SUBSTATION DELINEATION PHASE II SITE ASSESSMENT OF 17 LIRR SUBSTATIONS

PRELIMINARY DATA EVALUATION AND RECOMMENDATIONS FOR LIRR ROCKVILLE CENTRE SUBSTATION (NYSDEC VCA No. V00401-1)

APRIL 2006

INTRODUCTION

In December 2005, Dvirka and Bartilucci Consulting Engineers (D&B) completed the Delineation Phase lI field investigation at the Long Island Rail Road (LIRR) Rockville Centre Substation in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Substation Delineation Phase II Site Assessment Work Plan, dated June 2005. The objective of the Substation Delineation Phase II Site Assessment is to assess the nature and extent of contamination at the 17 LIRR substations with emphasis on mercury contamination associated with the historic use of mercury rectifiers. The objective of this preliminary evaluation of analytical data is to identify areas that may require additional investigation and/or remediation while the field investigation team is available and prior to submission of a final report. This information will assist the LIRR in making timely management decisions with regard to future investigation and/or remedial activities that may be undertaken at each substation.

Provided with this document are the following attachments:

- Attachment 1 - Sample Location Map
- Attachment 2 - Summary of Completed Field Activities
- Attachment 3 - Boring Logs
- Attachment 4 - Data Qualifiers/ Summary Analytical Data Tables
- Attachment 5 - Proposed Sample Location Map

The analytical data for the surface soil and subsurface soil samples collected at the Rockville Centre Substation were screened utilizing the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Recommended Soil Cleanup Objectives (RSCOs). Groundwater sample results were screened utilizing the NYSDEC Class GA Groundwater Standards/Guidance Values.

The following is a summary of key findings with regard to contaminant concentrations and distribution in sampled media:

PRELIMINARY EVALUATION

Surface Soil

Metals

Of the 24 surface soil samples collected, 16 exhibited detectable concentrations of mercury in exceedance of the Recommended Soil Cleanup Objective (RSCO) for mercury (0.1 mg/kg), ranging from 0.106 mg/kg to a maximum of 87.7 mg/kg. However, 12 of these samples exhibited mercury at concentrations of less than 1.0 mg/kg. Two samples exhibited mercury at a concentration of greater than 5.0 mg/kg. One sample, RCSS-19 (at 87.7 mg/kg), located in the water meter pit, on the northwest corner of the substation building, exhibited mercury at a concentration greater than 10.0 mg/kg.

In addition to mercury, four surface soil samples were analyzed for RCRA Metals. Arsenic, lead and selenium were found to exceed their RSCOs (7.5 mg/kg, 400 mg/kg and 2.0 mg/kg, respectively) in one or more of the four surface soil sample locations. The highest concentration of arsenic (41.2 mg/kg) was detected in surface soil sample RCSS-23, located in the transformer yard, approximately 15 feet to the south of the substation building. The highest concentration of lead (6,770 mg/kg) was detected in surface soil RCSS-21, located in the transformer yard, approximately 12 feet to the south of the substation building. The highest

concentration of selenium (2.42 mg/kg) was detected in surface soil sample RCSS-22, located in the transformer yard, approximately 8 feet to the south of the substation building.

Semivolatile Organics

Four surface soil samples were analyzed for semivolatile organic compounds (SVOCs). Six SVOCs were detected above their respective RSCOs in surface soil sample RCSS-22: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, 2-methylphenol and 4-methylphenol. Benzo(b)fluoranthene was also detected above its RSCO in surface soil sample RCSS-21. However, no surface soil sample exceeded the RSCO for total SVOCs of 500 mg/kg.

PCBs

Four surface soil samples were initially selected for polychlorinated biphenyls (PCBs) analysis, however, due to the elevated PCB levels detected during this investigation, two additional surface soil samples (RCSS-15 and RCSS-16) were also selected for PCB analysis, and are included in this discussion. Aroclor 1260 concentrations exceeded or were equal to the RSCO (1.0 mg/kg) in surface soil samples RCSS-16, RCSS-21, RCSS-22 and RCSS-23, ranging from 1.0 mg/kg to 56.0 mg/kg, with the greatest concentration being detected in RCSS-21. RCSS-21 is located approximately 12 feet south of the substation building, in the transformer yard.

Subsurface Soil

Metals

Forty-five subsurface soil samples were analyzed for mercury with only six samples exhibiting detectable concentrations above the RSCO for mercury (0.1 mg/kg), ranging from a minimum of 0.103 mg/kg to a maximum of 0.825 mg/kg, detected in RCSB-26 (2 to 4 feet), located in the water meter pit on the northwest corner of the substation building.

In addition to mercury, eight subsurface soil samples were also analyzed for RCRA metals. Arsenic was detected at a concentration of 25.3 mg/kg (above its RSCO of 7.5 mg/kg) in subsurface soil sample RCSB-30 (0 to 2 feet), located in the transformer yard, approximately 15 feet to the south of the substation building.

Semivolatile Organics

Eight subsurface soil samples were analyzed for SVOCs. SVOCs were not detected at concentrations above the RSCOs for subsurface soil.

PCBs

Eight subsurface soil samples were initially selected for polychlorinated biphenyls (PCBs) analysis, however, due to the elevated PCB levels detected during this investigation in the surface soil samples, four additional subsurface soil samples (RCSB-22 [2 to 4 feet] and [4 to 6 feet] and RCSB-23 [2 to 4 feet] and [4 to 6 feet]) were also selected for PCB analysis, and are included in this discussion. PCBs were not detected at concentrations above the RSCOs of 10.0 mg/kg in any subsurface soil sample.

Groundwater

A total of three groundwater samples were collected for chemical analysis from the site using a peristaltic pump and Geoprobe groundwater sampling equipment. All samples were analyzed for TAL Metals (including mercury) and VOCs. Due to the turbid nature of the groundwater samples, all samples collected for metals analysis included filtered and unfiltered samples.

Metals

Mercury was not detected in any of the filtered or unfiltered groundwater samples collected (RCGP-01, RCGP-02 and RCGP-03).

Three metals including iron, manganese and sodium were detected above their respective Class GA Standards in one or more unfiltered samples. However, these same metals were either not detected, or detected at much lower concentrations in the filtered samples. Due to the generally high turbidity of the groundwater samples collected using Geoprobe equipment, the metals data associated with the unfiltered samples will be biased high. Therefore, the filtered samples will more closely represent true metal concentrations in groundwater. In filtered groundwater probe RCGP-01, sodium exceeded its Class GA Standard. In filtered groundwater probe RCGP-02, iron exceeded its Class GA Standard. In filtered groundwater probe RCGP-03, iron and sodium exceeded their respective Class GA Standards. Although iron and sodium were above their respective Class GA Standards in one or more filtered samples, these are not considered contaminants of concern.

Volatile Organics

VOCs were not detected at concentrations above NYSDEC Class GA Standards.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of the Delineation Phase II Site Assessment of the Rockville Centre Substation, mercury has been detected in surface soil and subsurface soil above the RSCOs. In general, however, mercury concentrations are relatively low as compared to concentrations detected at other facilities. The greatest mercury concentrations were detected in surface soil (RCSS-19, at 87.7 mg/kg) and shallow subsurface soil (RCSB-26 [2 to 4 feet], at 0.825 mg/kg), northwest of the substation building, inside the water meter pit.

While 16 out of 24 surface soil samples were found to exceed the RSCO for mercury of 0.1 mg/kg, only 17% of the samples collected exhibited mercury above 1.0 mg/kg and only one of the samples collected exhibited mercury above 10.0 mg/kg. Only 6 out of 45 subsurface soil samples were found to exceed the RSCO for mercury of 0.1 mg/kg, with 2% of the samples collected exhibiting mercury above 0.5 mg/kg and none of the samples collected exhibiting

mercury above 1.0 mg/kg. Furthermore, based on a review of the groundwater data, groundwater has not been impacted by the presence of mercury in on-site soil.

Based on these findings, D&B recommends that the surface soil in the water meter pit be remediated to reduce or eliminate any contact with, or migration of mercury-contaminated soil. However, further delineation of mercury-impacted soil at the Rockville Centre site is not required.

The analysis of soil samples collected from the transformer yard located south of the substation identified PCBs at a concentration as high as 56.0 mg/kg in surface soil sample RCSS-21. The NYSDEC TAGM criterion for PCBs in surface soil is 1.0 mg/kg. In addition, surface soil sample RCSS-22, located approximately 5 feet northwest of RCSS-21, exhibited a PCB concentration of 17.0 mg/kg, and surface soil sample RCSS-23, located approximately 3 feet southwest of RCSS-21, exhibited a PCB concentration of 2.0 mg/kg. Based on these concentrations, six additional soil samples were analyzed for PCBs. One of these samples, surface soil sample RCSS-16, located adjacent to the south side of the substation building, in the transformer yard, exhibited PCBs at a concentration of 1.0 mg/kg. This data indicates the potential for a localized PCB "hot spot" in the transformer yard.

Therefore, D&B recommends that additional sampling be performed in the vicinity of RCSS-16, RCSS-21, RCSS-22 and RCSS-23 to determine the extent of PCBs in this area, including the completion of 20 soil sample locations (RCSS-30 through RCSS-49 for surface soil samples and RCSB-37 through RCSB-56 for subsurface soil samples). All samples will be completed in a grid-like fashion, with each sample location in the grid to be spread approximately 3 feet apart, as depicted in Figure 2. At each location, one surface soil sample (0 to 2 inches) and one subsurface soil sample (1 to 2 feet) should be collected. All samples will be analyzed for PCBs.

All soil sampling will be conducted in a manner consistent with the provisions of the approved Investigation Work Plan, dated June 2005. QA/QC samples will be collected as part of the additional sampling program consistent with the approved work plan. All sample analysis

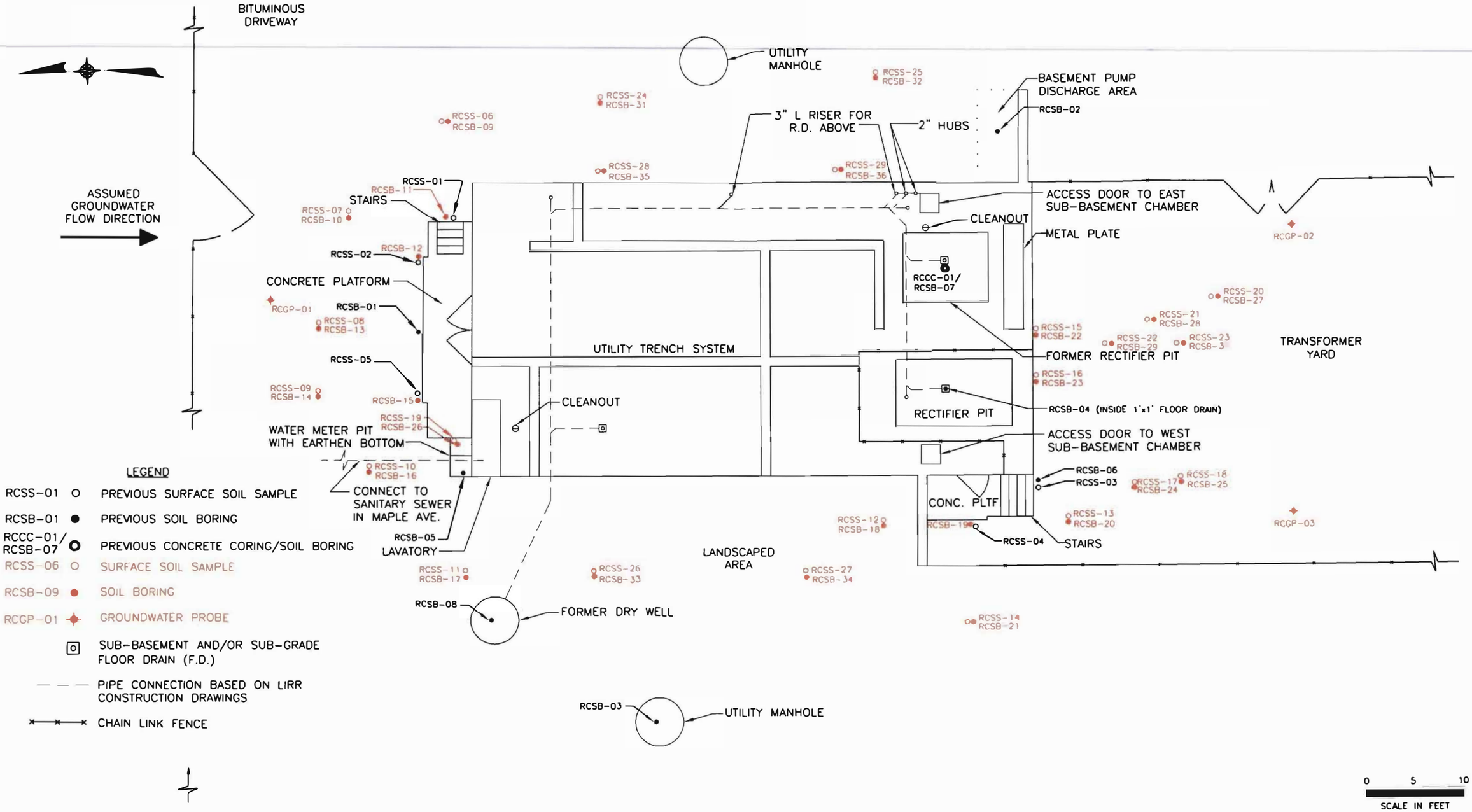
and data validation will be conducted in accordance with the NYSDEC 6/2000 Analytical Services Protocol (ASP).

The analytical data obtained from this recommended supplemental sample collection and analysis program will be evaluated in conjunction with the existing data to determine the extent of PCB contamination at each location, as well as the need for remediation.

Please be advised that the LIRR has scheduled the existing substation building to be taken off-line, abated and demolished in the third quarter of 2007. The substation building footings, existing rectifier, auxiliary transformers, high-tension rack, ducts and manholes will be removed. A new substation building will be constructed in the same footprint as the existing substation building, which will include an eight-foot deep basement. The LIRR will provide the NYSDEC with a proposed site plan in the near future. Waste characterization samples will be collected at up to five locations prior to the construction of the new substation building. Sample locations will be selected in the field, and all waste characterization samples will be collected from shallow borings completed in the areas to be excavated. Waste characterization samples will be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) corrosivity, ignitability, metals (including mercury), PCBs, pesticides/herbicides, reactivity, SVOCs and VOCs.

ATTACHMENT 1

LIRR ROCKVILLE CENTRE SUBSTATION
SAMPLE LOCATION MAP



SOURCE: AVAILABLE LONG ISLAND RAIL ROAD CONSTRUCTION DRAWINGS AND D&B's FIELD OBSERVATIONS

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

LONG ISLAND RAIL ROAD
DELINEATION PHASE II SITE ASSESSMENT

SAMPLE LOCATION MAP
ROCKVILLE CENTRE SUBSTATION (V00401-1)

FIGURE 1

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ATTACHMENT 2

LIRR ROCKVILLE CENTRE SUBSTATION
SUMMARY OF COMPLETED WORK

LONG ISLAND RAILROAD
DELINEATION PHASE II SITE ASSESSMENT - SEVENTEEN SUBSTATIONS
ROCKVILLE CENTRE (V00401-1) SUMMARY OF COMPLETED WORK (11/29/05 through 12/1/05)

Location	Sample Designation	SURFACE SOIL SAMPLES**	SOIL PROBES/BORINGS			GROUNDWATER PROBES		Recommended Analyses							Comments
			No. of Probes	No. of Samples	Soil Sampling Interval	No. of Probes	Approximate Total Depth of Probes	Mercury	RCRA Metals	TAL Metals	PCBs	VOCs	SVOCs	USEPA UIC Constituents *	
North Side of Substation	RCSS-06 through 11 RCSB-09 through 17	6	9	18	2-6' bgs Cont.	-	-	24	-	-	-	-	-	-	No deviations from original scope.
Southwest Corner of Substation	RCSS-12 through 14 RCSB-18 through 21	3	4	4	2-4' bgs Cont.	-	-	7	-	-	-	-	-	-	No deviations from original scope.
	RCSS-15 through 18 RCSB-22 through 25	4	4	8	2-6' bgs Cont.	-	-	12	-	-	6	-	-	-	Surface soil samples RCSS-15 and 16 and subsurface soil samples RCSB-22 and 23 were re-run for PCBs analysis, due to relatively high PCB concentrations detected in some surrounding surface soil samples.
Water Meter Pit	RCSS-19 RCSB-26	1	1	1	2-4' bpb Cont.	-	-	2	-	-	-	-	-	-	No deviations from original scope.
Roof Drains	RCSS- 28 & 29 RCSB-35 & 36	2	2	2	2-4' bgs Cont.	-	-	4	-	-	-	-	-	-	Two roof drains were observed and samples were collected for mercury analysis.
Groundwater	RCGP-01 through 03	-	-	-	-	3	19'	-	-	6***	-	3	-	-	RCGP-01 was moved east approximately 2 feet, due to site conditions.
Transformers	RCSS-20through 23 RCSB-27 through 30	4	4	8	0-4' bgs Cont.	-	-	-	12	-	12	-	12	-	No deviations from original scope.
Potential Releases	RCSS-24 through 27 RCSB-31 through 34	4	4	4	2-4' bgs Cont.	-	-	8	-	-	-	-	-	-	RCSS-24 and RCSB-31 were moved northwest approximately 2 feet due to utility obstructions.
		24	28	45	-	3	-	57	12	6	18	3	12	0	Total

NOTES:
bgs: below ground surface.
bpb: below pit bottom.
Cont.: Continuous 2-foot soil sampling
-: Not Applicable
* USEPA UIC Constituents include VOCs by Method 8260b, RCRA Metals including Mercury by Methods 6010b/7471a, SVOCs by Method 8270c, PCBs by Method 8082, and TPHs by Method 8015b.
** Surface soil samples to be collected at 0-2" interval.
*** Filtered and Unfiltered Samples

ATTACHMENT 3

LIRR ROCKVILLE CENTRE SUBSTATION
BORING LOGS

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-09 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/29/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/29/05	**Boring Completion Depth:** 6' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Brown, fine silty SAND, some medium sand and fine to medium gravel, loose.	
2' - 4'	1	HA	24	0.000	0.0	Brown, fine clayey SAND, some medium sand and fine gravel, loose	
4' - 6'	2	GP	24	0.000	0.0	Orange-brown, fine to medium SAND, some fine to medium gravel, and clay, loose.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-10 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/29/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/29/05	**Boring Completion Depth:** 6' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	0-4" asphalt. 4"-2' Brown, silty CLAY and fine SAND, some medium sand and fine gravel.	
2' - 4'	1	HA	24	0.000	0.0	Orange-brown, fine SAND, some fine gravel and clay.	
4' - 6'	2	HA	24	0.000	0.0	Orange-brown, fine SAND, little medium sand and fine gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-11
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/29 /2005

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/29/2005

Boring Completion Depth: 6'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Brown, fine to medium silty SAND, little fine to medium gravel and clay.	
2' - 4'	1	HA	24	0.000	0.0	Brown, fine to medium SAND and CLAY, some fine to medium gravel.	
4' - 6'	2	HA	24	0.000	0.0	Orange-brown, medium SAND and fine to medium GRAVEL, some fine sand.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected from 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-12
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/29/05

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/29/05

Boring Completion Depth: 6'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Dark brown, silty fine to medium SAND, some fine to medium gravel, loose.	
2' - 4'	1	HA	24	0.000	0.0	Brown, clayey fine to medium SAND, little fine to medium gravel.	
4' - 6'	2	HA	24	0.000	0.0	Brown, clayey fine to medium SAND, little fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4' and 4'-6'.

Dvirka and Ba tilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-13
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/29/05

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/29/05

Boring Completion Depth: 6'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Brown, fine to medium SAND, little fine to medium gravel, loose.	
2' - 4'	1	HA	24	0.000	0.0	Orange-brown, fine SAND, little medium sand and fine to medium gravel and clay.	
4' - 6'	2	HA	24	0.000	0.0	Orange-brown, fine SAND, little medium sand and fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-14 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/29/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/29/05	**Boring Completion Depth:** 6' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	0-4" Asphalt. 4" to 2' Brown, fine to medium SAND, little fine to medium gravel, loose.	
2' - 4'	1	HA	24	0.000	0.0	Orange-brown fine to medium SAND, little clay and fine to medium gravel, loose.	
4' - 6'	2	HA	24	0.000	0.0	Orange-brown, fine SAND, and fine gravel, little medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-15
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/29 /2005

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/29/2005

Boring Completion Depth: 6 feet
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Dark brown, fine to medium silty SAND, little fine to medium gravel and clay.	
2' - 4'	1	HA	24	0.000	0.0	Brown, fine to medium SAND and CLAY, some fine to medium gravel.	
4' - 6'	2	HA	24	0.000	0.0	Orange-brown, medium SAND and fine to medium GRAVEL, some fine sand.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected from 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-16 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/29/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/29/05	**Boring Completion Depth:** 6' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	0-4" Asphalt. 4"-2' Dark brown, silty fine to medium SAND, some fine to medium gravel, tight.	
2' - 4'	1	HA	24	0.000	0.0	Brown, clayey fine SAND, some fine gravel, little medium gravel.	
4' - 6'	2	HA	24	0.000	0.0	Brown, fine SAND, some fine gravel, little medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-17 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/30/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/30/05	**Boring Completion Depth:** 6' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.003	Dark brown, silty fine to medium SAND, little fine to coarse gravel, loose.	
2' - 4'	1	HA	24	0.000	0.0	Orange-brown, fine to medium SAND, some clay and fine gravel and medium gravel.	
4' - 6'	2	HA	24	0.000	0.0	Orange-brown, fine to medium SAND, some clay and fine gravel and medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4' and 4'-6'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-18
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/30/05

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/30/05

Boring Completion Depth: 4'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Brown, fine to medium silty SAND, some fine to medium gravel, tight.	
2' - 4'	1	HA	24	0.000	0.0	Orange-brown, fine to clayey SAND, little medium sand and fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-19
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/30/05

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/30/05

Boring Completion Depth: 4'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0" - 8"	0	HA	8	0.000	0.0	Dark brown, fine to medium SAND, some fine to medium gravel and slag.	
8" - 2'	0	HA	16	0.000	0.0	Brown, fine to medium CLAY and SAND, little fine to medium gravel.	
2' - 4'	1	HA	24	0.000	0.0	Brown, fine to medium CLAY and SAND, little fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-27 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 12/1/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 12/1/05	**Boring Completion Depth:** 4' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0" - 5"	0	HA	5	0.000	0.0	Dark brown, silty fine to medium SAND, some clay and slag and fine gravel.	
5" - 2'	0	HA	19	0.000	0.0	Brown, clayey fine SAND, some medium sand and fine to medium gravel.	
2' - 4'	1	HA	24	0.000	0.0	Dark brown, fine to medium SAND, little fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-28 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 12/1/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 12/1/05	**Boring Completion Depth:** 4' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0" - 2"	0	HA	2	0.000	0.0	Dark brown, silty fine to medium SAND, some slag and fine to medium gravel.	
2" - 2'	0	HA	22	0.000	0.0	Brown, clayey fine to medium SAND, some fine to medium gravel, tight.	
2' - 4'	1	HA	24	0.000	0.0	Orange-brown, fine to medium SAND, some fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-29 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 12/1/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 12/1/05	**Boring Completion Depth:** 4' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0" - 6"	0	HA	6	0.000	0.0	Dark brown, fine to medium SAND, some slag and fine gravel.	
6" - 2'	0	HA	18	0.000	0.0	Brown, fine to medium SAND, some fine to medium gravel.	
2' - 4'	3	HA	24	0.000	0.0	Brown-gray, clayey fine to medium SAND, some fine gravel, slight hydrocarbon odor.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-30 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 12/1/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 12/1/05	**Boring Completion Depth:** 4' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 1'	0	HA	12	0.000	0.0	Orange-dark brown, silty fine to medium SAND, some slag and fine gravel.	
1' - 2'	0	HA	12	0.000	0.0	Brown, clayey fine to medium SAND, some fine gravel.	
2' - 4'	1	HA	24	0.000	0.0	Brown, clayey fine to medium SAND, some fine gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-31 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/30/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/30/05	**Boring Completion Depth:** 4' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Brown, silty fine SAND, some fine to medium gravel.	
2' - 4'	1	HA	24	0.000	0.0	Orange-brown, clayey fine SAND, some medium sand and fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-32
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/30/05

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/30/05

Boring Completion Depth: 4'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Dark brown-brown, silty fine SAND, little clay and fine to medium gravel.	
2' - 4'	1	HA	24	0.000	0.0	Brown, fine to medium SAND, some fine to medium gravel, loose.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-33
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/30/05

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/30/05

Boring Completion Depth: 4'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Dark brown silty fine to medium SAND, some fine to medium gravel and clay.	
2' - 4'	1	HA	24	0.000	0.0	Brown, fine to medium SAND, some fine to medium gravel, loose.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2229
Project Name: Long Island Railroad
Rockville Centre Substation

Boring No.: RCSB-34
Sheet 1 **of** 1
By: Stephen Tauss

Drilling Contractor: L.A.W.E.S.
Driller: ---
Drill Rig: Geoprobe
Date Started: 11/30/05

Geologist: Stephen Tauss
Drilling Method: ---
Drive Hammer Weight: NA
Date Completed: 11/30/05

Boring Completion Depth: 4'
Ground Surface Elevation: ---
Boring Diameter: ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Brown, silty clayey fine SAND, some medium sand and fine to medium gravel, tight.	
2' - 4'	1	HA	24	0.000	0.0	Brown, clayey fine to medium SAND, and fine to medium gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-35 **Sheet** _1_ **of** _1_ **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/30/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/30/05	**Boring Completion Depth:** 4' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Dark brown, silty fine SAND, some clay and medium sand, little fine gravel.	
2' - 4'	1	HA	24	0.000	0.0	Brown, CLAY, and fine sand.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

Dvirka and Bartilucci CONSULTING ENGINEERS	**Project No.:** 2229 **Project Name:** Long Island Railroad Rockville Centre Substation	**Boring No.:** RCSB-36 **Sheet** 1 **of** 1 **By:** Stephen Tauss
Drilling Contractor: L.A.W.E.S. **Driller:** --- **Drill Rig:** Geoprobe **Date Started:** 11/30/05	**Geologist:** Stephen Tauss **Drilling Method:** --- **Drive Hammer Weight:** NA **Date Completed:** 11/30/05	**Boring Completion Depth:** 4' **Ground Surface Elevation:** --- **Boring Diameter:** ---

Depth (ft.)	Soil Sample No.	Soil Sample Type	Soil Sample Rec. (inches)	Mercury Vapor (mg/m^3)	Photo-ionization Detector (ppm)	Sample Description	USCS
0' - 2'	0	HA	24	0.000	0.0	Brown-dark brown, silty clayey fine to medium SAND, some fine gravel.	
2' - 4'	1	HA	24	0.000	0.0	Brown, fine SAND and CLAY, little fine gravel.	

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:
Samples for mercury analysis were collected at 2'-4'.

ATTACHMENT 4

LIRR ROCKVILLE CENTRE SUBSTATION
DATA QUALIFIERS/CHEMICAL DATA TABLES

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For Organics analysis the reporting limit (lowest standard concentration) is the value listed. For Inorganics analysis, the value listed is the detection limit. For Inorganics analyzed using SW-846 methods, the detection limit is the Method Detection Limit, for Inorganics analyzed using EPA CLP and NY ASP CLP methods, the detection limit is the Instrument Detection Limit.

J For Organics analysis, this flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B For Organic analyses, this flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a diluted analysis

E For Organics analysis, this flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for Pesticides/PCB/Herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for Primary and Confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is reported in the Analysis Report.

A Used to flag Semivolatile Organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for Volatile and Semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

TABLE 1
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-06 RCSS-06 11/29/2005 0.00	RCSS-07 RCSS-07 11/29/2005 0.00	RCSS-08 RCSS-08 11/29/2005 0.00	RCSS-09 RCSS-09 11/29/2005 0.00	RCSS-10 RCSS-10 11/29/2005 0.00
Mercury	(mg/kg)	0.10	0.067 U	0.066 U	0.066 U	0.063 B	[0.117]

mg/kg: milligram/kilogram

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 1
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-11 RCSS-11 11/29/2005 0.00	RCSS-12 RCSS-12 11/29/2005 0.00	RCSS-13 RCSS-13 11/30/2005 0.00	RCSS-14 RCSS-14 11/29/2005 0.00	RCSS-15 RCSS-15 11/30/2005 0.00
Mercury	(mg/kg)	0.10	[0.185]	[0.266]	[0.247]	[0.106] B	[0.675]

mg/kg: milligram/kilogram

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 1
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-16 RCSS-16 11/30/2005 0.00	RCSS-17 RCSS-17 11/30/2005 0.00	RCSS-18 RCSS-18 11/30/2005 0.00	RCSS-19 RCSS-19 11/29/2005 0.00	RCSS-20 RCSS-20 12/01/2005 0.00
Mercury	(mg/kg)	0.10	[0.926]	0.071 U	0.089 B	[87.700]	0.066 U

mg/kg: milligram/kilogram

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 1
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-21 RCSS-21 12/01/2005 0.00	RCSS-22 RCSS-22 12/01/2005 0.00	RCSS-23 RCSS-23 12/01/2005 0.00	RCSS-24 RCSS-24 11/30/2005 0.00	RCSS-25 RCSS-25 11/29/2005 0.00
Mercury	(mg/kg)	0.10	[0.247]	[1.1]	0.066 U	[3.2]	[0.182]

mg/kg: milligram/kilogram

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 1
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-26 RCSS-26 11/29/2005 0.00	RCSS-27 RCSS-27 11/29/2005 0.00	RCSS-28 RCSS-28 11/30/2005 0.00	RCSS-29 RCSS-29 11/30/2005 0.00
Mercury	(mg/kg)	0.10	[0.196]	[0.257]	[7.4]	[0.910]

mg/kg: milligram/kilogram

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 2
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
RCRA METALS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SOIL CLEANUP OBJECTIVES	RCSS-20 RCSS-20 12/01/2005 0.00	RCSS-21 RCSS-21 12/01/2005 0.00	RCSS-22 RCSS-22 12/01/2005 0.00	RCSS-23 RCSS-23 12/01/2005 0.00
Arsenic	(mg/kg)	7.5	[21.0]	[13.8]	[23.4]	[41.2]
Barium	(mg/kg)	300	151	259	157	110
Cadmium	(mg/kg)	10	0.037 U	0.040 U	6.930	0.161 B
Chromium	(mg/kg)	50	24.7	36.6	45.7	22.7
Lead	(mg/kg)	400	144	[6770]	[2390]	202
Selenium	(mg/kg)	2	[2.080]	[2.170]	[2.420]	[2.110]
Silver	(mg/kg)		1.910	2.130	6.950	

mg/kg: milligram/kilogram

[]=Greater than Action Level The following qualifier(s) exist: CLP C: U, B
=Not analyzed

TABLE 3
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-20 RCSS-20 12/01/2005 0.00	RCSS-21 RCSS-21 12/01/2005 0.00	RCSS-22 RCSS-22 12/01/2005 0.00	RCSS-23 RCSS-23 12/01/2005 0.00
2,2-oxybis (1-chloropropane)	(ug/kg)		60 U	1600 U	360 U	140 U
2,4,5-Trichlorophenol	(ug/kg)	100	57 U	1500 U	340 U	120 U
2,4,6-Trichlorophenol	(ug/kg)		55 U	1500 U	330 U	120 U
2,4-Dichlorophenol	(ug/kg)	400	69 U	1900 U	410 U	150 U
2,4-Dimethylphenol	(ug/kg)		59 U	1600 U	2100 J	140 U
2,4-Dinitrophenol	(ug/kg)	200	320 U	8700 U	1900 U	720 U
2,4-Dinitrotoluene	(ug/kg)		55 U	1500 U	330 U	120 U
2,6-Dinitrotoluene	(ug/kg)	1000	53 U	1400 U	310 U	120 U
2-Chloronaphthalene	(ug/kg)		62 U	1700 U	370 U	140 U
2-Chlorophenol	(ug/kg)	800	60 U	1600 U	350 U	140 U
2-Methylnaphthalene	(ug/kg)	36400	63 U	1700 U	370 U	140 U
3,3-Dichlorobenzidine	(ug/kg)		64 U	1700 U	380 U	140 U
4,6-Dinitro-o-cresol	(ug/kg)		73 U	2000 U	430 U	160 U
4-Bromofluorobenzene	(ug/kg)		56 U	1500 U	330 U	120 U
4-Chlorophenyl phenyl ether	(ug/kg)		59 U	1600 U	350 U	140 U
Acenaphthene	(ug/kg)	50000	67 U	1800 U	400 U	140 U
Acenaphthylene	(ug/kg)	41000	61 U	1600 U	360 U	140 U
Acetophenone	(ug/kg)		55 U	1500 U	330 U	110 J
Anthracene	(ug/kg)	50000	56 U	1500 U	1100 J	120 U
Atrazine	(ug/kg)		71 J	1500 U	340 U	120 U
Benzaldehyde	(ug/kg)		77 U	2100 U	460 U	160 U

ug/kg: microgram/kilogram

[]=Greater than Action Level The following qualifier(s) exist: CLP Q: U, J
=Not analyzed

TABLE 3
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-20 RCSS-20 12/01/2005 0.00	RCSS-21 RCSS-21 12/01/2005 0.00	RCSS-22 RCSS-22 12/01/2005 0.00	RCSS-23 RCSS-23 12/01/2005 0.00
Benzo(a)anthracene	(ug/kg)	224	52 U	1400 U	[2100] J	110 U
Benzo(a)pyrene	(ug/kg)	61	60 U	1600 U	[1900] J	140 U
Benzo(b)fluoranthene	(ug/kg)	1100	240 J	[6200] J	[2800]	91 U
Benzo(ghi)perylene	(ug/kg)	50000	62 U	1700 U	580 J	140 U
Benzo(k)fluoranthene	(ug/kg)	1100	82 U	2200 U	490 U	170 U
Biphenyl	(ug/kg)		62 U	1700 U	370 U	140 U
Bis(2-chloroethoxy)methane	(ug/kg)		62 U	1700 U	370 U	140 U
Bis(2-chloroethyl)ether	(ug/kg)		59 U	1600 U	350 U	140 U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)	50000	72 U	1900 U	1000 J	150 U
Butyl benzyl phthalate	(ug/kg)	50000	60 U	1600 U	360 U	140 U
Caprolactam	(ug/kg)		60 U	1600 U	360 U	140 U
Carbazole	(ug/kg)		57 U	1500 U	620 J	120 U
Chrysene	(ug/kg)	400	67 U	1800 U	[2200]	140 U
Dibenzo(a,h)anthracene	(ug/kg)	14	47 U	1300 U	280 U	110 U
Dibenzofuran	(ug/kg)	6200	62 U	1700 U	370 U	140 U
Diethyl phthalate	(ug/kg)	7100	65 U	1700 U	380 U	140 U
Dimethyl phthalate	(ug/kg)	2000	60 U	1600 U	360 U	140 U
Di-n-butyl phthalate	(ug/kg)	8100	120 J	1500 U	1600 J	120 U
Di-n-octyl phthalate	(ug/kg)	50000	64 U	1700 U	380 U	140 U
Fluoranthene	(ug/kg)	50000	81 J	1500 U	3800	120 U
Fluorene	(ug/kg)	50000	63 U	1700 U	500 J	140 U

ug/kg: microgram/kilogram

[]=Greater than Action Level The following qualifier(s) exist: CLP Q: U, J
=Not analyzed

TABLE 3
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-20 RCSS-20 12/01/2005 0.00	RCSS-21 RCSS-21 12/01/2005 0.00	RCSS-22 RCSS-22 12/01/2005 0.00	RCSS-23 RCSS-23 12/01/2005 0.00
Hexachlorobenzene	(ug/kg)	410	60 U	1600 U	360 U	140 U
Hexachlorobutadiene	(ug/kg)		58 U	1600 U	340 U	140 U
Hexachlorocyclopentadiene	(ug/kg)		60 U	1600 U	350 U	140 U
Hexachloroethane	(ug/kg)		64 U	1700 U	380 U	140 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	47 U	1300 U	280 U	110 U
Isophorone	(ug/kg)	4400	56 U	1500 U	330 U	120 U
3-Nitroaniline	(ug/kg)	500	49 U	1300 U	290 U	110 U
Naphthalene	(ug/kg)	13000	64 U	1700 U	710 J	140 U
Nitrobenzene	(ug/kg)	200	82 U	2200 U	490 U	170 U
N-Nitrosodiphenylamine	(ug/kg)		62 U	1700 U	370 U	140 U
N-Nitrosodipropylamine	(ug/kg)		62 U	1700 U	370 U	140 U
2-Methylphenol	(ug/kg)	100	62 U	1700 U	[1100] J	140 U
2-Nitroaniline	(ug/kg)	430	47 U	1300 U	280 U	110 U
2-Nitrophenol	(ug/kg)	330	58 U	1600 U	340 U	140 U
4-Chloroanillne	(ug/kg)	220	45 U	1200 U	260 U	90 U
4-Chloro-3-methylphenol	(ug/kg)	240	52 U	1400 U	310 U	110 U
Pentachlorophenol	(ug/kg)	1000	87 U	2300 U	510 U	190 U
4-Methylphenol	(ug/kg)	900	59 U	1600 U	[5700]	140 U
Phenanthrene	(ug/kg)	50000	60 U	1600 U	4400	140 U
Phenol	(ug/kg)	30	57 U	1500 U	340 U	120 U
Benzenamine, 4-nitro-	(ug/kg)		64 U	1700 U	380 U	140 U

ug/kg: microgram/kilogram

[]=Greater than Action Level The following qualifier(s) exist: CLP Q: U, J
=Not analyzed

TABLE 3
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-20 RCSS-20 12/01/2005 0.00	RCSS-21 RCSS-21 12/01/2005 0.00	RCSS-22 RCSS-22 12/01/2005 0.00	RCSS-23 RCSS-23 12/01/2005 0.00
4-Nitrophenol	(ug/kg)	100	46 U	1300 U	280 U	97 U
Pyrene	(ug/kg)	50000	78 J	1800 U	5500	140 U
Total PAHs	(ug/kg)	500000	399	6200	25590	0
Total Semivolatile Organics	(ug/kg)	500000	590	6200	37710	110

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: J, U =Not analyzed

TABLE 4
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
PCBs

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-15 RCSS-15 11/30/2005 0.00	RCSS-16 RCSS-16 11/30/2005 0.00	RCSS-20 RCSS-20 12/01/2005 0.00	RCSS-21 RCSS-21 12/01/2005 0.00	RCSS-22 RCSS-22 12/01/2005 0.00
Aroclor 1016	(ug/kg)	1000	3.0 U	3.4 U	2.9 U	3.1 U	3.4 U
Aroclor 1221	(ug/kg)	1000	4.7 U	5.2 U	4.4 U	4.8 U	5.3 U
Aroclor 1232	(ug/kg)	1000	7.1 U	7.8 U	6.6 U	7.2 U	7.9 U
Aroclor 1242	(ug/kg)	1000	6.3 U	7.0 U	5.9 U	6.4 U	7.0 U
Aroclor 1248	(ug/kg)	1000	3.1 U	3.4 U	2.9 U	3.1 U	3.4 U
Aroclor 1254	(ug/kg)	1000	2.0 U	2.2 U	1.9 U	2.0 U	2.2 U
Aroclor 1260	(ug/kg)	1000	620 D	[1000] D	58	[56000] D	[17000] D
Total PCBs	(ug/kg)	1000	620	[1000]	58	[56000]	[17000]

ug/kg: microgram/kilogram

[]=Greater than Action Level The following qualifier(s) exist: CLP Q: U, D
=Not analyzed

TABLE 4
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SURFACE SOIL SAMPLE RESULTS
PCBs

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSS-23 RCSS-23 12/01/2005 0.00
Aroclor 1016	(ug/kg)	1000	2.9 U
Aroclor 1221	(ug/kg)	1000	4.5 U
Aroclor 1232	(ug/kg)	1000	6.7 U
Aroclor 1242	(ug/kg)	1000	6.0 U
Aroclor 1248	(ug/kg)	1000	2.9 U
Aroclor 1254	(ug/kg)	1000	1.9 U
Aroclor 1260	(ug/kg)	1000	[2000] D
Total PCBs	(ug/kg)	1000	[2000]

ug/kg: microgram/kilogram

[]=Greater than Action Level The following qualifier(s) exist: CLP Q: U, D
=Not analyzed

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-09 RCSB-09(2-4) 11/29/2005 4.00	RCSB-09 RCSB-09(4-6) 11/29/2005 6.00	RCSB-10 RCSB-10(2-4) 11/29/2005 4.00	RCSB-10 RCSB-10(4-6) 11/29/2005 6.00	RCSB-11 RCSB-11(2-4) 11/29/2005 4.00
Mercury	(mg/kg)	0.10	0.062 U	0.061 U	0.065 U	0.061 U	[0.127]

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-11 RCSB-11(4-6) 11/29/2005 6.00	RCSB-12 RCSB-12(2-4) 11/29/2005 4.00	RCSB-12 RCSB-12(4-6) 11/29/2005 6.00	RCSB-13 RCSB-13(2-4) 11/29/2005 4.00	RCSB-13 RCSB-13(4-6) 11/29/2005 6.00
Mercury	(mg/kg)	0.10	0.061 U	0.066 U	[0.103] B	0.063 U	0.060 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-14 RCSB-14(2-4) 11/29/2005 4.00	RCSB-14 RCSB-14(4-6) 11/29/2005 6.00	RCSB-15 RCSB-15(2-4) 11/29/2005 4.00	RCSB-15 RCSB-15(4-6) 11/29/2005 6.00	RCSB-16 RCSB-16(2-4) 11/29/2005 4.00
Mercury	(mg/kg)	0.10	0.065 U	0.059 U	[0.131]	0.061 U	0.066 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-16 RCSB-16(4-6) 11/29/2005 6.00	RCSB-17 RCSB-17(2-4) 11/30/2005 4.00	RCSB-17 RCSB-17(4-6) 11/30/2005 6.00	RCSB-18 RCSB-18(2-4) 11/30/2005 4.00	RCSB-19 RCSB-19(2-4) 11/30/2005 4.00
Mercury	(mg/kg)	0.10	0.063 U	0.066 U	0.060 U	0.075 U	0.067 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-20 RCSB-20(2-4) 11/30/2005 4.00	RCSB-21 RCSB-21(2-4) 11/30/2005 4.00	RCSB-22 RCSB-22(2-4) 11/30/2005 4.00	RCSB-22 RCSB-22(4-6) 11/30/2005 6.00	RCSB-23 RCSB-23(2-4) 11/30/2005 4.00
Mercury	(mg/kg)	0.10	[0.460]	0.068 U	0.067 U	0.068 U	0.064 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-23 RCSB-23(4-6) 11/30/2005 6.00	RCSB-24 RCSB-24(2-4) 11/30/2005 4.00	RCSB-24 RCSB-24(4-6) 11/30/2005 6.00	RCSB-25 RCSB-25(2-4) 11/30/2005 4.00	RCSB-25 RCSB-25(4-6) 11/30/2005 6.00
Mercury	(mg/kg)	0.10	0.070 U	0.062 U	0.067 U	0.066 U	0.066 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-26 RCSB-26(2-4) 11/29/2005 4.00	RCSB-27 RCSB-27(0-2) 12/01/2005 2.00	RCSB-27 RCSB-27(2-4) 12/01/2005 4.00	RCSB-28 RCSB-28(0-2) 12/01/2005 2.00	RCSB-28 RCSB-28(2-4) 12/01/2005 4.00
Mercury	(mg/kg)	0.10	[0.825]	0.062 U	0.063 U	0.066 U	0.063 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-29 RCSB-29(0-2) 12/01/2005 2.00	RCSB-29 RCSB-29(2-4) 12/01/2005 4.00	RCSB-30 RCSB-30(0-2) 12/01/2005 2.00	RCSB-30 RCSB-30(2-4) 12/01/2005 4.00	RCSB-31 RCSB-31(2-4) 11/30/2005 4.00
Mercury	(mg/kg)	0.10	0.068 U	0.065 U	0.066 U	0.068 U	0.074 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 5
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
MERCURY

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-32 RCSB-32(2-4) 11/30/2005 4.00	RCSB-33 RCSB-33(2-4) 11/30/2005 4.00	RCSB-34 RCSB-34(2-4) 11/30/2005 4.00	RCSB-35 RCSB-35(2-4) 11/30/2005 4.00	RCSB-36 RCSB-36(2-4) 11/30/2005 4.00
Mercury	(mg/kg)	0.10	0.065 U	0.065 U	0.068 U	[0.105] B	0.066 U

mg/kg: milligrams/kilogram

Qualifers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 6
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
RCRA METALS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-27 RCSB-27(0-2) 12/01/2005 2.00	RCSB-27 RCSB-27(2-4) 12/01/2005 4.00	RCSB-28 RCSB-28(0-2) 12/01/2005 2.00	RCSB-28 RCSB-28(2-4) 12/01/2005 4.00	RCSB-29 RCSB-29(0-2) 12/01/2005 2.00
Arsenic	(mg/kg)	7.5	3.600	3.250	6.020	2.760	4.430
Barium	(mg/kg)	300	24.0	18.2 B	48.0	20.5 B	38.1
Cadmium	(mg/kg)	10	0.036 U	0.036 U	0.037 U	0.036 U	0.039 U
Chromium	(mg/kg)	50	8.390	7.730	10.7	9.110	12.5
Lead	(mg/kg)	400	21.1	7.310	50.5	9.400	16.2
Selenium	(mg/kg)	2	0.938 B	1.370	1.150	0.836 B	1.040 B
Silver	(mg/kg)		0.446 B	0.347 B	0.175 B	0.360 B	0.092 U

mg/kg: milligram/kilogram

The following qualifier(s) exist: CLP C: B, U =Not analyzed

TABLE 6
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
RCRA METALS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-29 RCSB-29(2-4) 12/01/2005 4.00	RCSB-30 RCSB-30(0-2) 12/01/2005 2.00	RCSB-30 RCSB-30(2-4) 12/01/2005 4.00
Arsenic	(mg/kg)	7.5	4.460	[25.3]	1.650
Barium	(mg/kg)	300	36.5	71	13.4 B
Cadmium	(mg/kg)	10	0.130 B	0.127 B	0.038 U
Chromium	(mg/kg)	50	10.4	13.5	4.670
Lead	(mg/kg)	400	18.3	132	4.500
Selenium	(mg/kg)	2	0.769 B	1.48	0.613 B
Silver	(mg/kg)		0.528 B		0.091 U

mg/kg: milligram/kilogram

[]=Greater than Action Level The following qualifier(s) exist: CLP C: B, U
=Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-27 RCSB-27(0-2) 12/01/2005 2.00	RCSB-27 RCSB-27(2-4) 12/01/2005 4.00	RCSB-28 RCSB-28(0-2) 12/01/2005 2.00	RCSB-28 RCSB-28(2-4) 12/01/2005 4.00	RCSB-29 RCSB-29(0-2) 12/01/2005 2.00
2,2-oxyblis (1-chloropropane)	(ug/kg)		58 U	57 U	60 U	58 U	61 U
2,4,5-Trichlorophenol	(ug/kg)	100	55 U	54 U	57 U	55 U	58 U
2,4,6-Trichlorophenol	(ug/kg)		53 U	52 U	55 U	53 U	56 U
2,4-Dichlorophenol	(ug/kg)	400	67 U	65 U	69 U	66 U	71 U
2,4-Dimethylphenol	(ug/kg)		57 U	56 U	59 U	57 U	61 U
2,4-Dinitrophenol	(ug/kg)	200	310 U	300 U	320 U	310 U	330 U
2,4-Dinitrotoluene	(ug/kg)		53 U	52 U	55 U	53 U	56 U
2,6-Dinitrotoluene	(ug/kg)	1000	51 U	50 U	53 U	51 U	54 U
2-Chloronaphthalene	(ug/kg)		60 U	59 U	62 U	59 U	63 U
2-Chlorophenol	(ug/kg)	800	58 U	56 U	59 U	57 U	61 U
2-Methylnaphthalene	(ug/kg)	36400	60 U	59 U	62 U	60 U	64 U
3,3-Dichlorobenzidine	(ug/kg)		62 U	61 U	64 U	61 U	65 U
4,6-Dinitro-o-cresol	(ug/kg)		70 U	69 U	72 U	70 U	74 U
4-Bromofluorobenzene	(ug/kg)		54 U	53 U	56 U	54 U	57 U
4-Chlorophenyl phenyl ether	(ug/kg)		57 U	56 U	59 U	57 U	60 U
Acenaphthene	(ug/kg)	50000	64 U	63 U	66 U	64 U	68 U
Acenaphthylene	(ug/kg)	41000	59 U	57 U	60 U	58 U	62 U
Acetophenone	(ug/kg)		53 U	52 U	54 U	52 U	56 U
Anthracene	(ug/kg)	50000	54 U	53 U	56 U	54 U	58 U
Atrazine	(ug/kg)		55 U	54 U	57 U	55 U	58 U
Benzaldehyde	(ug/kg)		74 U	73 U	76 U	74 U	78 U

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U =Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-27 RCSB-27(0-2) 12/01/2005 2.00	RCSB-27 RCSB-27(2-4) 12/01/2005 4.00	RCSB-28 RCSB-28(0-2) 12/01/2005 2.00	RCSB-28 RCSB-28(2-4) 12/01/2005 4.00	RCSB-29 RCSB-29(0-2) 12/01/2005 2.00
Benzo(a)anthracene	(ug/kg)	224	51 U	50 U	52 U	50 U	53 U
Benzo(a)pyrene	(ug/kg)	61	58 U	57 U	59 U	57 U	61 U
Benzo(b)fluoranthene	(ug/kg)	1100	210 J	200 J	230 J	200 J	42 U
Benzo(ghi)perylene	(ug/kg)	50000	60 U	59 U	61 U	59 U	63 U
Benzo(k)fluoranthene	(ug/kg)	1100	79 U	78 U	82 U	79 U	84 U
Biphenyl	(ug/kg)		59 U	58 U	61 U	59 U	63 U
Bis(2-chloroethoxy)methane	(ug/kg)		59 U	58 U	61 U	59 U	63 U
Bis(2-chloroethyl)ether	(ug/kg)		57 U	56 U	59 U	57 U	60 U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)	50000	69 U	68 U	71 U	69 U	73 U
Butyl benzyl phthalate	(ug/kg)	50000	58 U	57 U	60 U	58 U	62 U
Caprolactam	(ug/kg)		58 U	57 U	60 U	58 U	61 U
Carbazole	(ug/kg)		55 U	54 U	57 U	55 U	58 U
Chrysene	(ug/kg)	400	65 U	64 U	67 U	64 U	68 U
Dibenzo(a,h)anthracene	(ug/kg)	14	45 U	44 U	47 U	45 U	48 U
Dibenzofuran	(ug/kg)	6200	60 U	59 U	61 U	59 U	63 U
Diethyl phthalate	(ug/kg)	7100	62 U	61 U	64 U	62 U	66 U
Dimethyl phthalate	(ug/kg)	2000	58 U	57 U	60 U	58 U	61 U
Di-n-butyl phthalate	(ug/kg)	8100	55 U	54 U	57 U	55 U	58 U
Di-n-octyl phthalate	(ug/kg)	50000	61 U	60 U	63 U	61 U	65 U
Fluoranthene	(ug/kg)	50000	54 U	53 U	87 J	53 U	57 U
Fluorene	(ug/kg)	50000	61 U	60 U	63 U	60 U	64 U

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U, J =Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-27 RCSB-27(0-2) 12/01/2005 2.00	RCSB-27 RCSB-27(2-4) 12/01/2005 4.00	RCSB-28 RCSB-28(0-2) 12/01/2005 2.00	RCSB-28 RCSB-28(2-4) 12/01/2005 4.00	RCSB-29 RCSB-29(0-2) 12/01/2005 2.00
Hexachlorobenzene	(ug/kg)	410	58 U	57 U	59 U	57 U	61 U
Hexachlorobutadiene	(ug/kg)		56 U	54 U	57 U	55 U	59 U
Hexachlorocyclopentadiene	(ug/kg)		58 U	56 U	59 U	57 U	61 U
Hexachloroethane	(ug/kg)		61 U	60 U	63 U	61 U	65 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	46 U	45 U	47 U	46 U	48 U
Isophorone	(ug/kg)	4400	54 U	53 U	56 U	54 U	57 U
3-Nitroaniline	(ug/kg)	500	47 U	46 U	48 U	47 U	50 U
Naphthalene	(ug/kg)	13000	62 U	60 U	64 U	61 U	65 U
Nitrobenzene	(ug/kg)	200	79 U	77 U	81 U	78 U	83 U
N-Nitrosodiphenylamine	(ug/kg)		59 U	58 U	61 U	59 U	63 U
N-Nitrosodipropylamine	(ug/kg)		60 U	59 U	62 U	59 U	63 U
2-Methylphenol	(ug/kg)	100	60 U	59 U	62 U	60 U	63 U
2-Nitroaniline	(ug/kg)	430	46 U	45 U	47 U	46 U	48 U
2-Nitrophenol	(ug/kg)	330	56 U	54 U	57 U	55 U	59 U
4-Chloroaniline	(ug/kg)	220	43 U	42 U	44 U	43 U	45 U
4-Chloro-3-methylphenol	(ug/kg)	240	50 U	49 U	51 U	50 U	53 U
Pentachlorophenol	(ug/kg)	1000	84 U	82 U	86 U	83 U	88 U
4-Methylphenol	(ug/kg)	900	57 U	56 U	59 U	57 U	60 U
Phenanthrene	(ug/kg)	50000	58 U	56 U	69 J	57 U	61 U
Phenol	(ug/kg)	30	55 U	54 U	56 U	54 U	58 U
4-Nitroaniline	(ug/kg)		62 U	60 U	64 U	61 U	65 U

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U, J =Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-27 RCSB-27(0-2) 12/01/2005 2.00	RCSB-27 RCSB-27(2-4) 12/01/2005 4.00	RCSB-28 RCSB-28(0-2) 12/01/2005 2.00	RCSB-28 RCSB-28(2-4) 12/01/2005 4.00	RCSB-29 RCSB-29(0-2) 12/01/2005 2.00
4-Nitrophenol	(ug/kg)	100	45 U	44 U	46 U	44 U	47 U
Pyrene	(ug/kg)	50000	64 U	63 U	71 J	63 U	67 U
Total PAHs	(ug/kg)	500000	210	200	475	200	0
Total Semivolatile Organics	(ug/kg)	500000	210	200	457	200	0

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U, J =Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-29 RCSB-29(2-4) 12/01/2005 4.00	RCSB-30 RCSB-30(0-2) 12/01/2005 2.00	RCSB-30 RCSB-30(2-4) 12/01/2005 4.00
2,2-oxyblis (1-chloropropane)	(ug/kg)		59 U	120 U	62 U
2,4,5-Trichlorophenol	(ug/kg)	100	56 U	120 U	59 U
2,4,6-Trichlorophenol	(ug/kg)		54 U	110 U	57 U
2,4-Dichlorophenol	(ug/kg)	400	68 U	140 U	72 U
2,4-Dimethylphenol	(ug/kg)		58 U	120 U	61 U
2,4-Dinitrophenol	(ug/kg)	200	310 U	640 U	330 U
2,4-Dinitrotoluene	(ug/kg)		54 U	110 U	57 U
2,6-Dinitrotoluene	(ug/kg)	1000	52 U	110 U	55 U
2-Chloronaphthalene	(ug/kg)		61 U	130 U	64 U
2-Chlorophenol	(ug/kg)	800	59 U	120 U	62 U
2-Methylnaphthalene	(ug/kg)	36400	61 U	130 U	65 U
3,3-Dichlorobenzidine	(ug/kg)		63 U	130 U	66 U
4,6-Dinitro-o-cresol	(ug/kg)		71 U	150 U	75 U
4-Bromofluorobenzene	(ug/kg)		55 U	110 U	58 U
4-Chlorophenyl phenyl ether	(ug/kg)		58 U	120 U	61 U
Acenaphthene	(ug/kg)	50000	66 U	140 U	69 U
Acenaphthylene	(ug/kg)	41000	60 U	130 U	63 U
Acetophenone	(ug/kg)		54 U	110 U	57 U
Anthracene	(ug/kg)	50000	55 U	110 U	58 U
Atrazine	(ug/kg)		56 U	120 U	59 U
Benzaldehyde	(ug/kg)		76 U	160 U	79 U

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U =Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-29 RCSB-29(2-4) 12/01/2005 4.00	RCSB-30 RCSB-30(0-2) 12/01/2005 2.00	RCSB-30 RCSB-30(2-4) 12/01/2005 4.00
Benzo(a)anthracene	(ug/kg)	224	51 U	110 U	54 U
Benzo(a)pyrene	(ug/kg)	61	59 U	120 U	62 U
Benzo(b)fluoranthene	(ug/kg)	1100	220 J	82 U	43 U
Benzo(ghi)perylene	(ug/kg)	50000	61 U	130 U	64 U
Benzo(k)fluoranthene	(ug/kg)	1100	81 U	170 U	85 U
Biphenyl	(ug/kg)		61 U	130 U	64 U
Bis(2-chloroethoxy)methane	(ug/kg)		60 U	130 U	64 U
Bis(2-chloroethyl)ether	(ug/kg)		58 U	120 U	61 U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)	50000	71 U	150 U	74 U
Butyl benzyl phthalate	(ug/kg)	50000	59 U	120 U	63 U
Caprolactam	(ug/kg)		59 U	120 U	62 U
Carbazole	(ug/kg)		56 U	120 U	59 U
Chrysene	(ug/kg)	400	66 U	140 U	69 U
Dibenzo(a,h)anthracene	(ug/kg)	14	46 U	90 U	49 U
Dibenzofuran	(ug/kg)	6200	61 U	130 U	64 U
Diethyl phthalate	(ug/kg)	7100	64 U	130 U	67 U
Dimethyl phthalate	(ug/kg)	2000	59 U	120 U	62 U
Di-n-butyl phthalate	(ug/kg)	8100	56 U	120 U	59 U
Di-n-octyl phthalate	(ug/kg)	50000	63 U	130 U	66 U
Fluoranthene	(ug/kg)	50000	60 J	110 U	58 U
Fluorene	(ug/kg)	50000	62 U	130 U	65 U

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U, J =Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-29 RCSB-29(2-4) 12/01/2005 4.00	RCSB-30 RCSB-30(0-2) 12/01/2005 2.00	RCSB-30 RCSB-30(2-4) 12/01/2005 4.00
Hexachlorobenzene	(ug/kg)	410	59 U	120 U	62 U
Hexachlorobutadiene	(ug/kg)		57 U	120 U	60 U
Hexachlorocyclopentadiene	(ug/kg)		59 U	120 U	62 U
Hexachloroethane	(ug/kg)		63 U	130 U	66 U
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	47 U	90 U	49 U
Isophorone	(ug/kg)	4400	55 U	110 U	58 U
3-Nitroaniline	(ug/kg)	500	48 U	100 U	50 U
Naphthalene	(ug/kg)	13000	63 U	130 U	66 U
Nitrobenzene	(ug/kg)	200	80 U	170 U	84 U
N-Nitrosodiphenylamine	(ug/kg)		61 U	130 U	64 U
N-Nitrosodipropylamine	(ug/kg)		61 U	130 U	64 U
2-Methylphenol	(ug/kg)	100	61 U	130 U	64 U
2-Nitroaniline	(ug/kg)	430	47 U	90 U	49 U
2-Nitrophenol	(ug/kg)	330	57 U	120 U	60 U
4-Chloroaniline	(ug/kg)	220	44 U	90 U	46 U
4-Chloro-3-methylphenol	(ug/kg)	240	51 U	110 U	53 U
Pentachlorophenol	(ug/kg)	1000	85 U	170 U	90 U
4-Methylphenol	(ug/kg)	900	58 U	120 U	61 U
Phenanthrene	(ug/kg)	50000	59 U	120 U	62 U
Phenol	(ug/kg)	30	56 U	120 U	59 U
4-Nitroaniline	(ug/kg)		63 U	130 U	66 U

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U =Not analyzed

TABLE 7
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-29 RCSB-29(2-4) 12/01/2005 4.00	RCSB-30 RCSB-30(0-2) 12/01/2005 2.00	RCSB-30 RCSB-30(2-4) 12/01/2005 4.00
4-Nitrophenol	(ug/kg)	100	46 U	90 U	48 U
Pyrene	(ug/kg)	50000	65 U	140 U	68 U
Total PAHs	(ug/kg)	500000	280	0	0
Total Semivolatile Organics	(ug/kg)	500000	280	0	0

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U =Not analyzed

TABLE 8
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
PCBs

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-22 RCSB-22(2-4) 11/30/2005 4.00	RCSB-22 RCSB-22(4-6) 11/30/2005 6.00	RCSB-23 RCSB-23(2-4) 11/30/2005 4.00	RCSB-23 RCSB-23(4-6) 11/30/2005 6.00	RCSB-24 RCSB-24(2-4) 11/30/2005 4.00
Aroclor 1016	(ug/kg)	10000	3.0 U	2.8 U	2.9 U	2.9 U	2.9 U
Aroclor 1221	(ug/kg)	10000	4.6 U	4.3 U	4.4 U	4.4 U	4.4 U
Aroclor 1232	(ug/kg)	10000	6.9 U	6.4 U	6.6 U	6.6 U	6.6 U
Aroclor 1242	(ug/kg)	10000	6.1 U	5.7 U	5.9 U	5.9 U	5.9 U
Aroclor 1248	(ug/kg)	10000	3.0 U	2.8 U	2.9 U	2.9 U	2.9 U
Aroclor 1254	(ug/kg)	10000	1.9 U	1.8 U	1.9 U	59	1.9 U
Aroclor 1260	(ug/kg)	10000	28	24	40	4.7 U	40
Total PCBs	(ug/kg)	10000	28	24	40	59	40

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U =Not analyzed

TABLE 8
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
PCBs

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-24 RCSB-24(4-6) 11/30/2005 6.00	RCSB-27 RCSB-27(0-2) 12/01/2005 2.00	RCSB-27 RCSB-27(2-4) 12/01/2005 4.00	RCSB-28 RCSB-28(0-2) 12/01/2005 2.00	RCSB-28 4CSB-28(2-4) 12/01/2005 4.00
Aroclor 1016	(ug/kg)	10000	2.9 U	2.8 U	2.7 U	2.8 U	2.7 U
Aroclor 1221	(ug/kg)	10000	4.5 U	4.3 U	4.2 U	4.4 U	4.2 U
Aroclor 1232	(ug/kg)	10000	6.8 U	6.4 U	6.3 U	6.6 U	6.3 U
Aroclor 1242	(ug/kg)	10000	6.0 U	5.7 U	5.6 U	5.9 U	5.6 U
Aroclor 1248	(ug/kg)	10000	2.9 U	2.8 U	2.7 U	2.9 U	2.7 U
Aroclor 1254	(ug/kg)	10000	59	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1260	(ug/kg)	10000	4.9 U	4.6 U	4.5 U	1000 D	89
Total PCBs	(ug/kg)	10000	59	0	0	1000	89

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U, D =Not analyzed

TABLE 8
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
SUBSURFACE SOIL SAMPLE RESULTS
PCBs

PERIOD: From 11/29/2005 thru 12/01/2005 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	RCSB-29 RCSB-29(0-2) 12/01/2005 2.00	RCSB-29 RCSB-29(2-4) 12/01/2005 4.00	RCSB-30 RCSB-30(0-2) 12/01/2005 2.00	RCSB-30 RCSB-30(2-4) 12/01/2005 4.00
Aroclor 1016	(ug/kg)	10000	2.9 U	2.8 U	3.0 U	3.0 U
Aroclor 1221	(ug/kg)	10000	4.5 U	4.4 U	4.6 U	4.6 U
Aroclor 1232	(ug/kg)	10000	6.8 U	6.6 U	6.9 U	6.9 U
Aroclor 1242	(ug/kg)	10000	6.0 U	5.9 U	6.1 U	6.1 U
Aroclor 1248	(ug/kg)	10000	2.9 U	2.8 U	3.0 U	3.0 U
Aroclor 1254	(ug/kg)	10000	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1260	(ug/kg)	10000	270	77	600 D	170
Total PCBs	(ug/kg)	10000	270	77	600	170

ug/kg: microgram/kilogram

The following qualifier(s) exist: CLP Q: U, D =Not analyzed

TABLE 9
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
GROUNDWATER SAMPLE RESULTS
TAL METALS & MERCURY

PERIOD: From 11/30/2005 thru 12/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE	NYSDEC SCG	RCGP-01 RCGP-1 11/30/2005	RCGP-01 RCGP-01F 11/30/2005	RCGP-02 RCGP-02 12/01/2005	RCGP-02 RCGP-02F 12/01/2005	RCGP-03 RCGP-03 12/01/2005
Aluminum	(ug/l)		5210	128 B	5770	168 B	532
Antimony	(ug/l)	3	3.170 U	3.170 U	3.170 U	3.170 U	3.170 U
Arsenic	(ug/l)	25	7.790 B	3.320 U	6.070 B	3.320 U	3.320 U
Barium	(ug/l)	1000	29.6 B	5.070 B	111 B	69.6 B	31.0 B
Beryllium	(ug/l)	3	0.580 B	0.300 B	0.730 B	0.380 B	0.410 B
Cadmium	(ug/l)	5	0.327 U	0.327 U	0.327 U	0.410 B	0.327 U
Calcium	(ug/l)		34800	29500	8530	6640	30300
Chromium	(ug/l)	50	28.0	0.343 U	25.3	0.860 B	3.000 B
Cobalt	(ug/l)		14.2 B	3.750 B	11.5 B	3.620 B	3.040 B
Copper	(ug/l)	200	29.8	5.730 B	27.6	4.170 B	4.860 B
Iron	(ug/l)	300	[16700]	296	[11900]	[559]	[1620]
Lead	(ug/l)	25	15.0	2.440 B	10.0	2.670 B	3.020 B
Magnesium	(ug/l)	35000	4520 B	3140 B	3590 B	1630 B	4130 B
Manganese	(ug/l)	300	[574]	124	227	55.4	86.6
Mercury	(ug/l)	0.7	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U
Nickel	(ug/l)	100	1.560 U	1.560 U	1.560 U	1.560 U	1.560 U
Potassium	(ug/l)		5860	4290 B	19300	18400	8460
Selenium	(ug/l)	10	3.650 B	3.410 B	3.040 U	3.040 U	3.040 U
Silver	(ug/l)	50	1.640 U	1.640 U	1.640 U	1.640 U	1.640 U
Sodium	(ug/l)	20000	[66500]	[56000]	1780 B	1520 B	[34700]
Thallium	(ug/l)	0.5	3.050 U	3.050 U	3.050 U	3.050 U	3.050 U

ug/L: micrograms/liter

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 9
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
GROUNDWATER SAMPLE RESULTS
TAL METALS & MERCURY

PERIOD: From 11/30/2005 thru 12/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE	NYSDEC SCG	RCGP-01 RCGP-1 11/30/2005	RCGP-01 RCGP-01F 11/30/2005	RCGP-02 RCGP-02 12/01/2005	RCGP-02 RCGP-02F 12/01/2005	RCGP-03 RCGP-03 12/01/2005
Vanadium	(ug/l)		19.8 B	0.701 U	17.0 B	0.701 U	0.701 U
Zinc	(ug/l)	2000	45.3	17.7 B	121	58.0	43.3

ug/L: micrograms/liter

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 9
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
GROUNDWATER SAMPLE RESULTS
TAL METALS & MERCURY

PERIOD: From 11/30/2005 thru 12/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE	NYSDEC SCG	RCGP-03 RCGP-03F 12/02/2005
Aluminum	(ug/l)		81.9 B
Antimony	(ug/l)	3	3.170 U
Arsenic	(ug/l)	25	3.320 U
Barium	(ug/l)	1000	25.8 B
Beryllium	(ug/l)	3	0.360 B
Cadmium	(ug/l)	5	0.327 U
Calcium	(ug/l)		27900
Chromium	(ug/l)	50	0.500 B
Cobalt	(ug/l)		2.400 B
Copper	(ug/l)	200	3.640 U
Iron	(ug/l)	300	[439]
Lead	(ug/l)	25	2.650 B
Magnesium	(ug/l)	35000	3740 B
Manganese	(ug/l)	300	55.0
Mercury	(ug/l)	0.7	0.0300 U
Nickel	(ug/l)	100	1.560 U
Potassium	(ug/l)		7590
Selenium	(ug/l)	10	3.760 B
Silver	(ug/l)	50	1.640 U
Sodium	(ug/l)	20000	[31600]
Thallium	(ug/l)	0.5	3.050 U

ug/L: micrograms/liter

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 9
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
GROUNDWATER SAMPLE RESULTS
TAL METALS & MERCURY

PERIOD: From 11/30/2005 thru 12/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE	NYSDEC SCG	RCGP-03 RCGP-03F 12/02/2005
Vanadium	(ug/l)		0.701 U
Zinc	(ug/l)	2000	34.0

ug/L: micrograms/liter

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 10
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
GROUNDWATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 11/30/2005 thru 12/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE	NYSDEC SCG	RCGP-01 RCGP-1 11/30/2005	RCGP-02 RCGP-02 12/01/2005	RCGP-03 RCGP-03 12/01/2005
1,1,1-Trichloroethane	(ug/l)	5	0.32 U	0.32 U	0.32 U
1,1,2,2-Tetrachloroethane	(ug/l)	5	0.30 U	0.30 U	0.30 U
1,1,2-Trichloroethane	(ug/l)	1	0.41 U	0.41 U	0.41 U
1,1-Dichloroethane	(ug/l)	5	0.38 U	0.38 U	0.38 U
1,1-Dichloroethylene	(ug/l)	5	0.42 U	0.42 U	0.42 U
1,2,4-Trichlorobenzene	(ug/l)	5	0.46 U	0.46 U	0.46 U
1,2-Dichloroethane	(ug/l)	0.6	0.34 U	0.34 U	0.34 U
1,2-Dichloropropane	(ug/l)	1	0.40 U	0.40 U	0.40 U
2-Hexanone	(ug/l)	50	1.7 U	1.7 U	1.7 U
Acetone	(ug/l)	50	2.3 U	2.3 U	2.3 U
Benzene	(ug/l)	1.0	0.39 U	0.39 U	0.39 U
Benzene, 1-methylethyl-	(ug/l)	5	0.44 U	0.44 U	0.44 U
Bromodichloromethane	(ug/l)	50	0.33 U	0.33 U	0.33 U
Bromoform	(ug/l)	50	0.32 U	0.32 U	0.32 U
Carbon disulfide	(ug/l)		0.40 U	0.40 U	0.40 U
Carbon tetrachloride	(ug/l)	5	1.1 U	1.1 U	1.1 U
Chlorobenzene	(ug/l)	5	0.47 U	0.47 U	0.47 U
Chloroethane	(ug/l)	5	0.83 U	0.83 U	0.83 U
Chloroform	(ug/l)	7	0.33 U	0.33 U	0.33 U
cis-1,2-Dichloroethylene	(ug/l)	5	0.29 U	0.29 U	0.29 U
cis-1,3-Dichloropropene	(ug/l)	0.4	0.36 U	0.36 U	0.36 U

ug/l: micrograms/liter

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 10
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
GROUNDWATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 11/30/2005 thru 12/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE	NYSDEC SCG	RCGP-01 RCGP-1 11/30/2005	RCGP-02 RCGP-02 12/01/2005	RCGP-03 RCGP-03 12/01/2005
Cyclohexane	(ug/l)		0.36 U	0.36 U	0.36 U
DBCP	(ug/l)	0.04	0.38 U	0.38 U	0.38 U
Dibromochloromethane	(ug/l)	50	0.26 U	0.26 U	0.26 U
Dichlorodifluoromethane	(ug/l)	5	0.17 U	0.17 U	0.17 U
EDB	(ug/l)	0.0006	0.32 U	0.32 U	0.32 U
Ethene, 1,2-dichloro-, (E)-	(ug/l)	5	0.40 U	0.40 U	0.40 U
Ethylbenzene	(ug/l)	5	0.45 U	0.45 U	0.45 U
Freon 113	(ug/l)		1.3 U	1.3 U	1.3 U
m-Dichlorobenzene	(ug/l)	3	0.50 U	0.50 U	0.50 U
Methyl Acetate	(ug/l)		0.20 U	0.20 U	0.20 U
Methyl bromide	(ug/l)	5	0.41 U	0.41 U	0.41 U
Methyl chloride	(ug/l)	5	0.34 U	0.34 U	0.34 U
Methyl ethyl ketone	(ug/l)	50	1.1 U	1.1 U	1.1 U
Methyl isobutylketone (MIBK)	(ug/l)		1.6 U	1.6 U	1.6 U
Methylcyclohexane	(ug/l)		0.34 U	0.34 U	0.34 U
Methylene chloride	(ug/l)	5	0.43 U	0.43 U	0.43 U
Methyltert-butylether	(ug/l)	10	0.28 U	0.28 U	0.28 U
o-Dichlorobenzene	(ug/l)	3	0.44 U	0.44 U	0.44 U
o-Xylene	(ug/l)		0.46 U	0.46 U	0.46 U
p-Dichlorobenzene	(ug/l)	3	0.54 U	0.54 U	0.54 U
p-Xylene	(ug/l)		1.2 U	1.2 U	1.2 U

ug/l: micrograms/liter

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

TABLE 10
LONG ISLAND RAILROAD - 17 SUBSTATIONS
ROCKVILLE CENTRE SUBSTATION
GROUNDWATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 11/30/2005 thru 12/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE	NYSDEC SCG	RCGP-01 RCGP-1 11/30/2005	RCGP-02 RCGP-02 12/01/2005	RCGP-03 RCGP-03 12/01/2005
Styrene	(ug/l)	5	0.41 U	0.41 U	0.41 U
Tetrachloroethylene	(ug/l)	5	0.48 U	0.48 U	0.48 U
Toluene	(ug/l)	5	0.36 U	0.36 U	0.36 U
Trans-1,3-Dichloropropene	(ug/l)	0.4	0.32 U	0.32 U	0.32 U
Trichloroethylene	(ug/l)	5	0.46 U	0.46 U	0.46 U
Trichlorofluoromethane	(ug/l)	5	0.22 U	0.22 U	0.22 U
Vinyl chloride	(ug/l)	2	0.33 U	0.33 U	0.33 U
TOTAL VOLATILE ORGANICS	(ug/l)		0	0	0

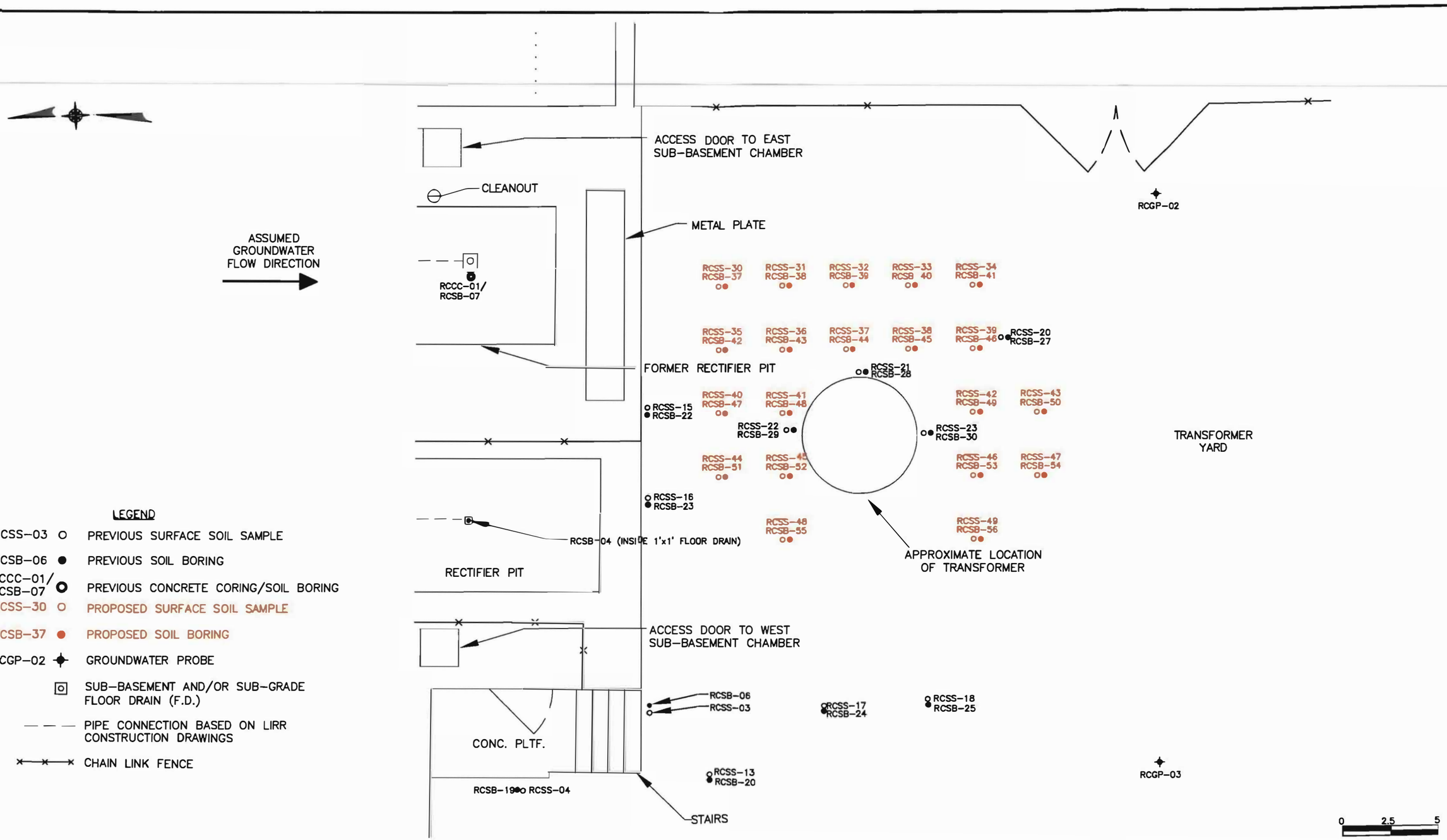
ug/l: micrograms/liter

Qualifiers defined in Attachment 4: Data Flag/Qualifiers

[ ]: Value exceeds NYSDEC SCG

ATTACHMENT 5

LIRR ROCKVILLE CENTRE SUBSTATION
PROPOSED SAMPLE LOCATION MAP



SOURCE: AVAILABLE LONG ISLAND RAIL ROAD CONSTRUCTION DRAWINGS AND D&B's FIELD OBSERVATIONS

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

LONG ISLAND RAIL ROAD
DELINEATION PHASE II SITE ASSESSMENT

PROPOSED SAMPLE LOCATION MAP
ROCKVILLE CENTRE SUBSTATION (V00401-1)

FIGURE 2