	4 U	440 U	0.42 U
Caprolactam	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Carbazole	NE	NE	NE	mg/kg	0.27 J	0.48 U	0.21 J	0.52 U	0.51 U	1.4 J	360 J	0.42 U
Benzyl Butyl Phthalate	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Diethylphthalate	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Di-n-butylphthalate	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 UJ	0.52 UJ	0.51 UJ	4 U	440 U	0.42 U
Di-n-octyl phthalate	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Hexachlorobenzene	0.33	NE	3.2	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Hexachloroethane	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Isophorone	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U

TABLE 6
SUBSURFACE SOIL ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Soil Cleanup Objectives [6 NYCRR Subpart 375-6]												
Constituent	Protection of			Units	SOIL-2	SOIL-3	SOIL-3	SOIL-4	SOIL-4	TP-105	TP-105	TP-105
	Public Health -	Protection of	Protection of		3.5-4	0.5-1	3-3.5	0.5-1	3-3.5	2-5	4-5	6-8
	Residential	Ecological			3.5-4	0.5-1	3-3.5	0.5-1	3-3.5	2-5	4-5	6-8
	Zoning ^(a)	Resources			Groundwater	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	11/22/2008	11/22/2008
Nitrobenzene	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Pentachlorophenol	2.4	0.8	0.8	mg/kg	2.1 U	2.5 U	2.6 U	2.7 U	2.6 U	20 U	2300 U	2.2 U
Phenol	100	30	0.33	mg/kg	0.41 U	0.48 U	0.5 U	0.52 U	0.51 U	4 U	440 U	0.42 U
Inorganic Constituents												
Total Cyanide	27	NE	40	mg/kg	1.24 U	1.45 U	1.51 U	1.58 U	1.55 U	10.8	5.99	2.12
Cyanide, Free	NE	NE	NE	mg/kg	0.0089 UJ	0.0092 UJ	0.0092 UJ	0.01 UJ	0.0098 UJ	0.014 J	0.024 J	0.015 J

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, based on data validation, the reported method detection limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.

R - Results rejected as determined by data validator.

NE - Not established.

NA - Not analyzed.

ND - Not detected.

(a) - R-3 Zoning Classification (multi-family residential) per City of Rensselaer Planning and Building Department.

Boxed concentrations are above one or more of the following New York State Subpart 375 Soil Cleanup Objectives for: Residential Zoning, Protection of Ecological Resources, or Protection of Groundwater.

TABLE 7
SEDIMENT ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Units	Loc ID	SED-1	SED-2	SED-2 DUP	SED-3
		Interval	0-0.5'	0-0.5'	0-0.5'	0-0.5'
		Date	12/9/2008	12/3/2008	12/3/2008	12/3/2008
Volatile Organic Compounds (VOCs)						
BTEX						
Benzene	mg/kg		0.0073 U	0.007 U	0.0067 U	0.008 U
Toluene	mg/kg		0.0073 U	0.007 U	0.0067 U	0.008 U
Ethylbenzene	mg/kg		0.0073 U	0.007 U	0.0067 U	0.008 U
o-Xylene	mg/kg		0.0073 U	0.007 U	0.0067 U	0.008 U
m&p-Xylenes	mg/kg		0.0073 U	0.007 U	0.0067 U	0.008 U
Xylenes, Total	mg/kg		ND	ND	ND	ND
Total BTEX	mg/kg		ND	ND	ND	ND
Semi-volatile Organic Compounds (SVOCs)						
Polycyclic Aromatic Hydrocarbons (PAHs) - Standard Analysis List						
Acenaphthene	mg/kg		0.13	0.056	0.025	0.051
Acenaphthylene	mg/kg		0.11	0.023	0.013	0.046
Anthracene	mg/kg		0.41	0.25	0.057	0.2
Benzo(a)anthracene	mg/kg		1.3	0.87	0.21	0.91
Benzo(a)pyrene	mg/kg		1.2	0.81	0.24	0.98
Benzo(b)fluoranthene	mg/kg		1.4	1	0.32	1.3
Benzo(g,h,i)perylene	mg/kg		0.77	0.55	0.19	0.67
Benzo(k)fluoranthene	mg/kg		0.53	0.37	0.11	0.49
Chrysene	mg/kg		1.2	0.9	0.25	1.1
Dibenzo(a,h)anthracene	mg/kg		0.23	0.15	0.05	0.18
Fluoranthene	mg/kg		2.3	1.9	0.44	1.9
Fluorene	mg/kg		0.2	0.078	0.032	0.069
Indeno(1,2,3-cd)pyrene	mg/kg		0.9	0.64	0.22	0.79
Naphthalene	mg/kg		0.17	0.092	0.059	0.08
Phenanthrene	mg/kg		1.6	0.96	0.23	0.88 J
Pyrene	mg/kg		2.2	1.4	0.36	1.5
2-Methylnaphthalene	mg/kg		0.13	0.067	0.041	0.086
Total PAHs	mg/kg		15	10	2.8	11
PAHs - Expanded Analysis List						
Biphenyl	mg/kg		0.036	0.032	0.04	0.017
Dibenzofuran	mg/kg		0.11	0.068	0.039	0.056
1-Methylnaphthalene	mg/kg		0.085	0.053	0.03	0.076 J
Benzo[e]pyrene	mg/kg		0.78	0.54	0.18	0.71
C1-Chrysenes	mg/kg		1	0.42	0.14	0.54
C1-Dibenzothiophenes	mg/kg		0.26	0.02	0.013	0.024
C1-Fluoranthenes/Pyrenes	mg/kg		1.6	0.61	0.18	0.8
C1-Fluorenes	mg/kg		0.18	0.034	0.014	0.036
C1-Phenanthrenes/Anthracenes	mg/kg		1	0.41	0.12	0.41
C2-Chrysenes	mg/kg		0.55	0.22	0.096	0.26
C2-Dibenzothiophenes	mg/kg		0.36	0.046	0.025	0.054
C2-Fluorenes	mg/kg		0.35	0.039	0.02	0.05

TABLE 7
SEDIMENT ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Units	Loc ID	SED-1	SED-2	SED-2 DUP	SED-3
		Interval	0-0.5'	0-0.5'	0-0.5'	0-0.5'
		Date	12/9/2008	12/3/2008	12/3/2008	12/3/2008
C2-Naphthalene	mg/kg		0.25	0.12	0.07	0.14
C2-Phenanthrenes/Anthracenes	mg/kg		0.82	0.26	0.095	0.3
C3-Chrysenes	mg/kg		0.4	0.17	0.091	0.21
C3-Dibenzothiophenes	mg/kg		0.43	0.038	0.025	0.054
C3-Fluorenes	mg/kg		0.6	0.061	0.026	0.079
C3-Naphthalene	mg/kg		0.3	0.11	0.039	0.13
C3-Phenanthrenes/Anthracenes	mg/kg		0.84	0.14	0.069	0.18
C4-Chrysenes	mg/kg		0.13	0.052	0.038	0.005 U
C4-Naphthalene	mg/kg		0.36	0.057	0.032	0.066
C4-Phenanthrenes/Anthracenes	mg/kg		0.57	0.052	0.038	0.089
Dibenzothiophene (SYNFUEL)	mg/kg		0.14	0.052	0.019	0.047
Perylene	mg/kg		0.46	0.23	0.075	0.33
Inorganic Constituents						
Total Cyanide	mg/kg		5.48	1.41 U	1.33 U	1.59 U
Cyanide, Free	mg/kg		0.0083 U	0.0077 U	0.0068 U	0.0088 U
Total Organic Carbon	mg/kg		45000	26600	13400	27300

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria		Units	MW-101-05	MW-101-05	MW-102-05	MW-103-05	MW-103-05	MW-103-05 DUP
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	4/27/2009	4/28/2009	12/19/2008	4/27/2009	4/27/2009
	Guidance	Standard							
Volatile Organic Compounds (VOCs)									
BTEX									
Benzene	--	1	µg/L	0.6 J	0.36 J	630	3 J	1.7 J	1.8 J
Toluene	--	5	µg/L	10 U	10 U	58	0.3 J	10 U	10 U
Ethylbenzene	--	5	µg/L	10 U	10 U	720	8 J	4.2 J	4.4 J
o-Xylene	--	5	µg/L	10 U	10 U	270	3 J	2.1 J	2.1 J
m&p-Xylenes	--	5	µg/L	10 U	10 U	360	0.5 J	10 U	0.37 J
Total BTEX	--	--	µg/L	0.6	0.36	2038	15	8.0	8.7
Other VOCs									
1,1,1-Trichloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	--	1	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	--	5	µg/L	10 U	10 U	10 U	10 UJ	10 U	10 U
1,2-Dibromo-3-chloropropane	--	0.04	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane	--	0.0006	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	--	3	µg/L	10 U	10 U	10 U	0.5 J	0.33 J	0.32 J
1,2-Dichloroethane	--	0.6	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	--	1	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	--	3	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	--	3	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (MEK)	50	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50	--	µg/L	10 UJ	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	50	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50	--	µg/L	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria			MW-101-05	MW-101-05	MW-102-05	MW-103-05	MW-103-05	MW-103-05 DUP
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	4/27/2009	4/28/2009	12/19/2008	4/27/2009	4/27/2009
	Guidance	Standard	Units						
Bromomethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	--	60	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	--	5	µg/L	10 U	10 U	10 U	0.7 J	0.64 J	0.71 J
Chloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	--	7	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	--	--	µg/L	10 U	10 U	84	10 U	10 U	10 U
cis-1,2-Dichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	--	0.4	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	50	µg/L	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Dichlorodifluoromethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	--	5	µg/L	10 U	10 U	60	3 J	1.9 J	2 J
Methyl acetate	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	--	µg/L	10 U	10 U	52	10 U	10 U	10 U
Methylene chloride	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
tert-Butyl Methyl Ether	10	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	--	5	µg/L	10 U	10 U	1.8 J	10 U	10 U	10 U
Tetrachloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	--	0.4	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	--	2	µg/L	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria		Units	MW-101-05	MW-101-05	MW-102-05	MW-103-05	MW-103-05	MW-103-05 DUP
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	4/27/2009	4/28/2009	12/19/2008	4/27/2009	4/27/2009
	Guidance	Standard							
Semi-volatile Organic Compounds (SVOCs)									
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	20	--	µg/L	10 U	9.7 U	82	19	21	20
Acenaphthylene	--	--	µg/L	10 U	9.7 U	9.5 J	5 J	6.1 J	6.6 J
Anthracene	50	--	µg/L	10 U	9.7 U	10 J	10 U	9.4 U	9.4 U
Benzo(a)anthracene	0.002	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Benzo(a)pyrene	--	0	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Benzo(b)fluoranthene	0.002	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Benzo(g,h,i)perylene	--	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Benzo(k)fluoranthene	0.002	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Chrysene	0.002	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Dibenzo(a,h)anthracene	--	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Fluoranthene	50	--	µg/L	10 U	9.7 U	4.8 J	10 U	9.4 U	9.4 U
Fluorene	50	--	µg/L	10 U	9.7 U	25	10 U	9.4 U	9.4 U
Indeno(1,2,3-cd)pyrene	0.002	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Naphthalene	10	--	µg/L	1 J	9.7 U	2500	10 J	3.1 J	2.9 J
Phenanthrene	50	--	µg/L	10 U	9.7 U	34	3 J	2.4 J	2.2 J
Pyrene	50	--	µg/L	10 U	9.7 U	6 J	10 U	9.4 U	9.4 U
2-Methylnaphthalene	--	4.7	µg/L	10 U	9.7 U	290 J	10 U	9.4 U	9.4 U
Total PAHs	--	--	µg/L	1.0	ND	2961	37	33	32
Other SVOCs									
Biphenyl	--	5	µg/L	10 U	9.7 U	23	4 J	3.3 J	3.2 J
2,4,5-Trichlorophenol	--	1	µg/L	25 U	24 U	47 U	24 U	24 U	24 U
2,4,6-Trichlorophenol	--	1	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
2,4-Dichlorophenol	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
2,4-Dimethylphenol	--	1	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
2,4-Dinitrophenol	--	1	µg/L	25 U	24 UJ	47 UJ	24 U	24 UJ	24 UJ
2,4-Dinitrotoluene	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
2,6-Dinitrotoluene	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria		Units	MW-101-05	MW-101-05	MW-102-05	MW-103-05	MW-103-05	MW-103-05 DUP
	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard		12/18/2008	4/27/2009	4/28/2009	12/19/2008	4/27/2009	4/27/2009
2-Chloronaphthalene	10	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
2-Chlorophenol	--	1	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
2-Methylphenol	--	1	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
2-Nitroaniline	--	5	µg/L	25 U	24 U	47 U	24 U	24 U	24 U
2-Nitrophenol	--	1	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
3,3'-Dichlorobenzidine	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
3-Nitroaniline	--	5	µg/L	25 U	24 U	47 U	24 U	24 U	24 U
4,6-Dinitro-2-methylphenol	--	1	µg/L	25 U	24 U	47 U	24 U	24 U	24 U
4-Bromophenyl-phenylether	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
4-Chloro-3-methylphenol	--	1	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
4-Chloroaniline	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
4-Chlorophenyl-phenylether	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
4-Nitroaniline	--	5	µg/L	25 U	24 U	47 U	24 U	24 U	24 U
4-Methylphenol	--	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
4-Nitrophenol	--	1	µg/L	25 U	24 U	47 U	24 U	24 U	24 U
Acetophenone	--	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Atrazine	--	7.5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Benzaldehyde	--	--	µg/L	10 U	9.7 UJ	19 UJ	10 U	9.4 UJ	9.4 UJ
Bis(1-chloroisopropyl) Ether	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
bis(2-Chloroethoxy) Methane	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Bis(-2-chloroethyl)ether	--	1	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Bis(2-ethylhexyl)phthalate	--	5	µg/L	1 J	9.7 U	19 U	10 U	9.4 U	9.4 U
Caprolactam	--	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Carbazole	--	--	µg/L	10 U	9.7 U	12 J	3 J	2.2 J	2 J
Dibenzofuran	--	--	µg/L	10 U	9.7 U	5.5 J	2 J	2.2 J	1.9 J
Benzyl Butyl Phthalate	--	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Diethylphthalate	50	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Dimethyl phthalate	50	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Di-n-butylphthalate	--	50	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Di-n-octyl phthalate	50	--	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria		Units	MW-101-05	MW-101-05	MW-102-05	MW-103-05	MW-103-05	MW-103-05 DUP
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	4/27/2009	4/28/2009	12/19/2008	4/27/2009	4/27/2009
	Guidance	Standard							
Hexachlorobenzene	--	0.04	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Hexachlorobutadiene	--	0.5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Hexachlorocyclopentadiene	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Hexachloroethane	--	5	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Isophorone	--	50	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
Nitrobenzene	--	0.4	µg/L	10 U	9.7 U	19 U	10 U	9.4 U	9.4 U
N-Nitroso-di-n-propylamine	--	--	µg/L	10 UJ	9.7 UJ	19 U	10 UJ	9.4 UJ	9.4 U
N-Nitrosodiphenylamine	50	--	µg/L	10 U	9.7 U	19 UJ	10 U	9.4 U	9.4 UJ
Pentachlorophenol	--	1	µg/L	25 U	24 U	47 U	24 U	24 U	24 U
Phenol	--	1	µg/L	10 U	9.7 U	7.5 J	10 U	9.4 U	9.4 U
<i>Inorganic Constituents</i>									
Total Cyanide	--	200	µg/L	235 J	266	76	149 J	94	111
Cyanide, Free	--	--	µg/L	10 U	3 J	3 J	2 J	2 J	2 J

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria		Units	MW-104-08	MW-104-08 DUP	MW-104-08	MW-105-08	MW-105-08	MW-107-08	MW-107-08
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	12/18/2008	4/27/2009	12/18/2008	4/28/2009	12/19/2008	4/28/2009
	Guidance	Standard								
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	--	1	µg/L	10 U	10 U	0.95 J	4 J	0.81 J	89	9.7 J
Toluene	--	5	µg/L	10 U	10 U	10 U	0.4 J	10 U	6 J	1.1 J
Ethylbenzene	--	5	µg/L	10 U	10 U	10 U	4 J	2.4 J	300	41
o-Xylene	--	5	µg/L	10 U	10 U	10 U	6 J	2.5 J	97	16
m&p-Xylenes	--	5	µg/L	10 U	10 U	10 U	1 J	0.52 J	120	19
Total BTEX	--	--	µg/L	ND	ND	0.95	15	6.2	612	87
Other VOCs										
1,1,1-Trichloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,1,2,2-Tetrachloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,1,2-Trichloroethane	--	1	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,1-Dichloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,1-Dichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2,4-Trichlorobenzene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2-Dibromo-3-chloropropane	--	0.04	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2-Dibromoethane	--	0.0006	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2-Dichlorobenzene	--	3	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2-Dichloroethane	--	0.6	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2-Dichloropropane	--	1	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,3-Dichlorobenzene	--	3	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,4-Dichlorobenzene	--	3	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Butanone (MEK)	50	--	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Hexanone	50	--	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
4-Methyl-2-pentanone	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Acetone	50	--	µg/L	10 UJ	10 UJ	10 U	10 UJ	10 U	20 UJ	10 U
Bromodichloromethane	50	--	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Bromoform	50	--	µg/L	10 U	10 U	10 UJ	10 U	10 UJ	20 U	10 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria			MW-104-08	MW-104-08 DUP	MW-104-08	MW-105-08	MW-105-08	MW-107-08	MW-107-08
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	12/18/2008	12/18/2008	4/27/2009	12/18/2008	4/28/2009	12/19/2008	4/28/2009
	Guidance	Standard								
Bromomethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Carbon tetrachloride	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Carbon disulfide	--	60	µg/L	10 UJ	10 UJ	10 U	0.3 J	10 U	20 UJ	10 U
Chlorobenzene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Chloroethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Chloroform	--	7	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Chloromethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Cyclohexane	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	1 J	1.9 J
cis-1,2-Dichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
cis-1,3-Dichloropropene	--	0.4	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Dibromochloromethane	50	50	µg/L	10 U	10 U	10 UJ	10 U	10 UJ	20 U	10 U
Dichlorodifluoromethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Isopropylbenzene	--	5	µg/L	10 U	10 U	10 U	3 J	2.3 J	18 J	4.1 J
Methyl acetate	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Methylcyclohexane	--	--	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	0.46 J
Methylene chloride	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
tert-Butyl Methyl Ether	10	--	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Styrene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	0.9 J	0.74 J
Tetrachloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
trans-1,2-Dichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
trans-1,3-Dichloropropene	--	0.4	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Trichloroethene	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Trichlorofluoromethane	--	5	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Vinyl chloride	--	2	µg/L	10 U	10 U	10 U	10 U	10 U	20 U	10 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria		Units	MW-104-08	MW-104-08 DUP	MW-104-08	MW-105-08	MW-105-08	MW-107-08	MW-107-08
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	12/18/2008	4/27/2009	12/18/2008	4/28/2009	12/19/2008	4/28/2009
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	--	µg/L	5 J	4 J	2.7 J	52	27	73	81
Acenaphthylene	--	--	µg/L	10 U	10 U	9.4 U	6 J	4.5 J	10	11
Anthracene	50	--	µg/L	10 U	10 U	9.4 U	2 J	2.2 J	5 J	5.2 J
Benzo(a)anthracene	0.002	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Benzo(a)pyrene	--	0	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Benzo(b)fluoranthene	0.002	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Benzo(g,h,i)perylene	--	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Benzo(k)fluoranthene	0.002	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Chrysene	0.002	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Dibenzo(a,h)anthracene	--	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Fluoranthene	50	--	µg/L	10 U	10 U	9.4 U	4 J	2.4 J	3 J	3.6 J
Fluorene	50	--	µg/L	10 U	10 U	9.4 U	4 J	4.4 J	20	22
Indeno(1,2,3-cd)pyrene	0.002	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Naphthalene	10	--	µg/L	10 U	10 U	9.4 U	19	11	850	260
Phenanthrene	50	--	µg/L	10 U	10 U	9.4 U	9 U	2.9 J	29	38
Pyrene	50	--	µg/L	10 U	10 U	9.4 U	5 J	3.8 J	4 J	4.2 J
2-Methylnaphthalene	--	4.7	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	88 J	36
Total PAHs	--	--	µg/L	5.0	4.0	2.7	92	58	1082	461
Other SVOCs										
Biphenyl	--	5	µg/L	10 U	10 U	9.4 U	9 U	2.2 J	23	26
2,4,5-Trichlorophenol	--	1	µg/L	24 U	24 U	24 U	24 U	24 U	24 U	24 U
2,4,6-Trichlorophenol	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
2,4-Dichlorophenol	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
2,4-Dimethylphenol	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
2,4-Dinitrophenol	--	1	µg/L	24 U	24 UJ	24 U	24 U	24 UJ	24 U	24 UJ
2,4-Dinitrotoluene	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
2,6-Dinitrotoluene	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria			MW-104-08	MW-104-08 DUP	MW-104-08	MW-105-08	MW-105-08	MW-107-08	MW-107-08
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	12/18/2008	4/27/2009	12/18/2008	4/28/2009	12/19/2008	4/28/2009
	Guidance	Standard	Units							
2-Chloronaphthalene	10	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
2-Chlorophenol	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
2-Methylphenol	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
2-Nitroaniline	--	5	µg/L	24 U	24 U	24 U	24 U	24 U	24 U	24 U
2-Nitrophenol	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
3,3'-Dichlorobenzidine	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
3-Nitroaniline	--	5	µg/L	24 U	24 U	24 U	24 U	24 U	24 U	24 U
4,6-Dinitro-2-methylphenol	--	1	µg/L	24 U	24 U	24 U	24 U	24 U	24 U	24 U
4-Bromophenyl-phenylether	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
4-Chloro-3-methylphenol	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
4-Chloroaniline	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
4-Chlorophenyl-phenylether	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
4-Nitroaniline	--	5	µg/L	24 U	24 U	24 U	24 U	24 U	24 U	24 U
4-Methylphenol	--	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
4-Nitrophenol	--	1	µg/L	24 U	24 U	24 U	24 U	24 U	24 U	24 U
Acetophenone	--	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Atrazine	--	7.5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Benzaldehyde	--	--	µg/L	10 U	10 UJ	9.4 U	9 U	9.5 UJ	9 U	9.4 UJ
Bis(1-chloroisopropyl) Ether	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
bis(2-Chloroethoxy) Methane	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Bis(-2-chloroethyl)ether	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Bis(2-ethylhexyl)phthalate	--	5	µg/L	10 U	10 U	11 U	9 U	9.5 U	9 U	9.4 U
Caprolactam	--	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Carbazole	--	--	µg/L	10 U	10 U	9.4 U	1 J	9.5 U	3 J	1.3 J
Dibenzofuran	--	--	µg/L	10 U	10 U	9.4 U	1 J	9.5 U	4 J	5.6 J
Benzyl Butyl Phthalate	--	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Diethylphthalate	50	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Dimethyl phthalate	50	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Di-n-butylphthalate	--	50	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Di-n-octyl phthalate	50	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
REMEDIAL INVESTIGATION
RENSSELAER NON-OWNED FORMER MGP SITE
RENSSELAER, NEW YORK

Constituent	Class GA Groundwater Criteria			MW-104-08	MW-104-08 DUP	MW-104-08	MW-105-08	MW-105-08	MW-107-08	MW-107-08
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾		12/18/2008	12/18/2008	4/27/2009	12/18/2008	4/28/2009	12/19/2008	4/28/2009
	Guidance	Standard	Units							
Hexachlorobenzene	--	0.04	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Hexachlorobutadiene	--	0.5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Hexachlorocyclopentadiene	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Hexachloroethane	--	5	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Isophorone	--	50	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
Nitrobenzene	--	0.4	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
N-Nitroso-di-n-propylamine	--	--	µg/L	10 UJ	10 UJ	9.4 UJ	9 UJ	9.5 U	9 UJ	9.4 UJ
N-Nitrosodiphenylamine	50	--	µg/L	10 U	10 U	9.4 U	9 U	9.5 UJ	9 U	9.4 U
Pentachlorophenol	--	1	µg/L	24 U	24 U	24 U	24 U	24 U	24 U	24 U
Phenol	--	1	µg/L	10 U	10 U	9.4 U	9 U	9.5 U	9 U	9.4 U
<i>Inorganic Constituents</i>										
Total Cyanide	--	200	µg/L	10 UJ	10 UJ	10 U	129 J	169	26.1 J	10 U
Cyanide, Free	--	--	µg/L	10 U	10 U	10 U	10 U	5 J	10 U	10 U

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, based on data validation, the reported method detection limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.

-- Standard and/or guidance value not established.

ND - Not detected

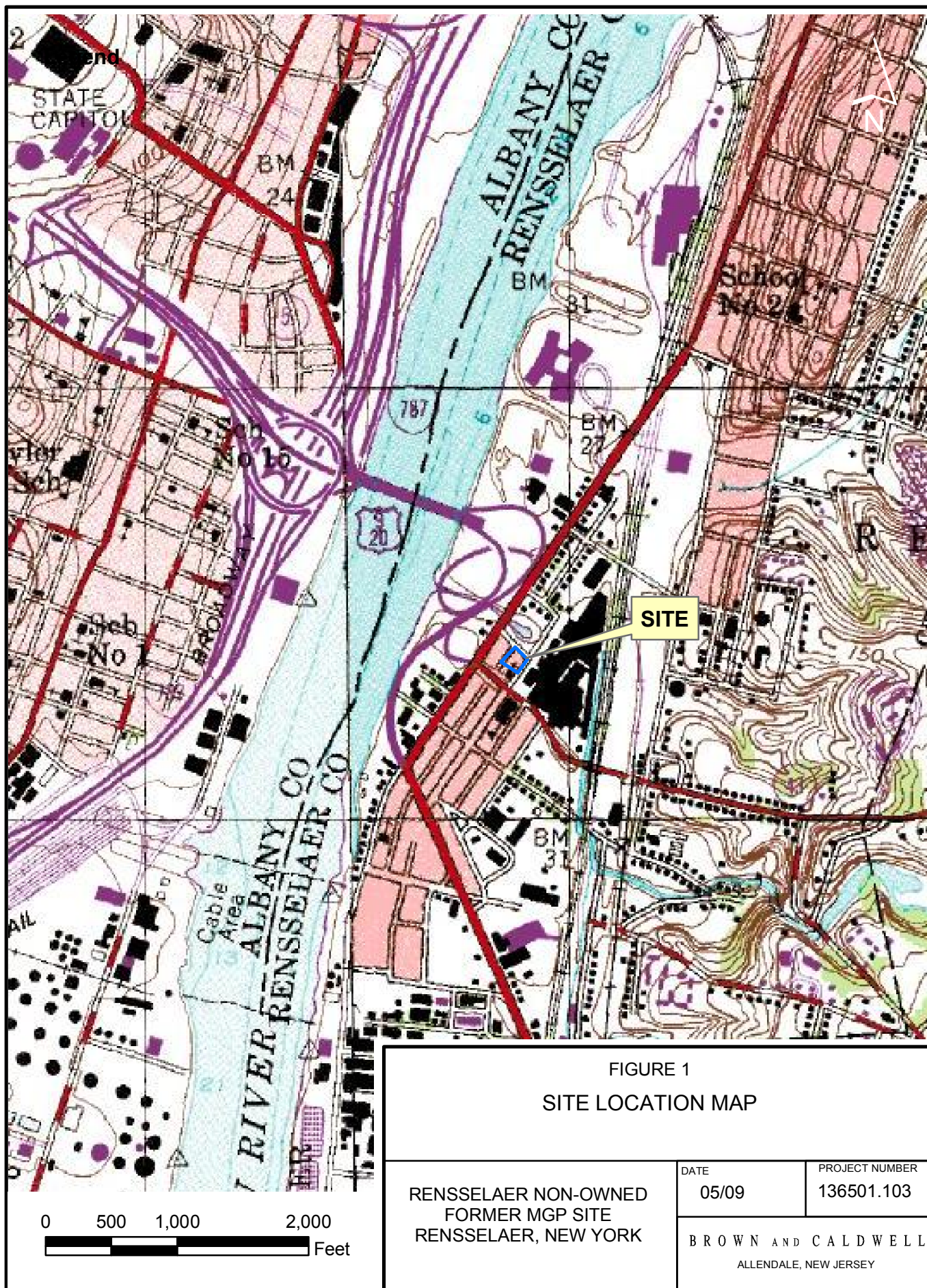
Boxed concentrations are above New York State Class GA Groundwater Standards or Guidance values.

(1) - Notes applicable to NYS Part 703 Standards:

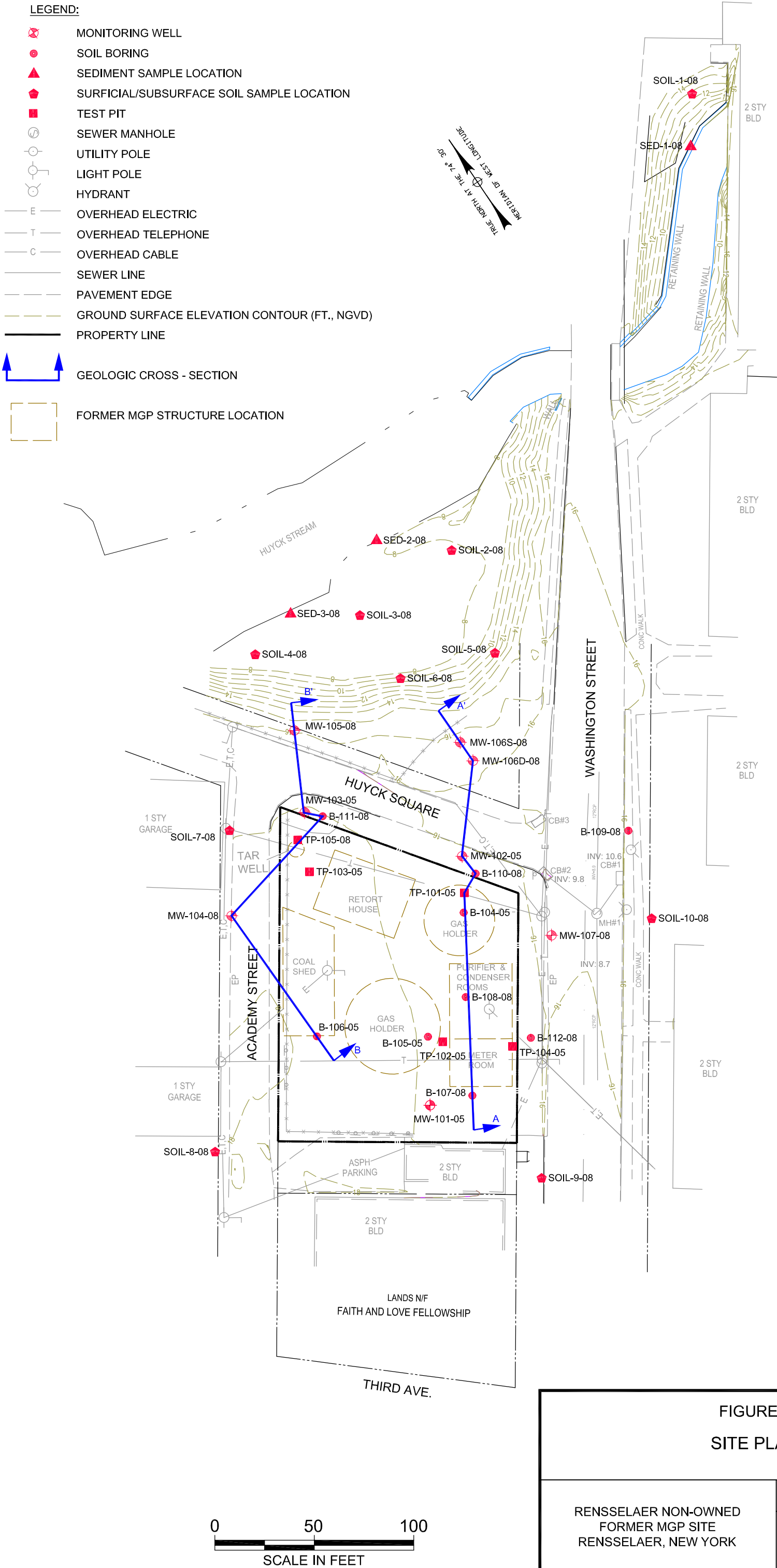
(a) - Any detected concentration for Benzo(a)pyrene is considered above the Part 703 Standard.

(b) - The standard for the sum of phenolic compounds is 1 µg/L

FIGURES



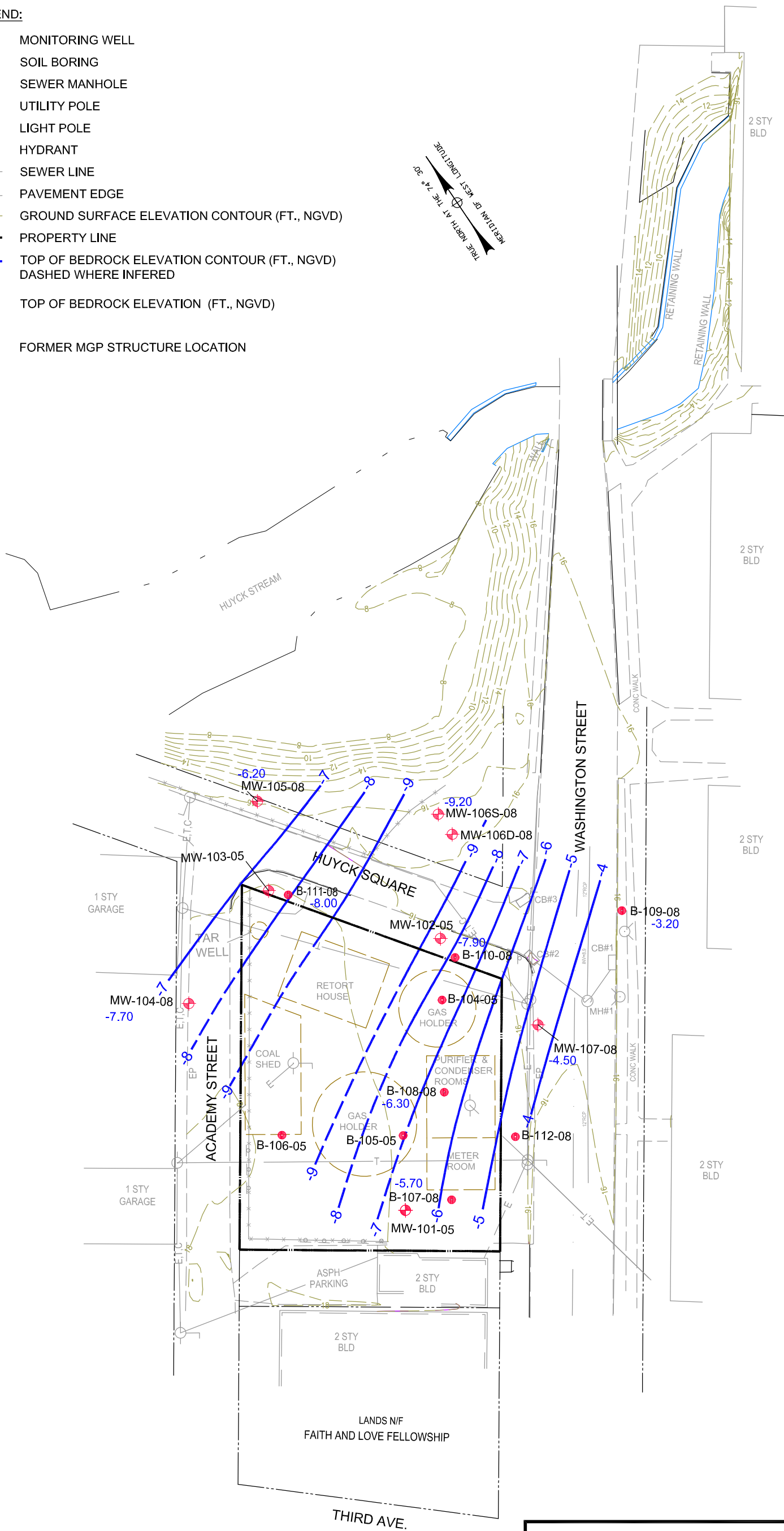
P:\DRAFTING\NATIONAL_GRID\RENSSELAER\136501.103\2-SHEETS\B-GEOTECHNICAL\FIGURE 2 (SITE-PLAN).DWG 06/04/2009 11:40:23AM By: rjames XREFS: Base_Map Layout: Layout1



P:\DRAFTING\NATIONAL_GRID\RENSSELAER\136501.103\2-SHEETS\B-GEOTECHNICAL\FIGURE 3 (TOP_OF_BEDROCK_SURFACE).DWG 06/04/2009 11:46:25AM By:rjames XREFS: Base_Map Layout: Layout1

LEGEND:

- MONITORING WELL
- SOIL BORING
- SEWER MANHOLE
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- SEWER LINE
- PAVEMENT EDGE
- GROUND SURFACE ELEVATION CONTOUR (FT., NGVD)
- PROPERTY LINE
- 8 TOP OF BEDROCK ELEVATION CONTOUR (FT., NGVD)
DASHED WHERE INFERED
- 3.2 TOP OF BEDROCK ELEVATION (FT., NGVD)
- FORMER MGP STRUCTURE LOCATION



0 50 100
SCALE IN FEET

FIGURE 3
TOP OF BEDROCK SURFACE
CONTOUR MAP

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	06/09	PROJECT NUMBER	136501.103
BROWN AND CALDWELL ASSOCIATES			



BROWN AND CALDWELL ASSOCIATES

ALLENDALE, NEW JERSEY

SUBMITTED: FRANK WILLIAMS PROJECT MANAGER DATE: 06/09

APPROVED: BROWN AND CALDWELL DATE:

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" - SCALE ACCORDINGLY)

DESIGNED: CRM
DRAWN: RMJ
CHECKED: JLM
CHECKED:
APPROVED:

EXTERNAL REFERENCES

JEFFREY R. CAPUTI
PROFESSIONAL ENGINEER
N.Y. LICENSE NO. 082198-1

DATE

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

FIGURE-4
HYDROGEOLOGIC
CROSS-SECTIONS A-A' & B-B'

RENSELAER NON-OWNED
FORMER MGP SITE
RENSELAER, NEW YORK

FILENAME
BC PROJECT NUMBER
136501.103
CLIENT PROJECT NUMBER

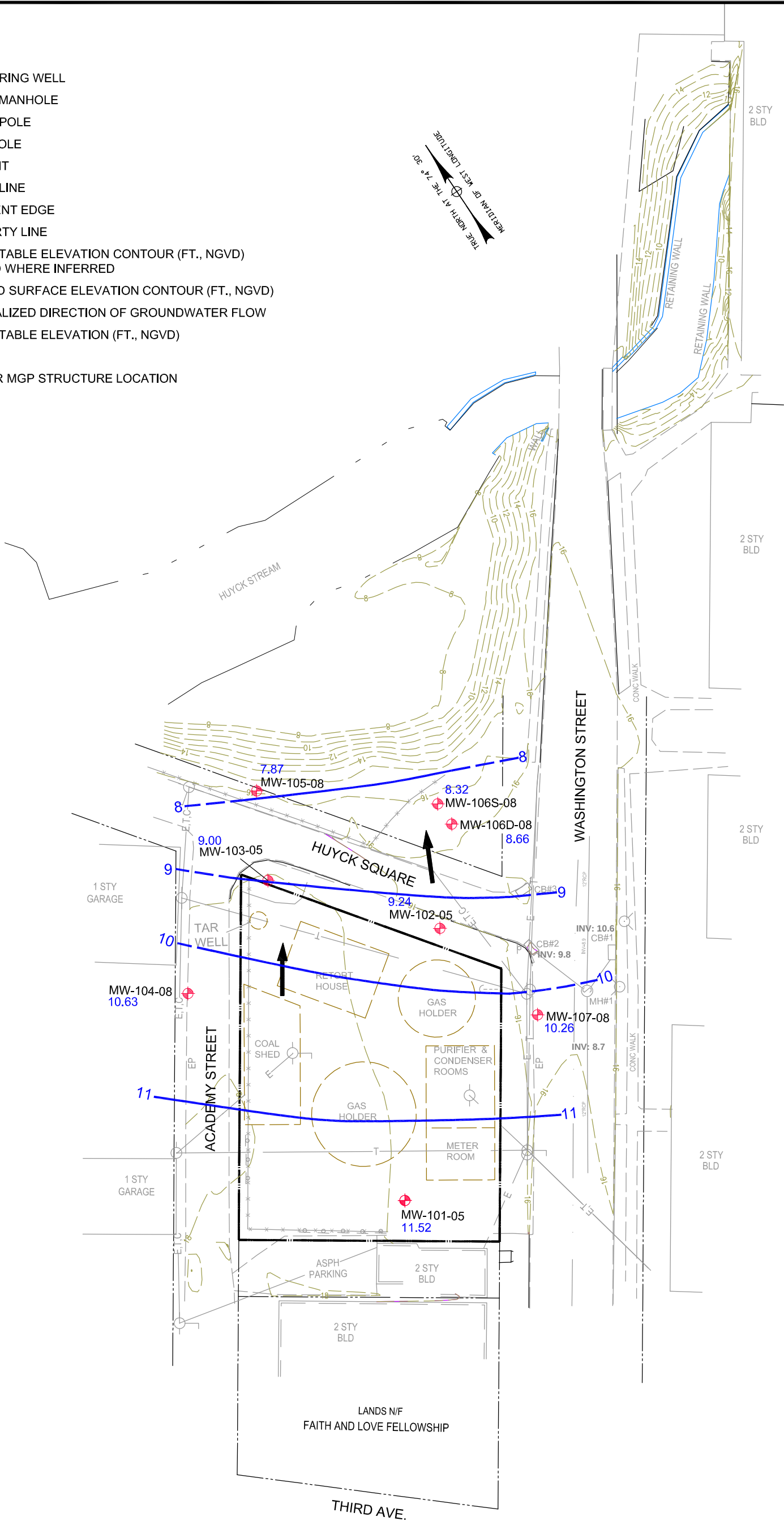
DRAWING NUMBER
-

SHEET NUMBER
OF

Jun 04, 2009 - 2:58pm
P:\DRAFTING\NATIONAL_ORD\RENSSELAER\136501.103\2-SHEETS\B-GEOTECHNICAL\Figure 4 (Hydrogeologic Cross-Section A-A' & B-B').dwg
rjames

P:\DRAFTING\NATIONAL_GRID\RENSSELAER\136501.103\2-SHEETS\B-GEOTECHNICAL\FIGURE-5 (WATER_TABLE_CONTOUR_MAP).DWG 06/04/2009 11:43:35AM By:rjames XREFs: Base_Map Layout: Layout1

- LEGEND:**
- MONITORING WELL
 - SEWER MANHOLE
 - UTILITY POLE
 - LIGHT POLE
 - HYDRANT
 - SEWER LINE
 - PAVEMENT EDGE
 - PROPERTY LINE
 - 10 WATER TABLE ELEVATION CONTOUR (FT., NGVD)
DASHED WHERE INFERRED
 - GROUND SURFACE ELEVATION CONTOUR (FT., NGVD)
 - GENERALIZED DIRECTION OF GROUNDWATER FLOW
 - 11.52 WATER TABLE ELEVATION (FT., NGVD)
 - FORMER MGP STRUCTURE LOCATION



0 50 100
SCALE IN FEET

FIGURE 5
WATER TABLE CONTOUR MAP
DECEMBER 19, 2008

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	PROJECT NUMBER
06/09	136501.103

BROWN AND CALDWELL
ASSOCIATES

P:\DRAFTING\NATIONAL_GRID\RENSSELAER\136501.103\2-SHEETS\B-GEOTECHNICAL\FIGURE-6 (WATER_TABLE_CONTOUR_MAP).DWG 06/04/2009 11:44:41AM By:rjames XREFS: Base_Map Layout: Layout1

- LEGEND:**
- MONITORING WELL
 - SEWER MANHOLE
 - UTILITY POLE
 - LIGHT POLE
 - HYDRANT
 - SEWER LINE
 - PAVEMENT EDGE
 - PROPERTY LINE
 - 10 WATER TABLE ELEVATION CONTOUR (FT., NGVD)
DASHED WHERE INFERRED
 - GROUND SURFACE ELEVATION CONTOUR (FT., NGVD)
 - GENERALIZED DIRECTION OF GROUNDWATER FLOW
 - 11.52 WATER TABLE ELEVATION (FT., NGVD)
 - FORMER MGP STRUCTURE LOCATION

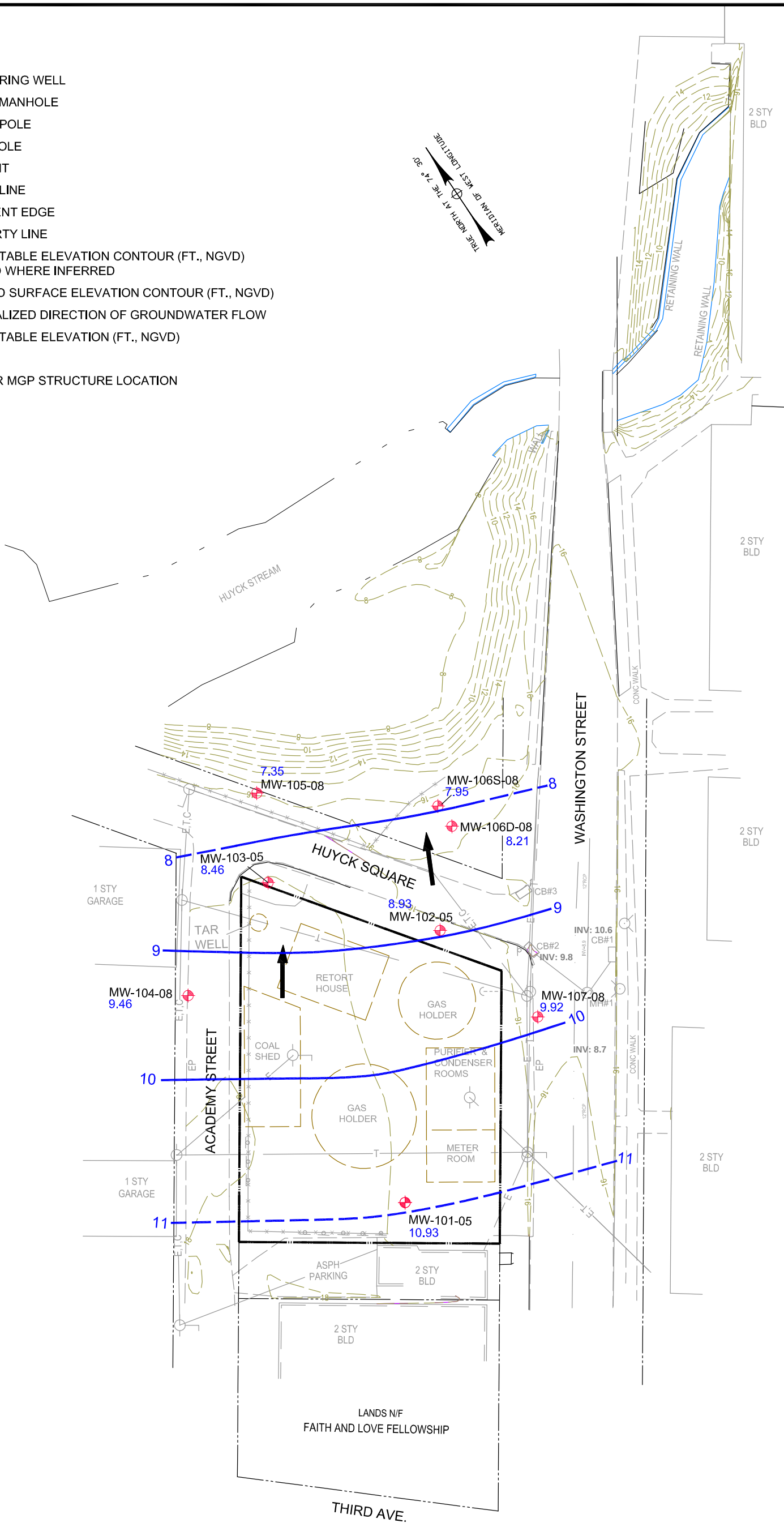


FIGURE 6
WATER TABLE CONTOUR MAP
APRIL 27, 2009

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	06/09	PROJECT NUMBER	136501.103
BROWN AND CALDWELL ASSOCIATES			

0 50 100
SCALE IN FEET

Legend

- Monitoring Well
- Soil Sample
- Ground Surface Elevation Contour (ft above MSL)
- Property Line
- Pavement Edge
- Water
- Sewer Line
- Overhead Lines
- Former MGP Structure Location.

Explanation of terms and abbreviations:
PAHs - Polycyclic Aromatic Hydrocarbons
Bold Value - Indicates one or more constituents are above NYS Part 375 Soil Cleanup Objectives
ND - Not Detected
J - Estimated concentration

Results reported in milligrams per kilogram (mg/kg)

* - Table lists the highest concentration from original and duplicate sample

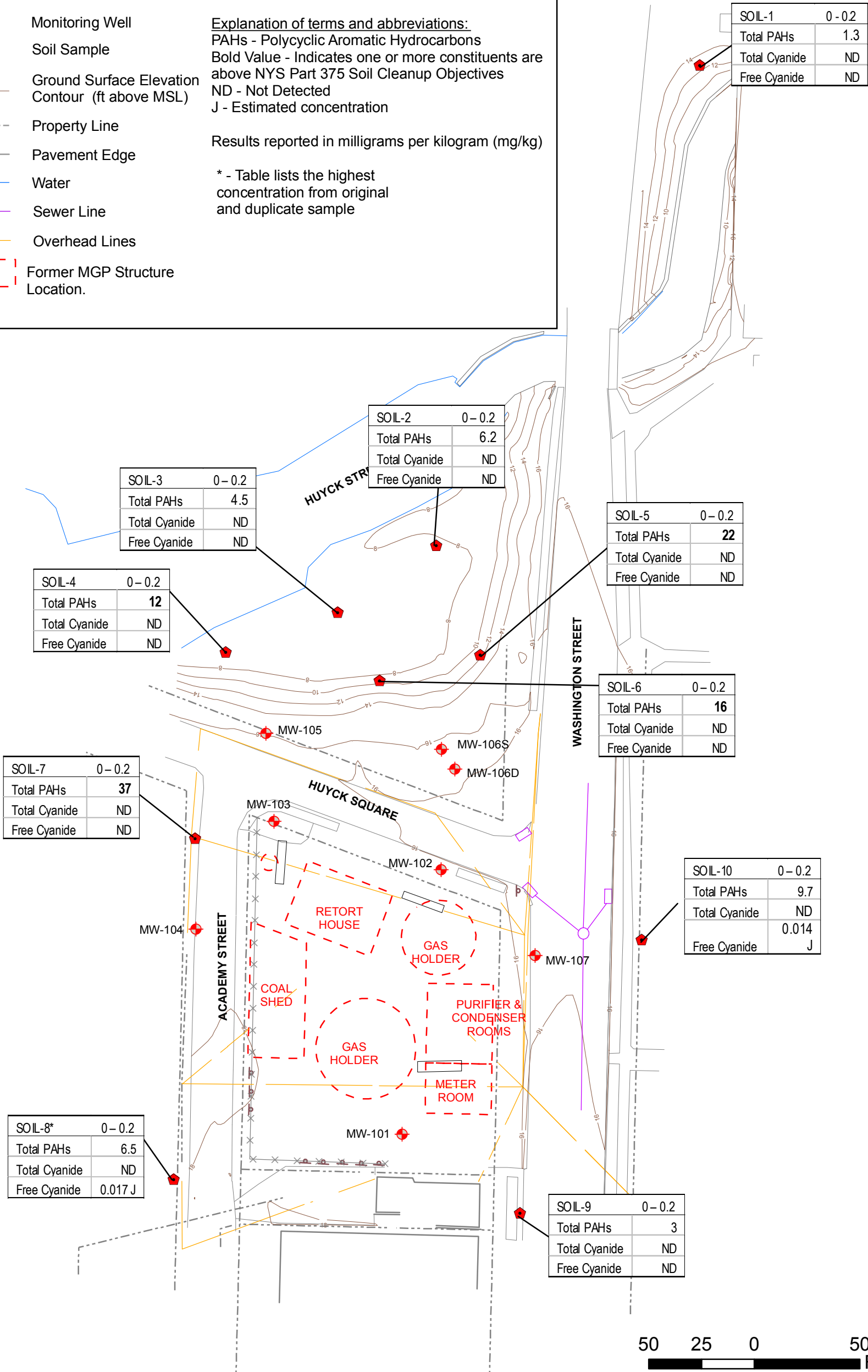


FIGURE 7
PAHs AND CYANIDE CONCENTRATIONS
IN SURFACE SOIL

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	05/29/09	PROJECT NUMBER	136501.103
BROWN AND CALDWELL ASSOCIATES			

Legend

- Monitoring Well

Soil Boring

Soil Sample

Test Pit Sample

Ground Surface Elevation Contour (ft above MSL)

Property Line

Pavement Edge

Water

Sewer Line

Overhead Lines

Former MGP Structure Location.

Explanation of terms and abbreviations:
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
PAHs - Polycyclic Aromatic Hydrocarbons
Bold Value - Indicates one or more constituents are above NYS Part 375 Soil Cleanup Objectives
ND - Not Detected
J - Estimated concentration

Results reported in milligrams per kilogram (mg/kg)

* - Table lists the highest concentration from original and duplicate sample

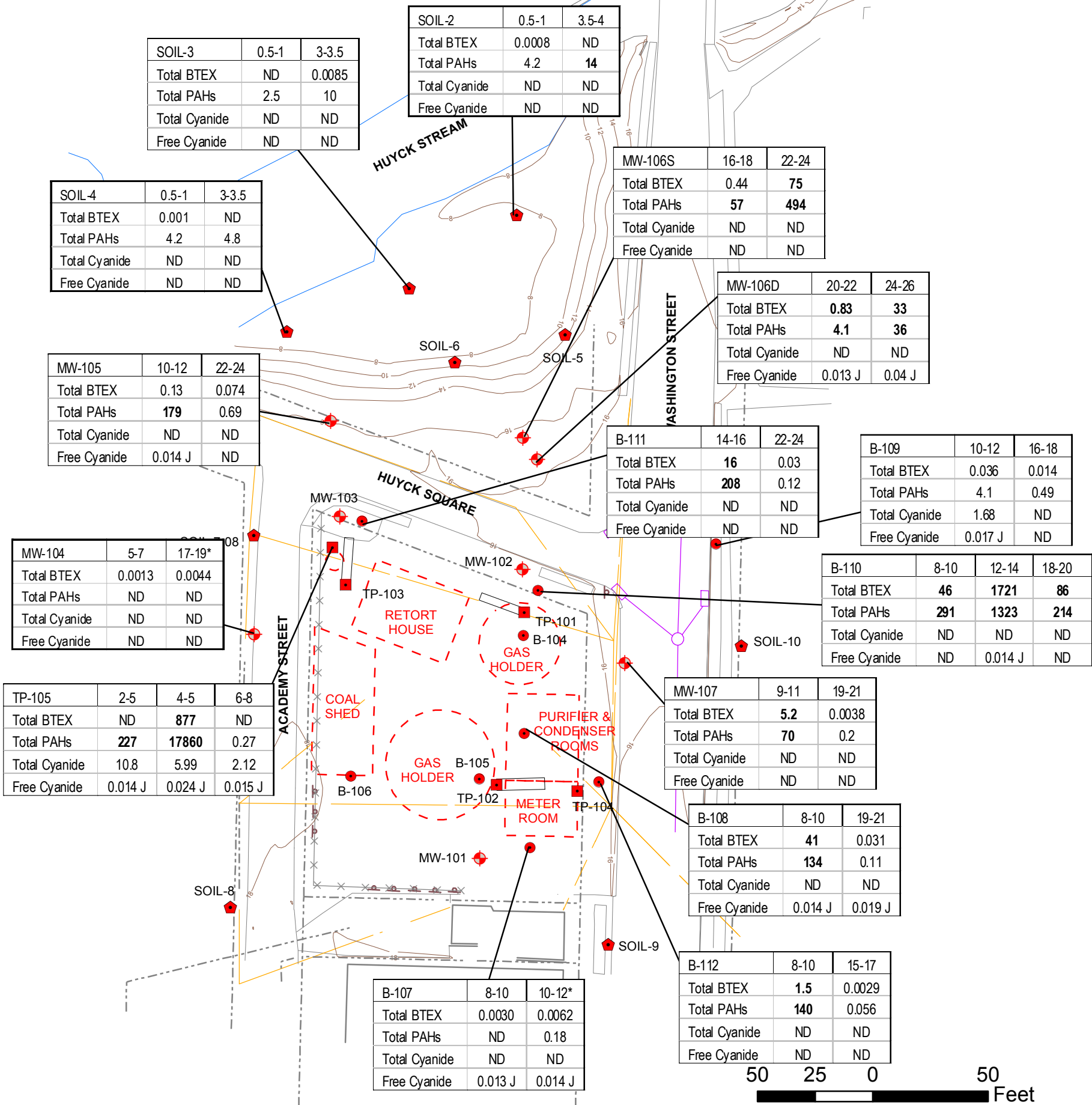


FIGURE 8
BTEX, PAHs, AND CYANIDE
CONCENTRATIONS IN SUBSURFACE
SOIL FROM RI SOIL SAMPLES

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE
05/29/09

PROJECT NUMBER
136501.103

BROWN AND
CALDWELL
ASSOCIATES

Legend

- Monitoring Well
- Sediment Sample
- Ground Surface Elevation Contour (ft above MSL)
- Property Line
- Pavement Edge
- Water
- Sewer Line
- Overhead Lines
- Former MGP Structure Location.

Explanation of terms and abbreviations:
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
PAHs - Polycyclic Aromatic Hydrocarbons
TOC - Total Organic Carbon
ND - Not Detected

Results reported in milligrams per kilogram (mg/kg)

* - Table lists the highest concentration from original and duplicate sample

SED-1	0-0.5
Total BTEX	ND
Total PAHs	15
Total Cyanide	5.48
Free Cyanide	ND
TOC	45000

SED-2 *	0-0.5
Total BTEX	ND
Total PAHs	10
Total Cyanide	ND
Free Cyanide	ND
TOC	26600

SED-3	0-0.5
Total BTEX	ND
Total PAHs	11
Total Cyanide	ND
Free Cyanide	ND
TOC	27300

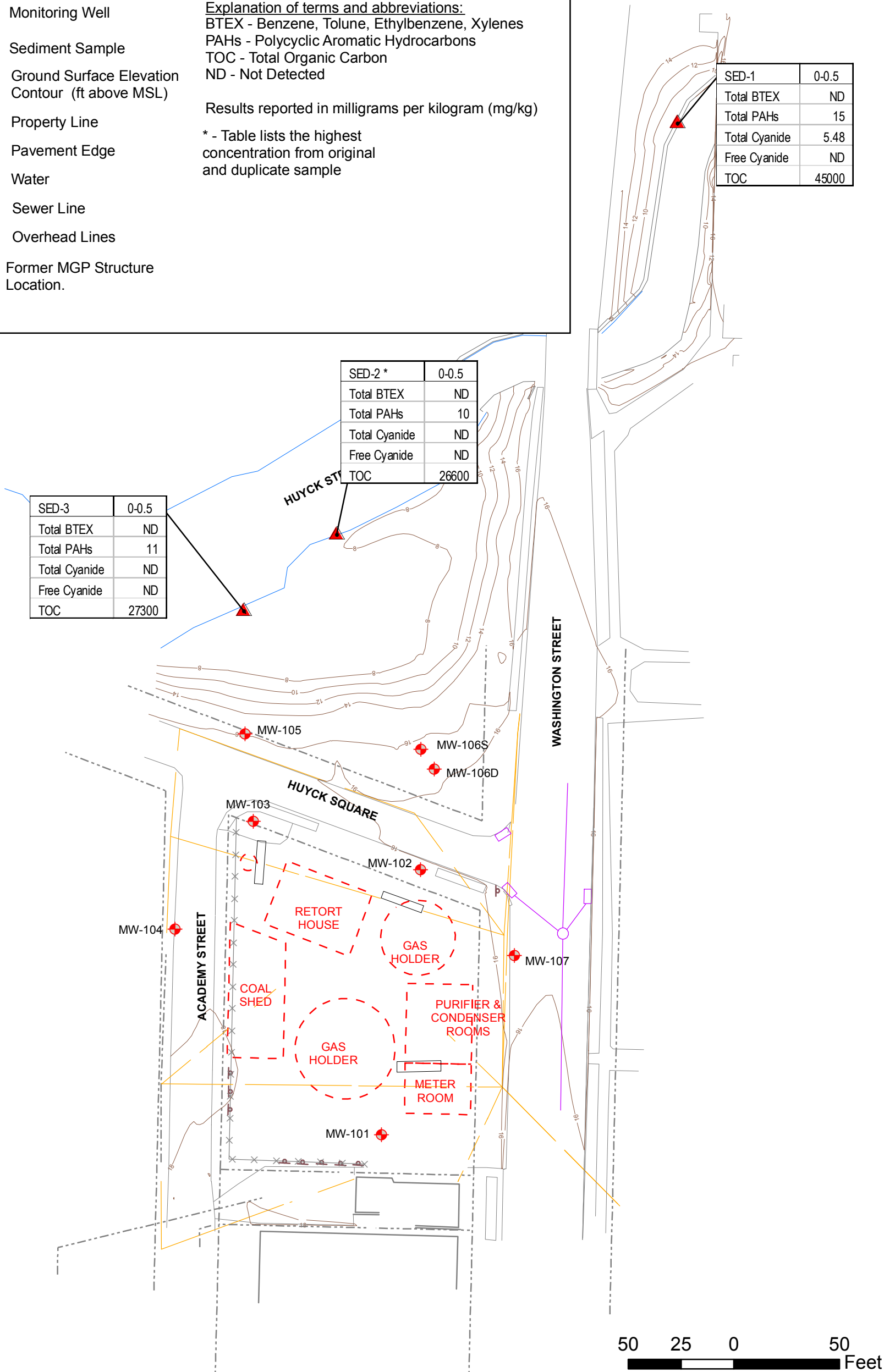


FIGURE 9
BTEX, PAHs, CYANIDE AND
TOC CONCENTRATIONS IN SEDIMENT

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE 05/29/09	PROJECT NUMBER 136501.103
BROWN AND CALDWELL ASSOCIATES	

Legend

-  Monitoring Well
-  Ground Surface Elevation Contour (ft above MSL)
-  Property Line
-  Pavement Edge
-  Water
-  Sewer Line
-  Overhead Lines
-  Former MGP Structure Location.

Explanation of terms and abbreviations:
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
Bold Value - Indicates constituent concentration at or above Class GA Criteria
ND - Not Detected
NS - Not Sampled
J - Estimated concentration
- Monitoring Well not sampled due to NAPL presence
- Specks of sheen and/or NAPL blebs observed on surface of purge water during sampling

Results reported in micrograms per liter (µg/L)

* - Table lists the highest concentration from original and duplicate sample

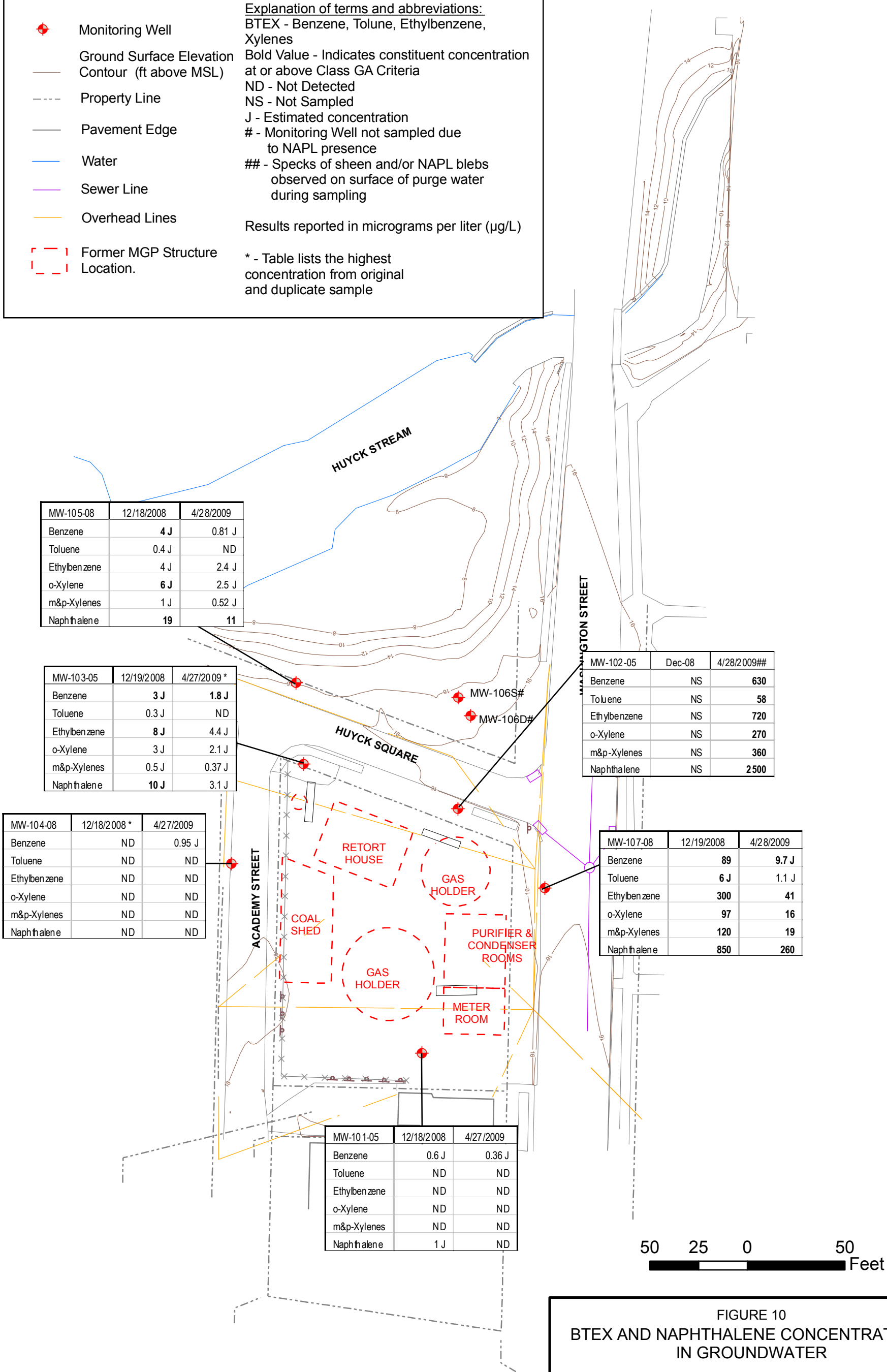


FIGURE 10
BTEX AND NAPHTHALENE CONCENTRATIONS
IN GROUNDWATER

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	PROJECT NUMBER
05/29/09	136501.103

BROWN AND
CALDWELL
ASSOCIATES

Legend

- Monitoring Well
- Ground Surface Elevation Contour (ft above MSL)
- Property Line
- Pavement Edge
- Water
- Sewer Line
- Overhead Lines

Explanation of terms and abbreviations:
Bold Value - Indicates constituent concentration above Class GA Criteria
ND - Not Detected
NS - Not Sampled
J - Estimated concentration
- Monitoring Well not sampled due to NAPL presence

Results reported in micrograms per liter (µg/L)

* - Table lists the highest concentration from original and duplicate sample

Former MGP Structure Location.

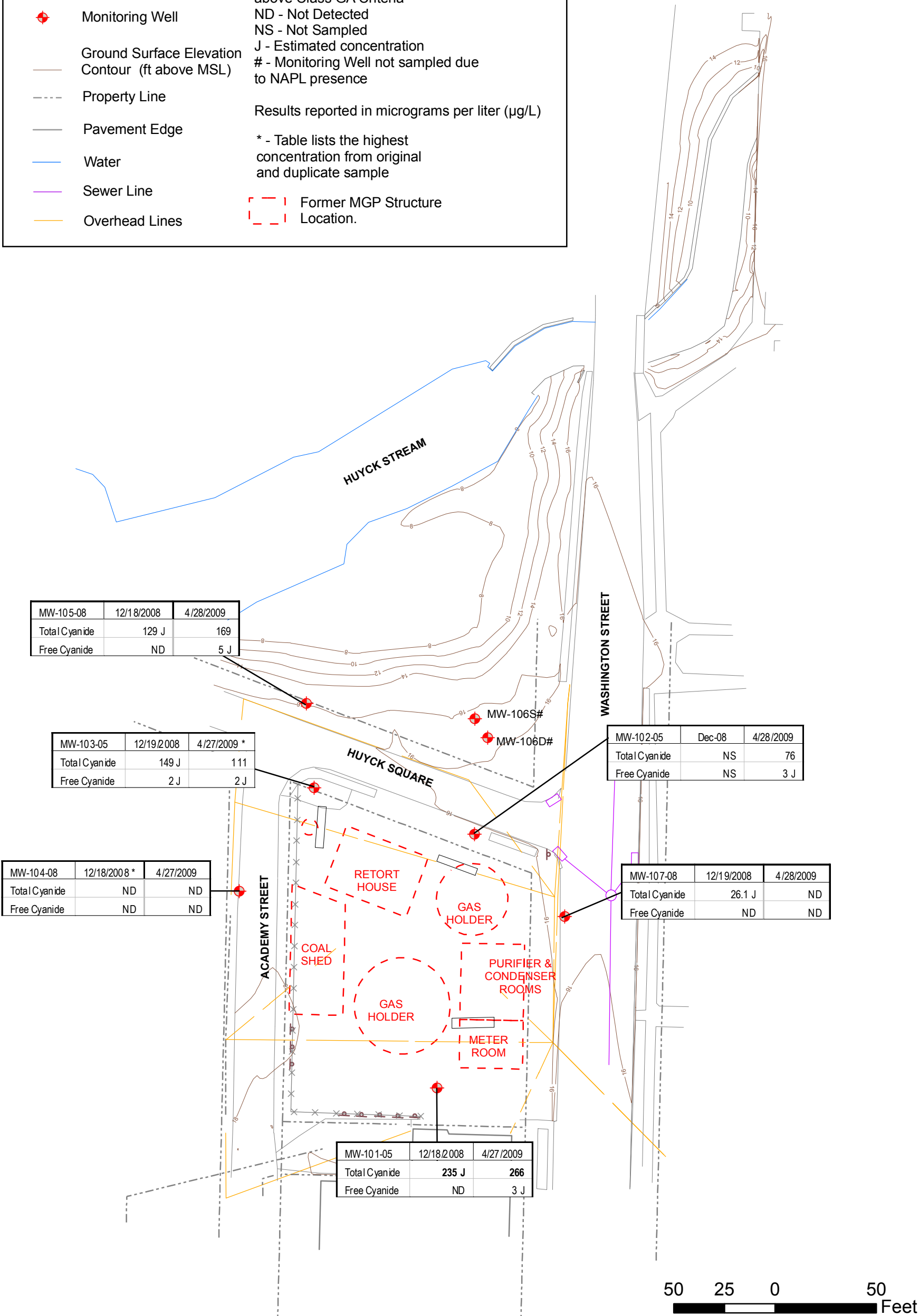


FIGURE 11
CYANIDE CONCENTRATIONS IN
GROUNDWATER

RENSSELAER NON-OWNED
FORMER MGP SITE
RENSSELAER, NEW YORK

DATE	PROJECT NUMBER
05/29/08	136501.103

BROWN AND
CALDWELL
ASSOCIATES

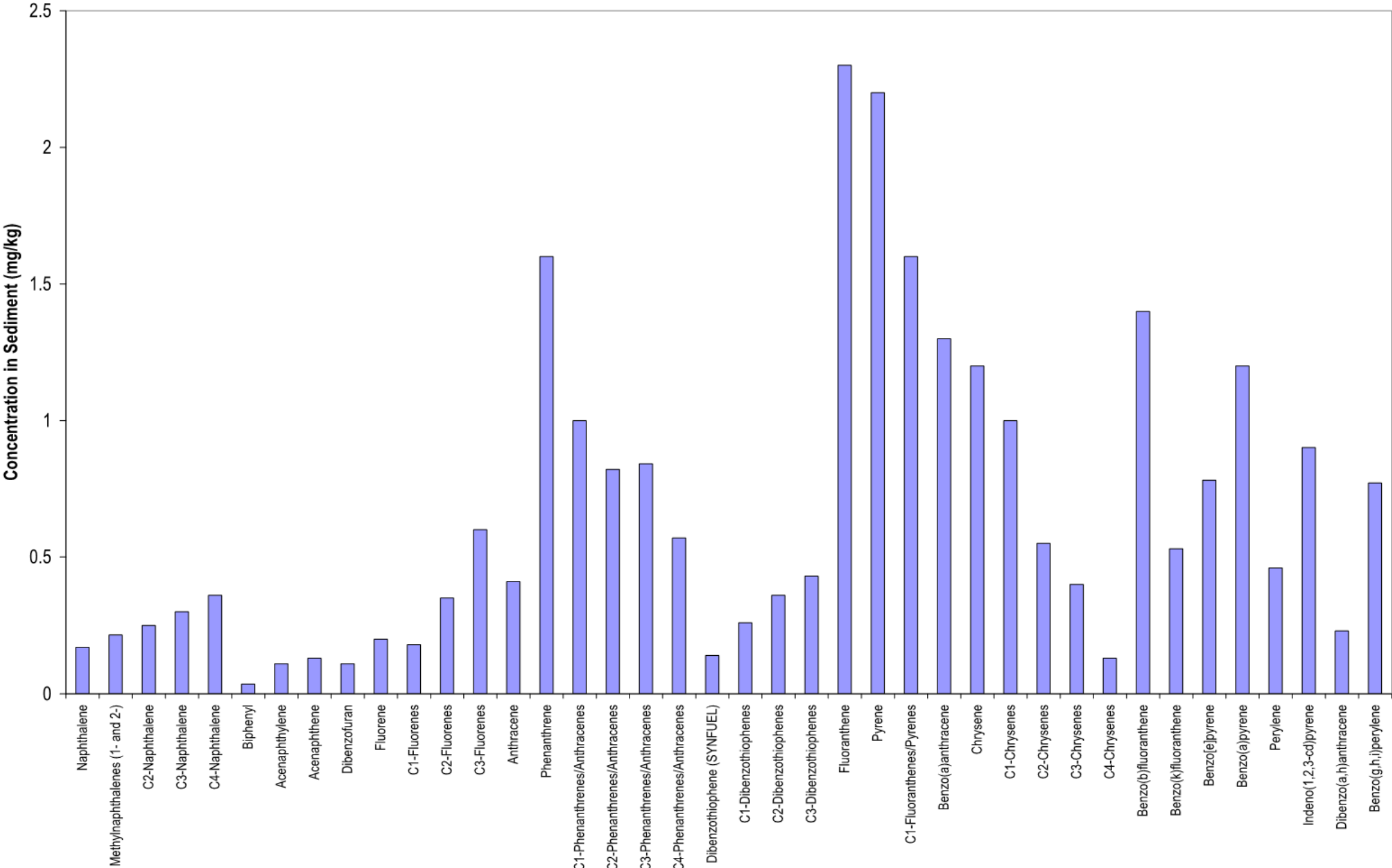


FIGURE 12

PAH HISTOGRAM:SED-1

COHOES FORMER MGP SITE
COHOES, NEW YORK

BROWN AND CALDWELL
ASSOCIATES

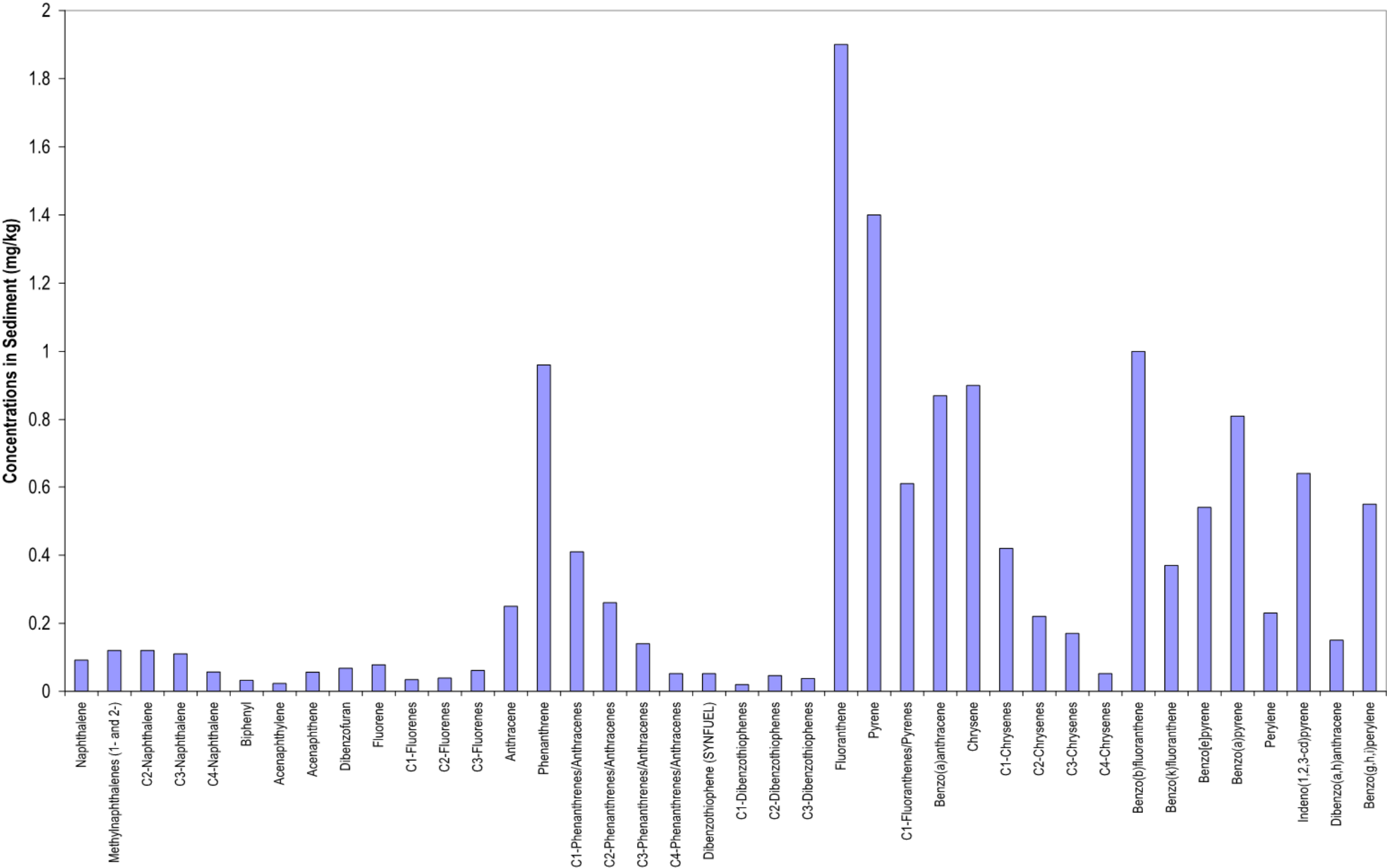


FIGURE 13

PAH HISTOGRAM:SED-2

COHOES FORMER MGP SITE
COHOES, NEW YORK

BROWN AND CALDWELL
ASSOCIATES

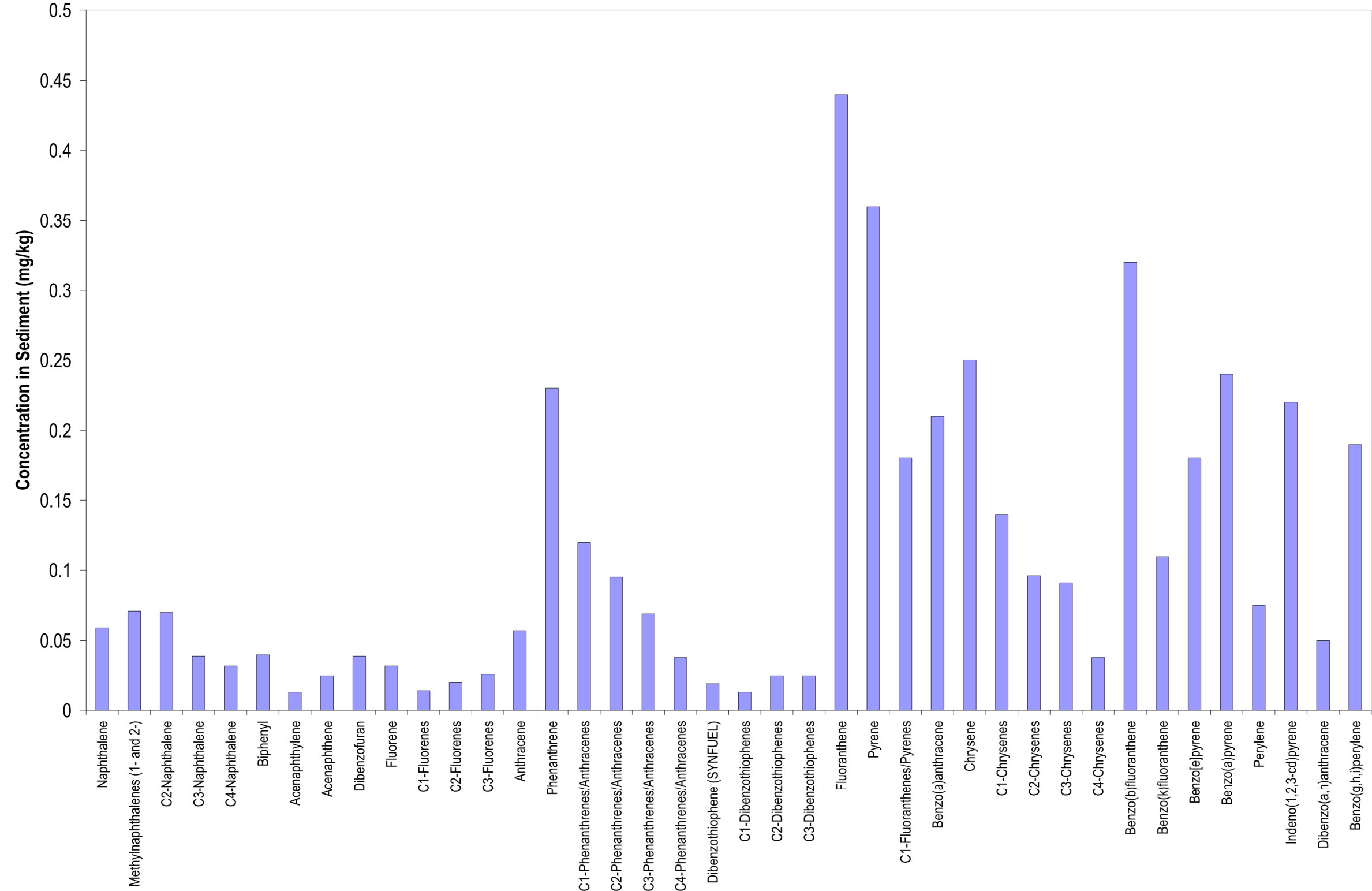


FIGURE 14

PAH HISTOGRAM:SED-2 DUP

COHOES FORMER MGP SITE
COHOES, NEW YORK

BROWN AND CALDWELL
ASSOCIATES

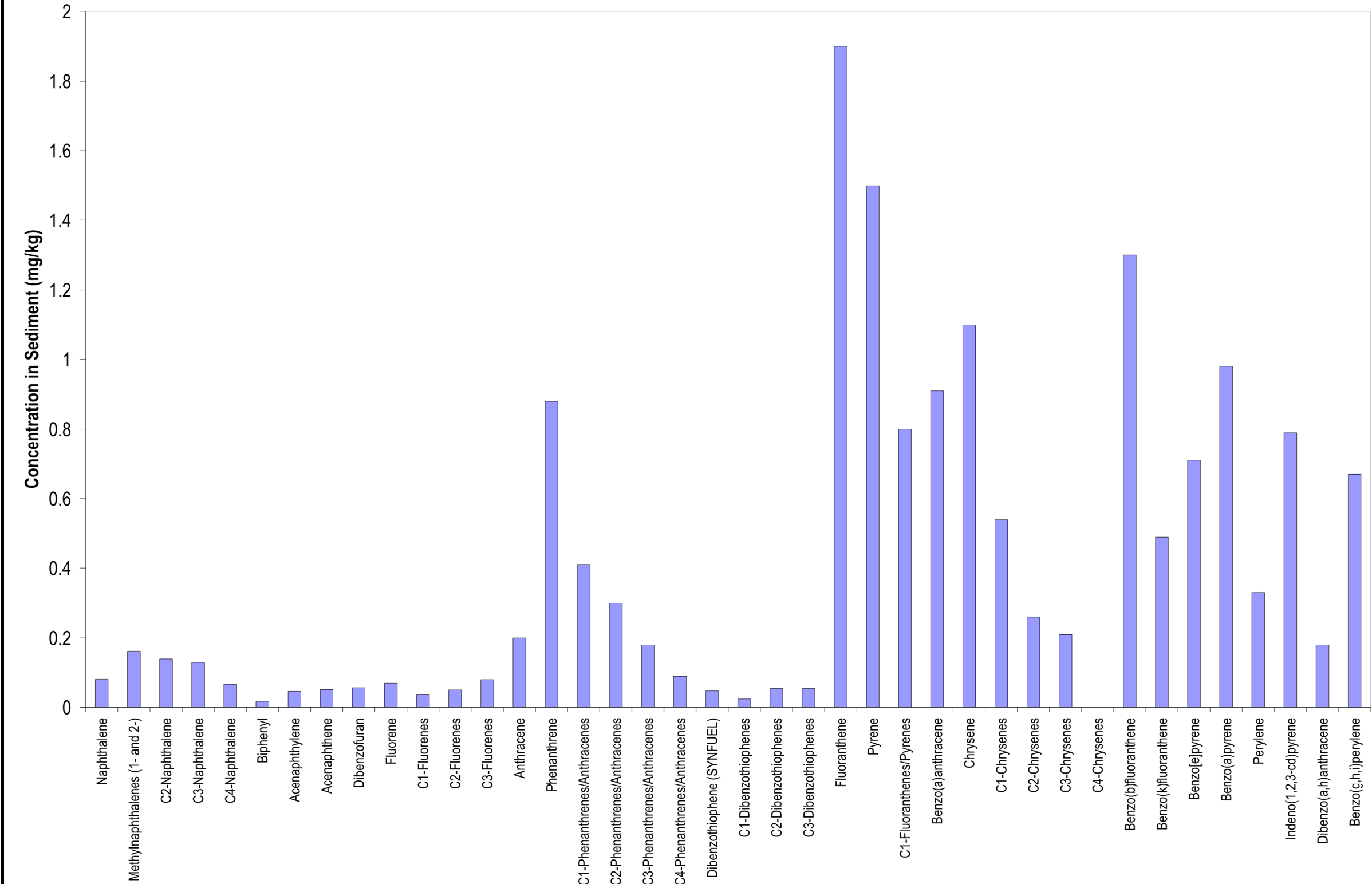


FIGURE 15

PAH HISTOGRAM:SED-3

COHOES FORMER MGP SITE
COHOES, NEW YORK

BROWN AND CALDWELL
ASSOCIATES

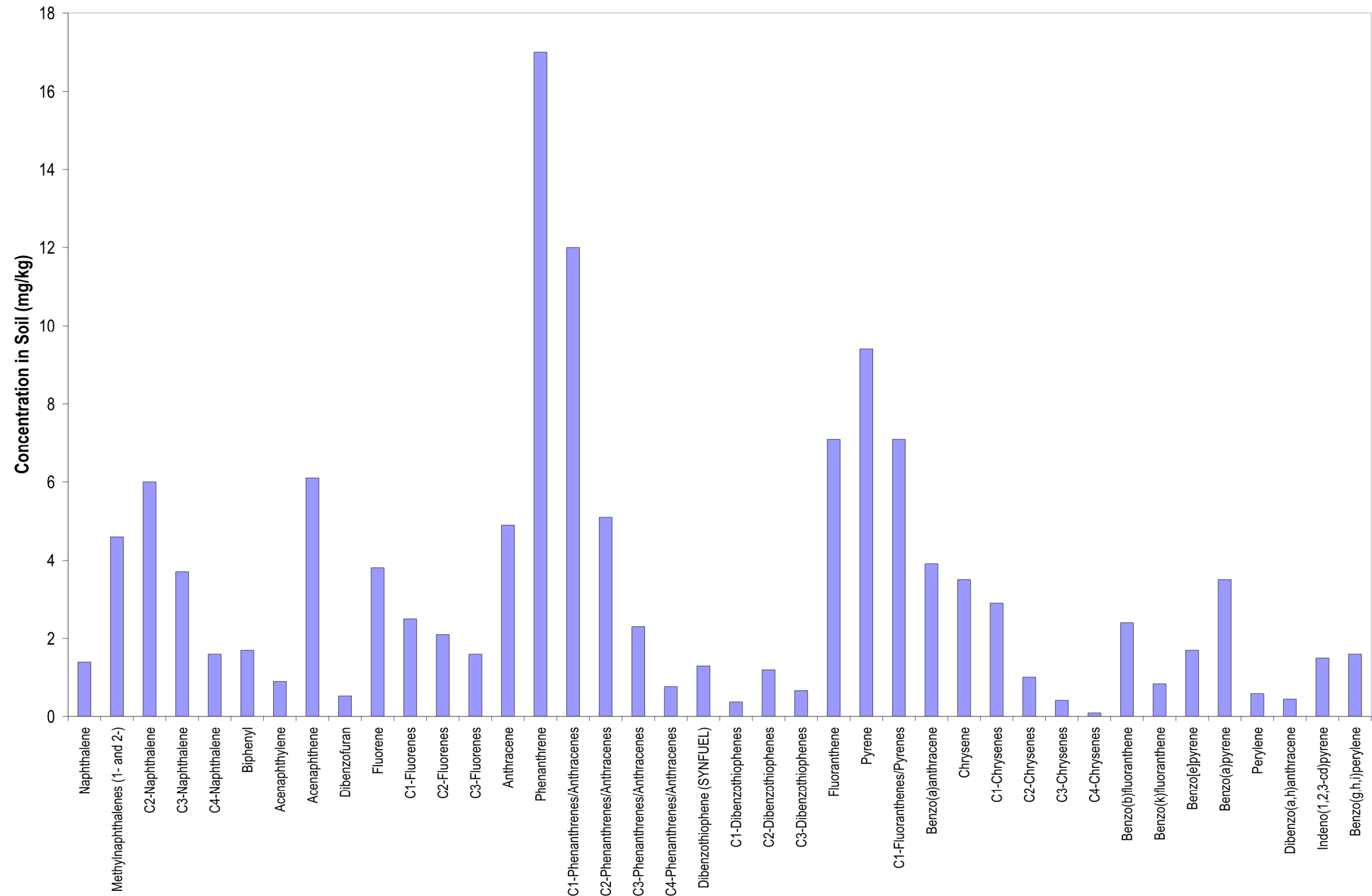


FIGURE 16

PAH HISTOGRAM: MW-107 (9-11)

COHOES FORMER MGP SITE
COHOES, NEW YORK

BROWN AND CALDWELL
ASSOCIATES

APPENDIX A

Boring/Monitoring Well/Test Pit Logs

BROWN AND CALDWELL

BORING LOG

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP		Permit Number:	Boring No.
		Project Number: 136501.103		N/A	B-107-08
		Project Location: Rensselaer, NY			Page 1 of 1
Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CRM/Albany NY	JLM	8.25"	NA	N/A"	22.8 ft.
Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:		
11/22/08 - 11/22/08	ADT	Hammer Type: 140 lbs	N/A		
Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane (NAD83/96) Easting: 695296.9 ft.		
Ritchie Comfort	HSA	CME 55 Track	Vert Datum: NGVD 1988 Northing: 1387524.7 ft.		
			Ground Surface Elev: 16.8 ft. TOC Elev: N/A ft.		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SP GP	Fill Brown-black mf SAND, some mf Gravel, trace Silt, Misc Fill (cinders, ash, coal fragments and brick). Moist	4-7-10-7						0.0	<i>Borehole backfilled with cement/ bentonite grout.</i>
	20	SP GP	Same as above.	7-6-4-3						0.0	
		SP	Sand and Silt Brown mf SAND, little (-) Silt. Well sorted, moist.	3-1-2-2						0.0	
5		SM	Same as above.							0.0	
		SM	Brown-grey SILT, some mf Sand, moist.	2-4-5-5						0.0	
	25	SM	Brown mf SAND, some Silt, little (-) mf Gravel. Saturated.							0.0	
		SM	Same as above.	5-10-21-25						0.0	
10		SP GP	Glacial Till Brown-grey mf SAND, some mf Gravel, trace (+) Silt. Dense, dry.	15-16-25-35						0.0	
		SP GP	Same as above.							0.0	
		SP	Brown mf SAND, little Silt. Well sorted, moist.	17-18-21-28						0.0	
30		SM	Grey mf SAND, some Silt, little (-) mf Gravel. Dense, moist-dry.							0.0	
		SM	Same as above. Dry.	17-19-14-29						0.0	
15			No recovery, cobble in shoe.	50/1"						0.0	
	35	GP	Cf Gravel, little mf Sand (pulverized cobble). Dry	50/4"						0.0	
20		SM	Grey mf SAND, some Silt, little (-) mf Gravel. Dry-moist, dense.	50/4"						0.0	
		SM	Same as above	38-50/3"						0.0	
			Bedrock Weathered fragments of dark grey Shale.								Split spoon refusal @ 22.5'.

BORING LOG

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP		Permit Number:	Boring No.
		Project Number: 136501.103		N/A	B-108-08
		Project Location: Rensselaer, NY			Page 1 of 1
Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CRM/Albany NY	JLM	8.25"	NA	N/A"	23.3 ft.
Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:		
11/22/08 - 11/22/08	ADT	Hammer Type: 140 lbs	N/A		
Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane (NAD83/96)	Easting: 695321.8 ft.	
Ritchie Comfort	HSA	CME 55 Track	Vert Datum: NGVD 1988	Northing: 1387567.6 ft.	
			Ground Surface Elev: 16.7 ft.	TOC Elev: N/A ft.	

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SP	Fill								
		GP	Brown mf SAND, some (-) mf Gravel, trace Silt.	6-5-7						0.0	<i>Borehole backfilled with cement/ bentonite grout.</i>
	20	GP	Dark brown mf SAND, some (-) mf Gravel, little Silt. Moist.	5-3-3-4						0.0	
		GP	Brown-Black, mf SAND, some mf Gravel, trace Silt, Misc fill (ash, cinders, coal fragments, and brick). Brown Silty CLAY lens from 2.6-3.0 ft.	2-2-2-3						101	4.4' - Strong tar-like odor.
5		SP	Same as above.								
		SM	Grey SILT, some (+) mf Sand. Moist.	2-4-10-8						66	6.4' - Strong fuel-like odor.
		SM	Same as above.								
	25	SP	Brown-Black mf SAND, some mf Gravel, little Silt, Misc fill (Cinders and ashes).	5-6-11-12						102	8.3' - Strong fuel-like odor in gravel zone.
		GP	Sand and Gravel								
		SM	Grey mf SAND, some (-) Silt, little (+) mf Gravel.	17-32-51-50/3"						66	8.7' - Moderate hydrocarbon odor.
10		GP	Mf GRAVEL, little mf Sand, trace Silt.								
		SP	Brown cf SAND, little Silt, little (-) f Gravel.								
		SP	Loose, wet.								
	30	GP	Glacial Till								
		SP	Brown-grey mfc SAND, some fmc Gravel, trace (+) Silt. Dense.	12-13-22-23						0.0	
		GP	Same as above.								
15		SP	Grey mf SAND, some (+) Silt, little (-) f Gravel. Dense, dry.	19-26-22-23						0.0	
		SM	Same as above.								
	35		No recovery, cobble in shoe.	50/4"						0.0	
	20	SP	Same as above.	50/4"						0.0	
		SM									
		GP	Grey mf GRAVEL, some (+) mf SAND.	50/3"						0.0	
		SP	Broken cobble.								
			Bedrock	50/3"						0.0	
			Weathered fragments of dark grey Shale.								

BORING LOG

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP			Permit Number:	Boring No.
		Project Number: 136501.103			N/A	B-109-08
		Project Location: Rensselaer, NY				Page 1 of 1
Geologist/Office		Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CRM/Albany NY		JLM	8.25"	NA	N/A"	19.1 ft.
Start/Finish Date		Drilling Contractor:		Sampling: Split Spoon	Development Method:	
11/19/08 - 11/20/08		ADT		Hammer Type: 140 lbs	N/A	
Driller:		Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane (NAD83/96) Easting: 695436.4 ft.		
Ritchie Comfort		HSA	CME 75 184	Vert Datum: NGVD 1988 Northing: 1387591.2 ft.		
				Ground Surface Elev: 15.8 ft. TOC Elev: N/A ft.		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SP	Fill	1-3-3-2						0.0	Borehole backfilled with cement/ bentonite grout.
		SP	Dark brown cf SAND, little (+) Silt, little Organics.								
		SP	Brown cm SAND, some (-) mf Gravel, trace (+) Silt. Moist.	1-1-2-2						0.0	
	20	GP	Brown mf SAND, little (+) Silt, little (-) f Gravel.								
5		GP	Brown-black mf SAND, some (-) mf Gravel, little (-) Silt: Misc fill (some ash and coal fragments).	2-1-1-2						0.0	
		GP	No recovery, same as above in shoe.	1-1-WH-1						0.0	
		GP	Same as above. Wet at 7.3 ft, loose								
	25	GP	Same as above. Loose.	1-WH-1-WH						0.0	
10		GP	Same as above	WH-WH-WH-1						0.0	
		GP									
		SC	Silt and Sand								10.3' - Organic odor.
		CL	Brown-black Clayey SILT, some (+) mf Sand, little (-) Organics. Saturated.	WH-WH-1-4						0.0	
		SC	Same as above.								
		CL	Brown-grey fm SAND, some Clayey Silt, trace (+) Organics. Saturated.	3-9-21-27						0.0	
15	30	CL	Same as above.								
		SC									
		CL	Brown-grey mf SAND, some (+) Clayey Silt, little (+) mf Gravel, fm Gravel lens at 19.2 ft.	12-10-14-15						0.0	
		CL									
			No recovery, shoe lost downhole.	20-50-50/1"						0.0	
											Split spoon refusal at 19'.

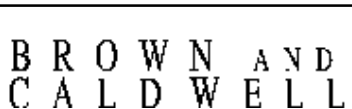
BORING LOG

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP		Permit Number:	Boring No.
		Project Number: 136501.103		N/A	B-110-08
		Project Location: Rensselaer, NY			Page 1 of 1
Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CRM/Albany NY	JLM	8.25"	NA	N/A"	24.3 ft.
Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:		
11/18/08 - 11/18/08	ADT	Hammer Type: 140 lbs	N/A		
Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane (NAD83/96) Easting: 695360.6 ft.		
Ritchie Comfort	HSA	CME 75 184	Vert Datum: NGVD 1988 Northing: 1387616.3 ft.		
			Ground Surface Elev: 16.3 ft. TOC Elev: N/A ft.		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SP	Fill Brown mf SAND, little (+) Silt, little (-) f Gravel. Moist.	2-2-3						0.0	<i>Borehole backfilled with cement/ bentonite grout</i>
		SP	Same as above.	3-3-2-2						0.0	
20											
		SM	Silt and Sand Brown SILT/Clayey SILT, some (+) mf SAND. Moist, becomes wet at 5.2 ft.	1-1-1-1						2.2	
5		ML	Same as above, wet.	1-2-4-4						106	
		SM	Grey-brown cf SAND, some (-) Silt, little (+) mf Gravel.	3-5-6-30						199	
		ML	Same as above.								
25		SM									
		ML									
10		SP	Grey-brown cf SAND, little (+) mf Gravel, little (-) Silt. Saturated.	5-5-6-7						73	
		SP	Grey-brown cf SAND, little mf Gravel, little Silt.	3-4-3-7						366	
30											
		SP	Brown-grey cf SAND, some (-) mf Gravel, little (-) Silt.	5-5-7-5						309	
15		GP	Same as above.	5-32-48-50/4"						335	
		SP	Glacial Till Brown cf SAND, some (+) mf Gravel, little (-) Silt.	19-30-42-50/3"						459	
		GP	Brown cf SAND, some mf Gravel, little Silt.	18-50/3"						1469	
20		GP	Brown-grey mf SAND, little (+) f Gravel, little Silt. Dense, moist. Becomes very dense and grey-light grey at 19 ft.								
		SP	Grey cf SAND, some (+) mf Gravel, trace (+) Silt. Very dense	20-43-50/3"						43	
		GP	Grey cf SAND, some (-) mf Gravel, trace (+) Silt.								
40		GP	Same as above.	80/3"						5.7	
		SP	Bedrock Weathered fragments of dark grey Shale.								Split-spoon refusal at 24.2'.

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP Project Number: 136501.103 Project Location: Rensselaer, NY		Permit Number: N/A		Boring No. B-111-08 Page 1 of 1				
Geologist/Office CRM/Albany NY		Checked By: JLM	Borehole Diameter: 8.25"	Screen Diameter and Type: NA		Slot Size: N/A"	Total Boring Depth (ft) 25.3 ft.			
Start/Finish Date 11/17/08 - 11/17/08		Drilling Contractor: ADT	Sampling: Split Spoon Hammer Type: 140 lbs		Development Method: N/A					
Driller: Ritchie Comfort	Drilling Method: HSA	Drilling Equipment: CME 75 184	Horiz Datum/Proj: NYS Plane (NAD83/96) Vert Datum: NGVD 1988 Ground Surface Elev: 17.3 ft.		Easting: 695313.0 ft. Northing: 1387683.1 ft. TOC Elev: N/A ft.					
Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
	20	SP	Fill Dark brown f SAND, little (+) Silt, Little (-) f Gravel.	2-4-4-3				0.0	Borehole backfilled with cement/bentonite grout.	
		CL ML								
5		SM	Brown SILT & CLAY.	4-6-2-2				0.0		
		SM	Brown SILT/Clayey SILT, some (+) f SAND, trace Organics. Moist, Wet at 5.4'. Same as Above, Wet.	WH-WH-WH-1				0.0		
25		SM	Same as Above.	WH-2-4-6				0.0	8.5' - Slight fuel-like odor.	
		SP	Brown cf SAND, little mf Gravel, little (-) Silt. Wet/Saturated.					0.0		
10		SP	Grey-brown cf SAND, little (+) mf Gravel, little (-) Silt. Saturated at 10.2'.	5-10-3-4				0.0	10' - Slight fuel-like odor.	
		GP	Grey cf SAND, some (-) cf Gravel. Saturated.	2-2-5-3				7.4		
15		SP GP	Same as Above.	2-3-2-2				120	13.5' - NAPL coating on gravel grains, moderate tar-like odor throughout. 14.2' - NAPL coating coarser sand grains. 15.2' - NAPL coating coarser sand grains. Sheen observed on soils at 16.7' and 17.0'. 17' - Slight tar-like odor. 18.7' - NAPL blebs on coarser material. 18.9' - Moderate tar-like odor.	
		SP GP	Same as above. Saturated. Loose	2-4-8-13				8.4		
35		SP GP	Glacial Till Grey-brown cm SAND and mf GRAVEL, little Silt.	14-12-24-34				17.0		
		SP GP	Brown-orange mf SAND, little mf Gravel, little (-) Silt.					5.4		
20		SP GP	Brown cm Gravel, some cm Sand.	30-50/4"				0.2		
		GP	Tan-brwn mf SAND, some f Gravel, trace Silt.					0.2		
40		GP	Same as Above	18-38-50/4"				0		
		SP	Same as Above. More Dense.							
25		GP	Same as Above. Grey	50/4"				0		
		SP	Grey mf SAND, some (-) Silt, little (-) mf Gravel. Dense.	50/3"						
		GP	Same as Above.							
		SM ML SM ML	Bedrock Weathered fragments of dark grey Shale.							

BORING LOG

		Project Name: Rensselaer Non-Owned Former MGP Project Number: 136501.103 Project Location: Rensselaer, NY			Permit Number: N/A		Boring No. B-112-08 Page 1 of 1	
Geologist/Office CRM/Albany NY		Checked By: JLM	Borehole Diameter: 8.25"	Screen Diameter and Type: NA		Slot Size: N/A"	Total Boring Depth (ft) 19.1 ft.	
Start/Finish Date 11/25/08 - 11/25/08		Drilling Contractor: ADT	Sampling: Split Spoon Hammer Type: 140 lbs		Development Method: N/A			
Driller: Ritchie Comfort	Drilling Method: HSA	Drilling Equipment: CME 55 Track	Horiz Datum/Proj: NYS Plane (NAD83/96) Vert Datum: NGVD 1988 Ground Surface Elev: 16.1 ft.			Easting: 695337.5 ft. Northing: 1387532.3 ft. TOC Elev: N/A ft.		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
0 5 10 15 20 25 30 35	20	SM	Fill Black-brwn cm SAND, some (-) mf Gravel.	3-1-2					0.0	Borehole backfilled with cement/ bentonite grout.	
		ML	Moist.	2-3-4-4					0.0		
		ML	Brown mf SAND, some (-) Silt. Compact, moist.	2-1-1-1					0.0		
		CL							0.0		
	25	ML	Silt and Sand Brown Clayey SILT, little (+) f SAND.	2-1-1-1					0.0		
		CL	Wet, firm, layered/varved.						0.0		
		ML	Same as above.	1-2-2-3					0.0		
		CL	Black-grey Clayey SILT, little (+) f Sand.						0.0		
	30	GP	Soft, wet.	4-5-13-26					102		
		SP	Grey-brown mf SAND, some (-) mf Gravel, little (+) Silt. Dense.						0.0		
		GP	Same as above.						0.0		
		SP									
35	GP	Glacial Till Brown-grey mf SAND, some (-) mf Gravel, little Silt. Dense, moist.	44-50/1"	22							
	SP	Same as above.	50/4"	0.0							
	GP	No recovery.	35-40-50/1"	0.0							
	SP		25-27-42-50/3"	0.0							
										19.1' - Split spoon and auger refusal on presumed cobble within till.	

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: Rensselaer Non-Owned Former MGP Project Number: 136501.103 Project Location: Rensselaer, NY	Permit Number: N/A	Well No. MW-104-08 Page 1 of 1		
Geologist/Office CRM/Albany NY	Checked By: JLM	Borehole Diameter: 8.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.02"	Total Boring Depth (ft) 25.1 ft.
Start/Finish Date 12/1/08 - 12/2/08	Drilling Contractor: ADT	Sampling: Split Spoon Hammer Type: 140 lbs	Development Method: Surged and Purged with Whale Pump		
Driller: Ritchie Comfort	Drilling Method: HSA	Drilling Equipment: CME 55 Track	Horiz Datum/Proj: NYS Plane (NAD83/96) Easting: 695247.1 ft. Vert Datum: NGVD 1988 Northing: 1387667.3 ft. Ground Surface Elev: 17.4 ft. TOC Elev: 17.1 ft.		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Well Traffic Rated Vault Box		
			Fill								
	20	SP	Black-brown cf SAND, some (-) mf Gravel. Moist.	4-4-3-3						0.0	0-0.5' - Concrete Pad.
		SP									0.5-4' - Bentonite Seal.
		ML	Brown cf SAND, little (-) Silt.	3-2-1-1						1.7	
		CL	Brown Clayey SILT, little (+) mf Sand, little (-) trace f Gravel (pieces of brick). Moist.								
5		SP	Brown cf SAND, little (+) cf Gravel, little (-) Silt, pieces of brick at 3.8 ft. Wet at 4.0 ft.	1-1-1-1						0.0	5.1' - Slight organic odor.
		SP	Same as above.								
	25	SM		WH-WH-2-4						0.0	
		SP	Sand and Silt								
		SM	Black mf SAND, some Clayey Silt. Wet.								
		SP	Same as above, grey, moist.								
		SM	Grey cf SAND, some (-) Silt. Loose, saturated.	1-3-5-7						0.0	9-11' - Slight hydrocarbon odor.
10		SP	Grey-brown cf SAND, little (+) Silt, little (-) mf Gravel. Firm, layered/varved, moist.	24-42-50/1"						0.0	4-16' - #1 Filter Sand.
		GP	Grey cf SAND, little (+) mf Gravel, little (-) Silt. Loose, wet.								6-16' - 0.020" Slotted PVC Screen.
	30		Glacial Till								
		SP	Grey cm GRAVEL, little (+) cf Sand, pieces of cobble. Saturated	39-30-50/3"						0.0	13-15' - Sheen observed on outside of split spoon.
15		GP	Brown cf SAND, some cf Gravel, trace Silt. Dense, dry.	28-48-50/4"						0.0	
		GP	Same as above. Brown-grey, moist.								
	35	SP	Grey mf SAND, little (+) mf Gravel, little (-) Silt. Dense, moist.	25-27-33-44						0.0	
			No recovery.	31-24-31-32						0.0	16-25.1' - Bentonite Backfill.
20											
		SP	Same as above.	13-14-24-23						0.0	
	40										
		SP	Grey mf SAND, some (-) Silt, little (+) mf Gravel. Dense, moist.	7-11-17-36						0.0	
25		SM		50/1"						0.0	25.1' - Split spoon refusal on presumed bedrock.
			No recovery.								

MONITORING WELL LOG

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP Project Number: 136501.103 Project Location: Rensselaer, NY		Permit Number: N/A	Well No. MW-105-08 Page 1 of 1
Geologist/Office CRM/Albany NY	Checked By: JLM	Borehole Diameter: 8.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.02"	Total Boring Depth (ft) 22.8 ft.
Start/Finish Date 11/24/08 - 11/24/08		Drilling Contractor: ADT	Sampling: Split Spoon Hammer Type: 140 lbs	Development Method: Surged and Purged with Whale Pump	
Driller: Ritchie Comfort	Drilling Method: HSA	Drilling Equipment: CME 55 Track	Horiz Datum/Proj: NYS Plane (NAD83/96) Easting: 695325.3 ft. Vert Datum: NGVD 1988 Northing: 1387726.8 ft. Ground Surface Elev: 16.3 ft. TOC Elev: 19.1 ft.		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Well		
									Stick Up		
		SP	Fill	1-1-1-2						0.0	0-0.5' - Concrete Pad.
		SM	Dark brown mf SAND, some (-) Silt, little (+) Organics, trace (+) f Gravel. Moist, fill in shoe.								
	20	SP	Brown-dark brown mf SAND, some (-) Silt, little (+) organics.	2-2-2-2						0.0	0.5-5' - Cement/Bentonite Grout.
		SM									
		GP	Black-brown-grey cm SAND, some (-) f Gravel, Misc fill (coal fragments, ash cinders and brick). Moist.	3-2-2-3						0.0	
5		GP	Same as above.								
		SP	Sand and Silt	1-1-1-2						0.0	5.0-6.0' - Bentonite Seal
		SM	Brown mf SAND, little (+) Silt, little (-) organics. Moist.								
	25	SM	Same as above.							0.0	
		SM	Brown mf SAND, some Silt/Clayey Silt, trace organics. Wet, saturated at 9.3 ft.	WH-WH-2-2						0.0	
10		SP	Same as above.	1-4-4-2						16.4	
		SM	Grey-brown cf SAND, some (-) Silt, little (-) f Gravel. Saturated.								10.9-11.3' - Sheen observed on soils.
		SM	Grey-brown mf SAND, some (-) Silt, little cm Gravel. Saturated.	1-4-4-5						0.0	6-16' - #1 Filter Sand.
30		SM									11.1' - Sporadic blebs of NAPL and sheen observed on coarse sand and gravel, moderate tar-like odor.
		SP	Same as above.	3-5-10-10						0.0	8-16' - 0.020" Slotted PVC Screen.
15		SM	Brown-grey cf SAND, little (+) mf Gravel, little (-) Silt. Stiff, moist.								15' - Slight tar-like odor.
		SP	Grey Clayey SILT, some FSAND. Color change to brown at 16.5 ft. Saturated.	11-5-12-17						0.0	16-17' - 1" PVC Sump w/ bentonite in annular space between borehole and sump.
		SM	Brown mf SAND, little (+) Silt, little mf Gravel.	10-4-4-4						0.0	17-22.5' - Bentonite Backfill.
35		SP	Brown mf SAND, little (+) mf Gravel, little Silt. Saturated and loose, possible sluff.								
		SM									
20		GP	Same as above.	2-2-4-5						0.0	20.4' - Very slight hydrocarbon odor.
		GP	Brown-black cf SAND, some mf Gravel, trace Silt. Saturated.								
		SP	Grey cm SAND, some (-) mf Gravel.	26-50/3"						0.0	22.8' - Split spoon refusal.
		GP	Coarse, Saturated.								
			Bedrock								
			Weathered fragments of dark grey Shale.								

MONITORING WELL LOG

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP Project Number: 136501.103 Project Location: Rensselaer, NY		Permit Number: N/A	Well No. MW-106S-08 Page 1 of 1
Geologist/Office CRM/Albany NY	Checked By: JLM	Borehole Diameter: 8.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.02"	Total Boring Depth (ft) 25.6 ft.
Start/Finish Date 11/18/08 - 11/19/08	Drilling Contractor: ADT	Sampling: Split Spoon Hammer Type: 140 lbs		Development Method: Surged and Evacuated with disposable Bailer	
Driller: Ritchie Comfort	Drilling Method: HSA	Drilling Equipment: CME 75 184	Horiz Datum/Proj: NYS Plane (NAD83/96) Easting: 695391.1 ft. Vert Datum: NGVD 1988 Northing: 1387675.3 ft. Ground Surface Elev: 16.5 ft. TOC Elev: 19.1 ft.		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Well		
									Stick Up		
		SP	Fill Grey-brown mf SAND, little (+) Silt, little (-) mf Gravel. Brick in shoe.	2-4-3-5						0.0	0-0.5' - Concrete pad.
		SP	Same as above. Brown.	6-4-3-3						0.0	0.5-5' - Cement/Bentonite grout.
20		SP	Black cf SAND, some (-) mf Gravel, Misc fill (cinders, ash and coal fragments).							0.0	
		GP	No recovery, same as above in shoe.	2-2-1-1						0.0	
5		SP									
		GP									
		SP	Same as above. Moist.	2-1-1-1						0.0	5-7' - Bentonite Seal.
		GP									
25			No recovery.	1-WH-WH-1						0.0	
10											
		SP	Same as above.	1-1-1-WH						0.0	7-18' - #1 Filter Sand.
		GP									
		ML	Silt and Sand Black Clayey SILT, some (-) mf Sand, little Organics, trace f Gravel. Wet.	WH						0.0	8-18' - 0.020" Slotted PVC Screen.
		CL	Black cf SAND, some Clayey SILT, little (+) Organics. Saturated.							0.0	12' - Organic odor.
30		SP									
		SM									
15		ML	Black Clayey SILT, some (-) mf SAND, little (-) Organics. Saturated.	WH-WH-WH-2						0.0	14' - Slight organic odor.
		CL									
		SP	Black mf SAND, some Clayey Silt, trace organics. Saturated.	6-27-9-19						32.6	16-18' - Sheen observed on soils and in water in spoon, tar-like odor.
		SM									
35		SP	Black cf SAND, some (-) mf Gravel, little (+) Silt.	6-27-9-9						15.6	18.25' - Sheen observed on soils, tar-like odor.
		GP									
20		GP	Glacial Till Weathered shale fragments.	8-11-13-11						19.6	18-19' - 1" PVC Sump w/ bentonite in annular space between borehole and sump.
		SP	Black cf SAND, some (-) mf Gravel, little (-) Silt.								20' - Tar-like odor, very slight sheen.
		GP									
		SP	Black cf SAND, some mf Gravel, little (+) Silt.	5-7-14-14						111	
		GP									
40		GP	Black mf GRAVEL, some (-) cf Sand.								22.9-25.6' - Coarse grains soils partially saturated with NAPL, tar-like odor.
		SP	Grey-black cf SAND, some (-) mf Gravel, little (-) Silt.	7-19-90-100/1"						272	19-25.6' - Bentonite backfill.
25		SP									24' - NAPL blebs on outside of spoon.
		GP									25.6' - Split spoon refusal on presumed bedrock. Shoe lost downhole.

Note: Lower 10' of drill rods coated with black-red NAPL/tar when removed from borehole.

MONITORING WELL LOG

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP		Permit Number:	Well No.
		Project Number: 136501.103		N/A	MW-106D-08
		Project Location: Rensselaer, NY			Page 1 of 1
Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
CRM/Albany NY	JLM	8.25"	2" PVC	0.02"	25.4 ft.
Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:		
11/20/08 - 11/21/08	ADT	Hammer Type: 140 lbs	Surged and Evacuated with disposable Bailer		
Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane (NAD83/96)	Easting: 695391.2 ft.	
Ritchie Comfort	HSA	CME 75 184	Vert Datum: NGVD 1988	Northing: 1387664.0 ft.	
			Ground Surface Elev: 16.2 ft.	TOC Elev: 19.0 ft.	

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Well		
									Stick Up		
		SM	Fill	2-2-2-3						0.0	0-0.5' - Concrete pad.
			Brown mf SAND, some (-) Silt, little (-) mf Gravel and Organics.								
	20	SP GP	Black-brown mf SAND, some (+) mf Gravel, little (-) Silt: Misc fill (cinders, brick and coal fragments). Dry.	3-3-5-50						0.0	
		SP GP	Same as above, dry.	1-1-2-1						0.0	
5		SP GP	Same as above, moist.	1-1-1-1						0.0	0.5-17' - Cement/bentonite grout.
	25	GP SP	Black-brown mf GRAVEL, some (-) cmf Sand, Misc fill (cinders and coal fragments). Saturated.	1-WH-1-WH						0.0	
10		GP SP	Same as above.	1						0.0	10.2' - Slight organic odor.
		SM SC	Sand and Silt								
		SM SC	Grey-black mf SAND, some Clayey Silt, trace (+) Organics.	1-WH-1-WH						0.0	
30		SM SC	Same as above, wood fragments at 12.1 ft.								12.5' - Slight tar-like and organic odor.
		SM SC	Same as above.	2-3-9-21						26	14.6' - Abundant sheen, red-black NAPL blebs.
15		SM SC	Black mf SAND, some (-) Silt, trace mf Gravel.								
		SP	Brown-grey mottled mf SAND, little Silt, little (-) mf Gravel. Moist.	7-11-15-18						2.6	16' - Moderate tar-like odor.
	35		No recovery, cobble in shoe. Saturated.	25-24-29-57						1.3	17-19' - Bentonite Seal.
											18' - Sheen on cobble.
20		SP GP	Glacial Till	20-29-23-25						45.6	20' - Moderate to strong tar-like odor.
			Dark brown cm SAND, some (-) mf Gravel, little Silt. Dense.								19-24' - 0.020" Slotted PVC Screen and #1 Filter Sand.
		SP GP	Same as above.	NA						45	22' - Sheen, tar-like odor.
	40	SP GP	Black-grey mf SAND, some mf Gravel, little (-) Silt.								
		GP GP	Black-brown mf GRAVEL, some mf Sand, trace Silt. Partially decomposed bedrock (silt and clay infilling).	23-68-100/4"						128	24' - Abundant sheen with occasional red-brown NAPL blebs.
25		SP									24-25' - 1' PVC sump with bentonite in annular space between borehole and sump.
											Note: Black viscous NAPL/tar coating disposable bailer during development activities

BROWN AND CALDWELL		Project Name: Rensselaer Non-Owned Former MGP Project Number: 136501.103 Project Location: Rensselaer, NY		Permit Number: N/A	Well No. MW-107-08 Page 1 of 1
Geologist/Office CRM/Albany NY		Checked By: JLM	Borehole Diameter: 8.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.02" Total Boring Depth (ft) 20.3 ft.
Start/Finish Date 12/2/08 - 12/3/08		Drilling Contractor: ADT	Sampling: Split Spoon Hammer Type: 140 lbs		Development Method: Surged and Purged with Whale Pump
Driller: Ritchie Comfort		Drilling Method: HSA	Drilling Equipment: CME 55 Track	Horiz Datum/Proj: NYS Plane (NAD83/96) Easting: 695374.9 ft. Vert Datum: NGVD 1988 Northing: 1387569.2 ft. Ground Surface Elev: 15.8 ft. TOC Elev: 15.3 ft.	

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
								Traffic Rated Vault Box		
		SP	Fill	2-1-1					0.0	0-0.5' - Concrete pad.
		ML	Black-grey mf SAND. Well sorted, moist.						0.0	0.5-4' - Bentonite seal.
	20	CL	Silt and Sand	2-1-1-1					0.0	
		SM	Dark grey Clayey SILT, little mf Sand. Soft, moist.						0.0	5.2' - Very slight hydrocarbon odor.
5		SC	Grey mf SAND, some (+) Clayey Silt, trace f Gravel. Soft, moist.	1-1-1-1					0.0	4-15' - #1 Filter sand.
		SM	Same as above.						0.0	7-9' - Slight fuel-like odor.
		SP	Brown mf SAND, little (+) Silt. Loose, saturated.	1-1-3-3					0.0	5-15' - 0.020" Slotted PVC Screen.
	25	GP	Brown-grey cf SAND, some (+) cm Gravel, little Silt. Saturated.						3.6	9-11' - Abundant sheen observed on coarser grained soils, sparse blebs of black-red NAPL. Moderate tar-like odor.
10		SP	Grey-brown cf SAND, little Silt, little (-) mf Gravel. Loose, saturated.	1-1-4-4					5.9	11-13' - Strong fuel-like/hydrocarbon odor, occasional slight sheen.
		SP	Same as above. Saturated.	2-2-4-18					0.1	13-15' - Slight hydrocarbon odor.
	30	SW	Brown cf SAND, some cf Gravel, trace (-) Silt. Poorly sorted.	12-26-21-22					0.0	15-16' - 1' PVC Sump with bentonite in annular space between borehole and sump.
15		GP	Glacial Till	16-24-40-38					0.0	16-20.3' - Bentonite Backfill.
		SP	Brown-grey cf SAND, some (+) cf Gravel, little Silt. Dense, moist. Color change to grey at 15.7 ft.	15-35-32-50/2"					0.0	
	35	SP	Grey mf SAND, little (+) mf Gravel, little Silt. Dense and moist.						0.0	
20		GP	Grey mf SAND, some (-) mf Gravel, little Silt. Dense, moist. Weathered Shale fragments in shoe.	20-29-50/3"					0.0	20.3' - Split spoon refusal.

Note: Slight amount of NAPL staining observed on whale pump and discharge tubing during development activities

TEST PIT LOG TP-105-08

SITE	Rensselaer Non-Owned Former MGP Site	TEST PIT NUMBER	TP-105-08 (previously designated TP-106- 08 in RI Work Plan)
PROJECT NUMBER	136501.101	BC REP.	Frank Williams
LOCATION	NW corner of site – approx. location of tar well shown on Sanborn map.	CONTRACTOR	Aquifer Drilling and Testing, Inc.
DATE	11/22/08	OTHERS	Jamie Folsom, NYSDEC
TIME OPENED	08:10	TIME CLOSED	13:00
DEPTH TO WATER (ft. BGS)	NA	EQUIPMENT	Backhoe, hand shovel.
DEPTH TO NATIVE SOILS (ft. BGS)	~ 4.0-5.0	TOTAL LENGTH (ft.)	20.0
TOTAL DEPTH (ft. BGS)	10.0	NAPL OBSERVED	Yes
ANALYTICAL SAMPLES	TP-105-2'-5' (fill); TP-105-4'-5' (fill/NAPL); TP-105-6'-8' (native) TCL VOC & SVOC, Total Cyanide, free cyanide		



Orientation: Looking
northeast at east wall of
test pit.

0-1 ft BGS. Asphalt
pavement over stone sub-
base.

1-5 ft BGS. Brown cmf
SAND, moist, loose.
Lenses of light gray-white
ash (mf sand). Fill. PID 0
ppm. Sample TP-105-2'-
5'.

2-4 ft BGS. Discontinuous
brown silty CLAY, tr(-) f
sand. Fill. PID 0 ppm.

5 ft BGS, Brown cmf
SAND (no ash), moist.
At 7 ft BGS grades to
brown clayey SILT, tr(-) f
sand. Native. PID 0 ppm.
Sample TP-105-6'-8'.

TEST PIT LOG TP-105-08

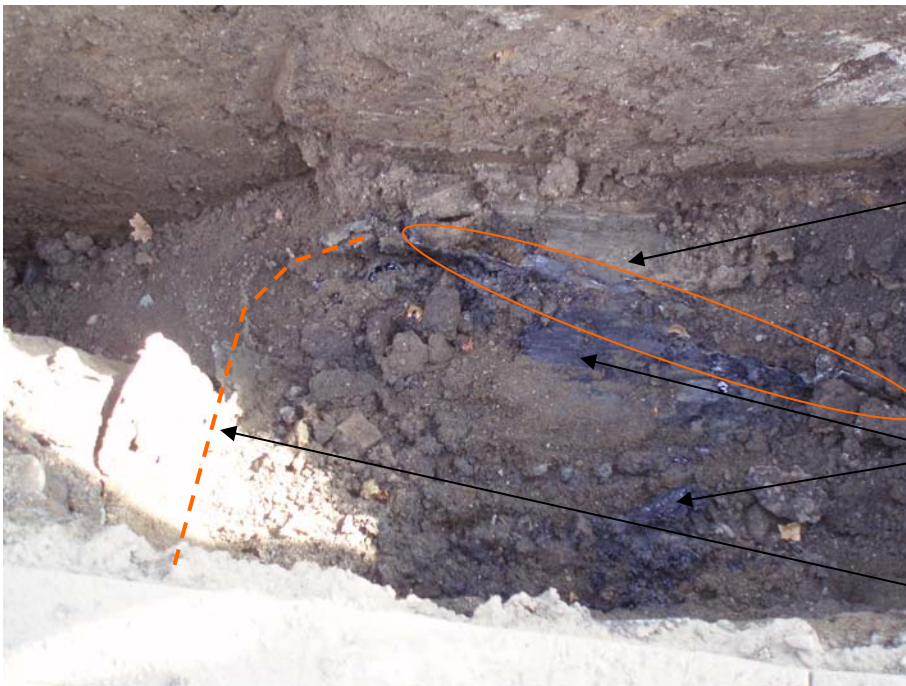


Orientation: Looking south west.

Viscous black tar with moderate coal tar odor, in apparent interior of tar well.

Apparent north wall of tar well ($\frac{1}{4}$ " steel plate). Located approx. 13 feet from north end of test pit. Top edge of plate is 4.8 ft BGS.

Viscous black tar seeping from perforation in steel wall of tar well. PID 50 ppm.



Orientation: South end of test pit, looking east and down on tar well.

Top edge of east wall of tar well ($\frac{1}{4}$ " steel plate).

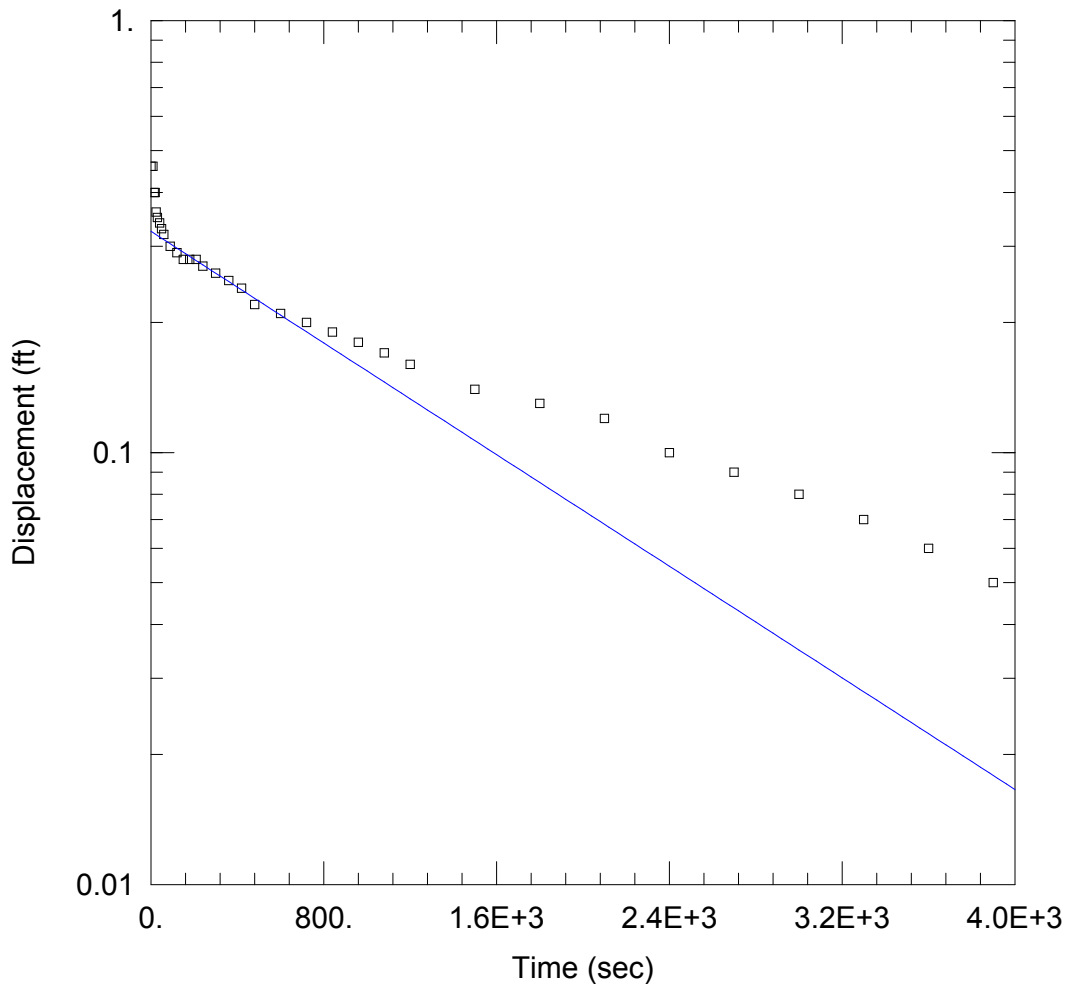
Surface of viscous black tar in tar well. PID 13 ppm. Sample TP-105-4'-5'.

Approx. alignment of north wall of tar well (under fill, visible in photo above).

APPENDIX B

In-Situ Hydraulic Conductivity Plots

BROWN AND CALDWELL



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-101.aqt
 Date: 06/02/09 Time: 10:38:59

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-101
 Test Date: 4/29/2009

AQUIFER DATA

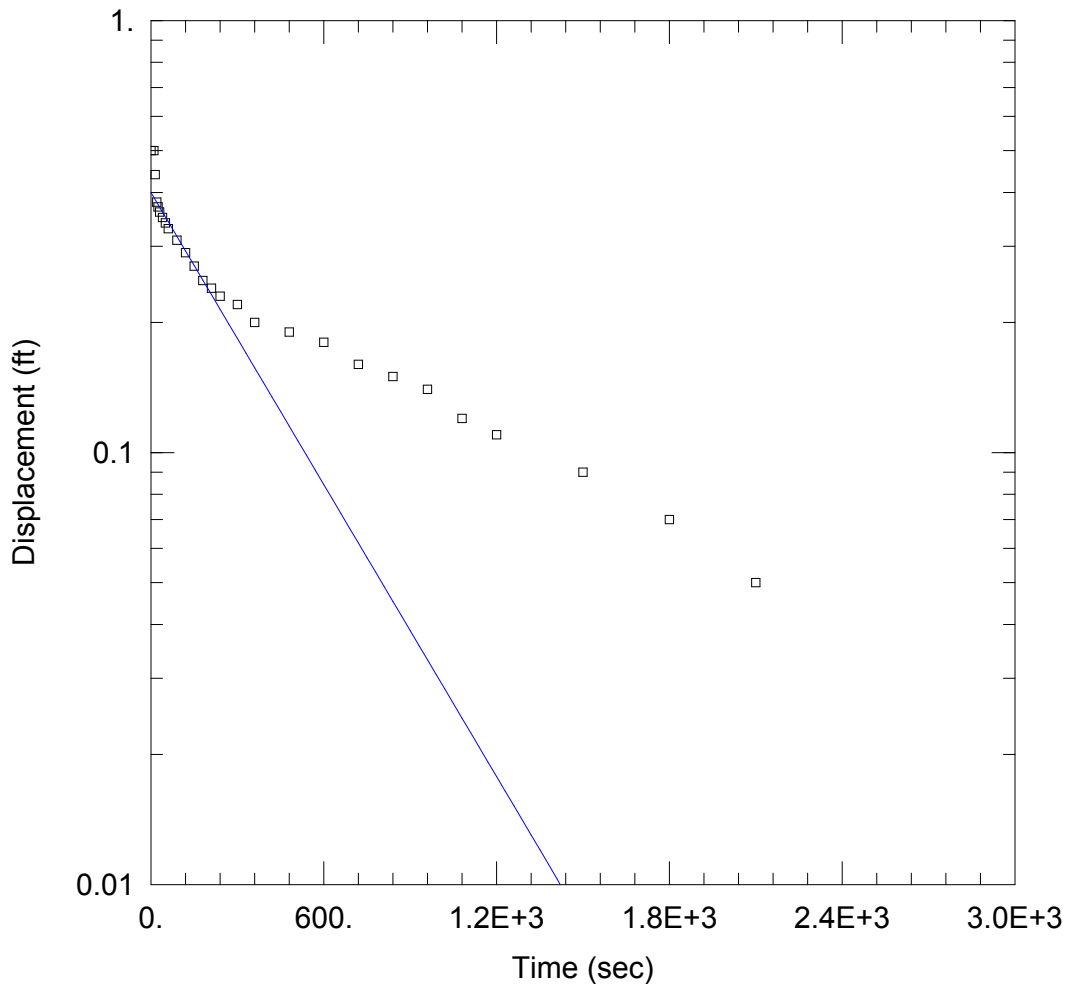
Saturated Thickness: 16.35 ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-101)

Initial Displacement: 0.46 ft Static Water Column Height: 7.85 ft
 Total Well Penetration Depth: 7.85 ft Screen Length: 7.85 ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 $K = 3.147E-5$ cm/sec $y_0 = 0.325$ ft



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-102.aqt
 Date: 06/02/09 Time: 10:40:04

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-102
 Test Date: 4/28/2009

AQUIFER DATA

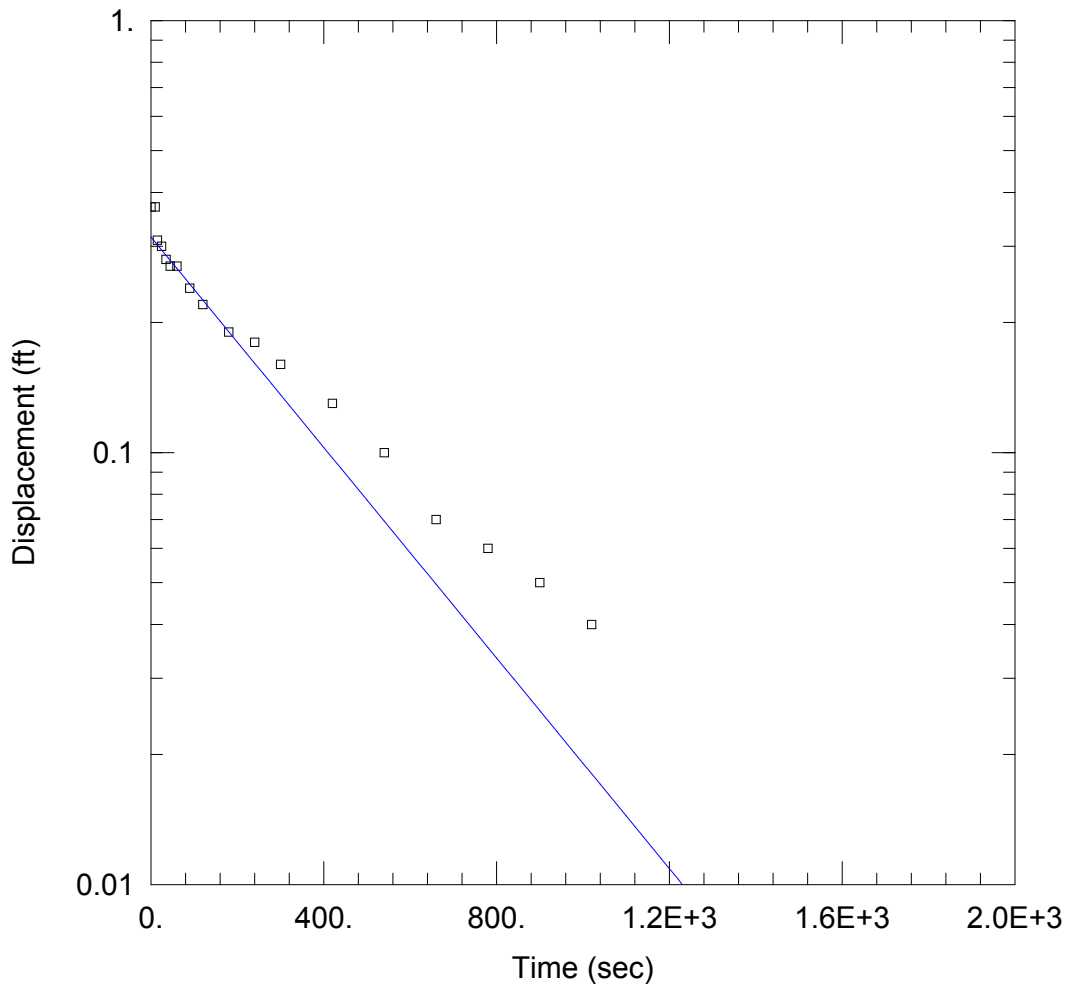
Saturated Thickness: 17.19 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-102)

Initial Displacement: 0.5 ft Static Water Column Height: 12.99 ft
 Total Well Penetration Depth: 12.99 ft Screen Length: 12.99 ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 K = 7.695E-5 cm/sec y0 = 0.3998 ft



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-103.aqt
 Date: 06/02/09 Time: 10:40:45

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-103
 Test Date: 4/28/2009

AQUIFER DATA

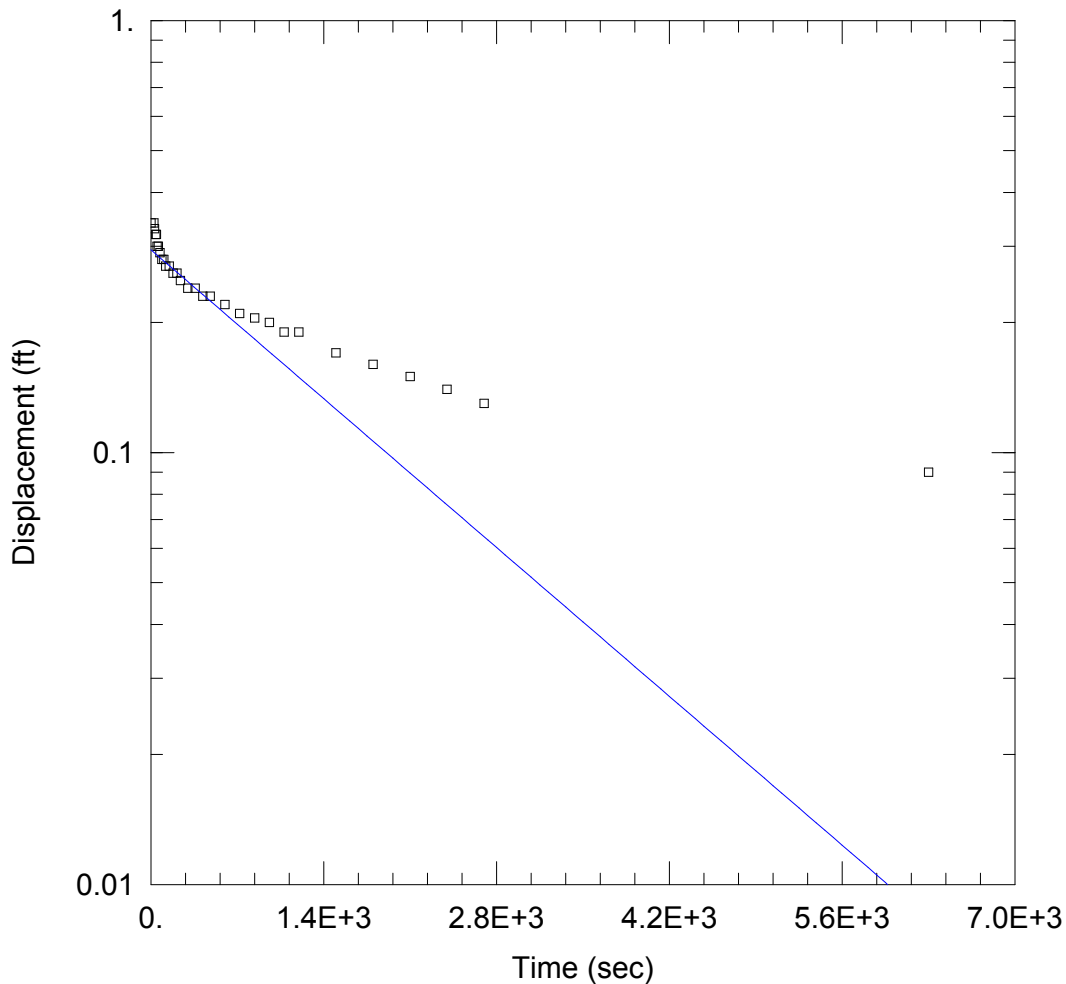
Saturated Thickness: 15.59 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-103)

Initial Displacement: 0.37 ft Static Water Column Height: 11.29 ft
 Total Well Penetration Depth: 11.29 ft Screen Length: 11.29 ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 K = 9.207E-5 cm/sec y0 = 0.3156 ft



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-104.aqt
 Date: 06/02/09 Time: 10:41:32

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-104
 Test Date: 4/29/2009

AQUIFER DATA

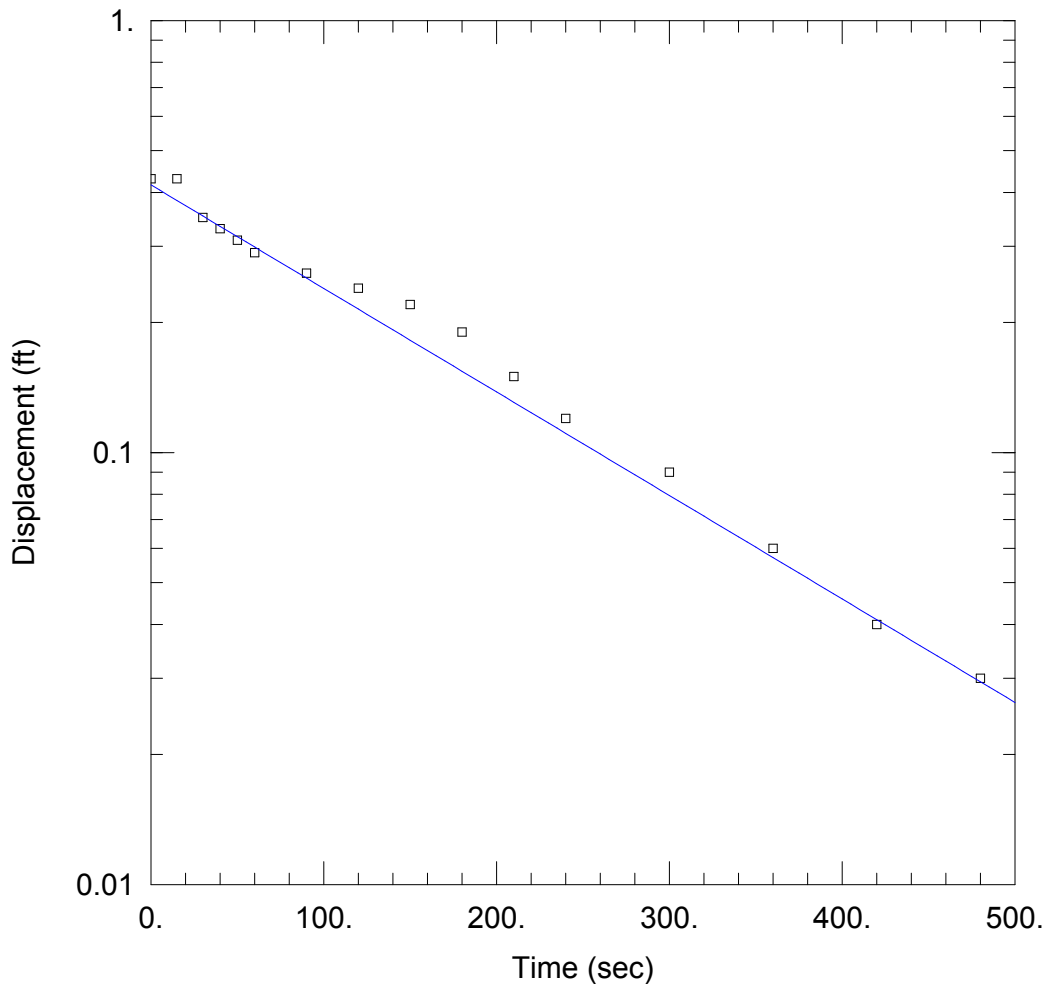
Saturated Thickness: 17.41 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-104)

Initial Displacement: 0.34 ft Static Water Column Height: 8.31 ft
 Total Well Penetration Depth: 8.31 ft Screen Length: 8.31 ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 K = 2.306E-5 cm/sec y0 = 0.2945 ft



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-105.aqt
 Date: 06/02/09 Time: 10:42:07

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-105
 Test Date: 4/28/2009

AQUIFER DATA

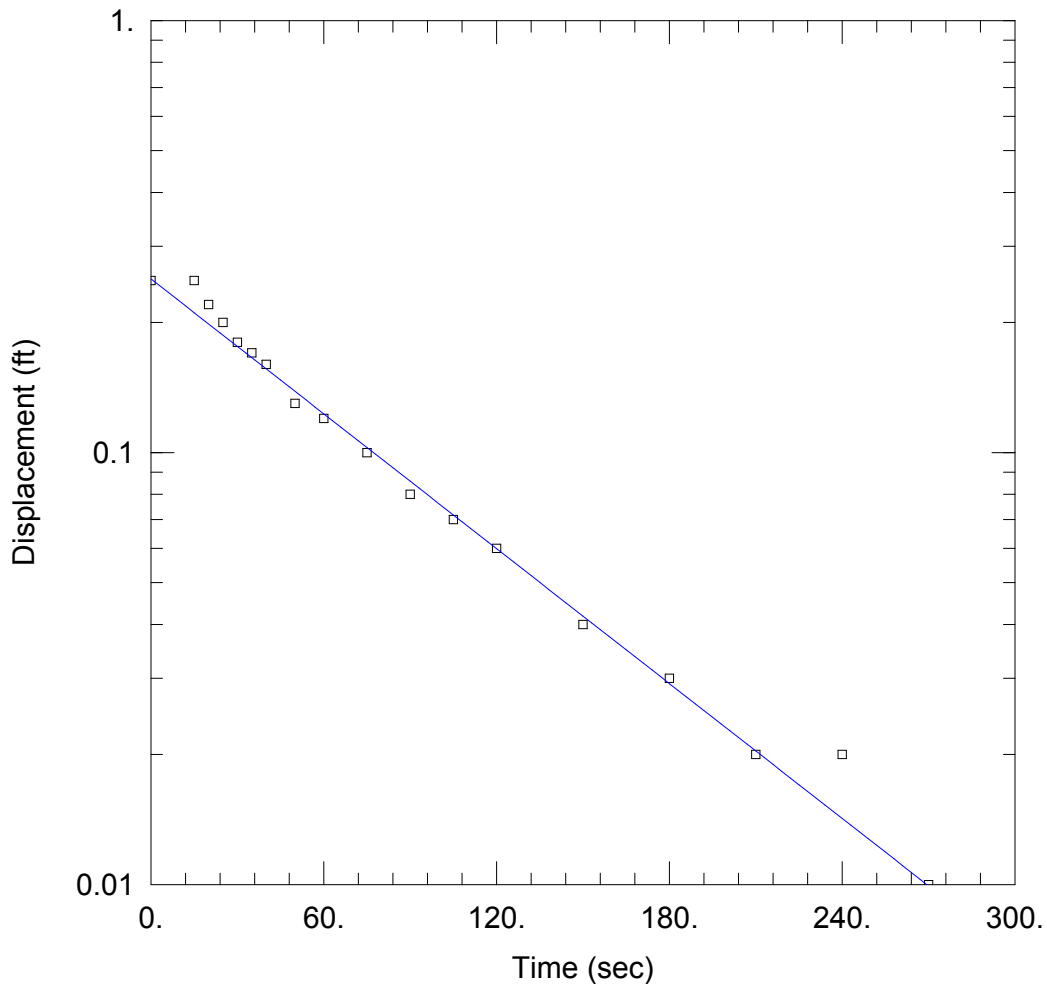
Saturated Thickness: 13.51 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (New Well)

Initial Displacement: 0.43 ft Static Water Column Height: 7.01 ft
 Total Well Penetration Depth: 7.01 ft Screen Length: 7.01 ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 K = 0.0002521 cm/sec $y_0 =$ 0.4163 ft



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-106S.aqt
 Date: 06/02/09 Time: 10:42:43

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-106S
 Test Date: 4/29/2009

AQUIFER DATA

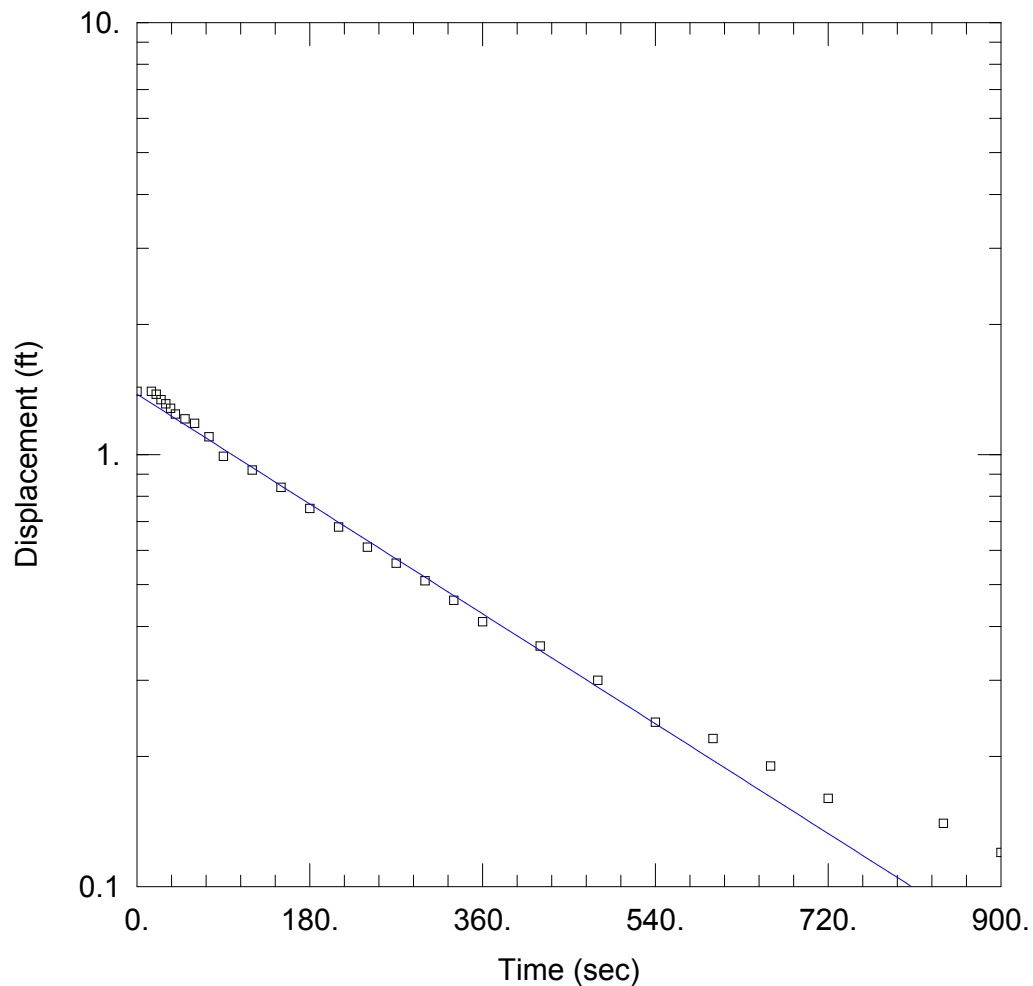
Saturated Thickness: 17.31 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-106S)

Initial Displacement: 0.25 ft Static Water Column Height: 9.71 ft
 Total Well Penetration Depth: 9.71 ft Screen Length: 9.71 ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 K = 0.0004375 cm/sec y0 = 0.2522 ft



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-106D.aqt
 Date: 06/02/09 Time: 10:43:42

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-106D
 Test Date: 4/29/2009

AQUIFER DATA

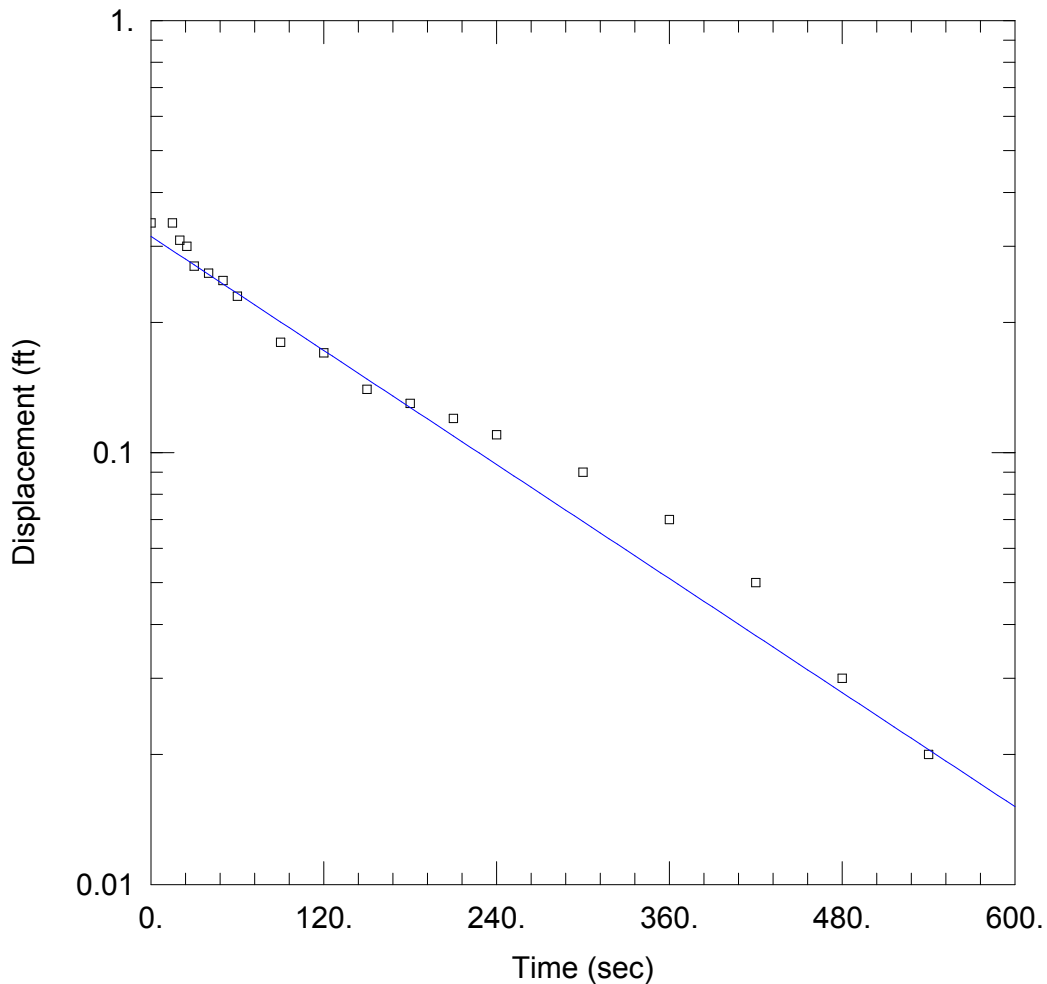
Saturated Thickness: 17.45 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-106D)

Initial Displacement: 1.4 ft Static Water Column Height: 15.85 ft
 Total Well Penetration Depth: 15.85 ft Screen Length: 5. ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 K = 0.0001853 cm/sec y_0 = 1.379 ft



WELL TEST ANALYSIS

Data Set: P:\National_Grid\Nimo_Rensselaer\RI\Slug_Tests\MW-107.aqt
 Date: 06/02/09 Time: 10:44:19

PROJECT INFORMATION

Company: Brown and Caldwell
 Client: National Grid
 Location: Rensselaer NY
 Test Well: MW-107
 Test Date: 4/29/2009

AQUIFER DATA

Saturated Thickness: 14.93 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-107)

Initial Displacement: 0.34 ft Static Water Column Height: 9.63 ft
 Total Well Penetration Depth: 9.63 ft Screen Length: 9.63 ft
 Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
 K = 0.0001861 cm/sec y0 = 0.3164 ft

APPENDIX C

Underground Utility Observations – Photographic Log



Photograph #1 –Washington St. catch basin (CB#1) for storm water flow. Substantial amount of debris within catch basin, unable to determine flow direction, if any. Top of photo is northeast.



Photograph #2 – View of infiltrating storm water into catch basin (CB#2) located along western side of Washington St., near intersection of Huyck Sq. and Washington St. Top of photo is east.



Photograph #3 – View of catch basin (CB#3) located along northern side of Huyck Square, near intersection of Huyck Sq. and Washington St. Substantial amount of debris within catch basin; unable to determine flow direction, appeared to be stagnant. Top of photo is north-northeast.



Photograph #4 – Washington St. manhole (MH#1) for sanitary sewer line. Flow direction is to the south. Slight sewage odor.



Photograph #5 – Close-up view of flow within sanitary sewer. Top of photo is south.



Photograph #6 – View of NW-SE oriented inlet pipe observed within MH#1, pipe is approximately 14" in diameter. Minimal flow observed exiting pipe into sewer.



Photograph #7 – Overhead view of MH#1.

APPENDIX D

Laboratory Data Packages (CD-ROM)

APPENDIX E

Data Usability Summary Reports (CD-ROM)