Appendix C

Halsted Building Remedial Investigation Results – Soil Technical Memorandum

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Technical Memorandum

To	Mark Terrill, Keith Prins, Brian McGuire, and Richard Feinberg	Page	1
CC	Scott Mikaelian		
Subject	Halsted Building Remedial Investigation Results – Soil		
From	Bill Spronz and Bob Cataldo		
Date	June 22, 2014		

1. Introduction

This technical memorandum summarizes remedial investigation ("RI") work conducted by PPG, Industries, Inc. ("PPG") within the Halsted Building located at 78 Halladay Street in Jersey City, New Jersey. Several RI phases were been completed to assess potential chromium impacts beneath the building and within the building interior (**Table 1, Figure 1**).

Conversations with Robert Gerraghty, the Halsted Building Warehouse Manager, indicated that the building was constructed during the late 1920s, prior to Chromium Chemical Production Waste ("CCPW") being used as fill material in the area. Soil investigations conducted during the 2006 Site 114 RI and the 2011 Garfield Avenue Group Soil RI detected Cr^{+6} impacts near the Halsted Building in Halladay Street and Carteret Avenue. Fill material containing CCPW was identified near the Halsted Building in four soil borings located in Carteret Avenue (OSB-22, EF-49, PSEG-SB53, & PSEG-SB54) and five soil borings located in Halladay Street (HB, OSB-23, OSB-24, PSEG-SB40, & X36) during the Site 114 RIs. Therefore, the NJDEP requested that PPG advance soil borings through the floor inside of the Halsted Building to determine whether the Cr^{+6} and CCPW impacts extended beneath the building.

Based upon the results of these investigations, hexavalent chromium ("Cr^{+6}") impacts exceeding the New Jersey Department of Environmental Protection ("NJDEP") interim Chromium Soil Cleanup Criteria ("CrSCC") of 20 milligrams per kilogram ("mg/kg") were identified within the top 4.5 feet beneath the floor. Of the material that was observed, none of it was consistent with CCPW.

Halsted Building Construction Details

Interviews with Halsted personnel indicated that construction of the Halsted Building began in 1927 and business operations began in 1929. It appears that the foundation box may have been filled in after the box was constructed. The reasons this could be the case are because the fill inside the foundation box is different than the fill outside the building and the foundation is at a higher grade than the surrounding grade. A 6-inch thick (average) concrete slab floor was installed on top of the fill material. The source of the material used to fill in the foundation box is unknown.

The height of the floor varies from 2.5' above grade at Halladay Street on the southwestern corner of the building to 3.5' above grade at the southeastern corner of the building in the alleyway north of Carteret Avenue. The building floor is about 1 to 2 feet above grade at the northern end of the original structure and at grade at the northern end of the building annex that was added in the early 1930's.

2. RI Work Summary

Soil borings were advanced in Halladay Street, Carteret Avenue, and the alley behind the Halsted Building during PPG and PSE&G RIs conducted from 2004 through 2006 to delineate soil and groundwater impacts potentially emanating from Site 114. The borings were advanced via GeoProbe and

hollow-stem auger drilling rigs and samples were collected for visual identification of CCPW (PPG) and Manufactured Gas Plant ("MGP") waste material (PSE&G). Analytical samples were collected to identify potential contaminants related to the former MGP facility and the former chromate ore processing facility that were located on Site 114. The boring logs and analytical results were shared by PPG and PSE&G to determine the extent of the impacts that each party was responsible for investigating and remediating.

Based upon the results of these investigations, additional RI work was conducted by PPG in 2011 during the GA Group Soil RI. Soil borings were advanced in Carteret Avenue and the alley behind the Halsted Building (to the east) to refine the delineation of compounds and environmental impacts potentially emanating from Site 114. Based upon the results of the 2004-2006 RIs and the GA Group soil RI in 2011, soil borings were proposed inside of the Halsted Building to determine whether CCPW or CCPW-impacted material was present beneath the floor of the building.

December 2011 Sub-Floor Soil Investigation

Twelve soil borings were advanced through the floor of the Halsted Building in December 2011 using a GeoProbe drill rig. A GeoProbe rotary hammer was used to drill through the concrete floor at each boring location and the borings were advanced to a depth of 20 feet below the floor surface via direct push drilling (**Figure 1**). Three soil borings (H1B, H2B, & H3B) were extended to 35 feet deep to delineate non-chrome related compounds emanating from Site 114. A soil sample was collected from the top 0.5 feet of soil immediately beneath the floor and every 2-foot interval down to the meadow mat. One analytical sample was collected from each 5-foot interval thereafter. Soil samples were analyzed for Cr^{+6} and the CCPW Metals (antimony, chromium, nickel, thallium, and vanadium) for the chrome investigation (**Table 2**). The samples collected below the meadow mat were also analyzed for volatile organic compounds ("VOCs"). The focus of this memorandum is potential chrome and CCPW impacts. Therefore, the VOC samples will not be discussed in this memorandum.

One water sample was collected from a sump located in the basement of the building and analyzed for Cr^{+6} and the USEPA Target Analyte List ("TAL") Metals.

September 2012 Sub-Floor Soil Investigation

Based upon the results of the December 2012 sub-floor soil investigation conducted inside of the Halsted Building, PPG determined that additional horizontal delineation was needed to characterize the extent of Cr^{+6} detected in soil samples collected from the 0 to 1.0-foot interval beneath the floor. Sixteen shallow soil borings were advanced to a depth of about 2-feet beneath the floor surface at radial distances of five and 10 feet surrounding 2011 soil borings H1A and H4A (**Figure 1**).

The concrete floor was cored prior to advancement of the soil borings and the concrete cores were inspected for staining and/or potential CCPW impacts. Visible staining was identified in four of these cores. Therefore, these four cores were submitted to the laboratory for Cr^{+6} analysis. The soil samples collected from beneath the floor were analyzed for Cr^{+6} (**Figure 2**).

February through May 2014 Sub-Floor and Building Interior Investigation

Soil Borings

Eighteen additional soil borings were advanced through the floor of the Halsted Building in early 2014. Seven soil borings were advanced to a depth of four feet beneath the floor for horizontal delineation purposes. Eleven soil borings were advanced to undisturbed native material ("UND") beneath the meadow mat (about 20 feet deep) for vertical and horizontal delineation purposes.

The concrete floor was cored at each boring location. Each core was visually inspected for CCPW impacts and/or visual staining. The top and bottom of each core were submitted to the laboratory for Cr^{+6} analysis. Soil borings were advanced beneath the floor via GeoProbe and samples were collected from the top 0.5-foot interval immediately beneath the floor and from every 2-foot interval thereafter. Soil samples were analyzed for Cr^{+6} and the CCPW Metals.

Test Pits

Two test pits were excavated to a depth of 2-feet beneath the building floor for visual characterization of the fill material. The main purpose of these test pits was to determine whether CCPW or CCPW impacted material was visible beneath the floor. The test pits were located at the northern and southern ends of the original Halsted Building at the boring location with the highest Cr^{+6} concentrations from previous investigations (H1A3 and H4A4).

Soil samples were collected from the top 0.5-foot interval immediately below the floor and from the excavation bottom and sent to the laboratory for Cr^{+6} and CCPW metals analysis.

Concrete Chip Samples

Green staining was observed in four locations on the surface of the building floor while conducting the soil boring work. These areas were identified as potential areas of concern ("AOCs"). Concrete chip samples were collected from the stained areas and analyzed for Cr^{+6} to determine whether these AOCs were potential chrome blooms (**Figure 1**). Hexavalent chromium was detected in three of these four AOCs and interim remedial measures ("IRMs") were implemented to prevent human contact with the chrome blooms. The IRMs consisted of cleaning each area and sealing it with epoxy.

Based upon the chip sampling results, a program was implemented to inspect the floors, walls, and basement throughout the Halsted Building for potential chrome blooms. Additional chrome blooms were identified in the basement and IRMs were implemented to address these blooms. PPG is coordinating with the building owner to clear areas as inventory is drawn down so that portions of the walls and floor can be exposed for inspection. This will be conducted area by area until the entire building has been inspected for potential chrome blooms. The building and floor inspection program is ongoing and is expected to be completed by the end of June 2014.

Basement Sump

A water sample was collected from the basement sump and analyzed for Cr^{+6} and total chrome to confirm previous sump sampling results.

3. Investigation Results

Hexavalent chromium and CCPW metals were detected at concentrations exceeding regulatory limits in soil samples collected outside of the building during the 2004-2011 RIs and samples collected beneath the building floor during the 2011-2014 building interior investigations (**Figures 2 through 4, Tables 4 through 6**). Although visible CCPW was identified in borings advanced in Halladay Street and Carteret Avenue during previous RI work, no visible CCPW was identified beneath the floor of the Halsted Building in any of the borings or test pits completed during the building interior investigations.

Visual observation and laboratory analysis of concrete chip samples confirmed that chrome blooms were present on the building floor and basement walls (**Table 7**). Water samples collected from the basement sump confirmed that chromium is not present above the NJDEP Groundwater Quality Standards ("GWQS") (**Table 2**).

Visual Observations

The fill material beneath the floor of the Halsted Building included a concentrated layer of ash, cinders, and coal fill immediately beneath the floor that is underlain by miscellaneous fill material with minor components of coal and ash that was more typical of the historic fill material observed throughout the GA Group (**Figures 5 through 8; and Attachment A**). The more concentrated layer of ash, cinder, and coal was clearly visible in the two test pits excavated beneath the building floor (HTP1 and HTP2) and was likely placed within the foundation box during building construction. The source of this material is not known.

Green staining was observed in several of the concrete cores collected from the building floor during the soil boring program and was observed in the floor cut for HTP1, the northern test pit. In several cases, the staining appeared to originate at the top of the core and migrate downward rather than from the underlying fill material.

No visual evidence of CCPW was observed in any of the soil borings or test pits advanced through the building floor.

Green staining was observed at four locations on the building floor, two locations along the eastern building wall, and five locations in the basement. Analytical sampling indicated that three of the floor samples, one of the wall samples, and three of the basement samples had concentrations of Cr^{+6} exceeding the CrSCC and an Epoxy IRM was implemented at each of these locations (**Figure 2, Table 7**).

Analytical Results – Exterior Soil Borings

Analytical results from the soil samples collected from outside of the Halsted Building during the RIs conducted between 2004 and 2011 detected Cr^{+6} at concentrations exceeding the CrSCC. CCPW metals were detected at concentrations exceeding the NJDEP Residential Direct Contact Soil Remediation Standards ("RDC SRS") and the default Impact to Groundwater Soil Screening Levels ("IGW SSL").

The Cr^{+6} exceedances were mainly found in Halladay Street between Site 114 and the Halsted Building and ranged in depth from just below the ground surface ("bgs") to 29 feet bgs (**Figure 2, Table 5**). The only CCPW metal exceeding the RDC SRS was vanadium, which was generally found at depths less than 3 feet bgs (**Figure 3, Table 5**). CCPW metals nickel and antimony were detected at concentrations

exceeding the default IGW SSLs in the Halladay Street borings and only nickel was detected at concentrations exceeding the IGW SSL in Carteret Avenue (**Figure 4, Table 6**).

Analytical Results – Interior Borings

Analytical results from the concrete floor cores and the soil samples collected beneath the Halsted Building floor during the 2011, 2012, and 2014 building interior investigations detected Cr^{+6} at concentrations exceeding the CrSCC (**Figure 2, Tables 4 and 5**). CCPW metals were detected at concentrations exceeding the NJDEP RDC SRS and the default IGW SSL in the soils beneath the building floor (**Figures 3 & 4, Tables 5 & 6**).

Hexavalent Chromium

All four of the concrete cores analyzed during the September 2011 sub-floor investigation and five of the 18 concrete cores analyzed during the 2014 sub-floor investigation had Cr^{+6} concentrations exceeding the CrSCC (**Table 4**). Analytical samples were collected from the top and bottom of the 18 cores from the 2014 investigation to determine whether an upward or downward Cr^{+6} concentration trend was evident in the cores and the soil immediately beneath the concrete floor:

- All four of the 2011 concrete cores had Cr^{+6} concentrations that were higher than the soil immediately beneath the concrete floor.
- Two of the five 2014 cores exhibited higher concentrations of Cr^{+6} at the top of the core than the concentration at the bottom of the core.
- Four of the five 2014 concrete cores had a higher Cr^{+6} concentration than the soil immediately beneath the floor. None of the soil samples collected immediately beneath these cores exceeded the CrSCC.

In all but five of the 46 soil borings advanced through the building floor, Cr^{+6} exceedances in the soil beneath the Halsted Building were limited to the layer of soil extending to 1.5 feet beneath the floor surface in the concentrated ash, cinder, and coal layer (**Figure 2 and Figures 5 through 8**). Out of the five exceptions, two of the Cr^{+6} exceedances were in the 2.0 to 2.5 foot interval and two were in the 4.0 to 4.5 foot interval beneath the floor surface. The remaining exception was detected at 14 to 14.5 feet beneath the surface of the concrete floor and is likely due to material falling into the open GeoProbe borehole from above rather than a deeper exceedance.

CCPW Metals

Antimony, nickel and vanadium were detected at concentrations exceeding the RDC SRS in 13 of the 46 soil borings advanced beneath the Halsted Building floor. The two vanadium exceedances are co-located with Cr^{+6} exceedances reported in these same samples. Antimony and nickel were found at various depths and were not generally co-located with Cr^{+6} exceedances. Therefore, it appears that antimony and nickel exceedances of the RDC SRS are related to historic fill rather than potential chromium impacts.

Antimony, nickel and thallium were detected at concentrations exceeding the default IGW SSL in 21 of the 46 soil borings advanced through the floor of the Halsted Building. In general, the depths and locations of these exceedances do not correlate with Cr^{+6} exceedances and are likely related to historic fill rather than potential chromium impacts.

4. Summary

In addition to the RI work conducted outside of the Halsted Building during the GA Group RI, three sub-floor investigations were conducted within the Halsted Building and an inspection program is currently in progress to identify potential chromium blooms on the walls and floor of the building. Based upon the physical observations and analytical results, the following conclusions are presented:

- Of the material observed beneath the floor of the Halsted Building, none of it was consistent with CCPW;
- Hexavalent chromium impacts are co-located in the layer of historic fill containing more concentrated portions of ash, cinders, and coal;
- This concentrated ash, cinder, and coal layer is generally found within the foundation box of the Halsted Building and not outside of the building footprint;
- The concentrated ash, cinder, and coal layer is higher in elevation than the surrounding grade level of Halladay and Carteret Streets;
- Four concrete cores collected from the building floor in 2011 and five concrete cores collected in 2014 had Cr^{+6} concentrations greater than the 20 mg/kg CrSCC;
    - Eight of these nine concrete cores had higher concentrations of Cr^{+6} than the concentrations detected in the underlying soil;
    - The Cr^{+6} concentration in the underlying soil at four of these nine core locations was well below the CrSCC;
- The Cr^{+6} exceedances within the building are higher in elevation than the exceedances outside of the building;
- The groundwater depth in nearby well 114-MW20A was about 8 feet below the Halladay Street grade level on May 9, 2014. This is about 10.5 feet below the floor at the south end of the building and about 9.5 feet below the floor at the north end of the building;
- The Cr^{+6} exceedances detected beneath the building floor are well above the water table; and,
- CCPW metals exceedances are not generally co-located with Cr^{+6} exceedances.

5. Conclusions

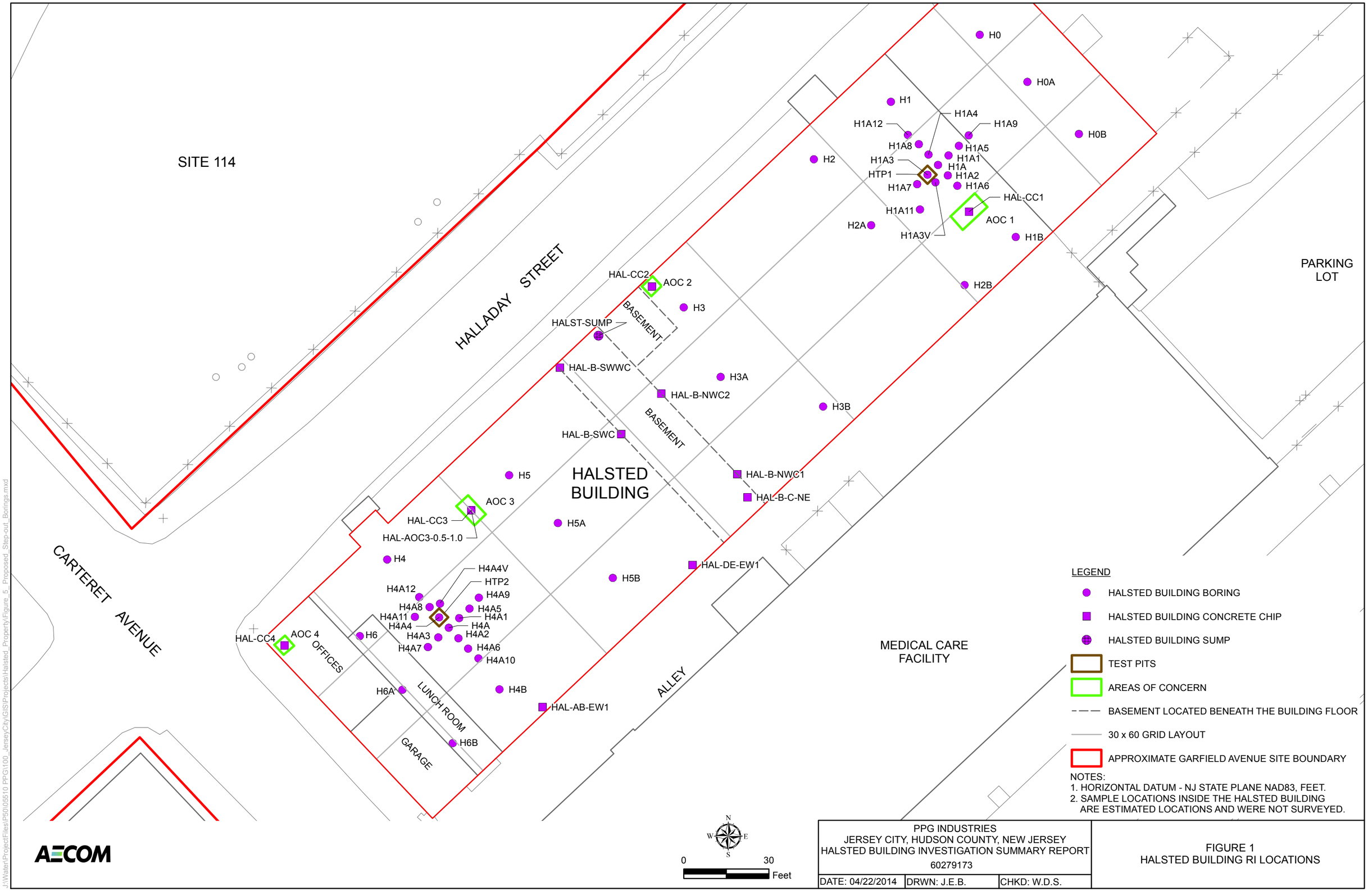
The physical and analytical evidence indicate that the Cr^{+6} exceedances were detected in the top 4.5 feet beneath the building floor, and in most cases these exceedances are limited to the top 1.5 to 2 feet beneath the floor. This is higher in elevation than the Halladay Street and Carteret Avenue grade elevations and higher in elevation than Cr^{+6} concentrations detected in Halladay Street and Carteret Avenue.

Based on work completed to date, PPG has not reached any final conclusions and additional work will be conducted to better characterize the nature and extent of the material beneath the Halsted Building and further delineate the Cr^{+6} impacts that were detected during this investigation. The extent of this work is still being determined but will include the following:

- Further evaluation of the concrete floor and potential chrome blooms;
- Additional soil investigation;
- Additional sampling and analysis of soil and concrete; and,
- Evaluation of the local groundwater quality, depth, and gradient.

A work plan for this additional investigation will be prepared and provided to the NJDEP and the JCO Site Administrator in the near future.

Figures


SITE 114
HALLADAY STREET
CARTERET AVENUE
HALSTED BUILDING
PARKING LOT
MEDICAL CARE FACILITY
ALLEY
OFFICES
LUNCH ROOM
GARAGE
BASEMENT
BASEMENT
H0
H0A
H0B
H1
H1A12
H1A4
H1A9
H1A8
H1A5
H1A3
H1A1
H1A
H1A2
HTP1
H1A7
H1A6
H1A11
H2
H2A
H1A3V
H1B
HAL-CC1
AOC 1
H2B
HAL-CC2
AOC 2
H3
HALST-SUMP
HAL-B-SWWC
H3A
HAL-B-NWC2
H3B
HAL-B-SWC
HAL-B-NWC1
HAL-B-C-NE
H5
AOC 3
HAL-CC3
HAL-AOC3-0.5-1.0
H5A
H4
H4A4V
HTP2
H4A12
H4A9
H4A8
H4A5
H4A11
H4A1
H4A4
H4A
H4A3
H4A2
H4A7
H4A6
H4A10
H5B
HAL-DE-EW1
HAL-CC4
AOC 4
H6
H6A
H4B
HAL-AB-EW1
H6B
LEGEND
HALSTED BUILDING BORING
HALSTED BUILDING CONCRETE CHIP
HALSTED BUILDING SUMP
TEST PITS
AREAS OF CONCERN
BASEMENT LOCATED BENEATH THE BUILDING FLOOR
30 x 60 GRID LAYOUT
APPROXIMATE GARFIELD AVENUE SITE BOUNDARY
NOTES:
1. HORIZONTAL DATUM - NJ STATE PLANE NAD83, FEET.
2. SAMPLE LOCATIONS INSIDE THE HALSTED BUILDING ARE ESTIMATED LOCATIONS AND WERE NOT SURVEYED.
N
W
E
S
0
30
Feet
AECOM
PPG INDUSTRIES
JERSEY CITY, HUDSON COUNTY, NEW JERSEY
HALSTED BUILDING INVESTIGATION SUMMARY REPORT
60279173
DATE: 04/22/2014
DRWN: J.E.B.
CHKD: W.D.S.
FIGURE 1
HALSTED BUILDING RI LOCATIONS
J:\Water\ProjectFiles\P50\05510.PPG\100_JerseyCity\GIS\Projects\Halsted_Property\Figure_5_Proposed_Step-out_Borings.mxd

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PPG INDUSTRIES
JERSEY CITY, HUDSON COUNTY, NEW JERSEY
HALSTED BUILDING TECHNICAL MEMORANDUM
60279173.GA.RI.HAL

DATE: 05/12/2014 | DRWN: J.E.B.

FIGURE 2
SOIL COMPARISON TO NJDEP CrSCC -
HALSTED BUILDING AREA
HEXAVALENT CHROMIUM (ppm)

SITE 114

SITE 137

SITE 133

SITE 135

CARTERET AVENUE

HALLADAY STREET

PACIFIC AVENUE

ALLEY

PARKING LOT

MEDICAL CARE FACILITY

HALSTED BUILDING

OFFICES

LUNCH ROOM

GARAGE

BASEMENT

BASEMENT

OSB-24						
	(.5-1)	(4.5-5)	(8-9)	(11.7-12.7)	(11.7-12.7)FD	(15.5-16)
V	115	24.9	21.5 J	24.8 J	27.3 J	26.9 J

X36					
	(.8-1.3)	(2-2.5)	(2-2.5)FD	(6-6.5)	(10-10.5)
V	420	45.7	44.0	21.7	41.7

H3				
	(.5-1)	(5-5.5)	(6-6.5)	(10-10.5)
Sb	1.9 J	29.1 J	2.9 J	36.9 J

HTP1		
	(.3-.8)	(2-2.5)
V	103	28.8

OSB-23		
	(.5-1)	(1.7-2.2)
V	27.1 J	221 J

H1										
	(.5-1)	(.5-1)FD	(2-2.5)	(3-3.5)	(6-6.5)	(10-10.5)	(15-15.5)			
Sb			0.83 J	5.3 J	2.6 J	48.5 J	1.8 J			

H1A3V										
	(.2-.7)	(2-2.5)	(3-3.5)	(5-5.5)	(6-6.5)	(8-8.5)	(10-10.5)	(12-12.5)	(14-14.5)	(16-16.5)
Sb	< 0.28 U	< 0.88 U	10.3	1.6 J	58.3	1.9 J	7.0	11.1	0.49 J	< 0.54 UJ

H1A11				
	(.2-.7)	(2-2.5)	(2-2.5)FD	(3.5-4)
Sb	202	20.3	17.5	1.5 J

H2A						
	(.4-.9)	(2-2.5)	(5-5.5)	(6-6.5)	(10-10.5)	(15-15.5)
T1	0.20 J	< 0.23 U	9.9	0.41	< 0.23 U	< 0.33 U

H3B									
	(1.5-2)	(5-5.5)	(10-10.5)	(15-15.5)	(17-17.5)	(20-20.5)	(25-25.5)	(25-25.5)FD	(30-30.5)
Sb	127 J	8.8 J	7.2 J	2.8 J	< 0.084 UJ	< 0.41 UJ	< 0.42 UJ	< 0.42 UJ	< 0.45 UJ

EF-122			
	(1-1.5)	(3-3.5)	(4.5-5)
Sb	7.0	7.4	37.9

H5										
	(.3-.8)	(2-2.5)	(4-4.5)	(6-6.5)	(8-8.5)	(10-10.5)	(12-12.5)	(14-14.5)	(16-16.5)	(18-18.5)	(20-20.5)
Sb	5.6 J	< 0.60 UJ	22.4 J	37.9 J	< 1.5 UJ	25.4 J	3.7 J	3.8 J	3.5 J	< 0.28 UJ	< 0.48 UJ

OSB-22					
	(1.05-1.55)	(4-4.5)	(4-4.5)FD	(11-12)	(16.8-17.3)
V	122	44.8	47.8	27.0	31.2

H4A4V										
	(.5-1)	(2-2.5)	(3-3.5)	(5-5.5)	(7-7.5)	(8-8.5)	(10-10.5)	(12-12.5)	(14-14.5)	(16-16.5)
Sb	3.5 J	19.1 J	0.91 J	9.0 J	3.8 J	2.9 J	78.9 J	1.6 J	2.2 J	< 0.24 UJ

HTP2		
	(.5-1)	(2-2.5)
T1	< 0.39 U	10.5 J

H6A										
	(.4-.9)	(2-2.5)	(4-4.5)	(6-6.5)	(8-8.5)	(10-10.5)	(12-12.5)	(14-14.5)	(16-16.5)	(18-18.5)
Sb	3.2 J	64.8 J	2.3 J	< 0.26 UJ	0.68 J	0.72 J	0.74 J	1.2 J	0.76 J	< 0.61 UJ
T1	< 0.39 U	5.9 J	< 3.1 U	0.59 J	1.1 J	1.3 J	1.2 J	0.66 J	0.69 J	< 0.76 UJ
V	32.0	32.8	118	13.4	30.7	30.5	22.0	23.1	17.6	33.9 J

H6B											
	(.4-.9)	(2-2.5)	(2-2.5)FD	(4-4.5)	(6-6.5)	(8-8.5)	(10-10.5)	(12-12.5)	(14-14.5)	(16-16.5)	(18-18.5)
T1	5.2 J	2.1 J	2.9 J	1.4 J	0.74 J	0.45 J	0.71 J	< 0.44 U	< 0.30 U	< 0.30 U	< 0.30 UJ

PSEG-SB52																		
	(1-1.5)	(6-6.5)	(6-6.5)FD	(8.5-9)	(9-9.1)	(10-10.5)	(12-13)	(14.2-14.9)	(14.2-14.9)FD	(16-16.5)	(19-20)	(19-20)FD	(20-21)	(21-21.2)	(21-21.5)	(36.3-36.8)	(42.9-43.4)	(54.5-55)
V	115 J	19.2 J	17.6 J	50.9 J	48.5 J	20 J	17.8 J	25.4 J	23.8 J	35.2	34.2	36.6	16.5	18.6	18.6	8.9 B	6.3 B	6.8 B

SAMPLE LOCATION
(DEPTH IN FEET)
ANALYTE NAME RESULTS (ppm)

LEGEND

- SOIL BORING NOT SAMPLED FOR THIS ANALYTE SUITE
- CONCRETE SAMPLE NOT SAMPLED FOR THIS ANALYTE SUITE
- NO CCPW METALS EXCEEDANCE AT THIS BORING LOCATION

ANALYTICAL RESULTS EXCEEDING THE NJDEP SRS

- ANTIMONY (Sb) ≥ 31 PPM
- NICKEL (Ni) ≥ 1600 PPM
- THALLIUM (Tl) ≥ 5 PPM
- VANADIUM (V) ≥ 78 PPM
- HALSTED BUILDING SUMP
- TEST PITS
- AREAS OF CONCERN
- BASEMENT LOCATED BENEATH THE BUILDING FLOOR
- 30 x 60 GRID LAYOUT
- APPROXIMATE GARFIELD AVENUE SITE BOUNDARY

NOTES:
1. HORIZONTAL DATUM - NJ STATE PLANE NAD83, FEET.
2. SAMPLE LOCATIONS INSIDE THE HALSTED BUILDING ARE ESTIMATED LOCATIONS AND WERE NOT SURVEYED.
3. DATA ARE COMPARED TO THE MOST STRINGENT OF THE NJDEP RESIDENTIAL AND NON RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS ADOPTED JUNE 2, 2008, LAST AMENDED NOVEMBER 4, 2009.
4. RED FONT INDICATES AN EXCEEDANCE OF THE NJDEP SRS.
5. "FD" INDICATES FIELD DUPLICATE.
6. THERE ARE NO EXCEEDANCES OF NICKEL OR TOTAL CHROMIUM ABOVE THE NJDEP SRS OF 1,600 AND 120,000 PPM, RESPECTIVELY.

0 25 Feet

AECOM

PPG INDUSTRIES
JERSEY CITY, HUDSON COUNTY, NEW JERSEY
HALSTED BUILDING TECHNICAL MEMORANDUM
60279173.GA.RI.HAL

DATE: 05/06/2014 | DRWN: J.E.B.

FIGURE 3
SOIL COMPARISON TO NJDEP SRS - HALSTED BUILDING AREA
CCPW METALS (ppm)

SITE 114

SITE 137

SITE 133

SITE 135

CARTERET AVENUE

HALLADAY STREET

PACIFIC AVENUE

ALLEY

PARKING LOT

MEDICAL CARE FACILITY

HALSTED BUILDING

BASEMENT

OFFICES

LUNCH ROOM

GARAGE

AOC 1

AOC 2

AOC 3

AOC 4

HAL-CC1

HAL-CC2

HAL-CC3
HAL-AOC3

HAL-CC4

HAL-B-SWWC

HAL-B-SWC

HAL-B-NWC1

HAL-B-NWC2

HAL-B-C-NE

HAL-DE-EW1

HAL-AB-EW1

@ HALST-SUMP

OSB-24	(.5-1)	(4.5-5)
Ni	**62.0**	22.7

114-MW20A	(.5-1)	(4.5-5)
Sb	< 2.2 UJ	**8.7 J**

X36	(.8-1.3)	(2-2.5)	(2-2.5)FD	(6-6.5)
Ni	**326**	17.9	19.6	15.1
Sb	< 1.2 U	< 1.1 U	< 1.1 U	**25.3**

H3	(.5-1)	(5-5.5)	(6-6.5)
Ni	**56.7 J**	**237 J**	22.8 J
Sb	1.9 J	**29.1 J**	2.9 J

OSB-23	(.5-1)	(1.7-2.2)
Ni	15.2	**102**

H5	(.3-.8)	(2-2.5)	(4-4.5)
Sb	5.6 J	< 0.60 UJ	**22.4 J**

H5A	(.5-1)	(.5-1)FD	(2-2.5)	(4-4.5)
Ni	13.6	14.0	**50.0**	23.3

H4	(.5-1)	(5-5.5)
Sb	**7.6 J**	2.3 J

H6	(.4-.9)	(2-2.5)	(4-4.5)	(4-4.5)FD
Sb	**10.5 J**	1.6 J	0.54 J	0.30 J

OSB-22	(1.05-1.55)	(4-4.5)	(4-4.5)FD
Ni	**72.7**	30.1	33.3

PSEG-SB52	(1-1.5)
Ni	**97.9**

135-B19	(1.3-1.8)	(2.1-2.6)	(3.3-3.8)
Ni	**61.1**	26.1	21.3

H0B	(.5-1)	(2.5-3)	(2.5-3)FD	(4.5-5)
Sb	**6.8 J**	3.3 J	3.5 J	**6.1 J**

HTP1	(.3-.8)	(2-2.5)
Ni	**154**	29.6
Sb	**9.1**	2.2 J

H1A3V	(.2-.7)	(2-2.5)	(3-3.5)	(5-5.5)	(6-6.5)
Ni	**48.6**	15.0	34.5	16.9	17.9
Sb	< 0.28 U	< 0.88 U	**10.3**	1.6 J	**50.3**

H1A11	(.2-.7)	(2-2.5)	(2-2.5)FD	(3.5-4)
Ni	**52.5**	46.3	39.1	**81.6**
Sb	**202**	**20.3**	**17.5**	1.5 J

H1B	(.2-.7)	(5-5.5)
Sb	**9.1 J**	**8.5 J**

H2A	(.4-.9)	(2-2.5)	(5-5.5)	(6-6.5)
Ni	23.0 J	46.7 J	**81.9 J**	17.9 J
Tl	0.20 J	< 0.23 U	**0.9**	0.41

EF-123	(.2-.7)	(3-3.5)	(5-5.5)
Sb	2.7	**7.7**	5.2

H2B	(5-5.5)
Sb	**7.7 J**

H3B	(1.5-2)	(5-5.5)
Ni	33.9 J	**48.7 J**
Sb	**127 J**	**8.8 J**

EF-122	(1-1.5)	(3-3.5)	(4.5-5)
Ni	39.3	21.5	**76.8**
Sb	**7.0**	**7.4**	**37.9**

H3A	(.5-1)	(5-5.5)
Sb	**8.6 J**	**13.2 J**

H4A4V	(.5-1)	(2-2.5)	(3-3.5)	(5-5.5)
Ni	42.7	**203**	33.1	35.2
Sb	3.5 J	**19.1 J**	0.91 J	**9.0 J**

HTP2	(.5-1)	(2-2.5)
Ni	**68.5**	**56.1**
Tl	< 0.39 U	**10.5 J**

H4A	(.5-1)	(2-2.5)	(5-5.5)
Ni	**90.3 J**	19.7 J	37.4 J
Sb	**16.6 J**	3.3 J	4.3 J

H4B	(.5-1)	(5-5.5)
Sb	**11.5 J**	1.9 J

H6A	(.4-.9)	(2-2.5)	(4-4.5)
Sb	3.2 J	**64.8 J**	2.3 J
Tl	< 0.39 U	**5.9 J**	< 3.1 U

H6B	(.4-.9)	(2-2.5)	(2-2.5)FD	(4-4.5)
Ni	35.2 J	**64.2 J**	**103 J**	**54.5 J**
Sb	**9.7 J**	**14.9 J**	5.4 J	**11.6 J**
Tl	**5.2 J**	2.1 J	2.9 J	1.4 J

SAMPLE LOCATION (DEPTH IN FEET)	
ANALYTE NAME	RESULTS (ppm)

LEGEND

> SOIL BORING NOT SAMPLED FOR THIS ANALYTE SUITE

S CONCRETE SAMPLE NOT SAMPLED FOR THIS ANALYTE SUITE

! NO CCPW METALS EXCEEDANCE AT THIS BORING LOCATION

ANALYTICAL RESULTS EXCEEDING THE NJDEP SRS

ANTIMONY (Sb) ≥ 6 PPM

NICKEL (Ni) ≥ 48 PPM

THALLIUM (Tl) ≥ 3 PPM

@ HALSTED BUILDING SUMP

TEST PITS

AREAS OF CONCERN

BASEMENT LOCATED BENEATH THE BUILDING FLOOR

30 x 60 GRID LAYOUT

APPROXIMATE GARFIELD AVENUE SITE BOUNDARY

NOTES:
1. HORIZONTAL DATUM - NJ STATE PLANE NAD83, FEET.
2. SAMPLE LOCATIONS INSIDE THE HALSTED BUILDING ARE ESTIMATED LOCATIONS AND WERE NOT SURVEYED.
3. DATA ARE COMPARED TO THE MOST STRINGENT OF THE NJDEP RESIDENTIAL AND NON RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS ADOPTED JUNE 2, 2008, LAST AMENDED NOVEMBER 4, 2009.
4. RED FONT INDICATES AN EXCEEDANCE OF THE NJDEP SRS.
5. "FD" INDICATES FIELD DUPLICATE.
6. THERE ARE NO EXCEEDANCES OF NICKEL OR TOTAL CHROMIUM ABOVE THE NJDEP SRS OF 1,600 AND 120,000 PPM, RESPECTIVELY.

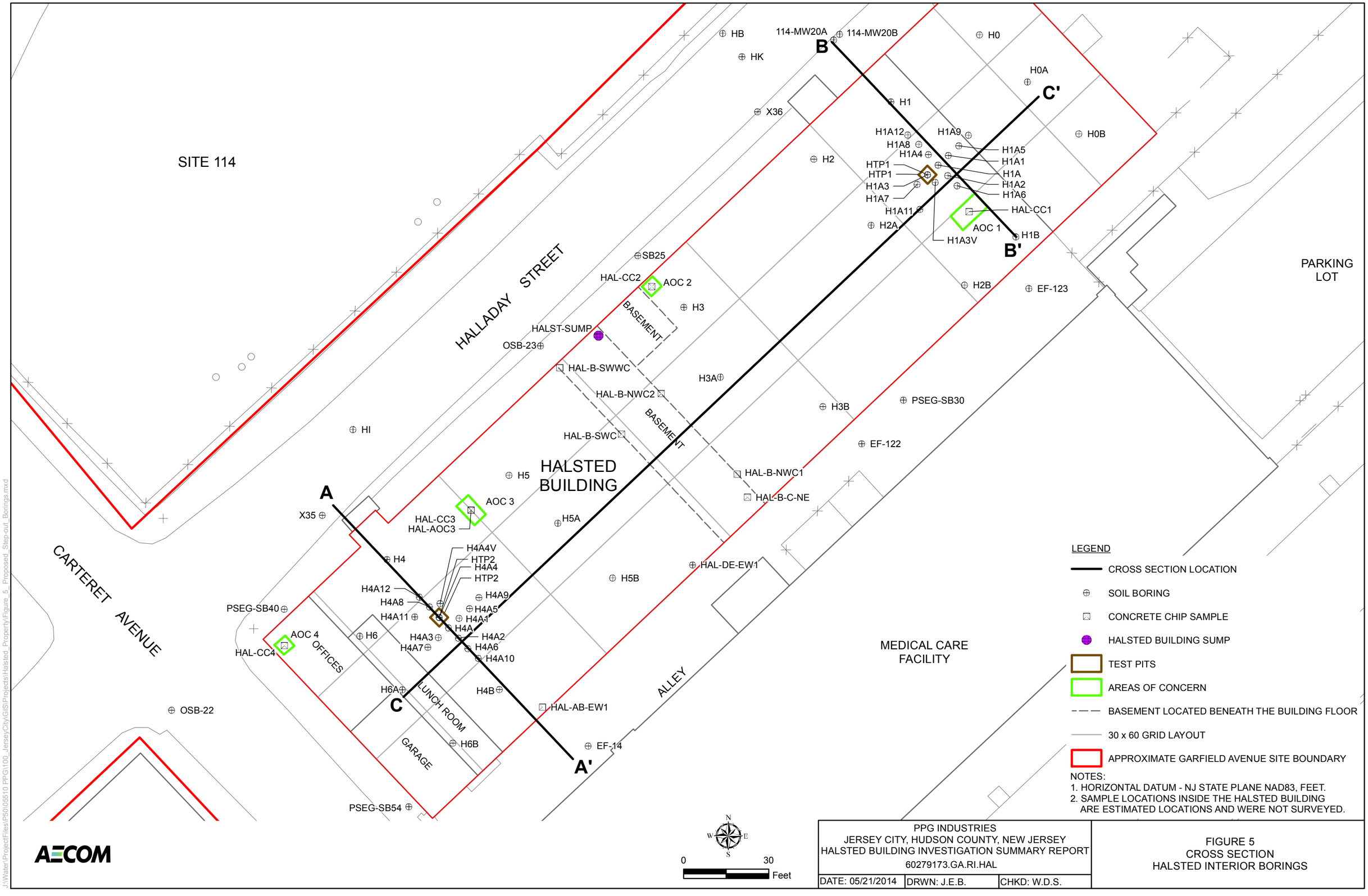
0 25 Feet

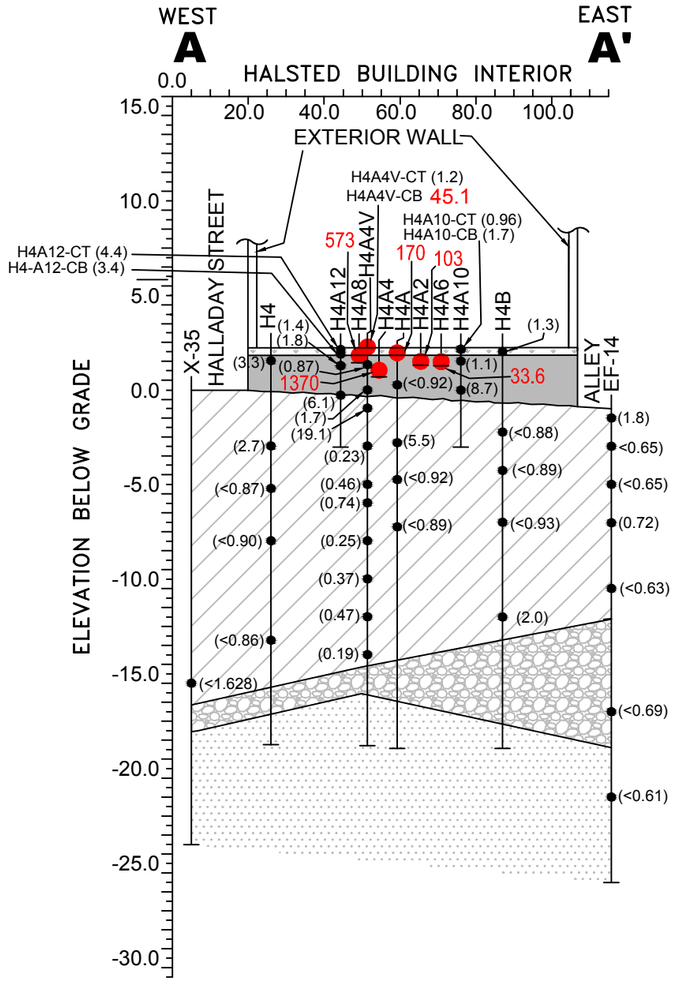
AECOM

PPG INDUSTRIES
JERSEY CITY, HUDSON COUNTY, NEW JERSEY
HALSTED BUILDING TECHNICAL MEMORANDUM
60279173.GA.RI.HAL

DATE: 05/05/2014 | DRWN: J.E.B.

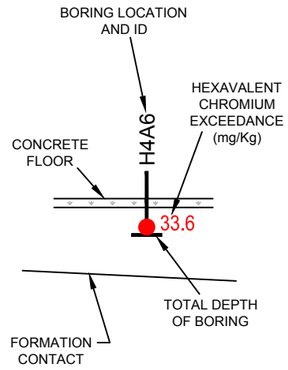
FIGURE 4
SOIL COMPARISON TO NJDEP IGW SSL -
HALSTED BUILDING AREA
CCPW METALS (ppm)


SITE 114
HALLADAY STREET
CARTERET AVENUE
HALSTED BUILDING
PARKING LOT
MEDICAL CARE FACILITY
ALLEY
OFFICES
BASEMENT
LUNCH ROOM
GARAGE
HB
HK
X36
HI
H5
H4
H6
H6A
H6B
OSB-22
OSB-23
PSEG-SB40
PSEG-SB54
SB25
X35
114-MW20A
114-MW20B
H0
H0A
H1
H0B
H2
H1A12
H1A8
H1A4
H1A9
H1A5
H1A1
H1A
H1A2
H1A6
HTP1
HTP1
H1A3
H1A7
H1A11
H2A
H1A3V
H1B
HAL-CC1
AOC 1
B
B'
C'
A
A'
C
HAL-CC2
AOC 2
H3
HALST-SUMP
HAL-B-SWWC
HAL-B-NWC2
HAL-B-SWC
H3A
H3B
H2B
EF-123
PSEG-SB30
EF-122
HAL-B-NWC1
HAL-B-C-NE
AOC 3
HAL-CC3
HAL-AOC3
H5A
H5B
HAL-DE-EW1
H4A4V
HTP2
H4A4
HTP2
H4A12
H4A8
H4A11
H4A3
H4A7
H4A9
H4A5
H4A1
H4A
H4A2
H4A6
H4A10
AOC 4
HAL-CC4
H4B
HAL-AB-EW1
EF-14
LEGEND
CROSS SECTION LOCATION
SOIL BORING
CONCRETE CHIP SAMPLE
HALSTED BUILDING SUMP
TEST PITS
AREAS OF CONCERN
BASEMENT LOCATED BENEATH THE BUILDING FLOOR
30 x 60 GRID LAYOUT
APPROXIMATE GARFIELD AVENUE SITE BOUNDARY
NOTES:
1. HORIZONTAL DATUM - NJ STATE PLANE NAD83, FEET.
2. SAMPLE LOCATIONS INSIDE THE HALSTED BUILDING ARE ESTIMATED LOCATIONS AND WERE NOT SURVEYED.
N
W
E
S
0
30
Feet
AECOM
PPG INDUSTRIES
JERSEY CITY, HUDSON COUNTY, NEW JERSEY
HALSTED BUILDING INVESTIGATION SUMMARY REPORT
60279173.GA.RI.HAL
DATE: 05/21/2014
DRWN: J.E.B.
CHKD: W.D.S.
FIGURE 5
CROSS SECTION
HALSTED INTERIOR BORINGS
J:\Water\ProjectFiles\P50\06510.PPG\100_JerseyCity\GIS\Projects\Halsted_Property\Figure_5_Proposed_Step-out_Borings.mxd



Legend

- CONCENTRATED ASH, COAL, CINDER, SLAG WITH LITTLE TO SOME SAND AND GRAVEL
- MISCELLANEOUS FILL CONSISTING OF SAND, SILT, GRAVEL, AND LITTLE TO SOME ASH, CINDER AND COAL.
- PEAT/ORGANIC MATTER
- UNDISTURBED NATIVE DEPOSIT/SAND

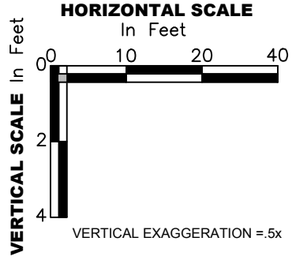


Notes

(1.1)● SAMPLE INTERVAL, RESULTS IN PARENTHESIS

CT CONCRETE CORE TOP

CB CONCRETE CORE BOTTOM



REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: EW
DRAWN BY: jk
CHECKED BY: BC
APPROVED BY:

AECOM
30 KNIGHTSBRIDGE ROAD, SUITE 520
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WEB: HTTP://WWW.AECOM.COM

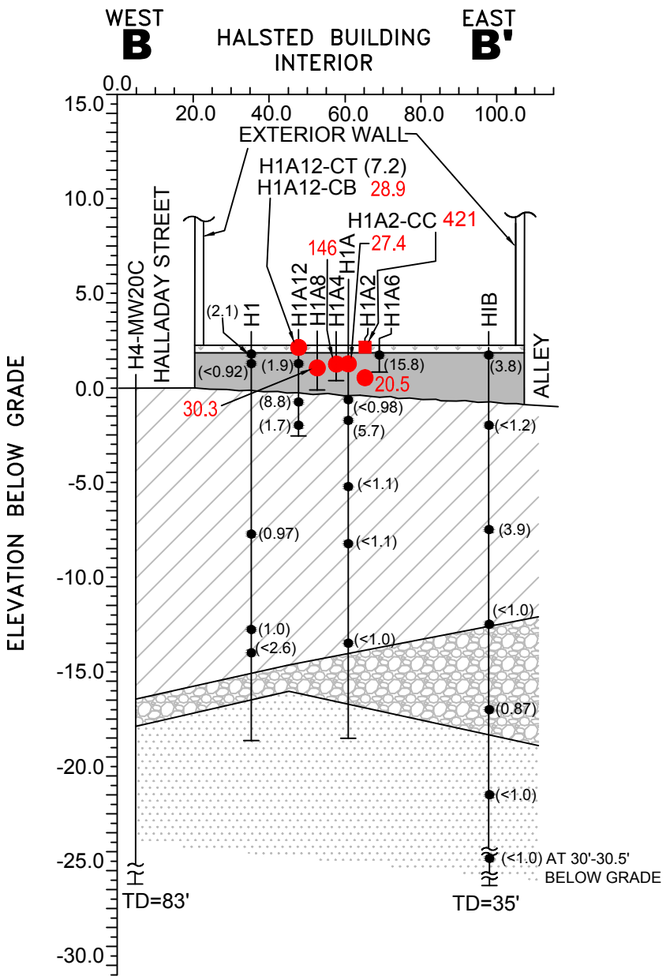
CROSS SECTION A-A'

HALSTED INC. BUILDING
INTERIM REMEDIAL MEASURES
78 HALLADAY STREET, JERSEY CITY, NJ

PROJECT NUMBER: 60279173.GA.RI.HAL
DATE: 05/29/2014
SCALE: AS SHOWN

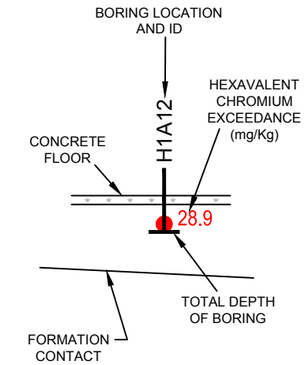
FIGURE NUMBER: 6

SHEET NUMBER: —



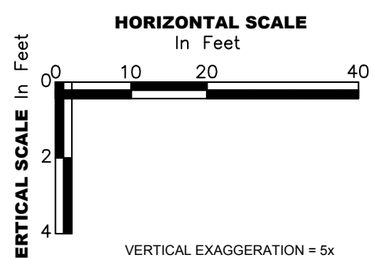
Legend

- CONCENTRATED ASH, COAL, CINDER, SLAG WITH LITTLE TO SOME SAND AND GRAVEL
- MISCELLANEOUS FILL CONSISTING OF SAND, SILT, GRAVEL, AND LITTLE TO SOME ASH, CINDER AND COAL.
- PEAT/ORGANIC MATTER
- UNDISTURBED NATIVE DEPOSIT/SAND



Notes

- (1.9)● SAMPLE INTERVAL, RESULTS IN PARENTHESIS
- ■ CONCRETE CHIP SAMPLE WITH HEXAVALENT CHROMIUM EXCEEDANCE
- CT CONCRETE CORE TOP
- CB CONCRETE CORE BOTTOM



REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: EW
DRAWN BY: jk
CHECKED BY: BC
APPROVED BY:

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30 KNIGHTSBRIDGE ROAD, SUITE 520
PISCATAWAY, NEW JERSEY 08854 PHONE:
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FAX: (732) 369-0122
WEB: HTTP://WWW.AECOM.COM

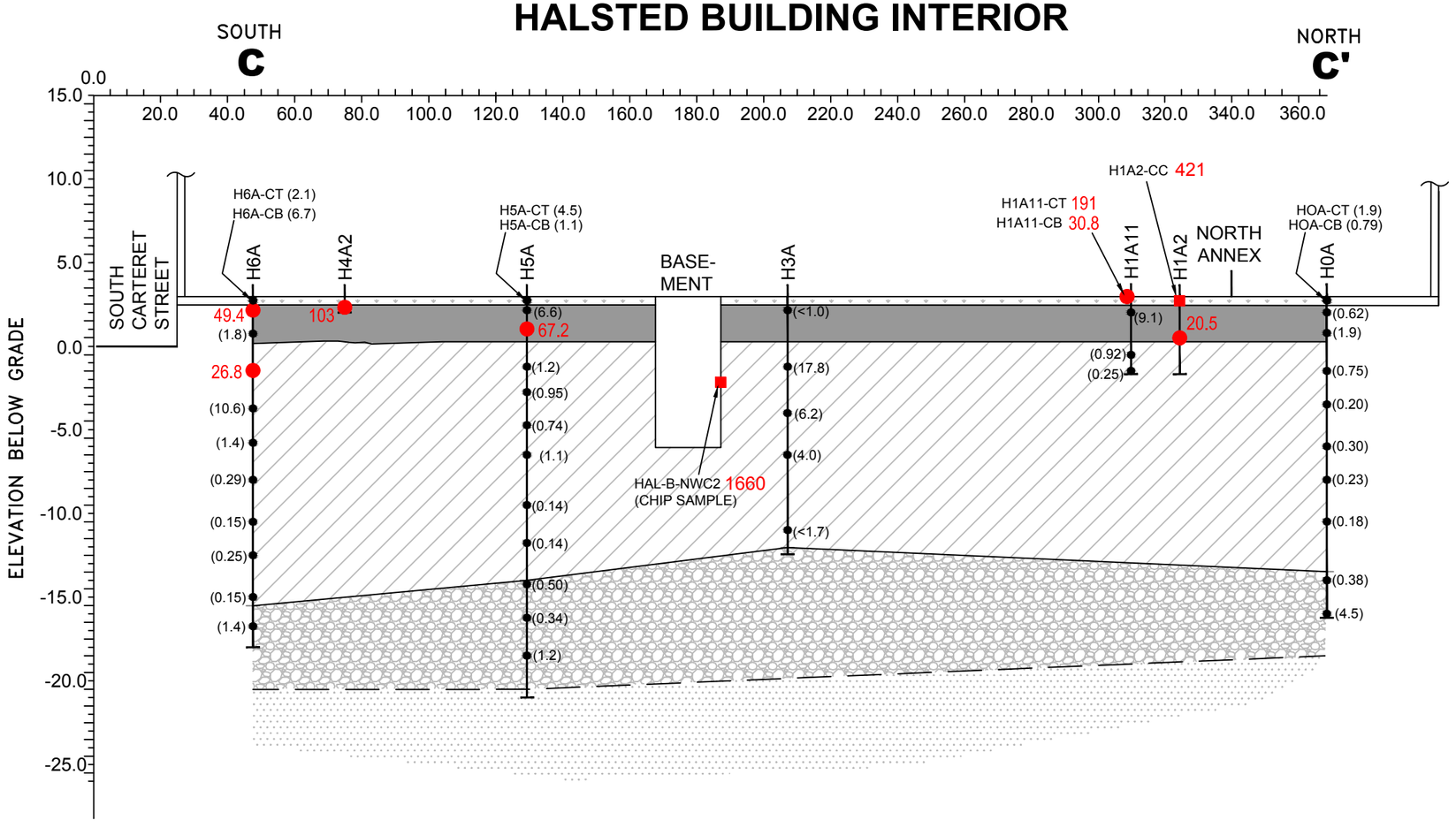
CROSS SECTION B-B'
HALSTED INC. BUILDING
INTERIM REMEDIAL MEASURES
78 HALLADAY STREET, JERSEY CITY, NJ

PROJECT NUMBER: 60279173.GA.RI.HAL
DATE: 05/29/2014
SCALE: AS SHOWN

FIGURE NUMBER: 7

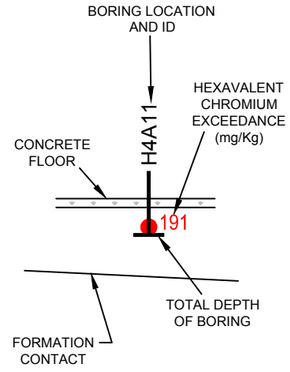
SHEET NUMBER: —

HALSTED BUILDING INTERIOR



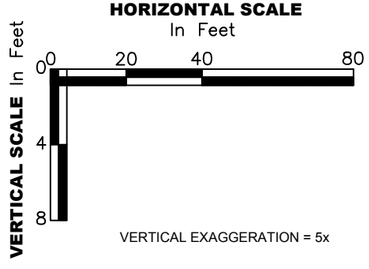
Legend

- CONCENTRATED ASH, COAL, CINDER, SLAG WITH LITTLE TO SOME SAND AND GRAVEL
- MISCELLANEOUS FILL CONSISTING OF SAND, SILT, GRAVEL, AND LITTLE TO SOME ASH, CINDER AND COAL.
- PEAT/ORGANIC MATTER
- UNDISTURBED NATIVE DEPOSIT/SAND



Notes

- (9.1) ● SAMPLE INTERVAL, RESULTS IN PARENTHESIS
- ■ CONCRETE CHIP SAMPLE WITH HEXAVALENT CHROMIUM EXCEEDANCE
- CT CONCRETE CORE TOP
- CB CONCRETE CORE BOTTOM



REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: EW | DRAWN BY: jk | CHECKED BY: BC | APPROVED BY:

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CROSS SECTION C-C
HALSTED INC. BUILDING
INTERIM REMEDIAL MEASURES
78 HALLADAY STREET, JERSEY CITY, NJ

PROJECT NUMBER: 60279173.GA.RI.HAL
DATE: 05/29/2014
SCALE: AS SHOWN

FIGURE NUMBER: 8

SHEET NUMBER: —

Tables

Table 1
Halsted Building Investigation Chronology

Item	Year	Activity	Report	Boring, Test Pit, Chip Samples, and Monitoring Wells
1	2004-2006	Site 114 RIs (PPG and PSE&G)	RI Report March 2006	Soil delineation near the Halsted Building as part of the Site 114 PPG and PSE&G RIs; monitoring wells installed in Halladay Street
2	2010	GA Group Soil RI	RI Report February 2012	Soil delineation near the Halsted Building as part of the GA Group Soil RI
3	2011	Halsted Building RI interior borings	Tech Memo June 2012	12 Soil borings inside of the Halsted Building to determine whether sub-floor chromium impacts were present; Water sample collected from the basement sump
4	2012	Halsted Building RI interior borings and GA Group Supplemental Soil RI exterior borings	Tech Memo September 2013	16 soil borings inside of the Halsted Building to delineate Cr^{+6} impacts identified beneath the floor during the 2011 focused RI; 3 exterior soil borings for the GA Group Supplemental Soil RI
5	2014	Halsted Building RI Interior Borings	--	2 Test Pits to look for visual evidence of CCPW material; 18 Soil borings for additional delineation of Cr^{+6} beneath the building floor; 11 Concrete chip samples of potential chrome blooms on walls and floor; 1 Water sample from the basement sump to verify prevous results

Table 2
Halsted Building RI - Sample Summary Table

								Hexavalent Chromium	CCPW Metals
							Lab Methods:	SW7196, SW7199	SW6010, SW6010B, SW6020
Sample Location	Sample ID	Sample Date	Sample Depth	Matrix	Sample Type	Easting	Northing		
EF-RI-S									
EF-14	EF-14-0.5	5/6/2011	0.5 - 1 ft	SO	N	611459.371	682763.459	1	
EF-14	EF-14-2.0	5/6/2011	2 - 2.5 ft	SO	N	611459.371	682763.459	1	
EF-14	EF-14-2.0X	5/6/2011	2 - 2.5 ft	SO	FD	611459.371	682763.459	1	
EF-14	EF-14-2.5	5/6/2011	2.5 - 3 ft	SO	N	611459.371	682763.459		1
EF-14	EF-14-4.0	5/6/2011	4 - 4.5 ft	SO	N	611459.371	682763.459	1	
EF-14	EF-B14-6.0	5/9/2011	6 - 6.5 ft	SO	N	611459.371	682763.459	1	1
EF-14	EF-B14-10.0	5/9/2011	10 - 10.5 ft	SO	N	611459.371	682763.459	1	
EF-14	EF-B14-12.0	5/9/2011	12 - 12.5 ft	SO	N	611459.371	682763.459		1
EF-14	EF-B14-17.5	5/9/2011	17.5 - 18 ft	SO	N	611459.371	682763.459	1	1
EF-14	EF-B14-22.5	5/9/2011	22.5 - 23 ft	SO	N	611459.371	682763.459	1	1
EF-49	EF-B49-0.5	5/24/2011	0.5 - 1 ft	SO	N	611399.447	682675.465	1	
EF-49	EF-B49-11.0	5/25/2011	11 - 11.5 ft	SO	N	611399.447	682675.465	1	
EF-49	EF-B49-12.0	5/25/2011	12 - 12.5 ft	SO	N	611399.447	682675.465		1
GA-RI									
114-MW20A	PPG-114-20AA(0.5-1.0)20060724	7/24/2006	0.5 - 1 ft	SO	N	611545.9	683012.2		1
114-MW20A	PPG-114-20AB(4.5-5.0)20060724	7/24/2006	4.5 - 5 ft	SO	N	611545.9	683012.2		1
114-MW20B	PPG-114-20BC(8.5-9.0)J43280-1	10/9/2006	8.5 - 9 ft	SO	N	611548	683014.2		1
114-MW20B	PPG-114-20BC(8.5-9.0)J43280-1R	10/9/2006	8.5 - 9 ft	SO	N	611548	683014.2	1	
114-MW20B	PPG-114-20BCD(8.5-9.0)J43280-2	10/9/2006	8.5 - 9 ft	SO	FD	611548	683014.2		1
114-MW20B	PPG-114-20BCD(8.5-9.0)J43280-2R	10/9/2006	8.5 - 9 ft	SO	FD	611548	683014.2	1	
114-MW20B	PPG-114-20BD(11.5-12.0)J43280-3	10/9/2006	11.5 - 12 ft	SO	N	611548	683014.2		1
114-MW20B	PPG-114-20BD(11.5-12.0)J43280-3R	10/9/2006	11.5 - 12 ft	SO	N	611548	683014.2	1	
114-MW20B	PPG-114-20BE(16.0-17.0)J43280-4	10/9/2006	16 - 17 ft	SO	N	611548	683014.2		1
114-MW20B	PPG-114-20BE(16.0-17.0)J43280-4R	10/9/2006	16 - 17 ft	SO	N	611548	683014.2	1	
114-MW20B	114-MW21BI(28-29)J43122-2R	10/6/2006	28 - 29 ft	SO	N	611548	683014.2	1	1
114-MW20B	114-MW21BID(28-29)J43122-3R	10/6/2006	28 - 29 ft	SO	FD	611548	683014.2	1	1
135-B19	135-B19A (1.3-1.8)J49116-8	12/13/2006	1.3 - 1.8 ft	SO	N	611417	682651.9	1	1
135-B19	135-B19B (3.3-3.8)J49116-9	12/13/2006	2.1 - 2.6 ft	SO	N	611417	682651.9	1	1
135-B19	135 B19C(3.3-3.8)J49116-17	12/13/2006	3.3 - 3.8 ft	SO	N	611417	682651.9	1	1
135-B19	PPG-135-B19D_5.1-5.6_796867	1/2/2007	5.1 - 5.6 ft	SO	N	611417	682651.9	1	1
135-B19	PPG-135-B19E_9.4-9.9_796868	1/2/2007	9.4 - 9.9 ft	SO	N	611417	682651.9	1	1
135-B19	PPG-135-B19F_13.2-13.7_796869	1/2/2007	13.2 - 13.7 ft	SO	N	611417	682651.9	1	1
135-B19	PPG-135-B19G_17.2-18.2_796870	1/2/2007	17.2 - 18.2 ft	SO	N	611417	682651.9	1	1
135-B19	PPG-135-B19GD_17.2-18.2_796871	1/2/2007	17.2 - 18.2 ft	SO	FD	611417	682651.9	1	1
135-B19	PPG-135-B19H_20.2-20.7_796872	1/2/2007	20.2 - 20.7 ft	SO	N	611417	682651.9	1	1
HB	HB 0.3-0.8	3/17/2004	0.3 - 0.8 ft	SO	N	611506.77	683014.53	1	
HB	HB 2-2.5	3/17/2004	2 - 2.5 ft	SO	N	611506.77	683014.53	1	
HI	HI 0.3-0.8	3/18/2004	0.3 - 0.8 ft	SO	N	611376.47	682874.9	1	
HI	HI 2-2.5	3/18/2004	2 - 2.5 ft	SO	N	611376.47	682874.9	1	
HI	HI 4-4.5	3/18/2004	4 - 4.5 ft	SO	N	611376.47	682874.9	1	
HI	HI 5-5.5	3/18/2004	5 - 5.5 ft	SO	N	611376.47	682874.9	1	
HI	HI 7-7.5	3/18/2004	7 - 7.5 ft	SO	N	611376.47	682874.9	1	
HI	HI 9-9.5	3/18/2004	9 - 9.5 ft	SO	N	611376.47	682874.9	1	
HI	HI 10.1-10.5	3/18/2004	10.1 - 10.5 ft	SO	N	611376.47	682874.9	1	
HI	HI 14-14.5	3/18/2004	14 - 14.5 ft	SO	N	611376.47	682874.9	1	
HI	HI 14.7-15.2	3/18/2004	14.7 - 15.2 ft	SO	N	611376.47	682874.9	1	
HI	HI 17-17.5	3/18/2004	17 - 17.5 ft	SO	N	611376.47	682874.9	1	
HK	HK 1.25-1.75	3/18/2004	1.3 - 1.8 ft	SO	N	611513.59	683006.33	1	
HK	HK1.25-1.75D	3/18/2004	1.3 - 1.8 ft	SO	FD	611513.59	683006.33	1	
HK	HK 3-3.5	3/18/2004	3 - 3.5 ft	SO	N	611513.59	683006.33	1	
HK	HK 5-5.5	3/18/2004	5 - 5.5 ft	SO	N	611513.59	683006.33	1	
HK	HK 7-7.3	3/18/2004	7 - 7.3 ft	SO	N	611513.59	683006.33	1	
HK	HK 9-9.5	3/18/2004	9 - 9.5 ft	SO	N	611513.59	683006.33	1	
HK	HK 13-13.5	3/18/2004	13 - 13.5 ft	SO	N	611513.59	683006.33	1	
HK	HK 17-17.5	3/18/2004	17 - 17.5 ft	SO	N	611513.59	683006.33	1	
OSB-22	OSB-22A(1.05-1.55)20060718	7/18/2006	1.05 - 1.55 ft	SO	N	611312.6	682776	1	
OSB-22	OSB-22A(1.05-1.55)20060718	7/18/2006	1.05 - 1.55 ft	SO	N	611312.6	682776		1
OSB-22	OSB-22B(4.0-4.5)20060718	7/18/2006	4 - 4.5 ft	SO	N	611312.6	682776	1	
OSB-22	OSB-22B(4.0-4.5)20060718	7/18/2006	4 - 4.5 ft	SO	N	611312.6	682776		1
OSB-22	OSB-22BD(4.0-4.5)20060718	7/18/2006	4 - 4.5 ft	SO	FD	611312.6	682776	1	
OSB-22	OSB-22BD(4.0-4.5)20060718	7/18/2006	4 - 4.5 ft	SO	FD	611312.6	682776		1
OSB-22	OSB-22C(11-12)20060725	7/25/2006	11 - 12 ft	SO	N	611312.6	682776		1
OSB-22	OSB-22C(11-12)20060725	7/25/2006	11 - 12 ft	SO	N	611312.6	682776	1	
OSB-22	OSB-22D(16.8-17.3)20060725	7/25/2006	16.8 - 17.3 ft	SO	N	611312.6	682776		1
OSB-22	OSB-22D(16.8-17.3)20060725	7/25/2006	16.8 - 17.3 ft	SO	N	611312.6	682776	1	
OSB-23	OSB-23A(0.5-1)20060720	7/20/2006	0.5 - 1 ft	SO	N	611442.6	682904.4	1	1
OSB-23	OSB-23B(1.7-2.2)20060720	7/20/2006	1.7 - 2.2 ft	SO	N	611442.6	682904.4	1	1
OSB-24	0SB-24A(0.5-1.0)20060724	7/24/2006	0.5 - 1 ft	SO	N	611601.4	683065.4		1
OSB-24	0SB-24B(4.5-5.0)20060724	7/24/2006	4.5 - 5 ft	SO	N	611601.4	683065.4		1
OSB-24	OSB-24C(8-9)20060731	7/31/2006	8 - 9 ft	SO	N	611601.4	683065.4	1	1
OSB-24	OSB-24D(11.7-12.7)20060731	7/31/2006	11.7 - 12.7 ft	SO	N	611601.4	683065.4	1	1
OSB-24	OSB-24DD(11.7-12.7)20060731	7/31/2006	11.7 - 12.7 ft	SO	FD	611601.4	683065.4	1	1
OSB-24	OSB-24E(15.5-16)20060731	7/31/2006	15.5 - 16 ft	SO	N	611601.4	683065.4	1	1
PSEG-SB40	PSEG-SB40A(0.5-1.0)J47112-2R	11/21/2006	0.5 - 1 ft	SO	N	611352.273	682811.617	1	
PSEG-SB40	PSEG-SB40B(1.5-2.0)J47112-3R	11/21/2006	1.5 - 2 ft	SO	N	611352.273	682811.617	1	
PSEG-SB40	PSEG-SB40BD(1.5-2.0)J47112-4R	11/21/2006	1.5 - 2 ft	SO	FD	611352.273	682811.617	1	
PSEG-SB40	PSEG-SB40C(6.0-6.5)J47112-5R	11/21/2006	6 - 6.5 ft	SO	N	611352.273	682811.617	1	
PSEG-SB40	PSEG-SB40D(10.5-11.0)J47112-6R	11/21/2006	10.5 - 11 ft	SO	N	611352.273	682811.617	1	
PSEG-SB40	PSEG-SB40E(14.0-14.5)J47112-7R	11/21/2006	14 - 14.5 ft	SO	N	611352.273	682811.617	1	
PSEG-SB40	PSEG-SB40H(19.0-19.5)J47112-10	11/21/2006	19 - 19.5 ft	SO	N	611352.273	682811.617		1
PSEG-SB40	PSEG-SB40H(19.0-19.5)J47112-10R	11/21/2006	19 - 19.5 ft	SO	N	611352.273	682811.617	1	
PSEG-SB52	PSEG-SB52A(1.0-1.5)J47237-1	11/22/2006	1 - 1.5 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52A(1.0-1.5)J47237-1R	11/22/2006	1 - 1.5 ft	SO	N	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52B(6.0-6.5)J47237-2	11/22/2006	6 - 6.5 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52B(6.0-6.5)J47237-2R	11/22/2006	6 - 6.5 ft	SO	N	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52BD(6.0-6.5)J47237-3	11/22/2006	6 - 6.5 ft	SO	FD	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52BD(6.0-6.5)J47237-3R	11/22/2006	6 - 6.5 ft	SO	FD	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52C(8.5-9.0)J47237-5	11/22/2006	8.5 - 9 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52C(8.5-9.0)J47237-5R	11/22/2006	8.5 - 9 ft	SO	N	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52D(9.0-9.1)J47237-6	11/22/2006	9 - 9.1 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52D(9.0-9.1)J47237-6R	11/22/2006	9 - 9.1 ft	SO	N	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52E(10.0-10.5)J47237-7	11/22/2006	10 - 10.5 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52E(10.0-10.5)J47237-7R	11/22/2006	10 - 10.5 ft	SO	N	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52F(12.0-13.0)J47237-8	11/22/2006	12 - 13 ft	SO	N	611362.4	682708.4		1

Table 2
Halsted Building RI - Sample Summary Table

								Hexavalent Chromium	CCPW Metals
							Lab Methods:	SW7196, SW7199	SW6010, SW6010B, SW6020
Sample Location	**Sample ID**	**Sample Date**	**Sample Depth**	**Matrix**	**Sample Type**	**Easting**	**Northing**		
PSEG-SB52	PSEG-SB52F(12.0-13.0)J47237-8R	11/22/2006	12 - 13 ft	SO	N	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52G(14.2-14.9)J47237-9	11/22/2006	14.2 - 14.9 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52G(14.2-14.9)J47237-9R	11/22/2006	14.2 - 14.9 ft	SO	N	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52GD(14.2-14.9)J47237-10	11/22/2006	14.2 - 14.9 ft	SO	FD	611362.4	682708.4		1
PSEG-SB52	PSEG-SB52GD(14.2-14.9)J47237-10R	11/22/2006	14.2 - 14.9 ft	SO	FD	611362.4	682708.4	1	
PSEG-SB52	PSEG-SB52H(16.0-16.5)J47368-9	11/27/2006	16 - 16.5 ft	SO	N	611362.4	682708.4	1	1
PSEG-SB52	PSEG-SB52I(19.0-20.0)J47368-10	11/27/2006	19 - 20 ft	SO	N	611362.4	682708.4	1	1
PSEG-SB52	PSEG-SB52ID(19.0-20.0)J47368-11	11/27/2006	19 - 20 ft	SO	FD	611362.4	682708.4	1	1
PSEG-SB52	PSEG-SB52J(20.0-21.0)J47368-12	11/27/2006	20 - 21 ft	SO	N	611362.4	682708.4	1	1
PSEG-SB52	PSEG-SB52K(21.0-21.2)J47368-13	11/27/2006	21 - 21.2 ft	SO	N	611362.4	682708.4	1	1
PSEG-SB54	PSEG-SB54A(1.0-1.5)J47368-1	11/27/2006	1 - 1.5 ft	SO	N	611396.139	682742.049	1	
PSEG-SB54	PSEG-SB54B(4.0-4.5)J47368-2	11/27/2006	4 - 4.5 ft	SO	N	611396.139	682742.049	1	
PSEG-SB54	PSEG-SB54C(6.5-7.1)J47368-3	11/27/2006	6.5 - 7.1 ft	SO	N	611396.139	682742.049	1	
PSEG-SB54	PSEG-SB54D(12.0-12.5)J47368-4	11/27/2006	12 - 12.5 ft	SO	N	611396.139	682742.049	1	
PSEG-SB54	PSEG-SB54E(14.5-15.0)J47368-5	11/27/2006	14.5 - 15 ft	SO	N	611396.139	682742.049	1	
X35	114-X35A-2-2.5	10/17/2005	2 - 2.5 ft	SO	N	611365.67	682844.69	1	
X35	114-X35A-2-2.5	10/17/2005	2 - 2.5 ft	SO	N	611365.67	682844.69		1
X35	114-X35B-6-6.5	10/17/2005	6 - 6.5 ft	SO	N	611365.67	682844.69	1	
X35	114-X35B-6-6.5	10/17/2005	6 - 6.5 ft	SO	N	611365.67	682844.69		1
X35	114-X35C-9-9.5	10/17/2005	9 - 9.5 ft	SO	N	611365.67	682844.69		1
X35	114-X35D-16-16.5	10/17/2005	16 - 16.5 ft	SO	N	611365.67	682844.69	1	1
X36	114-X36A-0.8-1.3	10/17/2005	0.8 - 1.3 ft	SO	N	611519.13	682986.9	1	
X36	114-X36A-0.8-1.3	10/17/2005	0.8 - 1.3 ft	SO	N	611519.13	682986.9		1
X36	114-X36B-2-2.5	10/17/2005	2 - 2.5 ft	SO	N	611519.13	682986.9	1	
X36	114-X36B-2-2.5	10/17/2005	2 - 2.5 ft	SO	N	611519.13	682986.9		1
X36	114-X36BD-2-2.5	10/17/2005	2 - 2.5 ft	SO	FD	611519.13	682986.9	1	
X36	114-X36BD-2-2.5	10/17/2005	2 - 2.5 ft	SO	FD	611519.13	682986.9		1
X36	114-X36C-6-6.5	10/17/2005	6 - 6.5 ft	SO	N	611519.13	682986.9	1	
X36	114-X36C-6-6.5	10/17/2005	6 - 6.5 ft	SO	N	611519.13	682986.9		1
X36	114-X36D-10-10.5	10/17/2005	10 - 10.5 ft	SO	N	611519.13	682986.9	1	1
X37	114-X37A-1.5-2	10/17/2005	1.5 - 2 ft	SO	N	611612.27	683079.96	1	
X37	114-X37A-1.5-2	10/17/2005	1.5 - 2 ft	SO	N	611612.27	683079.96		1
X37	114-X37B-6-6.5	10/17/2005	6 - 6.5 ft	SO	N	611612.27	683079.96		1
X37	114-X37C-9-9.5	10/17/2005	9 - 9.5 ft	SO	N	611612.27	683079.96		1
X37	114-X37D-13.5-14	10/17/2005	13.5 - 14 ft	SO	N	611612.27	683079.96	1	1
GARIS-EF									
EF-122	EF-B122-1.0-1.5	9/10/2012	1 - 1.5 ft	SO	N	611555.7534	682869.8977		1
EF-122	EF-B122-3.0-3.5	9/10/2012	3 - 3.5 ft	SO	N	611555.7534	682869.8977		1
EF-122	EF-B122-4.5-5.0	9/10/2012	4.5 - 5 ft	SO	N	611555.7534	682869.8977		1
EF-123	EF-B123-0.2-0.7	9/7/2012	0.2 - 0.7 ft	SO	N	611614.688	682924.5994		1
EF-123	EF-B123-3.0-3.5	9/7/2012	3 - 3.5 ft	SO	N	611614.688	682924.5994		1
EF-123	EF-B123-5.0-5.5	9/7/2012	5 - 5.5 ft	SO	N	611614.688	682924.5994		1
EF-99	EF-B099-0.5-1.0	9/4/2012	0.5 - 1 ft	SO	N	611413.128	682723.521	1	1
EF-99	EF-B099-0.5-1.0X	9/4/2012	0.5 - 1 ft	SO	FD	611413.128	682723.521		1
EF-99	EF-B099-2.5-3.0	9/4/2012	2.5 - 3 ft	SO	N	611413.128	682723.521	1	
GARIS-HALSTED									
H1A1	H1A1-0.4-0.9	9/20/2012	0.4 - 0.9 ft	SO	N	611586.3162	682971.5371	1	
H1A2	H1A2-0.6-1.1	9/20/2012	0.6 - 1.1 ft	SO	N	611586.0598	682964.4446	1	
H1A2	H1A2-0.6-1.1X	9/20/2012	0.6 - 1.1 ft	SO	FD	611586.0598	682964.4446	1	
H1A3	H1A3-0.4-0.9	9/20/2012	0.4 - 0.9 ft	SO	N	611578.938	682964.7178	1	
H1A4	H1A4-0.4-0.9	9/20/2012	0.4 - 0.9 ft	SO	N	611579.2651	682971.7961	1	
H1A5	H1A5-0.6-1.1	9/20/2012	0.6 - 1.1 ft	SO	N	611589.9798	682974.9232	1	
H1A6	H1A6-0.3-0.8	9/20/2012	0.3 - 0.8 ft	SO	N	611589.4169	682960.8123	1	
H1A7	H1A7-0.4-0.9	9/20/2012	0.4 - 0.9 ft	SO	N	611575.3057	682961.3606	1	
H1A8	H1A8-0.4-0.9	9/20/2012	0.4 - 0.9 ft	SO	N	611575.8811	682975.4574	1	
H4A1	H4A1-0.5-1.0	9/21/2012	0.5 - 1 ft	SO	N	611413.9027	682808.4582	1	
H4A2	H4A2-0.4-0.9	9/21/2012	0.4 - 0.9 ft	SO	N	611413.6439	682801.3709	1	
H4A2	H4A2-0.4-0.9X	9/21/2012	0.4 - 0.9 ft	SO	FD	611413.6439	682801.3709	1	
H4A3	H4A3-0.4-0.9	9/21/2012	0.4 - 0.9 ft	SO	N	611406.5435	682801.6564	1	
H4A4	H4A4-0.6-1.1	9/21/2012	0.6 - 1.1 ft	SO	N	611406.8382	682808.7343	1	
H4A5	H4A5-0.6-1.1	9/21/2012	0.6 - 1.1 ft	SO	N	611417.545	682811.8246	1	
H4A6	H4A6-0.4-0.9	9/21/2012	0.4 - 0.9 ft	SO	N	611417.0084	682797.7307	1	
H4A7	H4A7-0.4-0.9	9/21/2012	0.4 - 0.9 ft	SO	N	611402.875	682798.2657	1	
H4A8	H4A8-0.4-0.9	9/21/2012	0.4 - 0.9 ft	SO	N	611403.4738	682812.3745	1	
Halsted 2014 Sampling									
H0	H0-0.5-1.0	2/19/2014	0.5 - 1 ft	SO	N	611597.3182	683013.9915		1
H0	H0-0.5-1.0	2/19/2014	0.5 - 1 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-2.5-3.0	2/19/2014	2.5 - 3 ft	SO	N	611597.3182	683013.9915		1
H0	H0-2.5-3.0	2/19/2014	2.5 - 3 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-4.5-5.0	2/19/2014	4.5 - 5 ft	SO	N	611597.3182	683013.9915		1
H0	H0-4.5-5.0	2/19/2014	4.5 - 5 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-6.5-7.0	2/19/2014	6.5 - 7 ft	SO	N	611597.3182	683013.9915		1
H0	H0-6.5-7.0	2/19/2014	6.5 - 7 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-8.5-9.0	2/19/2014	8.5 - 9 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-8.5-9.0	2/19/2014	8.5 - 9 ft	SO	N	611597.3182	683013.9915		1
H0	H0-10.5-11.0	2/19/2014	10.5 - 11 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-10.5-11.0	2/19/2014	10.5 - 11 ft	SO	N	611597.3182	683013.9915		1
H0	H0-12.5-13.0	2/19/2014	12.5 - 13 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-12.5-13.0	2/19/2014	12.5 - 13 ft	SO	N	611597.3182	683013.9915		1
H0	H0-14.5-15.0	2/19/2014	14.5 - 15 ft	SO	N	611597.3182	683013.9915		1
H0	H0-14.5-15.0	2/19/2014	14.5 - 15 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-16.5-17.0	2/19/2014	16.5 - 17 ft	SO	N	611597.3182	683013.9915	1	
H0	H0-16.5-17.0	2/19/2014	16.5 - 17 ft	SO	N	611597.3182	683013.9915		1
H0A	H0A-0.5-1.0	2/18/2014	0.5 - 1 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-0.5-1.0	2/18/2014	0.5 - 1 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-2.5-3.0	2/18/2014	2.5 - 3 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-2.5-3.0	2/18/2014	2.5 - 3 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-2.5-3.0X	2/18/2014	2.5 - 3 ft	SO	FD	611614.1496	682997.4245		1
H0A	H0A-2.5-3.0X	2/18/2014	2.5 - 3 ft	SO	FD	611614.1496	682997.4245	1	
H0A	H0A-4.5-5.0	2/18/2014	4.5 - 5 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-4.5-5.0	2/18/2014	4.5 - 5 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-6.5-7.0	2/18/2014	6.5 - 7 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-6.5-7.0	2/18/2014	6.5 - 7 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-8.5-9.0	2/18/2014	8.5 - 9 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-8.5-9.0	2/18/2014	8.5 - 9 ft	SO	N	611614.1496	682997.4245	1	

Table 2
Halsted Building RI - Sample Summary Table

								Hexavalent Chromium	CCPW Metals
							Lab Methods:	SW7196, SW7199	SW6010, SW6010B, SW6020
Sample Location	Sample ID	Sample Date	Sample Depth	Matrix	Sample Type	Easting	Northing		
H0A	H0A-10.5-11.0	2/18/2014	10.5 - 11 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-10.5-11.0	2/18/2014	10.5 - 11 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-12.5-13.0	2/18/2014	12.5 - 13 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-12.5-13.0	2/18/2014	12.5 - 13 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-14.5-15.0	2/18/2014	14.5 - 15 ft	SO	N	611614.1496	682997.4245		1
H0A	H0A-14.5-15.0	2/18/2014	14.5 - 15 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-16.5-17.0	2/18/2014	16.5 - 17 ft	SO	N	611614.1496	682997.4245	1	
H0A	H0A-16.5-17.0	2/18/2014	16.5 - 17 ft	SO	N	611614.1496	682997.4245		1
H0B	H0B-0.5-1.0	2/19/2014	0.5 - 1 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-0.5-1.0	2/19/2014	0.5 - 1 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-2.5-3.0	2/19/2014	2.5 - 3 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-2.5-3.0	2/19/2014	2.5 - 3 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-2.5-3.0X	2/19/2014	2.5 - 3 ft	SO	FD	611632.2979	682979.0717		1
H0B	H0B-2.5-3.0X	2/19/2014	2.5 - 3 ft	SO	FD	611632.2979	682979.0717	1	
H0B	H0B-4.5-5.0	2/19/2014	4.5 - 5 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-4.5-5.0	2/19/2014	4.5 - 5 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-6.5-7.0	2/19/2014	6.5 - 7 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-6.5-7.0	2/19/2014	6.5 - 7 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-8.5-9.0	2/19/2014	8.5 - 9 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-8.5-9.0	2/19/2014	8.5 - 9 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-10.5-11.0	2/19/2014	10.5 - 11 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-10.5-11.0	2/19/2014	10.5 - 11 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-12.5-13.0	2/19/2014	12.5 - 13 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-12.5-13.0	2/19/2014	12.5 - 13 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-14.5-15.0	2/19/2014	14.5 - 15 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-14.5-15.0	2/19/2014	14.5 - 15 ft	SO	N	611632.2979	682979.0717		1
H0B	H0B-16.5-17.0	2/19/2014	16.5 - 17 ft	SO	N	611632.2979	682979.0717	1	
H0B	H0B-16.5-17.0	2/19/2014	16.5 - 17 ft	SO	N	611632.2979	682979.0717		1
H1A11	H1A11-0.2-0.7	2/21/2014	0.2 - 0.7 ft	SO	N	611576.2608	682952.4792	1	
H1A11	H1A11-0.2-0.7	2/21/2014	0.2 - 0.7 ft	SO	N	611576.2608	682952.4792		1
H1A11	H1A11-2.0-2.5	2/21/2014	2 - 2.5 ft	SO	N	611576.2608	682952.4792		1
H1A11	H1A11-2.0-2.5	2/21/2014	2 - 2.5 ft	SO	N	611576.2608	682952.4792	1	
H1A11	H1A11-2.0-2.5X	2/21/2014	2 - 2.5 ft	SO	FD	611576.2608	682952.4792	1	
H1A11	H1A11-2.0-2.5X	2/21/2014	2 - 2.5 ft	SO	FD	611576.2608	682952.4792		1
H1A11	H1A11-3.5-4.0	2/21/2014	3.5 - 4 ft	SO	N	611576.2608	682952.4792	1	
H1A11	H1A11-3.5-4.0	2/21/2014	3.5 - 4 ft	SO	N	611576.2608	682952.4792		1
H1A12	H1A12-0.2-0.7	2/21/2014	0.2 - 0.7 ft	SO	N	611572.0198	682978.7329		1
H1A12	H1A12-0.2-0.7	2/21/2014	0.2 - 0.7 ft	SO	N	611572.0198	682978.7329	1	
H1A12	H1A12-2.5-3.0	2/21/2014	2.5 - 3 ft	SO	N	611572.0198	682978.7329	1	
H1A12	H1A12-2.5-3.0	2/21/2014	2.5 - 3 ft	SO	N	611572.0198	682978.7329		1
H1A12	H1A12-3.5-4.0	2/21/2014	3.5 - 4 ft	SO	N	611572.0198	682978.7329		1
H1A12	H1A12-3.5-4.0	2/21/2014	3.5 - 4 ft	SO	N	611572.0198	682978.7329	1	
H1A3V	H1A3V-0.2-0.7	2/21/2014	0.2 - 0.7 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-0.2-0.7	2/21/2014	0.2 - 0.7 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-2.0-2.5	2/21/2014	2 - 2.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-2.0-2.5	2/21/2014	2 - 2.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-3.0-3.5	2/21/2014	3 - 3.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-3.0-3.5	2/21/2014	3 - 3.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-5.0-5.5	2/21/2014	5 - 5.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-5.0-5.5	2/21/2014	5 - 5.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-6.0-6.5	2/21/2014	6 - 6.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-6.0-6.5	2/21/2014	6 - 6.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-8.0-8.5	2/21/2014	8 - 8.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-8.0-8.5	2/21/2014	8 - 8.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-10.0-10.5	2/21/2014	10 - 10.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-10.0-10.5	2/21/2014	10 - 10.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-12.0-12.5	2/21/2014	12 - 12.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-12.0-12.5	2/21/2014	12 - 12.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-14.0-14.5	2/21/2014	14 - 14.5 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-14.0-14.5	2/21/2014	14 - 14.5 ft	SO	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-15.5-16.0	2/21/2014	15.5 - 16 ft	SO	N	611581.7278	682962.0142		1
H1A3V	H1A3V-15.5-16.0	2/21/2014	15.5 - 16 ft	SO	N	611581.7278	682962.0142	1	
H1A9	H1A9-0.5-1.0	2/21/2014	0.5 - 1 ft	SO	N	611593.4157	682978.5801	1	
H1A9	H1A9-0.5-1.0	2/21/2014	0.5 - 1 ft	SO	N	611593.4157	682978.5801		1
H1A9	H1A9-2.5-3.0	2/21/2014	2.5 - 3 ft	SO	N	611593.4157	682978.5801		1
H1A9	H1A9-2.5-3.0	2/21/2014	2.5 - 3 ft	SO	N	611593.4157	682978.5801	1	
H1A9	H1A9-2.5-3.0X	2/21/2014	2.5 - 3 ft	SO	FD	611593.4157	682978.5801	1	
H1A9	H1A9-2.5-3.0X	2/21/2014	2.5 - 3 ft	SO	FD	611593.4157	682978.5801		1
H1A9	H1A9-3.5-4.0	2/21/2014	3.5 - 4 ft	SO	N	611593.4157	682978.5801		1
H1A9	H1A9-3.5-4.0	2/21/2014	3.5 - 4 ft	SO	N	611593.4157	682978.5801	1	
H4A10	H4A10-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611420.6647	682794.287		1
H4A10	H4A10-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611420.6647	682794.287	1	
H4A10	H4A10-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611420.6647	682794.287	1	
H4A10	H4A10-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611420.6647	682794.287		1
H4A11	H4A11S-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611398.2613	682808.8936	1	
H4A11	H4A11S-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611398.2613	682808.8936		1
H4A11	H4A11S-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611398.2613	682808.8936		1
H4A11	H4A11S-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611398.2613	682808.8936	1	
H4A12	H4A12-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611399.841	682815.8854		1
H4A12	H4A12-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611399.841	682815.8854	1	
H4A12	H4A12-0.5-1.0X	3/7/2014	0.5 - 1 ft	SO	FD	611399.841	682815.8854		1
H4A12	H4A12-0.5-1.0X	3/7/2014	0.5 - 1 ft	SO	FD	611399.841	682815.8854	1	
H4A12	H4A12-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611399.841	682815.8854		1
H4A12	H4A12-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611399.841	682815.8854	1	
H4A4V	H4A4V-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-2.0-2.5	3/7/2014	2 - 2.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-2.0-2.5	3/7/2014	2 - 2.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-3.0-3.5	3/7/2014	3 - 3.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-3.0-3.5	3/7/2014	3 - 3.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-5.0-5.5	3/7/2014	5 - 5.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-5.0-5.5	3/7/2014	5 - 5.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-7.0-7.5	3/7/2014	7 - 7.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-7.0-7.5	3/7/2014	7 - 7.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-8.0-8.5	3/7/2014	8 - 8.5 ft	SO	N	611407.1428	682813.5685	1	

Table 2
Halsted Building RI - Sample Summary Table

								Hexavalent Chromium	CCPW Metals
							Lab Methods:	SW7196, SW7199	SW6010, SW6010B, SW6020
Sample Location	Sample ID	Sample Date	Sample Depth	Matrix	Sample Type	Easting	Northing		
H4A4V	H4A4V-8.0-8.5	3/7/2014	8 - 8.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-10.0-10.5	3/7/2014	10 - 10.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-10.0-10.5	3/7/2014	10 - 10.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-12.0-12.5	3/7/2014	12 - 12.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-12.0-12.5	3/7/2014	12 - 12.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-14.0-14.5	3/7/2014	14 - 14.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-14.0-14.5	3/7/2014	14 - 14.5 ft	SO	N	611407.1428	682813.5685		1
H4A4V	H4A4V-16.0-16.5	3/7/2014	16 - 16.5 ft	SO	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-16.0-16.5	3/7/2014	16 - 16.5 ft	SO	N	611407.1428	682813.5685		1
H4A9	H4A9-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611420.8396	682815.6687		1
H4A9	H4A9-0.5-1.0	3/7/2014	0.5 - 1 ft	SO	N	611420.8396	682815.6687	1	
H4A9	H4A9-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611420.8396	682815.6687	1	
H4A9	H4A9-2.5-3.0	3/7/2014	2.5 - 3 ft	SO	N	611420.8396	682815.6687		1
H5	H5-0.3-0.8	2/26/2014	0.3 - 0.8 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-0.3-0.8	2/26/2014	0.3 - 0.8 ft	SO	N	611431.4883	682858.8083		1
H5	H5-2.0-2.5	2/26/2014	2 - 2.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-2.0-2.5	2/26/2014	2 - 2.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-4.0-4.5	2/26/2014	4 - 4.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-4.0-4.5	2/26/2014	4 - 4.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-6.0-6.5	2/26/2014	6 - 6.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-6.0-6.5	2/26/2014	6 - 6.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-8.0-8.5	2/26/2014	8 - 8.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-8.0-8.5	2/26/2014	8 - 8.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-10.0-10.5	2/26/2014	10 - 10.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-10.0-10.5	2/26/2014	10 - 10.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-12.0-12.5	2/26/2014	12 - 12.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-12.0-12.5	2/26/2014	12 - 12.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-14.0-14.5	2/26/2014	14 - 14.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-14.0-14.5	2/26/2014	14 - 14.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-16.0-16.5	2/26/2014	16 - 16.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-16.0-16.5	2/26/2014	16 - 16.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-18.0-18.5	2/26/2014	18 - 18.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-18.0-18.5	2/26/2014	18 - 18.5 ft	SO	N	611431.4883	682858.8083		1
H5	H5-20.0-20.5	2/26/2014	20 - 20.5 ft	SO	N	611431.4883	682858.8083	1	
H5	H5-20.0-20.5	2/26/2014	20 - 20.5 ft	SO	N	611431.4883	682858.8083		1
H5A	H5A-0.5-1.0	2/26/2014	0.5 - 1 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-0.5-1.0	2/26/2014	0.5 - 1 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-0.5-1.0X	2/26/2014	0.5 - 1 ft	SO	FD	611448.6996	682841.9482	1	
H5A	H5A-0.5-1.0X	2/26/2014	0.5 - 1 ft	SO	FD	611448.6996	682841.9482		1
H5A	H5A-2.0-2.5	2/26/2014	2 - 2.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-2.0-2.5	2/26/2014	2 - 2.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-4.0-4.5	2/26/2014	4 - 4.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-4.0-4.5	2/26/2014	4 - 4.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-6.0-6.5	2/26/2014	6 - 6.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-6.0-6.5	2/26/2014	6 - 6.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-8.0-8.5	2/26/2014	8 - 8.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-8.0-8.5	2/26/2014	8 - 8.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-10.0-10.5	2/26/2014	10 - 10.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-10.0-10.5	2/26/2014	10 - 10.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-12.0-12.5	2/26/2014	12 - 12.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-12.0-12.5	2/26/2014	12 - 12.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-14.0-14.5	2/26/2014	14 - 14.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-14.0-14.5	2/26/2014	14 - 14.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-16.0-16.5	2/26/2014	16 - 16.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-16.0-16.5	2/26/2014	16 - 16.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-18.0-18.5	2/26/2014	18 - 18.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-18.0-18.5	2/26/2014	18 - 18.5 ft	SO	N	611448.6996	682841.9482		1
H5A	H5A-20.0-20.5	2/26/2014	20 - 20.5 ft	SO	N	611448.6996	682841.9482	1	
H5A	H5A-20.0-20.5	2/26/2014	20 - 20.5 ft	SO	N	611448.6996	682841.9482		1
H5B	H5B-0.5-1.0	2/26/2014	0.5 - 1 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-0.5-1.0	2/26/2014	0.5 - 1 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-2.0-2.5	2/26/2014	2 - 2.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-2.0-2.5	2/26/2014	2 - 2.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-4.0-4.5	2/26/2014	4 - 4.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-4.0-4.5	2/26/2014	4 - 4.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-6.0-6.5	2/26/2014	6 - 6.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-6.0-6.5	2/26/2014	6 - 6.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-8.0-8.5	2/26/2014	8 - 8.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-8.0-8.5	2/26/2014	8 - 8.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-10.0-10.5	2/26/2014	10 - 10.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-10.0-10.5	2/26/2014	10 - 10.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-12.0-12.5	2/26/2014	12 - 12.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-12.0-12.5	2/26/2014	12 - 12.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-14.0-14.5	2/26/2014	14 - 14.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-14.0-14.5	2/26/2014	14 - 14.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-16.0-16.5	2/26/2014	16 - 16.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-16.0-16.5	2/26/2014	16 - 16.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-18.0-18.5	2/26/2014	18 - 18.5 ft	SO	N	611468.0185	682822.6293	1	
H5B	H5B-18.0-18.5	2/26/2014	18 - 18.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-20.0-20.5	2/26/2014	20 - 20.5 ft	SO	N	611468.0185	682822.6293		1
H5B	H5B-20.0-20.5	2/26/2014	20 - 20.5 ft	SO	N	611468.0185	682822.6293	1	
H6	H6-0.4-0.9	3/1/2014	0.4 - 0.9 ft	SO	N	611378.8929	682802.0941		1
H6	H6-0.4-0.9	3/1/2014	0.4 - 0.9 ft	SO	N	611378.8929	682802.0941	1	
H6	H6-2.0-2.5	3/1/2014	2 - 2.5 ft	SO	N	611378.8929	682802.0941		1
H6	H6-2.0-2.5	3/1/2014	2 - 2.5 ft	SO	N	611378.8929	682802.0941	1	
H6	H6-4.0-4.5	3/1/2014	4 - 4.5 ft	SO	N	611378.8929	682802.0941		1
H6	H6-4.0-4.5	3/1/2014	4 - 4.5 ft	SO	N	611378.8929	682802.0941	1	
H6	H6-4.0-4.5X	3/1/2014	4 - 4.5 ft	SO	FD	611378.8929	682802.0941		1
H6	H6-4.0-4.5X	3/1/2014	4 - 4.5 ft	SO	FD	611378.8929	682802.0941	1	
H6	H6-6.0-6.5	3/1/2014	6 - 6.5 ft	SO	N	611378.8929	682802.0941		1
H6	H6-6.0-6.5	3/1/2014	6 - 6.5 ft	SO	N	611378.8929	682802.0941	1	
H6	H6-8.0-8.5	3/1/2014	8 - 8.5 ft	SO	N	611378.8929	682802.0941		1
H6	H6-8.0-8.5	3/1/2014	8 - 8.5 ft	SO	N	611378.8929	682802.0941	1	
H6	H6-10.0-10.5	3/1/2014	10 - 10.5 ft	SO	N	611378.8929	682802.0941	1	
H6	H6-10.0-10.5	3/1/2014	10 - 10.5 ft	SO	N	611378.8929	682802.0941		1

Table 2
Halsted Building RI - Sample Summary Table

								Hexavalent Chromium	CCPW Metals
							Lab Methods:	SW7196, SW7199	SW6010, SW6010B, SW6020
Sample Location	Sample ID	Sample Date	Sample Depth	Matrix	Sample Type	Easting	Northing		
H6A	H6A-0.4-0.9	3/1/2014	0.4 - 0.9 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-0.4-0.9	3/1/2014	0.4 - 0.9 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-2.0-2.5	3/1/2014	2 - 2.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-2.0-2.5	3/1/2014	2 - 2.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-4.0-4.5	3/1/2014	4 - 4.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-4.0-4.5	3/1/2014	4 - 4.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-6.0-6.5	3/1/2014	6 - 6.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-6.0-6.5	3/1/2014	6 - 6.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-8.0-8.5	3/1/2014	8 - 8.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-8.0-8.5	3/1/2014	8 - 8.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-10.0-10.5	3/1/2014	10 - 10.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-10.0-10.5	3/1/2014	10 - 10.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-12.0-12.5	3/1/2014	12 - 12.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-12.0-12.5	3/1/2014	12 - 12.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-14.0-14.5	3/1/2014	14 - 14.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-14.0-14.5	3/1/2014	14 - 14.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-16.0-16.5	3/1/2014	16 - 16.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-16.0-16.5	3/1/2014	16 - 16.5 ft	SO	N	611393.882	682783.1949	1	
H6A	H6A-18.0-18.5	3/1/2014	18 - 18.5 ft	SO	N	611393.882	682783.1949		1
H6A	H6A-18.0-18.5	3/1/2014	18 - 18.5 ft	SO	N	611393.882	682783.1949	1	
H6B	H6B-0.4-0.9	3/1/2014	0.4 - 0.9 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-0.4-0.9	3/1/2014	0.4 - 0.9 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-2.0-2.5	3/1/2014	2 - 2.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-2.0-2.5	3/1/2014	2 - 2.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-2.0-2.5X	3/1/2014	2 - 2.5 ft	SO	FD	611411.6563	682764.4342	1	
H6B	H6B-2.0-2.5X	3/1/2014	2 - 2.5 ft	SO	FD	611411.6563	682764.4342		1
H6B	H6B-4.0-4.5	3/1/2014	4 - 4.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-4.0-4.5	3/1/2014	4 - 4.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-6.0-6.5	3/1/2014	6 - 6.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-6.0-6.5	3/1/2014	6 - 6.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-8.0-8.5	3/1/2014	8 - 8.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-8.0-8.5	3/1/2014	8 - 8.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-10.0-10.5	3/1/2014	10 - 10.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-10.0-10.5	3/1/2014	10 - 10.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-12.0-12.5	3/1/2014	12 - 12.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-12.0-12.5	3/1/2014	12 - 12.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-14.0-14.5	3/1/2014	14 - 14.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-14.0-14.5	3/1/2014	14 - 14.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-16.0-16.5	3/1/2014	16 - 16.5 ft	SO	N	611411.6563	682764.4342		1
H6B	H6B-16.0-16.5	3/1/2014	16 - 16.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-18.0-18.5	3/1/2014	18 - 18.5 ft	SO	N	611411.6563	682764.4342	1	
H6B	H6B-18.0-18.5	3/1/2014	18 - 18.5 ft	SO	N	611411.6563	682764.4342		1
HAL-AOC3	HAL-AOC3-0.5-1.0	2/27/2014	0.5 - 1 ft	SO	N	611418.124	682846.487	1	
HAL-AOC3	HAL-AOC3-0.5-1.0	2/27/2014	0.5 - 1 ft	SO	N	611418.124	682846.487		1
HTP1	HTP1-0.3-0.8	2/22/2014	0.3 - 0.8 ft	SO	N	611578.938	682964.7178	1	
HTP1	HTP1-0.3-0.8	2/22/2014	0.3 - 0.8 ft	SO	N	611578.938	682964.7178		1
HTP1	HTP1-2.0-2.5	2/22/2014	2 - 2.5 ft	SO	N	611578.938	682964.7178	1	
HTP1	HTP1-2.0-2.5	2/22/2014	2 - 2.5 ft	SO	N	611578.938	682964.7178		1
HTP2	HTP2-0.5-1.0	3/8/2014	0.5 - 1 ft	SO	N	611406.8382	682808.7343		1
HTP2	HTP2-0.5-1.0	3/8/2014	0.5 - 1 ft	SO	N	611406.8382	682808.7343	1	
HTP2	HTP2-2.0-2.5	3/8/2014	2 - 2.5 ft	SO	N	611406.8382	682808.7343		1
HTP2	HTP2-2.0-2.5	3/8/2014	2 - 2.5 ft	SO	N	611406.8382	682808.7343	1	
HAL-AB-EW1	HAL-AB-EW1	3/20/2014		CH	N	611443.2679	682777.1082	1	
HAL-AB-EW1	HAL-AB-EW1	3/20/2014		CH	N	611443.2679	682777.1082		1
HAL-B-C-NE	HAL-B-C-NE	3/24/2014		CH	N	611515.4852	682851.0886	1	
HAL-B-C-NE	HAL-B-C-NE	3/24/2014		CH	N	611515.4852	682851.0886		1
HAL-B-NWC1	HAL-B-NWC1	3/4/2014		CH	N	611511.8817	682859.2163	1	
HAL-B-NWC1	HAL-B-NWC1	3/4/2014		CH	N	611511.8817	682859.2163		1
HAL-B-NWC2	HAL-B-NWC2	3/3/2014		CH	N	611485.071	682887.5743	1	
HAL-B-NWC2	HAL-B-NWC2	3/3/2014		CH	N	611485.071	682887.5743		1
HAL-B-SWC	HAL-B-SWC	3/4/2014		CH	N	611471.0464	682873.2964	1	
HAL-B-SWC	HAL-B-SWC	3/4/2014		CH	N	611471.0464	682873.2964		1
HAL-B-SWWC	HAL-B-SWWC	3/3/2014		CH	N	611449.39	682896.7447	1	
HAL-B-SWWC	HAL-B-SWWC	3/3/2014		CH	N	611449.39	682896.7447		1
HAL-CC1	HAL-CC1	2/24/2014		CH	N	611593.54	682951.728	1	
HAL-CC1	HAL-CC1	2/24/2014		CH	N	611593.54	682951.728		1
HAL-CC2	HAL-CC2	2/26/2014		CH	N	611481.77	682925.3		1
HAL-CC2	HAL-CC2	2/26/2014		CH	N	611481.77	682925.3	1	
HAL-CC3	HAL-CC3	2/27/2014		CH	N	611418.124	682846.487	1	
HAL-CC3	HAL-CC3	2/27/2014		CH	N	611418.124	682846.487		1
HAL-CC4	HAL-CC4	3/5/2014		CH	N	611352.321	682798.814	1	
HAL-CC4	HAL-CC4	3/5/2014		CH	N	611352.321	682798.814		1
HAL-DE-EW1	HAL-DE-EW1	3/31/2014		CH	N	611496.1339	682827.2319	1	
HAL-DE-EW1	HAL-DE-EW1	3/31/2014		CH	N	611496.1339	682827.2319		1
H0	H0-CT	2/19/2014	0 - 0.1 ft	C	N	611597.3182	683013.9915	1	
H0	H0-CT	2/19/2014	0 - 0.1 ft	C	N	611597.3182	683013.9915		1
H0	H0-CB	2/19/2014	0.4 - 0.5 ft	C	N	611597.3182	683013.9915		1
H0	H0-CB	2/19/2014	0.4 - 0.5 ft	C	N	611597.3182	683013.9915	1	
H0A	H0A-CT	2/18/2014	0 - 0.1 ft	C	N	611614.1496	682997.4245	1	
H0A	H0A-CT	2/18/2014	0 - 0.1 ft	C	N	611614.1496	682997.4245		1
H0A	H0A-CB	2/18/2014	0.4 - 0.5 ft	C	N	611614.1496	682997.4245	1	
H0A	H0A-CB	2/18/2014	0.4 - 0.5 ft	C	N	611614.1496	682997.4245		1
H0B	H0B-CT	2/19/2014	0 - 0.1 ft	C	N	611632.2979	682979.0717	1	
H0B	H0B-CT	2/19/2014	0 - 0.1 ft	C	N	611632.2979	682979.0717		1
H0B	H0B-CB	2/19/2014	0.4 - 0.5 ft	C	N	611632.2979	682979.0717	1	
H0B	H0B-CB	2/19/2014	0.4 - 0.5 ft	C	N	611632.2979	682979.0717		1
H1A11	H1A11-CT	2/21/2014	0 - 0.1 ft	C	N	611576.2608	682952.4792		1
H1A11	H1A11-CT	2/21/2014	0 - 0.1 ft	C	N	611576.2608	682952.4792	1	
H1A11	H1A11-CB	2/21/2014	0.1 - 0.2 ft	C	N	611576.2608	682952.4792	1	
H1A11	H1A11-CB	2/21/2014	0.1 - 0.2 ft	C	N	611576.2608	682952.4792		1
H1A12	H1A12-CT	2/21/2014	0 - 0.1 ft	C	N	611572.0198	682978.7329		1
H1A12	H1A12-CT	2/21/2014	0 - 0.1 ft	C	N	611572.0198	682978.7329	1	
H1A12	H1A12-CB	2/21/2014	0.1 - 0.2 ft	C	N	611572.0198	682978.7329		1
H1A12	H1A12-CB	2/21/2014	0.1 - 0.2 ft	C	N	611572.0198	682978.7329	1	
H1A3V	H1A3V-CT	2/21/2014	0 - 0.08 ft	C	N	611581.7278	682962.0142	1	

Table 2
Halsted Building RI - Sample Summary Table

								Hexavalent Chromium	CCPW Metals
							Lab Methods:	SW7196, SW7199	SW6010, SW6010B, SW6020
Sample Location	Sample ID	Sample Date	Sample Depth	Matrix	Sample Type	Easting	Northing		
H1A3V	H1A3V-CT	2/21/2014	0 - 0.08 ft	C	N	611581.7278	682962.0142		1
H1A3V	H1A3V-CM	2/21/2014	0.08 - 0.12 ft	C	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-CM	2/21/2014	0.08 - 0.12 ft	C	N	611581.7278	682962.0142		1
H1A3V	H1A3V-CB	2/21/2014	0.12 - 0.2 ft	C	N	611581.7278	682962.0142	1	
H1A3V	H1A3V-CB	2/21/2014	0.12 - 0.2 ft	C	N	611581.7278	682962.0142		1
H1A9	H1A9-CT	2/21/2014	0 - 0.1 ft	C	N	611593.4157	682978.5801	1	
H1A9	H1A9-CT	2/21/2014	0 - 0.1 ft	C	N	611593.4157	682978.5801		1
H1A9	H1A9-CB	2/21/2014	0.4 - 0.5 ft	C	N	611593.4157	682978.5801	1	
H1A9	H1A9-CB	2/21/2014	0.4 - 0.5 ft	C	N	611593.4157	682978.5801		1
H4A10	H4A10-CT	3/7/2014	0 - 0.1 ft	C	N	611420.6647	682794.287		1
H4A10	H4A10-CT	3/7/2014	0 - 0.1 ft	C	N	611420.6647	682794.287	1	
H4A10	H4A10-CB	3/7/2014	0.4 - 0.5 ft	C	N	611420.6647	682794.287	1	
H4A10	H4A10-CB	3/7/2014	0.4 - 0.5 ft	C	N	611420.6647	682794.287		1
H4A11	H4A11S-CT	3/7/2014	0 - 0.1 ft	C	N	611398.2613	682808.8936	1	
H4A11	H4A11S-CT	3/7/2014	0 - 0.1 ft	C	N	611398.2613	682808.8936		1
H4A11	H4A11S-CB	3/7/2014	0.4 - 0.5 ft	C	N	611398.2613	682808.8936	1	
H4A11	H4A11S-CB	3/7/2014	0.4 - 0.5 ft	C	N	611398.2613	682808.8936		1
H4A12	H4A12-CT	3/7/2014	0 - 0.1 ft	C	N	611399.841	682815.8854		1
H4A12	H4A12-CT	3/7/2014	0 - 0.1 ft	C	N	611399.841	682815.8854	1	
H4A12	H4A12-CB	3/7/2014	0.4 - 0.5 ft	C	N	611399.841	682815.8854		1
H4A12	H4A12-CB	3/7/2014	0.4 - 0.5 ft	C	N	611399.841	682815.8854	1	
H4A4V	H4A4V-CT	3/7/2014	0 - 0.1 ft	C	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-CT	3/7/2014	0 - 0.1 ft	C	N	611407.1428	682813.5685		1
H4A4V	H4A4V-CB	3/7/2014	0.4 - 0.5 ft	C	N	611407.1428	682813.5685	1	
H4A4V	H4A4V-CB	3/7/2014	0.4 - 0.5 ft	C	N	611407.1428	682813.5685		1
H4A9	H4A9-CT	3/7/2014	0 - 0.1 ft	C	N	611420.8396	682815.6687	1	
H4A9	H4A9-CT	3/7/2014	0 - 0.1 ft	C	N	611420.8396	682815.6687		1
H4A9	H4A9-CB	3/7/2014	0.4 - 0.5 ft	C	N	611420.8396	682815.6687	1	
H4A9	H4A9-CB	3/7/2014	0.4 - 0.5 ft	C	N	611420.8396	682815.6687		1
H5	H5-CT	2/26/2014	0 - 0.1 ft	C	N	611431.4883	682858.8083	1	
H5	H5-CT	2/26/2014	0 - 0.1 ft	C	N	611431.4883	682858.8083		1
H5	H5-CB	2/26/2014	0.2 - 0.3 ft	C	N	611431.4883	682858.8083	1	
H5	H5-CB	2/26/2014	0.2 - 0.3 ft	C	N	611431.4883	682858.8083		1
H5A	H5A-CT	2/26/2014	0 - 0.1 ft	C	N	611448.6996	682841.9482	1	
H5A	H5A-CT	2/26/2014	0 - 0.1 ft	C	N	611448.6996	682841.9482		1
H5A	H5A-CB	2/26/2014	0.4 - 0.5 ft	C	N	611448.6996	682841.9482		1
H5A	H5A-CB	2/26/2014	0.4 - 0.5 ft	C	N	611448.6996	682841.9482	1	
H5B	H5B-CT	2/26/2014	0 - 0.1 ft	C	N	611468.0185	682822.6293	1	
H5B	H5B-CT	2/26/2014	0 - 0.1 ft	C	N	611468.0185	682822.6293		1
H5B	H5B-CB	2/26/2014	0.4 - 0.5 ft	C	N	611468.0185	682822.6293		1
H5B	H5B-CB	2/26/2014	0.4 - 0.5 ft	C	N	611468.0185	682822.6293	1	
H6	H6-CT	3/1/2014	0 - 0.1 ft	C	N	611378.8929	682802.0941		1
H6	H6-CT	3/1/2014	0 - 0.1 ft	C	N	611378.8929	682802.0941	1	
H6	H6-CB	3/1/2014	0.3 - 0.4 ft	C	N	611378.8929	682802.0941		1
H6	H6-CB	3/1/2014	0.3 - 0.4 ft	C	N	611378.8929	682802.0941	1	
H6A	H6A-CT	3/1/2014	0 - 0.1 ft	C	N	611393.882	682783.1949	1	
H6A	H6A-CT	3/1/2014	0 - 0.1 ft	C	N	611393.882	682783.1949		1
H6A	H6A-CB	3/1/2014	0.3 - 0.4 ft	C	N	611393.882	682783.1949	1	
H6A	H6A-CB	3/1/2014	0.3 - 0.4 ft	C	N	611393.882	682783.1949		1
H6B	H6B-CT	3/1/2014	0 - 0.1 ft	C	N	611411.6563	682764.4342		1
H6B	H6B-CT	3/1/2014	0 - 0.1 ft	C	N	611411.6563	682764.4342	1	
H6B	H6B-CB	3/1/2014	0.3 - 0.4 ft	C	N	611411.6563	682764.4342		1
H6B	H6B-CB	3/1/2014	0.3 - 0.4 ft	C	N	611411.6563	682764.4342	1	
HALST-SUMP	HAL-B-SUMP	3/3/2014		WG	N	611462.9932	682908.028	1	
HALST-SUMP	HAL-B-SUMP	3/3/2014		WG	N	611462.9932	682908.028		1
Halsted									
H1	H1-0.3	12/10/2011	0.3 - 0.8 ft	SO	N	611566.0444	682990.4128	1	1
H1	H1-5.0	12/10/2011	5 - 5.5 ft	SO	N	611566.0444	682990.4128	1	1
H1	H1-10.0	12/10/2011	10 - 10.5 ft	SO	N	611566.0444	682990.4128	1	1
H1	H1-15.0	12/10/2011	15 - 15.5 ft	SO	N	611566.0444	682990.4128	1	1
H1	H1-16.0	12/10/2011	16 - 16.5 ft	SO	N	611566.0444	682990.4128	1	1
H1A	H1A-0.5	12/10/2011	0.5 - 1 ft	SO	N	611582.6426	682968.1418	1	1
H1A	H1A-0.5X	12/10/2011	0.5 - 1 ft	SO	FD	611582.6426	682968.1418	1	1
H1A	H1A-2.0	12/10/2011	2 - 2.5 ft	SO	N	611582.6426	682968.1418	1	1
H1A	H1A-5.0	12/10/2011	3 - 3.5 ft	SO	N	611582.6426	682968.1418	1	1
H1A	H1A-6.0	12/10/2011	6 - 6.5 ft	SO	N	611582.6426	682968.1418	1	1
H1A	H1A-10.0	12/10/2011	10 - 10.5 ft	SO	N	611582.6426	682968.1418	1	1
H1A	H1A-15.0	12/10/2011	15 - 15.5 ft	SO	N	611582.6426	682968.1418	1	1
H1B	H1B-0.2	12/10/2011	0.2 - 0.7 ft	SO	N	611610.0471	682942.7805	1	1
H1B	H1B-5.0	12/10/2011	5 - 5.5 ft	SO	N	611610.0471	682942.7805	1	1
H1B	H1B-10.0	12/10/2011	10 - 10.5 ft	SO	N	611610.0471	682942.7805	1	1
H1B	H1B-15.0	12/10/2011	15 - 15.5 ft	SO	N	611610.0471	682942.7805	1	1
H1B	H1B-20.0	12/10/2011	20 - 20.5 ft	SO	N	611610.0471	682942.7805	1	1
H1B	H1B-25.0	12/10/2011	25 - 25.5 ft	SO	N	611610.0471	682942.7805	1	1
H1B	H1B-30.0	12/10/2011	30 - 30.5 ft	SO	N	611610.0471	682942.7805	1	1
H2	H2-0.6	12/10/2011	0.6 - 1.1 ft	SO	N	611538.8965	682970.1882	1	1
H2	H2-0.6X	12/10/2011	0.6 - 1.1 ft	SO	FD	611538.8965	682970.1882	1	1
H2	H2-2.0	12/10/2011	2 - 2.5 ft	SO	N	611538.8965	682970.1882	1	1
H2	H2-5.0	12/10/2011	5 - 5.5 ft	SO	N	611538.8965	682970.1882	1	1
H2	H2-10.0	12/10/2011	10 - 10.5 ft	SO	N	611538.8965	682970.1882	1	1
H2	H2-15.0	12/10/2011	15 - 15.5 ft	SO	N	611538.8965	682970.1882	1	1
H2	H2-16.0	12/10/2011	16 - 16.5 ft	SO	N	611538.8965	682970.1882	1	1
H2	H2-18.0	12/10/2011	18 - 18.5 ft	SO	N	611538.8965	682970.1882	1	1
H2A	H2A-0.4	12/10/2011	0.4 - 0.9 ft	SO	N	611559.0677	682946.9244	1	1
H2A	H2A-2.0	12/10/2011	2 - 2.5 ft	SO	N	611559.0677	682946.9244	1	1
H2A	H2A-5.0	12/10/2011	5 - 5.5 ft	SO	N	611559.0677	682946.9244	1	1
H2A	H2A-6.0	12/10/2011	6 - 6.5 ft	SO	N	611559.0677	682946.9244	1	1
H2A	H2A-10.0	12/10/2011	10 - 10.5 ft	SO	N	611559.0677	682946.9244	1	1
H2A	H2A-15.0	12/10/2011	15 - 15.5 ft	SO	N	611559.0677	682946.9244	1	1
H2B	H2B-5.0	12/10/2011	5 - 5.5 ft	SO	N	611591.9971	682925.8001	1	1
H2B	H2B-10.0	12/10/2011	10 - 10.5 ft	SO	N	611591.9971	682925.8001	1	1
H2B	H2B-15.0	12/10/2011	15 - 15.5 ft	SO	N	611591.9971	682925.8001	1	1
H2B	H2B-20.0	12/10/2011	20 - 20.5 ft	SO	N	611591.9971	682925.8001	1	1
H2B	H2B-25.0	12/10/2011	25 - 25.5 ft	SO	N	611591.9971	682925.8001	1	1
H3	H3-0.5	12/11/2011	0.5 - 1 ft	SO	N	611493.0566	682917.9807	1	1

Table 2
Halsted Building RI - Sample Summary Table

								Hexavalent Chromium	CCPW Metals
							Lab Methods:	SW7196, SW7199	SW6010, SW6010B, SW6020
Sample Location	Sample ID	Sample Date	Sample Depth	Matrix	Sample Type	Easting	Northing		
H3	H3-5.0	12/11/2011	5 - 5.5 ft	SO	N	611493.0566	682917.9807	1	1
H3	H3-6.0	12/11/2011	6 - 6.5 ft	SO	N	611493.0566	682917.9807	1	1
H3	H3-10.0	12/11/2011	10 - 10.5 ft	SO	N	611493.0566	682917.9807	1	1
H3A	H3A-0.5	12/11/2011	0.5 - 1 ft	SO	N	611506.0115	682893.4639	1	1
H3A	H3A-5.0	12/11/2011	5 - 5.5 ft	SO	N	611506.0115	682893.4639	1	1
H3A	H3A-7.0	12/11/2011	7 - 7.5 ft	SO	N	611506.0115	682893.4639	1	1
H3A	H3A-10.0	12/11/2011	10 - 10.5 ft	SO	N	611506.0115	682893.4639	1	1
H3A	H3A-15.0	12/11/2011	15 - 15.5 ft	SO	N	611506.0115	682893.4639	1	1
H3B	H3B-1.5	12/11/2011	1.5 - 2 ft	SO	N	611542.1076	682883.0383	1	1
H3B	H3B-5.0	12/11/2011	5 - 5.5 ft	SO	N	611542.1076	682883.0383	1	1
H3B	H3B-10.0	12/11/2011	10 - 10.5 ft	SO	N	611542.1076	682883.0383	1	1
H3B	H3B-15.0	12/11/2011	15 - 15.5 ft	SO	N	611542.1076	682883.0383	1	1
H3B	H3B-17.0	12/11/2011	17 - 17.5 ft	SO	N	611542.1076	682883.0383	1	1
H3B	H3B-20.0	12/11/2011	20 - 20.5 ft	SO	N	611542.1076	682883.0383	1	1
H3B	H3B-25.0	12/11/2011	25 - 25.5 ft	SO	N	611542.1076	682883.0383	1	1
H3B	H3B-25.0X	12/11/2011	25 - 25.5 ft	SO	FD	611542.1076	682883.0383	1	1
H3B	H3B-30.0	12/11/2011	30 - 30.5 ft	SO	N	611542.1076	682883.0383	1	1
H4	H4-0.5	12/11/2011	0.5 - 1 ft	SO	N	611388.5251	682829.0949	1	1
H4	H4-5.0	12/11/2011	5 - 5.5 ft	SO	N	611388.5251	682829.0949	1	1
H4	H4-7.0	12/11/2011	7 - 7.5 ft	SO	N	611388.5251	682829.0949	1	1
H4	H4-10.0	12/11/2011	10 - 10.5 ft	SO	N	611388.5251	682829.0949	1	1
H4	H4-15.0	12/11/2011	15 - 15.5 ft	SO	N	611388.5251	682829.0949	1	1
H4A	H4A-0.5	12/11/2011	0.5 - 1 ft	SO	N	611410.2304	682805.0641	1	1
H4A	H4A-2.0	12/11/2011	2 - 2.5 ft	SO	N	611410.2304	682805.0641	1	1
H4A	H4A-5.0	12/11/2011	5 - 5.5 ft	SO	N	611410.2304	682805.0641	1	1
H4A	H4A-7.0	12/11/2011	7 - 7.5 ft	SO	N	611410.2304	682805.0641	1	1
H4A	H4A-10.0	12/11/2011	10 - 10.5 ft	SO	N	611410.2304	682805.0641	1	1
H4B	H4B-0.5	12/11/2011	0.5 - 1 ft	SO	N	611428.0598	682783.3584	1	1
H4B	H4B-5.0	12/11/2011	5 - 5.5 ft	SO	N	611428.0598	682783.3584	1	1
H4B	H4B-7.0	12/11/2011	7 - 7.5 ft	SO	N	611428.0598	682783.3584	1	1
H4B	H4B-10.0	12/11/2011	10 - 10.5 ft	SO	N	611428.0598	682783.3584	1	1
H4B	H4B-15.0	12/11/2011	15 - 15.5 ft	SO	N	611428.0598	682783.3584	1	1
H1A1	H1A1-CC	9/20/2012	0 - 0.4 ft	C	N	611586.3162	682971.5371	1	
H1A2	H1A2-CC	9/20/2012	0 - 0.6 ft	C	N	611586.0598	682964.4446	1	
H1A3	H1A3-CC	9/20/2012	0 - 0.4 ft	C	N	611578.938	682964.7178	1	
H1A7	H1A7-CC	9/20/2012	0 - 0.4 ft	C	N	611575.3057	682961.3606	1	
HALST-SUMP	HALST-SUMP	12/7/2011	0 - 0 ft	WG	N	611462.9932	682908.028	1	1
PSEG									
SB25	SB25(0.5-1)	4/13/2004	0.5 - 1 ft	SO	N	611476.89	682936.23	1	
SB25	SB25(2-2.5)	4/13/2004	2 - 2.5 ft	SO	N	611476.89	682936.23	1	
SB25	SB25(4-4.5)	4/13/2004	4 - 4.5 ft	SO	N	611476.89	682936.23	1	
SB25	SB25(6-6.5)	4/13/2004	6 - 6.5 ft	SO	N	611476.89	682936.23	1	
SB25	SB25(8-8.4)	4/13/2004	8 - 8.4 ft	SO	N	611476.89	682936.23	1	
SB25	SB25(10.5-11)	4/13/2004	10.5 - 11 ft	SO	N	611476.89	682936.23	1	
SB25	SB25(10.5-11)D	4/13/2004	10.5 - 11 ft	SO	FD	611476.89	682936.23	1	
SB25	SB25(12-12.5)	4/13/2004	12 - 12.5 ft	SO	N	611476.89	682936.23	1	
SB25	SB25(14.5-15)	4/13/2004	14.5 - 15 ft	SO	N	611476.89	682936.23	1	
PSEG_2									
PSEG-SB30	NJD981084668-4/26/2005-1	4/26/2005	18 - 18.5 ft	SO	N	611570.4764	682885.3409		1
PSEG-SB30	NJD981084668-4/26/2005-2	4/26/2005	25 - 25.5 ft	SO	N	611570.4764	682885.3409		1
PSEG-SB30	NJD981084668-4/26/2005-10	4/26/2005	46.75 - 47.25 ft	SO	N	611570.4764	682885.3409		1
PSEG-SB30	NJD981084668-4/26/2005-20	4/26/2005	62 - 62.5 ft	SO	N	611570.4764	682885.3409		1
PSEG-SB40	NJD981084668-11/21/2006-SB40_10	11/21/2006	10 - 10.5 ft	SO	N	611352.273	682811.617		1
PSEG-SB40	NJD981084668-11/21/2006-SB40_30	11/21/2006	30.5 - 31 ft	SO	N	611352.273	682811.617		1
PSEG-SB40	NJD981084668-11/22/2006-SB40_42	11/22/2006	42.5 - 43 ft	SO	N	611352.273	682811.617		1
PSEG-SB40	NJD981084668-11/22/2006-SB40_47	11/22/2006	47 - 47.5 ft	SO	N	611352.273	682811.617		1
PSEG-SB40	NJD981084668-11/22/2006-SB40_55	11/22/2006	55 - 55.5 ft	SO	N	611352.273	682811.617		1
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	11/22/2006	8.5 - 9 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	11/27/2006	21 - 21.5 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	11/27/2006	36.3 - 36.8 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	11/27/2006	42.9 - 43.4 ft	SO	N	611362.4	682708.4		1
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	11/27/2006	54.5 - 55 ft	SO	N	611362.4	682708.4		1
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	11/27/2006	10 - 10.5 ft	SO	N	611396.139	682742.049		1
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	11/27/2006	36.5 - 37 ft	SO	N	611396.139	682742.049		1
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	11/28/2006	42.5 - 43 ft	SO	N	611396.139	682742.049		1
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	11/28/2006	42.5 - 43 ft	SO	N	611396.139	682742.049		1
SB25	NJD981084668-4/13/2004-001	4/13/2004	25.5 - 26 ft	SO	N	611476.89	682936.23		1
SB25	NJD981084668-4/13/2004-002	4/13/2004	36 - 36.5 ft	SO	N	611476.89	682936.23		1
SB25	NJD981084668-4/14/2004-003	4/14/2004	44 - 44.5 ft	SO	N	611476.89	682936.23		1
SB25	NJD981084668-4/14/2004-004	4/14/2004	47 - 47.5 ft	SO	N	611476.89	682936.23		1
SB25	NJD981084668-4/14/2004-005	4/14/2004	49.5 - 50 ft	SO	N	611476.89	682936.23		1

Notes:

CCPW Metals: USEPA Target Analyte List Metals consisting of antimony, chrome, nickel, thallium, and vanadium

Table 3
Halsted Building - Basement Sump Analytical Results
Compared to NJDEP Groundwater Quality Standards

				Location		HALST-SUMP		HALST-SUMP		HALST-SUMP	
				Sample ID		HAL-B-SUMP		HAL-B-SUMP		HALST-SUMP	
				Lab Sample ID		JB60948-3		JB60948-3A		460-34455-1	
				Date Collected		03/03/2014		03/03/2014		12/07/2011	
				Sample Type		N		N		N	
Analyte	**CAS-RN**	**GWQS**	**Units**	**R**	**Q**	**R**	**Q**	**R**	**Q**
Hex Chrom									
CHROMIUM (HEXAVALENT)	18540-29-9		ug/l	2.9	J			< 2.7	U
Metals									
ALUMINUM	7429-90-5	200	ug/l					46.5	J
ANTIMONY	7440-36-0	6	ug/l					< 1.9	U
ARSENIC	7440-38-2	**3**	ug/l					**4.2**	
BARIUM	7440-39-3	6000	ug/l					43.5	
BERYLLIUM	7440-41-7	1	ug/l					< 0.80	U
CADMIUM	7440-43-9	4	ug/l					< 2.0	U
CALCIUM METAL	7440-70-2		ug/l					28000	
CHROMIUM	7440-47-3	70	ug/l			22.3		4.2	J
COBALT	7440-48-4	100	ug/l					< 3.9	U
COPPER	7440-50-8	1300	ug/l					7.2	
IRON	7439-89-6	300	ug/l					134	J
LEAD	7439-92-1	5	ug/l					2.5	
MAGNESIUM	7439-95-4		ug/l					2660	
MANGANESE	7439-96-5	50	ug/l					18.6	
MERCURY	7439-97-6	2	ug/l					< 0.16	U
NICKEL	7440-02-0	100	ug/l					< 4.1	U
POTASSIUM	7440-09-7		ug/l					6390	
SELENIUM	7782-49-2	40	ug/l					< 1.5	U
SILVER	7440-22-4	40	ug/l					< 4.1	U
SODIUM	7440-23-5	50000	ug/l					28000	
THALLIUM	7440-28-0	2	ug/l					< 0.79	U
VANADIUM	7440-62-2	60	ug/l					6.4	
ZINC	7440-66-6	2000	ug/l					< 19.7	U

Notes:

All results are reported in micrograms per liter (ug/l).

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

Sample Type = N indicates normal original sample; FD indicates duplicate sample.

Results = R indicates results; Q indicates qualifier

GWQS = Groundwater Quality Standard.

Bold values indicate that the result exceeds the GWQS.

J - Indicates that the analyte was detected at a concentration less than the Method Detection Limit and is estimated.

U - Indicates that the analyte was not detected at the reported Method Detection Limit.

A blank result value indicates the analysis was not requested.

Table 4
Halsted Building - Concrete Core Analytical Results
Compared to NJDEP Residential and Non-Residential Soil Remediation Standards

				Analyte	Hexavalent Chromium		Chromium	
				CAS-RN	18540-29-9		7440-47-3	
				CrSCC	20		120,000	
				Units	mg/kg		mg/kg	
Location	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q
H0	0 - 0.1 ft	H0-CT	02/19/2014	N	1.8			
H0	0 - 0.1 ft	H0-CT	02/19/2014	N			9.8	
H0	0.4 - 0.5 ft	H0-CB	02/19/2014	N			9.9	
H0	0.4 - 0.5 ft	H0-CB	02/19/2014	N	1.4			
H0A	0 - 0.1 ft	H0A-CT	02/18/2014	N	1.9			
H0A	0 - 0.1 ft	H0A-CT	02/18/2014	N			12.4	
H0A	0.4 - 0.5 ft	H0A-CB	02/18/2014	N	0.79			
H0A	0.4 - 0.5 ft	H0A-CB	02/18/2014	N			14.4	
H0B	0 - 0.1 ft	H0B-CT	02/19/2014	N	1.2			
H0B	0 - 0.1 ft	H0B-CT	02/19/2014	N			9.4	
H0B	0.4 - 0.5 ft	H0B-CB	02/19/2014	N	0.37	J		
H0B	0.4 - 0.5 ft	H0B-CB	02/19/2014	N			6.9	
H1A1	0 - 0.4 ft	H1A1-CC	09/20/2012	N	**90.8**	**J**		
H1A11	0 - 0.1 ft	H1A11-CT	02/21/2014	N			316	
H1A11	0 - 0.1 ft	H1A11-CT	02/21/2014	N	**191**			
H1A11	0.1 - 0.2 ft	H1A11-CB	02/21/2014	N	**30.8**			
H1A11	0.1 - 0.2 ft	H1A11-CB	02/21/2014	N			276	
H1A12	0 - 0.1 ft	H1A12-CT	02/21/2014	N			33.0	
H1A12	0 - 0.1 ft	H1A12-CT	02/21/2014	N	7.2			
H1A12	0.1 - 0.2 ft	H1A12-CB	02/21/2014	N			148	
H1A12	0.1 - 0.2 ft	H1A12-CB	02/21/2014	N	**28.9**			
H1A2	0 - 0.6 ft	H1A2-CC	09/20/2012	N	**421**	**J**		
H1A3	0 - 0.4 ft	H1A3-CC	09/20/2012	N	**843**	**J**		
H1A3V	0 - 0.08 ft	H1A3V-CT	02/21/2014	N	**134**			
H1A3V	0 - 0.08 ft	H1A3V-CT	02/21/2014	N			225	
H1A3V	0.08 - 0.12 ft	H1A3V-CM	02/21/2014	N	**170**			
H1A3V	0.08 - 0.12 ft	H1A3V-CM	02/21/2014	N			256	
H1A3V	0.12 - 0.2 ft	H1A3V-CB	02/21/2014	N	**51.8**			
H1A3V	0.12 - 0.2 ft	H1A3V-CB	02/21/2014	N			153	
H1A7	0 - 0.4 ft	H1A7-CC	09/20/2012	N	**180**	**J**		
H1A9	0 - 0.1 ft	H1A9-CT	02/21/2014	N	0.95			
H1A9	0 - 0.1 ft	H1A9-CT	02/21/2014	N			10.9	
H1A9	0.4 - 0.5 ft	H1A9-CB	02/21/2014	N	0.67			
H1A9	0.4 - 0.5 ft	H1A9-CB	02/21/2014	N			10.3	
H4A10	0 - 0.1 ft	H4A10-CT	03/07/2014	N			7.7	
H4A10	0 - 0.1 ft	H4A10-CT	03/07/2014	N	0.96	J		
H4A10	0.4 - 0.5 ft	H4A10-CB	03/07/2014	N	1.7			
H4A10	0.4 - 0.5 ft	H4A10-CB	03/07/2014	N			20.9	
H4A11	0 - 0.1 ft	H4A11S-CT	03/07/2014	N	0.54			
H4A11	0 - 0.1 ft	H4A11S-CT	03/07/2014	N			13.2	
H4A11	0.4 - 0.5 ft	H4A11S-CB	03/07/2014	N	6.1			
H4A11	0.4 - 0.5 ft	H4A11S-CB	03/07/2014	N			54.4	
H4A12	0 - 0.1 ft	H4A12-CT	03/07/2014	N			13.5	
H4A12	0 - 0.1 ft	H4A12-CT	03/07/2014	N	3.4			
H4A12	0.4 - 0.5 ft	H4A12-CB	03/07/2014	N			17.1	
H4A12	0.4 - 0.5 ft	H4A12-CB	03/07/2014	N	4.4			
H4A4V	0 - 0.1 ft	H4A4V-CT	03/07/2014	N	1.2			
H4A4V	0 - 0.1 ft	H4A4V-CT	03/07/2014	N			21.2	J
H4A4V	0.4 - 0.5 ft	H4A4V-CB	03/07/2014	N	**45.1**			
H4A4V	0.4 - 0.5 ft	H4A4V-CB	03/07/2014	N			160	J
H4A9	0 - 0.1 ft	H4A9-CT	03/07/2014	N	1.5			
H4A9	0 - 0.1 ft	H4A9-CT	03/07/2014	N			43.5	J
H4A9	0.4 - 0.5 ft	H4A9-CB	03/07/2014	N	0.98			
H4A9	0.4 - 0.5 ft	H4A9-CB	03/07/2014	N			66.3	J

Table 4
Halsted Building - Concrete Core Analytical Results
Compared to NJDEP Residential and Non-Residential Soil Remediation Standards

				Analyte	Hexavalent Chromium		Chromium	
				CAS-RN	18540-29-9		7440-47-3	
				CrSCC	20		120,000	
				Units	mg/kg		mg/kg	
Location	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q
H5	0 - 0.1 ft	H5-CT	02/26/2014	N	15.0			
H5	0 - 0.1 ft	H5-CT	02/26/2014	N			163	
H5	0.2 - 0.3 ft	H5-CB	02/26/2014	N	**20.4**			
H5	0.2 - 0.3 ft	H5-CB	02/26/2014	N			418	
H5A	0 - 0.1 ft	H5A-CT	02/26/2014	N	4.5			
H5A	0 - 0.1 ft	H5A-CT	02/26/2014	N			27.7	
H5A	0.4 - 0.5 ft	H5A-CB	02/26/2014	N			25.1	
H5A	0.4 - 0.5 ft	H5A-CB	02/26/2014	N	1.1			
H5B	0 - 0.1 ft	H5B-CT	02/26/2014	N	2.6			
H5B	0 - 0.1 ft	H5B-CT	02/26/2014	N			31.3	
H5B	0.4 - 0.5 ft	H5B-CB	02/26/2014	N			29.0	
H5B	0.4 - 0.5 ft	H5B-CB	02/26/2014	N	1.2			
H6	0 - 0.1 ft	H6-CT	03/01/2014	N			17.2	
H6	0 - 0.1 ft	H6-CT	03/01/2014	N	1.2			
H6	0.3 - 0.4 ft	H6-CB	03/01/2014	N			48.0	
H6	0.3 - 0.4 ft	H6-CB	03/01/2014	N	4.3			
H6A	0 - 0.1 ft	H6A-CT	03/01/2014	N	2.1			
H6A	0 - 0.1 ft	H6A-CT	03/01/2014	N			11.6	
H6A	0.3 - 0.4 ft	H6A-CB	03/01/2014	N	6.7			
H6A	0.3 - 0.4 ft	H6A-CB	03/01/2014	N			35.0	
H6B	0 - 0.1 ft	H6B-CT	03/01/2014	N			12.8	
H6B	0 - 0.1 ft	H6B-CT	03/01/2014	N	1.3			
H6B	0.3 - 0.4 ft	H6B-CB	03/01/2014	N			21.0	
H6B	0.3 - 0.4 ft	H6B-CB	03/01/2014	N	0.85			

Notes:

All results are reported in milligrams per kilogram (mg/kg).

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

Sample Type = N indicates normal original sample; FD indicates duplicate sample.

Results = R indicates results; Q indicates qualifier

CrSCC = Chromium Soil Cleanup Criteria

Bold values indicate that the result exceeds the CrSCC

J - Indicates that the analyte was detected at a concentration less than the Method Detection Limit and is estimated.

U - Indicates that the analyte was not detected at the reported Method Detection Limit.

A blank result value indicates the analysis was not requested.

Table 5
Halsted Building - Soil Boring and Test Pit Analytical Results
Compared to NJDEP Residential and Non-Residential Soil Remediation Standards

				Analyte	Hexavalent Chromium		Antimony		Chromium		Nickel		Thallium		Vanadium	
				CAS-RN	18540-29-9		7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
				RDCSRS			31		CrSCC = 120,000		1600		5		78	
				NRDCSRS	CrSCC = 20		450				23000		79		1100	
				Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Location	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
114-MW20A	0.5 - 1 ft	PPG-114-20AA(0.5-1.0)20060724	07/24/2006	N			< 2.2	UJ	276	J	28.2		< 1.1	U	71.6	
114-MW20A	4.5 - 5 ft	PPG-114-20AB(4.5-5.0)20060724	07/24/2006	N			8.7	J	19.8	J	18.7		< 1.5	U	27.8	
114-MW20B	8.5 - 9 ft	PPG-114-20BC(8.5-9.0)J43280-1	10/09/2006	N			< 2.6	UJ	60.5		12.6		< 1.3	U	13.6	
114-MW20B	8.5 - 9 ft	PPG-114-20BC(8.5-9.0)J43280-1R	10/09/2006	N	< 1.4	UJ										
114-MW20B	8.5 - 9 ft	PPG-114-20BCD(8.5-9.0)J43280-2	10/09/2006	FD			< 2.6	UJ	67.8		12.9		< 1.3	U	15.7	
114-MW20B	8.5 - 9 ft	PPG-114-20BCD(8.5-9.0)J43280-2R	10/09/2006	FD	< 1.3	UJ										
114-MW20B	11.5 - 12 ft	PPG-114-20BD(11.5-12.0)J43280-3	10/09/2006	N			< 2.3	UJ	103		11.9		< 1.2	U	12.7	
114-MW20B	11.5 - 12 ft	PPG-114-20BD(11.5-12.0)J43280-3R	10/09/2006	N	< 1.2	UJ										
114-MW20B	16 - 17 ft	PPG-114-20BE(16.0-17.0)J43280-4	10/09/2006	N			< 2.4	UJ	23.1		8.0		< 1.2	U	20.5	
114-MW20B	16 - 17 ft	PPG-114-20BE(16.0-17.0)J43280-4R	10/09/2006	N	< 1.2	UJ										
114-MW20B	28 - 29 ft	114-MW21BI(28-29)J43122-2R	10/06/2006	N	***167***		< 2.4	UJ	220		< 4.9	U	< 1.2	U	< 6.1	U
114-MW20B	28 - 29 ft	114-MW21BID(28-29)J43122-3R	10/06/2006	FD	***215***		< 2.5	UJ	234		< 5.0	U	< 1.2	U	< 6.2	U
135-B19	1.3 - 1.8 ft	135-B19A (1.3-1.8)J49116-8	12/13/2006	N	< 1.2	UJ	< 2.3	UJ	169		61.1		< 1.2	U	50.5	
135-B19	2.1 - 2.6 ft	135-B19B (3.3-3.8)J49116-9	12/13/2006	N	< 1.3	UJ	2.7	J	457		26.1		< 1.3	U	25.1	
135-B19	3.3 - 3.8 ft	135 B19C(3.3-3.8)J49116-17	12/13/2006	N	< 1.3	UJ	< 2.7	UJ	231		21.3		< 1.3	U	25.1	
135-B19	5.1 - 5.6 ft	PPG-135-B19D_5.1-5.6_796867	01/02/2007	N	< 3.48	UJ	< 1.6	UJ	27.2		14.5		< 1.5	U	28	
135-B19	9.4 - 9.9 ft	PPG-135-B19E_9.4-9.9_796868	01/02/2007	N	< 3.18	UJ	< 1.6	UJ	23.5		18		< 1.5	U	39.1	
135-B19	13.2 - 13.7 ft	PPG-135-B19F_13.2-13.7_796869	01/02/2007	N	< 3.38	UJ	< 1.7	UJ	21.9		15		< 1.6	U	32.2	
135-B19	17.2 - 18.2 ft	PPG-135-B19G_17.2-18.2_796870	01/02/2007	N	< 3.82	UJ	< 1.9	UJ	33.7		28.3		< 1.8	U	41.1	
135-B19	17.2 - 18.2 ft	PPG-135-B19GD_17.2-18.2_796871	01/02/2007	FD	< 3.85	UJ	< 1.9	UJ	20.6		17.7		< 1.8	U	29.7	
135-B19	20.2 - 20.7 ft	PPG-135-B19H_20.2-20.7_796872	01/02/2007	N	< 2.53	UJ	< 1.2	UJ	13		14.2		< 1.2	U	15	
EF-122	1 - 1.5 ft	EF-B122-1.0-1.5	09/10/2012	N			7.0				39.3					
EF-122	3 - 3.5 ft	EF-B122-3.0-3.5	09/10/2012	N			7.4				21.5					
EF-122	4.5 - 5 ft	EF-B122-4.5-5.0	09/10/2012	N			**37.9**				76.8					
EF-123	0.2 - 0.7 ft	EF-B123-0.2-0.7	09/07/2012	N			2.7									
EF-123	3 - 3.5 ft	EF-B123-3.0-3.5	09/07/2012	N			7.7									
EF-123	5 - 5.5 ft	EF-B123-5.0-5.5	09/07/2012	N			5.2									
EF-14	0.5 - 1 ft	EF-14-0.5	05/06/2011	N	1.8	J										
EF-14	2 - 2.5 ft	EF-14-2.0	05/06/2011	N	< 0.65	UJ										
EF-14	2 - 2.5 ft	EF-14-2.0X	05/06/2011	FD	< 0.66	UJ										
EF-14	2.5 - 3 ft	EF-14-2.5	05/06/2011	N			2.7	J	21.1		13.3		< 1.6	U	10.9	J
EF-14	4 - 4.5 ft	EF-14-4.0	05/06/2011	N	< 0.65	UJ										
EF-14	6 - 6.5 ft	EF-B14-6.0	05/09/2011	N	< 0.72	UJ	< 1.3	UJ	20.6		20.3		< 1.5	U	23.7	
EF-14	10 - 10.5 ft	EF-B14-10.0	05/09/2011	N	< 0.63	UJ										
EF-14	12 - 12.5 ft	EF-B14-12.0	05/09/2011	N			< 1.8	UJ	32.4		25.3		< 2.0	U	38.2	
EF-14	17.5 - 18 ft	EF-B14-17.5	05/09/2011	N	< 0.69	UJ	1.8	J	11.3		5.4	J	< 1.3	U	10.6	J
EF-14	22.5 - 23 ft	EF-B14-22.5	05/09/2011	N	< 0.61	UJ	< 1.1	UJ	11.8		8.0	J	< 1.2	U	16.2	
EF-49	0.5 - 1 ft	EF-B49-0.5	05/24/2011	N	13.6											
EF-49	11 - 11.5 ft	EF-B49-11.0	05/25/2011	N	< 0.84	UJ										
EF-49	12 - 12.5 ft	EF-B49-12.0	05/25/2011	N			< 1.0	U							32.8	
EF-99	0.5 - 1 ft	EF-B099-0.5-1.0	09/04/2012	N	19.6	J	1.1	J								
EF-99	0.5 - 1 ft	EF-B099-0.5-1.0X	09/04/2012	FD			1.2	J								
EF-99	2.5 - 3 ft	EF-B099-2.5-3.0	09/04/2012	N	7.2	J										
H0	0.5 - 1 ft	H0-0.5-1.0	02/19/2014	N			5.0	J	92.8	J	23.3		< 0.75	U	21.3	
H0	0.5 - 1 ft	H0-0.5-1.0	02/19/2014	N	3.0	RA										
H0	2.5 - 3 ft	H0-2.5-3.0	02/19/2014	N			3.0	J	25.1	J	22.8		< 2.1	U	33.8	
H0	2.5 - 3 ft	H0-2.5-3.0	02/19/2014	N	2.8	RA										
H0	4.5 - 5 ft	H0-4.5-5.0	02/19/2014	N			1.4	J	10.9	J	21.1		< 0.36	U	18.5	
H0	4.5 - 5 ft	H0-4.5-5.0	02/19/2014	N	0.62	RA										
H0	6.5 - 7 ft	H0-6.5-7.0	02/19/2014	N			0.57	J	16.1	J	13.9		< 0.34	U	23.3	
H0	6.5 - 7 ft	H0-6.5-7.0	02/19/2014	N	0.48	RA										
H0	8.5 - 9 ft	H0-8.5-9.0	02/19/2014	N	0.25	RA										
H0	8.5 - 9 ft	H0-8.5-9.0	02/19/2014	N			0.37	J	9.9	J	9.2		< 0.38	U	15.6	
H0	10.5 - 11 ft	H0-10.5-11.0	02/19/2014	N	0.15	RA										
H0	10.5 - 11 ft	H0-10.5-11.0	02/19/2014	N			2.4	J	14.3	J	15.4		< 3.9	U	22.7	
H0	12.5 - 13 ft	H0-12.5-13.0	02/19/2014	N	< 0.17	RA										
H0	12.5 - 13 ft	H0-12.5-13.0	02/19/2014	N			12.2	J	76.5	J	22.5	J	< 0.74	UJ	28.0	J
H0	14.5 - 15 ft	H0-14.5-15.0	02/19/2014	N			1.4	J	22.8	J	13.7		< 0.42	U	28.6	
H0	14.5 - 15 ft	H0-14.5-15.0	02/19/2014	N	1.8	RA										
H0	16.5 - 17 ft	H0-16.5-17.0	02/19/2014	N	3.5	RA										
H0	16.5 - 17 ft	H0-16.5-17.0	02/19/2014	N			< 0.51	UJ	23.0	J	12.3	J	< 0.64	UJ	32.9	J
H0A	0.5 - 1 ft	H0A-0.5-1.0	02/18/2014	N			0.98	J	59.7	J	21.5		0.43	J	25.2	
H0A	0.5 - 1 ft	H0A-0.5-1.0	02/18/2014	N	0.62	J										
H0A	2.5 - 3 ft	H0A-2.5-3.0	02/18/2014	N			3.4	J	49.2	J	25.5		**< 7.7**	**U**	23.5	
H0A	2.5 - 3 ft	H0A-2.5-3.0	02/18/2014	N	1.9	J										
H0A	2.5 - 3 ft	H0A-2.5-3.0X	02/18/2014	FD			1.8	J	30.8	J	24.4		< 1.9	U	24.7	
H0A	2.5 - 3 ft	H0A-2.5-3.0X	02/18/2014	FD	1.2	J										
H0A	4.5 - 5 ft	H0A-4.5-5.0	02/18/2014	N			4.2	J	22.7	J	16.3		< 0.41	U	33.3	
H0A	4.5 - 5 ft	H0A-4.5-5.0	02/18/2014	N	0.75	J										
H0A	6.5 - 7 ft	H0A-6.5-7.0	02/18/2014	N	0.20	J										
H0A	6.5 - 7 ft	H0A-6.5-7.0	02/18/2014	N			3.9	J	56.7	J	18.5		2.7	J	24.5	
H0A	8.5 - 9 ft	H0A-8.5-9.0	02/18/2014	N			1.7	J	9.0	J	29.0		< 0.41	U	15.3	
H0A	8.5 - 9 ft	H0A-8.5-9.0	02/18/2014	N	0.30	J										
H0A	10.5 - 11 ft	H0A-10.5-11.0	02/18/2014	N			0.57	J	13.4	J	15.4		< 0.40	U	26.3	
H0A	10.5 - 11 ft	H0A-10.5-11.0	02/18/2014	N	0.23	J										
H0A	12.5 - 13 ft	H0A-12.5-13.0	02/18/2014	N			4.2	J	121	J	14.0		< 2.1	U	13.1	
H0A	12.5 - 13 ft	H0A-12.5-13.0	02/18/2014	N	0.18	J										
H0A	14.5 - 15 ft	H0A-14.5-15.0	02/18/2014	N			0.36	J	15.9	J	12.8		< 1.1	U	25.5	
H0A	14.5 - 15 ft	H0A-14.5-15.0	02/18/2014	N	0.38	J										
H0A	16.5 - 17 ft	H0A-16.5-17.0	02/18/2014	N	4.5	J										
H0A	16.5 - 17 ft	H0A-16.5-17.0	02/18/2014	N			< 0.82	UJ	34.3	J	25.8	J	< 1.0	UJ	52.6	J
H0B	0.5 - 1 ft	H0B-0.5-1.0	02/19/2014	N	2.5	J										
H0B	0.5 - 1 ft	H0B-0.5-1.0	02/19/2014	N			6.8	J	81.8	J	45.0	J	< 0.91	UJ	55.6	J
H0B	2.5 - 3 ft	H0B-2.5-3.0	02/19/2014	N			3.3	J	16.1	J	17.2		< 0.35	U	13.2	
H0B	2.5 - 3 ft	H0B-2.5-3.0	02/19/2014	N	1.0	J										
H0B	2.5 - 3 ft	H0B-2.5-3.0X	02/19/2014	FD			3.5	J	20.3	J	21.5		< 0.35	U	19.5	
H0B	2.5 - 3 ft	H0B-2.5-3.0X	02/19/2014	FD	1.6	J										
H0B	4.5 - 5 ft	H0B-4.5-5.0	02/19/2014	N	0.51	J										
H0B	4.5 - 5 ft	H0B-4.5-5.0	02/19/2014	N			6.1	J	31.0	J	33.2		< 0.47	U	21.6	
H0B	6.5 - 7 ft	H0B-6.5-7.0	02/19/2014	N	1.7	J										
H0B	6.5 - 7 ft	H0B-6.5-7.0	02/19/2014	N			6.5	J	20.9	J	31.3		< 0.40	U	16.2	
H0B	8.5 - 9 ft	H0B-8.5-9.0	02/19/2014	N	0.57	J										
H0B	8.5 - 9 ft	H0B-8.5-9.0	02/19/2014	N			27.3	J	70.6	J	25.6		< 1.2	U	16.5	
H0B	10.5 - 11 ft	H0B-10.5-11.0	02/19/2014	N			30.7	J	114	J	18.7		< 0.85	U	19.5	
H0B	10.5 - 11 ft	H0B-10.5-11.0	02/19/2014	N	0.17	J										
H0B	12.5 - 13 ft	H0B-12.5-13.0	02/19/2014	N	0.77	J										
H0B	12.5 - 13 ft	H0B-12.5-13.0	02/19/2014	N			4.3	J	25.4	J	24.5		< 0.38	U	23.4	
H0B	14.5 - 15 ft	H0B-14.5-15.0	02/19/2014	N	0.28	J										
H0B	14.5 - 15 ft	H0B-14.5-15.0	02/19/2014	N			0.64	J	19.7	J	11.8		< 0.37	U	28.4	
H0B	16.5 - 17 ft	H0B-16.5-17.0	02/19/2014	N	5.5	J										
H0B	16.5 - 17 ft	H0B-16.5-17.0	02/19/2014	N			< 0.61	UJ	22.2	J	19.6	J	< 0.75	UJ	26.6	J
H1	0.3 - 0.8 ft	H1-0.3	12/10/2011	N	2.1	J	0.71	J	236		17.8		< 0.19	U	16.4	
H1	5 - 5.5 ft	H1-5.0	12/10/2011	N	< 0.92	U	3.3	J	23.2		35.0		< 0.21	U	22.6	
H1	10 - 10.5 ft	H1-10.0	12/10/2011	N	0.97	J	3.6	J	87.4		28.7		< 0.20	U	23.3	
H1	15 - 15.5 ft	H1-15.0	12/10/2011	N	1.0	J	2.5	J	55.3		30.2		< 0.19	U	21.1	
H1	16 - 16.5 ft	H1-16.0	12/10/2011	N	< 2.6	UJ	< 1.2	UJ	16.1	J	14.7	J	< 0.55	UJ	28.3	J
H1A	0.5 - 1 ft	H1A-0.5	12/10/2011	N	***27.4***			R	670	J	36.6		< 0.22	U	39.0	
H1A	0.5 - 1 ft	H1A-0.5X	12/10/2011	FD	***26.0***			R	1330	J	46.5		< 0.21	U	40.9	
H1A	2 - 2.5 ft	H1A-2.0	12/10/2011	N	< 0.98	U	0.83	J	16.3		14.3		0.29		26.9	
H1A	3 - 3.5 ft	H1A-5.0	12/10/2011	N	5.7		5.3	J	104		17.2		0.22	J	25.6	

Table 5
Halsted Building - Soil Boring and Test Pit Analytical Results
Compared to NJDEP Residential and Non-Residential Soil Remediation Standards

				Analyte	Hexavalent Chromium		Antimony		Chromium		Nickel		Thallium		Vanadium	
				CAS-RN	18540-29-9		7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
				RDCSRS			31		CrSCC = 120,000		1600		5		78	
				NRDCSRS	CrSCC = 20		450				23000		79		1100	
				Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Location	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
H1A	6 - 6.5 ft	H1A-6.0	12/10/2011	N	< 1.1	U	2.6	J	33.1		18.6		0.26		28.0	
H1A	10 - 10.5 ft	H1A-10.0	12/10/2011	N	< 1.1	U	**48.5**	**J**	77.0		18.4		0.25		23.8	
H1A	15 - 15.5 ft	H1A-15.0	12/10/2011	N	< 1.0	U	1.8	J	35.8		16.4		< 0.24	U	24.5	
H1A1	0.4 - 0.9 ft	H1A1-0.4-0.9	09/20/2012	N	***123***	***J***										
H1A11	0.2 - 0.7 ft	H1A11-0.2-0.7	02/21/2014	N	9.1	J										
H1A11	0.2 - 0.7 ft	H1A11-0.2-0.7	02/21/2014	N			**202**		1850		52.5		< 1.8	U	34.2	
H1A11	2 - 2.5 ft	H1A11-2.0-2.5	02/21/2014	N			20.3		41.9		46.3		2.1	J	37.8	
H1A11	2 - 2.5 ft	H1A11-2.0-2.5	02/21/2014	N	0.92	J										
H1A11	2 - 2.5 ft	H1A11-2.0-2.5X	02/21/2014	FD	1.0	J										
H1A11	2 - 2.5 ft	H1A11-2.0-2.5X	02/21/2014	FD			17.5		42.3		35.1		2.8	J	27.2	
H1A11	3.5 - 4 ft	H1A11-3.5-4.0	02/21/2014	N	0.25	J										
H1A11	3.5 - 4 ft	H1A11-3.5-4.0	02/21/2014	N			1.5	J	12.5		81.5		< 0.67	U	18.4	
H1A12	0.2 - 0.7 ft	H1A12-0.2-0.7	02/21/2014	N			1.4	J	29.4		23.6		< 0.38	U	29.8	
H1A12	0.2 - 0.7 ft	H1A12-0.2-0.7	02/21/2014	N	1.9	J										
H1A12	2.5 - 3 ft	H1A12-2.5-3.0	02/21/2014	N	8.8	J										
H1A12	2.5 - 3 ft	H1A12-2.5-3.0	02/21/2014	N			2.0	J	114		23.1		< 0.77	U	30.6	
H1A12	3.5 - 4 ft	H1A12-3.5-4.0	02/21/2014	N			0.74	J	16.6		23.7		< 0.39	UJ	31.3	
H1A12	3.5 - 4 ft	H1A12-3.5-4.0	02/21/2014	N	1.7	J										
H1A2	0.6 - 1.1 ft	H1A2-0.6-1.1	09/20/2012	N	***20.5***	***J***										
H1A2	0.6 - 1.1 ft	H1A2-0.6-1.1X	09/20/2012	FD	19.4	J										
H1A3	0.4 - 0.9 ft	H1A3-0.4-0.9	09/20/2012	N	***339***	***J***										
H1A3V	0.2 - 0.7 ft	H1A3V-0.2-0.7	02/21/2014	N			< 0.28	U	1100		48.6		< 0.34	U	33.7	
H1A3V	0.2 - 0.7 ft	H1A3V-0.2-0.7	02/21/2014	N	***58.7***	***J***										
H1A3V	2 - 2.5 ft	H1A3V-2.0-2.5	02/21/2014	N	1.7	J										
H1A3V	2 - 2.5 ft	H1A3V-2.0-2.5	02/21/2014	N			< 0.88	U	29.0		15.0		< 0.73	U	14.0	
H1A3V	3 - 3.5 ft	H1A3V-3.0-3.5	02/21/2014	N	1.8	J										
H1A3V	3 - 3.5 ft	H1A3V-3.0-3.5	02/21/2014	N			10.3		85.4		34.5		< 1.1	U	25.6	
H1A3V	5 - 5.5 ft	H1A3V-5.0-5.5	02/21/2014	N	0.51	J										
H1A3V	5 - 5.5 ft	H1A3V-5.0-5.5	02/21/2014	N			1.6	J	12.7		16.9		< 0.36	U	21.5	
H1A3V	6 - 6.5 ft	H1A3V-6.0-6.5	02/21/2014	N			**58.3**		18.3		17.9		< 0.39	U	21.5	
H1A3V	6 - 6.5 ft	H1A3V-6.0-6.5	02/21/2014	N	0.27	J										
H1A3V	8 - 8.5 ft	H1A3V-8.0-8.5	02/21/2014	N	0.94	J										
H1A3V	8 - 8.5 ft	H1A3V-8.0-8.5	02/21/2014	N			1.9	J	21.7		16.2		< 0.83	U	30.5	
H1A3V	10 - 10.5 ft	H1A3V-10.0-10.5	02/21/2014	N	0.50	J										
H1A3V	10 - 10.5 ft	H1A3V-10.0-10.5	02/21/2014	N			7.0		65.2		11.6		< 0.45	U	14.2	
H1A3V	12 - 12.5 ft	H1A3V-12.0-12.5	02/21/2014	N	0.27	J										
H1A3V	12 - 12.5 ft	H1A3V-12.0-12.5	02/21/2014	N			11.1		28.6		16.8		< 0.42	U	17.4	
H1A3V	14 - 14.5 ft	H1A3V-14.0-14.5	02/21/2014	N			0.49	J	17.3		13.5		< 0.29	U	20.7	
H1A3V	14 - 14.5 ft	H1A3V-14.0-14.5	02/21/2014	N	0.74	J										
H1A3V	16 - 16.5 ft	H1A3V-16.0-15.5	02/21/2014	N			< 0.54	UJ	28.3	J	18.4	J	< 0.67	UJ	34.0	J
H1A3V	16 - 16.5 ft	H1A3V-16.0-15.5	02/21/2014	N	3.7	J										
H1A4	0.4 - 0.9 ft	H1A4-0.4-0.9	09/20/2012	N	***146***	***J***										
H1A5	0.6 - 1.1 ft	H1A5-0.6-1.1	09/20/2012	N	***39.6***											
H1A6	0.3 - 0.8 ft	H1A6-0.3-0.8	09/20/2012	N	15.8											
H1A7	0.4 - 0.9 ft	H1A7-0.4-0.9	09/20/2012	N	***39.8***											
H1A8	0.4 - 0.9 ft	H1A8-0.4-0.9	09/20/2012	N	***30.3***											
H1A9	0.5 - 1 ft	H1A9-0.5-1.0	02/21/2014	N	0.39	J										
H1A9	0.5 - 1 ft	H1A9-0.5-1.0	02/21/2014	N			3.8	J	64.3		33.0		< 0.60	U	24.2	
H1A9	2.5 - 3 ft	H1A9-2.5-3.0	02/21/2014	N			3.9	J	86.6		33.8		< 1.4	U	26.4	
H1A9	2.5 - 3 ft	H1A9-2.5-3.0	02/21/2014	N	1.7	J										
H1A9	2.5 - 3 ft	H1A9-2.5-3.0X	02/21/2014	FD	1.7	J										
H1A9	2.5 - 3 ft	H1A9-2.5-3.0X	02/21/2014	FD			2.8	J	63.4		29.1		< 0.30	U	25.3	
H1A9	3.5 - 4 ft	H1A9-3.5-4.0	02/21/2014	N			0.92	J	17.8		20.1		0.98	J	29.1	
H1A9	3.5 - 4 ft	H1A9-3.5-4.0	02/21/2014	N	0.75	J										
H1B	0.2 - 0.7 ft	H1B-0.2	12/10/2011	N	3.8		9.1	J	491		30.0		< 0.21	U	23.1	
H1B	5 - 5.5 ft	H1B-5.0	12/10/2011	N	< 1.2	U	8.5	J	23.1		27.1		0.32		17.5	
H1B	10 - 10.5 ft	H1B-10.0	12/10/2011	N	3.9		8.9	J	581		39.3		< 1.1	U	28.9	
H1B	15 - 15.5 ft	H1B-15.0	12/10/2011	N	< 1.0	U	18.2	J	442		31.8		< 0.23	U	24.3	
H1B	20 - 20.5 ft	H1B-20.0	12/10/2011	N	< 0.87	U	< 0.43	UJ	15.1		11.1		< 0.20	U	15.9	
H1B	25 - 25.5 ft	H1B-25.0	12/10/2011	N	< 1.0	U	1.7	J	32.1		8.0		< 0.21	U	16.6	
H1B	30 - 30.5 ft	H1B-30.0	12/10/2011	N	< 0.87	U	< 0.39	UJ	8.1		6.6		< 0.19	U	11.3	
H2	0.6 - 1.1 ft	H2-0.6	12/10/2011	N	1.6	J	4.6	J	43.2	J	22.1		< 0.21	U	22.0	J
H2	0.6 - 1.1 ft	H2-0.6X	12/10/2011	FD	2.2	J	2.3	J	36.2	J	20.8		< 0.21	U	21.6	J
H2	2 - 2.5 ft	H2-2.0	12/10/2011	N	1.9	J	2.8	J	156	J	21.8		0.23		20.8	J
H2	5 - 5.5 ft	H2-5.0	12/10/2011	N	1.9	J	1.9	J	37.2	J	23.8		< 0.22	U	28.2	J
H2	10 - 10.5 ft	H2-10.0	12/10/2011	N	< 0.86	UJ	4.9	J	34.5	J	14.5	J	< 0.21	U	19.6	J
H2	15 - 15.5 ft	H2-15.0	12/10/2011	N	< 1.1	UJ	7.0	J	18.0	J	11.8		< 0.28	U	16.8	J
H2	16 - 16.5 ft	H2-16.0	12/10/2011	N	< 1.4	UJ	5.1	J	19.3	J	17.5	J	< 0.31	U	28.2	J
H2	18 - 18.5 ft	H2-18.0	12/10/2011	N	< 2.8	UJ	< 1.3	UJ	14.4	J	34.4	J	< 0.61	UJ	30.2	J
H2A	0.4 - 0.9 ft	H2A-0.4	12/10/2011	N	< 0.88	UJ	4.1	J	106	J	23.0	J	0.20	J	19.8	J
H2A	2 - 2.5 ft	H2A-2.0	12/10/2011	N	< 0.98	UJ	0.83	J	9.6	J	46.7	J	< 0.23	U	24.1	J
H2A	5 - 5.5 ft	H2A-5.0	12/10/2011	N	3.0	J	1.8	J	25.1	J	81.9	J	**9.9**		31.8	J
H2A	6 - 6.5 ft	H2A-6.0	12/10/2011	N	< 1.1	UJ	4.8	J	20.1	J	17.9	J	0.41		26.3	J
H2A	10 - 10.5 ft	H2A-10.0	12/10/2011	N	3.6	J	1.8	J	18.1	J	17.4	J	< 0.23	U	21.0	J
H2A	15 - 15.5 ft	H2A-15.0	12/10/2011	N	< 1.5	UJ	< 0.70	UJ	16.0	J	11.3	J	< 0.33	U	21.9	J
H2B	5 - 5.5 ft	H2B-5.0	12/10/2011	N	2.7	J	7.7	J	828	J	23.1		< 0.23	U	19.9	J
H2B	10 - 10.5 ft	H2B-10.0	12/10/2011	N	< 0.99	UJ	14.1	J	714	J	30.9		< 0.24	U	43.9	J
H2B	15 - 15.5 ft	H2B-15.0	12/10/2011	N	< 1.1	UJ	29.4	J	366	J	27.6		0.33		19.8	J
H2B	20 - 20.5 ft	H2B-20.0	12/10/2011	N	< 1.7	UJ	< 0.86	UJ	33.5	J	18.5		< 0.41	U	30.3	J
H2B	25 - 25.5 ft	H2B-25.0	12/10/2011	N	< 0.97	UJ	< 0.47	UJ	11.1	J	5.9		< 0.22	U	16.1	J
H3	0.5 - 1 ft	H3-0.5	12/11/2011	N	14.3	J	1.9	J	1380		56.7	J	0.23		42.2	
H3	5 - 5.5 ft	H3-5.0	12/11/2011	N	3.4	J	29.1	J	391		237	J	< 0.25	U	31.8	
H3	6 - 6.5 ft	H3-6.0	12/11/2011	N	< 1.1	UJ	2.9	J	32.0		22.8	J	0.34		24.2	
H3	10 - 10.5 ft	H3-10.0	12/11/2011	N	< 1.0	UJ	**36.9**	**J**	94.8		76.3	J	< 0.23	U	24.0	
H3A	0.5 - 1 ft	H3A-0.5	12/11/2011	N	< 1.0	UJ	8.6	J	280		37.4	J	0.23	J	31.7	
H3A	5 - 5.5 ft	H3A-5.0	12/11/2011	N	17.8	J	13.2	J	5410		33.0	J	< 4.3	U	27.7	
H3A	7 - 7.5 ft	H3A-7.0	12/11/2011	N	6.2	J	6.6	J	33.5		30.3	J	0.25	J	17.6	
H3A	10 - 10.5 ft	H3A-10.0	12/11/2011	N	4.0	J	10.3	J	576		25.2	J	< 0.51	U	22.4	
H3A	15 - 15.5 ft	H3A-15.0	12/11/2011	N	< 1.7	UJ	< 0.85	UJ	17.4		8.6	J	< 0.40	U	23.6	
H3B	1.5 - 2 ft	H3B-1.5	12/11/2011	N	< 0.92	UJ	**127**	**J**	69.8		33.9	J	0.21	J	21.5	
H3B	5 - 5.5 ft	H3B-5.0	12/11/2011	N	1.5	J	8.8	J	52.5		48.7	J	< 0.20	U	19.6	
H3B	10 - 10.5 ft	H3B-10.0	12/11/2011	N	< 0.97	UJ	7.2	J	81.1		48.0	J	0.24	J	20.4	
H3B	15 - 15.5 ft	H3B-15.0	12/11/2011	N	1.2	J	2.8	J	45.2		20.1	J	< 0.26	U	22.7	
H3B	17 - 17.5 ft	H3B-17.0	12/11/2011	N		R	< 0.084	UJ	0.79		0.76	J	< 0.040	U	1.8	
H3B	20 - 20.5 ft	H3B-20.0	12/11/2011	N	< 0.88	UJ	< 0.41	UJ	19.0		12.7	J	< 0.20	U	21.5	
H3B	25 - 25.5 ft	H3B-25.0	12/11/2011	N	< 0.86	UJ	< 0.42	UJ	12.3		7.9	J	< 0.20	U	17.8	
H3B	25 - 25.5 ft	H3B-25.0X	12/11/2011	FD	< 0.89	UJ	< 0.42	UJ	13.3		8.1	J	< 0.20	U	19.5	
H3B	30 - 30.5 ft	H3B-30.0	12/11/2011	N	< 0.89	UJ	< 0.45	UJ	14.4		7.4	J	< 0.21	U	13.6	
H4	0.5 - 1 ft	H4-0.5	12/11/2011	N	3.3		7.6	J	325		38.7	J	0.26		47.2	
H4	5 - 5.5 ft	H4-5.0	12/11/2011	N	2.7		2.3	J	258		18.0	J	< 0.18	U	21.9	
H4	7 - 7.5 ft	H4-7.0	12/11/2011	N	< 0.87	U	3.9	J	12.2		12.9	J	< 0.21	U	19.9	
H4	10 - 10.5 ft	H4-10.0	12/11/2011	N	< 0.90	U	1.6	J	31.9		13.6	J	< 0.19	U	22.8	
H4	15 - 15.5 ft	H4-15.0	12/11/2011	N	< 0.86	U	2.1	J	26.4		19.3	J	< 0.20	U	16.6	
H4A	0.5 - 1 ft	H4A-0.5	12/11/2011	N	***170***		16.6	J	1490		80.3	J	< 0.22	U	58.2	
H4A	2 - 2.5 ft	H4A-2.0	12/11/2011	N	< 0.92	U	3.3	J	16.2		19.7	J	< 0.22	U	19.4	
H4A	5 - 5.5 ft	H4A-5.0	12/11/2011	N	5.5		4.3	J	229		37.4	J	0.22	J	42.5	
H4A	7 - 7.5 ft	H4A-7.0	12/11/2011	N	< 0.92	U	19.1	J	23.4		50.2	J	< 0.21	U	23.7	
H4A	10 - 10.5 ft	H4A-10.0	12/11/2011	N	< 0.89	U	2.9	J	170		68.6	J	< 0.21	U	25.1	
H4A1	0.5 - 1 ft	H4A1-0.5-1.0	09/21/2012	N	***707***	***J***										
H4A10	0.5 - 1 ft	H4A10-0.5-1.0	03/07/2014	N			5.0	J	26.7		25.2		0.81	J	28.2	

Table 5
Halsted Building - Soil Boring and Test Pit Analytical Results
Compared to NJDEP Residential and Non-Residential Soil Remediation Standards

				Analyte	Hexavalent Chromium		Antimony		Chromium		Nickel		Thallium		Vanadium	
				CAS-RN	18540-29-9		7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
				RDCSRS			31		CrSCC = 120,000		1600		5		78	
				NRDCSRS	CrSCC = 20		450				23000		79		1100	
				Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Location	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
H4A10	0.5 - 1 ft	H4A10-0.5-1.0	03/07/2014	N	1.1	J										
H4A10	2.5 - 3 ft	H4A10-2.5-3.0	03/07/2014	N	8.7	J										
H4A10	2.5 - 3 ft	H4A10-2.5-3.0	03/07/2014	N			1.6	J	222		27.6		< 1.5	U	47.0	
H4A11	0.5 - 1 ft	H4A11S-0.5-1.0	03/07/2014	N	1.8	J										
H4A11	0.5 - 1 ft	H4A11S-0.5-1.0	03/07/2014	N			1.3	J	21.3		22.1		0.68	J	26.0	
H4A11	2.5 - 3 ft	H4A11S-2.5-3.0	03/07/2014	N			2.6	J	342		41.8		< 1.4	U	32.2	
H4A11	2.5 - 3 ft	H4A11S-2.5-3.0	03/07/2014	N	5.9	J										
H4A12	0.5 - 1 ft	H4A12-0.5-1.0	03/07/2014	N			0.41	J	18.7		21.0		< 0.61	U	24.2	
H4A12	0.5 - 1 ft	H4A12-0.5-1.0	03/07/2014	N	1.4	J										
H4A12	0.5 - 1 ft	H4A12-0.5-1.0X	03/07/2014	FD			0.51	J	18.5		19.8		< 0.58	U	28.9	
H4A12	0.5 - 1 ft	H4A12-0.5-1.0X	03/07/2014	FD	1.8	J										
H4A12	2.5 - 3 ft	H4A12-2.5-3.0	03/07/2014	N			0.93	J	332		46.1		< 0.59	U	31.3	
H4A12	2.5 - 3 ft	H4A12-2.5-3.0	03/07/2014	N	6.1	J										
H4A2	0.4 - 0.9 ft	H4A2-0.4-0.9	09/21/2012	N	***103***	***J***										
H4A2	0.4 - 0.9 ft	H4A2-0.4-0.9X	09/21/2012	FD	***102***	***J***										
H4A3	0.4 - 0.9 ft	H4A3-0.4-0.9	09/21/2012	N	7.0	J										
H4A4	0.6 - 1.1 ft	H4A4-0.6-1.1	09/21/2012	N	***1370***	***J***										
H4A4V	0.5 - 1 ft	H4A4V-0.5-1.0	03/07/2014	N			3.5	J	20.4		42.7		< 0.60	U	33.4	
H4A4V	0.5 - 1 ft	H4A4V-0.5-1.0	03/07/2014	N	0.87	J										
H4A4V	2 - 2.5 ft	H4A4V-2.0-2.5	03/07/2014	N	1.7	J										
H4A4V	2 - 2.5 ft	H4A4V-2.0-2.5	03/07/2014	N			19.1	J	107		203		< 2.9	U	26.1	
H4A4V	3 - 3.5 ft	H4A4V-3.0-3.5	03/07/2014	N	19.1	J										
H4A4V	3 - 3.5 ft	H4A4V-3.0-3.5	03/07/2014	N			0.91	J	579		33.1		0.71	J	29.9	
H4A4V	5 - 5.5 ft	H4A4V-5.0-5.5	03/07/2014	N	0.23	J										
H4A4V	5 - 5.5 ft	H4A4V-5.0-5.5	03/07/2014	N			9.0	J	19.8		35.2		0.40	J	23.0	
H4A4V	7 - 7.5 ft	H4A4V-7.0-7.5	03/07/2014	N	0.46	J										
H4A4V	7 - 7.5 ft	H4A4V-7.0-7.5	03/07/2014	N			3.8	J	121		26.7		< 0.58	U	33.1	
H4A4V	8 - 8.5 ft	H4A4V-8.0-8.5	03/07/2014	N	0.74	J										
H4A4V	8 - 8.5 ft	H4A4V-8.0-8.5	03/07/2014	N			2.9	J	191		27.6		< 0.29	U	33.1	
H4A4V	10 - 10.5 ft	H4A4V-10.0-10.5	03/07/2014	N	0.25	J										
H4A4V	10 - 10.5 ft	H4A4V-10.0-10.5	03/07/2014	N			**78.9**	**J**	40.7	J	39.5		< 0.59	U	21.4	J
H4A4V	12 - 12.5 ft	H4A4V-12.0-12.5	03/07/2014	N			1.6	J	140	J	19.7		< 0.28	U	21.2	J
H4A4V	12 - 12.5 ft	H4A4V-12.0-12.5	03/07/2014	N	0.37	J										
H4A4V	14 - 14.5 ft	H4A4V-14.0-14.5	03/07/2014	N	0.47	J										
H4A4V	14 - 14.5 ft	H4A4V-14.0-14.5	03/07/2014	N			2.2	J	52.6	J	19.1		< 0.30	U	26.8	J
H4A4V	16 - 16.5 ft	H4A4V-16.0-16.5	03/07/2014	N	0.19	J										
H4A4V	16 - 16.5 ft	H4A4V-16.0-16.5	03/07/2014	N			< 0.24	UJ	15.2	J	13.3		< 0.30	U	24.4	J
H4A5	0.6 - 1.1 ft	H4A5-0.6-1.1	09/21/2012	N	***107***											
H4A6	0.4 - 0.9 ft	H4A6-0.4-0.9	09/21/2012	N	***33.6***											
H4A7	0.4 - 0.9 ft	H4A7-0.4-0.9	09/21/2012	N	***156***											
H4A8	0.4 - 0.9 ft	H4A8-0.4-0.9	09/21/2012	N	***573***											
H4A9	0.5 - 1 ft	H4A9-0.5-1.0	03/07/2014	N			0.64	J	37.3	J	25.3		< 0.60	U	15.5	J
H4A9	0.5 - 1 ft	H4A9-0.5-1.0	03/07/2014	N	0.84	J										
H4A9	2.5 - 3 ft	H4A9-2.5-3.0	03/07/2014	N	0.74	J										
H4A9	2.5 - 3 ft	H4A9-2.5-3.0	03/07/2014	N			1.2	J	21.3	J	24.4		< 0.29	U	22.2	J
H4B	0.5 - 1 ft	H4B-0.5	12/11/2011	N	1.3	J	11.5	J	312		25.2	J	0.23		26.0	
H4B	5 - 5.5 ft	H4B-5.0	12/11/2011	N	< 0.88	UJ	1.9	J	164		29.9	J	< 0.52	U	24.2	
H4B	7 - 7.5 ft	H4B-7.0	12/11/2011	N	< 0.89	UJ	0.82	J	14.6		22.5	J	< 0.19	U	24.6	
H4B	10 - 10.5 ft	H4B-10.0	12/11/2011	N	< 0.93	UJ	1.9	J	110		14.3	J	< 0.21	U	17.9	
H4B	15 - 15.5 ft	H4B-15.0	12/11/2011	N	2.0	J	2.2	J	96.1		16.4	J	< 0.31	U	23.4	
H5	0.3 - 0.8 ft	H5-0.3-0.8	02/26/2014	N	3.3	J										
H5	0.3 - 0.8 ft	H5-0.3-0.8	02/26/2014	N			5.6	J	79.8	J	24.5		< 0.39	U	30.1	J
H5	2 - 2.5 ft	H5-2.0-2.5	02/26/2014	N	1.8	J										
H5	2 - 2.5 ft	H5-2.0-2.5	02/26/2014	N			< 0.60	UJ	37.2	J	24.8		< 0.75	U	38.8	J
H5	4 - 4.5 ft	H5-4.0-4.5	02/26/2014	N			22.4	J	503	J	43.3		< 0.83	U	34.6	J
H5	4 - 4.5 ft	H5-4.0-4.5	02/26/2014	N	***37.0***	***J***										
H5	6 - 6.5 ft	H5-6.0-6.5	02/26/2014	N	< 0.11	UJ										
H5	6 - 6.5 ft	H5-6.0-6.5	02/26/2014	N			**37.9**	**J**	76.8	J	24.5		< 0.94	U	27.5	J
H5	8 - 8.5 ft	H5-8.0-8.5	02/26/2014	N	0.49	J										
H5	8 - 8.5 ft	H5-8.0-8.5	02/26/2014	N			< 1.5	UJ	128	J	91.1		< 1.8	U	69.4	J
H5	10 - 10.5 ft	H5-10.0-10.5	02/26/2014	N	0.52	J										
H5	10 - 10.5 ft	H5-10.0-10.5	02/26/2014	N			25.4	J	409	J	26.4		< 0.91	U	28.7	J
H5	12 - 12.5 ft	H5-12.0-12.5	02/26/2014	N	< 0.093	UJ										
H5	12 - 12.5 ft	H5-12.0-12.5	02/26/2014	N			3.7	J	3430	J	45.2		< 0.39	U	21.1	J
H5	14 - 14.5 ft	H5-14.0-14.5	02/26/2014	N	***33.9***	***J***										
H5	14 - 14.5 ft	H5-14.0-14.5	02/26/2014	N			3.8	J	3890	J	36.5		< 0.40	U	12.3	J
H5	16 - 16.5 ft	H5-16.0-16.5	02/26/2014	N			3.5	J	4510	J	14.8		< 0.36	U	22.2	J
H5	16 - 16.5 ft	H5-16.0-16.5	02/26/2014	N	0.33	J										
H5	18 - 18.5 ft	H5-18.0-18.5	02/26/2014	N	1.3	J										
H5	18 - 18.5 ft	H5-18.0-18.5	02/26/2014	N			< 0.28	UJ	246	J	12.7		< 0.34	U	29.8	J
H5	20 - 20.5 ft	H5-20.0-20.5	02/26/2014	N	1.7	J										
H5	20 - 20.5 ft	H5-20.0-20.5	02/26/2014	N			< 0.48	UJ	39.8	J	25.4		< 0.59	U	44.0	J
H5A	0.5 - 1 ft	H5A-0.5-1.0	02/26/2014	N	6.6	J										
H5A	0.5 - 1 ft	H5A-0.5-1.0	02/26/2014	N			< 0.25	UJ	122	J	13.6		< 0.31	U	30.0	J
H5A	0.5 - 1 ft	H5A-0.5-1.0X	02/26/2014	FD	13.0	J										
H5A	0.5 - 1 ft	H5A-0.5-1.0X	02/26/2014	FD			< 0.24	UJ	126	J	14.0		0.36	J	43.1	J
H5A	2 - 2.5 ft	H5A-2.0-2.5	02/26/2014	N	***67.2***	***J***										
H5A	2 - 2.5 ft	H5A-2.0-2.5	02/26/2014	N			0.60	J	1530	J	50.0		< 0.35	U	36.2	J
H5A	4 - 4.5 ft	H5A-4.0-4.5	02/26/2014	N			5.9	J	315	J	23.3		< 0.36	U	25.5	J
H5A	4 - 4.5 ft	H5A-4.0-4.5	02/26/2014	N	1.2	J										
H5A	6 - 6.5 ft	H5A-6.0-6.5	02/26/2014	N	0.95	J										
H5A	6 - 6.5 ft	H5A-6.0-6.5	02/26/2014	N			13.0	J	191	J	30.6		< 0.43	U	30.2	J
H5A	8 - 8.5 ft	H5A-8.0-8.5	02/26/2014	N	0.74	J										
H5A	8 - 8.5 ft	H5A-8.0-8.5	02/26/2014	N			< 1.0	UJ	86.5	J	27.7		< 1.2	U	36.2	J
H5A	10 - 10.5 ft	H5A-10.0-10.5	02/26/2014	N	1.1	J										
H5A	10 - 10.5 ft	H5A-10.0-10.5	02/26/2014	N			5.9	J	28.9	J	19.8		< 0.39	U	17.8	J
H5A	12 - 12.5 ft	H5A-12.0-12.5	02/26/2014	N	0.14	J										
H5A	12 - 12.5 ft	H5A-12.0-12.5	02/26/2014	N			4.4	J	35.2	J	17.8		< 0.30	U	25.0	J
H5A	14 - 14.5 ft	H5A-14.0-14.5	02/26/2014	N	0.14	J										
H5A	14 - 14.5 ft	H5A-14.0-14.5	02/26/2014	N			0.62	J	11.7	J	9.3		< 0.28	UJ	16.6	J
H5A	16 - 16.5 ft	H5A-16.0-16.5	02/26/2014	N			18.9	J	6190	J	21.2		< 0.61	UJ	42.3	J
H5A	16 - 16.5 ft	H5A-16.0-16.5	02/26/2014	N	0.50	J										
H5A	18 - 18.5 ft	H5A-18.0-18.5	02/26/2014	N	0.34	J										
H5A	18 - 18.5 ft	H5A-18.0-18.5	02/26/2014	N			< 0.28	UJ	28.9	J	8.3		< 0.34	U	24.1	J
H5A	20 - 20.5 ft	H5A-20.0-20.5	02/26/2014	N	1.2	J										
H5A	20 - 20.5 ft	H5A-20.0-20.5	02/26/2014	N			0.35	J	26.5	J	17.8	J	< 0.30	UJ	33.0	J
H5B	0.5 - 1 ft	H5B-0.5-1.0	02/26/2014	N			2.4	J	274		22.4		< 0.32	UJ	29.5	J
H5B	0.5 - 1 ft	H5B-0.5-1.0	02/26/2014	N	17.8	J										
H5B	2 - 2.5 ft	H5B-2.0-2.5	02/26/2014	N	12.6	J										
H5B	2 - 2.5 ft	H5B-2.0-2.5	02/26/2014	N			3.9	J	193		15.7		< 0.33	U	15.0	J
H5B	4 - 4.5 ft	H5B-4.0-4.5	02/26/2014	N	2.3	J										
H5B	4 - 4.5 ft	H5B-4.0-4.5	02/26/2014	N			5.3	J	212		40.3		< 0.56	U	25.1	J
H5B	6 - 6.5 ft	H5B-6.0-6.5	02/26/2014	N			1.5	J	40.2		17.9		< 0.60	UJ	19.0	J
H5B	6 - 6.5 ft	H5B-6.0-6.5	02/26/2014	N	1.5	J										
H5B	8 - 8.5 ft	H5B-8.0-8.5	02/26/2014	N			1.6	J	18.7		13.3		< 0.28	U	14.6	J
H5B	8 - 8.5 ft	H5B-8.0-8.5	02/26/2014	N	0.64	J										
H5B	10 - 10.5 ft	H5B-10.0-10.5	02/26/2014	N			2.0	J	27.0		35.4		< 0.30	U	26.2	J
H5B	10 - 10.5 ft	H5B-10.0-10.5	02/26/2014	N	0.22	J										
H5B	12 - 12.5 ft	H5B-12.0-12.5	02/26/2014	N	0.44	J										
H5B	12 - 12.5 ft	H5B-12.0-12.5	02/26/2014	N			1.3	J	25.5		17.3		< 0.29	UJ	20.8	J

Table 5
Halsted Building - Soil Boring and Test Pit Analytical Results
Compared to NJDEP Residential and Non-Residential Soil Remediation Standards

				Analyte	Hexavalent Chromium		Antimony		Chromium		Nickel		Thallium		Vanadium	
				CAS-RN	18540-29-9		7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
				RDCSRS			31		CrSCC = 120,000		1600		5		78	
				NRDCSRS	CrSCC = 20		450				23000		79		1100	
				Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Location	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
H5B	14 - 14.5 ft	H5B-14.0-14.5	02/26/2014	N			0.43	J	9.3		12.8		< 0.30	U	20.8	J
H5B	14 - 14.5 ft	H5B-14.0-14.5	02/26/2014	N	0.45	J										
H5B	16 - 16.5 ft	H5B-16.0-16.5	02/26/2014	N	0.39	J										
H5B	16 - 16.5 ft	H5B-16.0-16.5	02/26/2014	N			2.6	J	82.3		14.5		< 0.29	UJ	31.7	J
H5B	18 - 18.5 ft	H5B-18.0-18.5	02/26/2014	N	0.14	J										
H5B	18 - 18.5 ft	H5B-18.0-18.5	02/26/2014	N			< 0.25	UJ	16.5		12.5		< 0.30	U	26.5	J
H5B	20 - 20.5 ft	H5B-20.0-20.5	02/26/2014	N			0.48	J	29.5	J	26.7	J	< 0.29	UJ	39.4	J
H5B	20 - 20.5 ft	H5B-20.0-20.5	02/26/2014	N	0.24	J										
H6	0.4 - 0.9 ft	H6-0.4-0.9	03/01/2014	N			10.5	J	229	J	25.6		< 0.51	U	27.4	
H6	0.4 - 0.9 ft	H6-0.4-0.9	03/01/2014	N	17.6	J										
H6	2 - 2.5 ft	H6-2.0-2.5	03/01/2014	N			1.6	J	38.8	J	13.9		< 0.34	U	21.6	
H6	2 - 2.5 ft	H6-2.0-2.5	03/01/2014	N	2.5	J										
H6	4 - 4.5 ft	H6-4.0-4.5	03/01/2014	N			0.54	J	17.3	J	10.5		< 0.32	U	24.6	
H6	4 - 4.5 ft	H6-4.0-4.5	03/01/2014	N	1.5	J										
H6	4 - 4.5 ft	H6-4.0-4.5X	03/01/2014	FD			0.30	J	14.0	J	7.7		< 0.33	U	18.0	
H6	4 - 4.5 ft	H6-4.0-4.5X	03/01/2014	FD	1.2	J										
H6	6 - 6.5 ft	H6-6.0-6.5	03/01/2014	N			< 0.25	UJ	15.2	J	9.1		< 0.31	U	25.8	
H6	6 - 6.5 ft	H6-6.0-6.5	03/01/2014	N	0.76	J										
H6	8 - 8.5 ft	H6-8.0-8.5	03/01/2014	N			< 0.26	UJ	14.5	J	9.2		< 0.33	U	22.2	
H6	8 - 8.5 ft	H6-8.0-8.5	03/01/2014	N	0.77	J										
H6	10 - 10.5 ft	H6-10.0-10.5	03/01/2014	N	0.37	J										
H6	10 - 10.5 ft	H6-10.0-10.5	03/01/2014	N			0.55	J	20.1	J	14.4		< 0.36	U	26.8	
H6A	0.4 - 0.9 ft	H6A-0.4-0.9	03/01/2014	N			3.2	J	254	J	21.3	J	< 0.39	U	32.0	
H6A	0.4 - 0.9 ft	H6A-0.4-0.9	03/01/2014	N	***49.4***	***J***										
H6A	2 - 2.5 ft	H6A-2.0-2.5	03/01/2014	N	1.8	J										
H6A	2 - 2.5 ft	H6A-2.0-2.5	03/01/2014	N			**64.8**	**J**	29.2	J	28.7	J	**5.9**	**J**	32.8	
H6A	4 - 4.5 ft	H6A-4.0-4.5	03/01/2014	N			2.3	J	590	J	23.4	J	< 3.1	U	**118**	
H6A	4 - 4.5 ft	H6A-4.0-4.5	03/01/2014	N	***26.8***	***J***										
H6A	6 - 6.5 ft	H6A-6.0-6.5	03/01/2014	N			< 0.26	UJ	336	J	6.4	J	0.59	J	13.4	
H6A	6 - 6.5 ft	H6A-6.0-6.5	03/01/2014	N	10.6	J										
H6A	8 - 8.5 ft	H6A-8.0-8.5	03/01/2014	N			0.68	J	38.5	J	13.0	J	1.1	J	30.7	
H6A	8 - 8.5 ft	H6A-8.0-8.5	03/01/2014	N	1.4	J										
H6A	10 - 10.5 ft	H6A-10.0-10.5	03/01/2014	N			0.72	J	22.2	J	17.6	J	1.3	J	30.5	
H6A	10 - 10.5 ft	H6A-10.0-10.5	03/01/2014	N	0.29	J										
H6A	12 - 12.5 ft	H6A-12.0-12.5	03/01/2014	N	0.15	J										
H6A	12 - 12.5 ft	H6A-12.0-12.5	03/01/2014	N			0.74	J	17.6	J	13.5	J	1.2	J	22.0	
H6A	14 - 14.5 ft	H6A-14.0-14.5	03/01/2014	N			1.2	J	14.7	J	24.7	J	0.66	J	23.1	
H6A	14 - 14.5 ft	H6A-14.0-14.5	03/01/2014	N	0.25	J										
H6A	16 - 16.5 ft	H6A-16.0-16.5	03/01/2014	N			0.76	J	18.7	J	11.6	J	0.69	J	17.6	
H6A	16 - 16.5 ft	H6A-16.0-16.5	03/01/2014	N	0.15	J										
H6A	18 - 18.5 ft	H6A-18.0-18.5	03/01/2014	N			< 0.61	UJ	24.6	J	14.1	J	< 0.76	UJ	33.9	J
H6A	18 - 18.5 ft	H6A-18.0-18.5	03/01/2014	N	1.4	J										
H6B	0.4 - 0.9 ft	H6B-0.4-0.9	03/01/2014	N			9.7	J	75.9	J	35.2	J	**5.2**	**J**	33.4	J
H6B	0.4 - 0.9 ft	H6B-0.4-0.9	03/01/2014	N	3.8	J										
H6B	2 - 2.5 ft	H6B-2.0-2.5	03/01/2014	N	2.2	J										
H6B	2 - 2.5 ft	H6B-2.0-2.5	03/01/2014	N			14.0	J	45.1	J	64.2	J	2.1	J	29.2	
H6B	2 - 2.5 ft	H6B-2.0-2.5X	03/01/2014	FD	5.3	J										
H6B	2 - 2.5 ft	H6B-2.0-2.5X	03/01/2014	FD			5.4	J	51.7	J	103	J	2.9	J	35.5	
H6B	4 - 4.5 ft	H6B-4.0-4.5	03/01/2014	N			11.6	J	39.0	J	54.5	J	1.4	J	23.7	
H6B	4 - 4.5 ft	H6B-4.0-4.5	03/01/2014	N	1.8	J										
H6B	6 - 6.5 ft	H6B-6.0-6.5	03/01/2014	N			< 0.26	UJ	12.6	J	8.6	J	0.74	J	18.7	
H6B	6 - 6.5 ft	H6B-6.0-6.5	03/01/2014	N	0.63	J										
H6B	8 - 8.5 ft	H6B-8.0-8.5	03/01/2014	N			< 0.29	UJ	31.0	J	17.5	J	0.45	J	29.8	
H6B	8 - 8.5 ft	H6B-8.0-8.5	03/01/2014	N	2.4	J										
H6B	10 - 10.5 ft	H6B-10.0-10.5	03/01/2014	N			< 0.29	UJ	17.4	J	10.7	J	0.71	J	26.1	
H6B	10 - 10.5 ft	H6B-10.0-10.5	03/01/2014	N	0.71	J										
H6B	12 - 12.5 ft	H6B-12.0-12.5	03/01/2014	N			1.9	J	25.0	J	16.9	J	< 0.44	U	19.6	
H6B	12 - 12.5 ft	H6B-12.0-12.5	03/01/2014	N	0.15	J										
H6B	14 - 14.5 ft	H6B-14.0-14.5	03/01/2014	N			1.6	J	19.6	J	16.9	J	< 0.30	U	17.7	
H6B	14 - 14.5 ft	H6B-14.0-14.5	03/01/2014	N	0.15	J										
H6B	16 - 16.5 ft	H6B-16.0-16.5	03/01/2014	N			0.84	J	21.5	J	25.7	J	< 0.30	U	16.7	
H6B	16 - 16.5 ft	H6B-16.0-16.5	03/01/2014	N	0.14	J										
H6B	18 - 18.5 ft	H6B-18.0-18.5	03/01/2014	N	0.47	J										
H6B	18 - 18.5 ft	H6B-18.0-18.5	03/01/2014	N			< 0.24	UJ	23.2	J	14.2	J	< 0.30	UJ	25.8	J
HAL-AOC3	0.5 - 1 ft	HAL-AOC3-0.5-1.0	02/27/2014	N	8.8	J										
HAL-AOC3	0.5 - 1 ft	HAL-AOC3-0.5-1.0	02/27/2014	N			4.2		337		31.4		< 0.35	U	30.1	
HB	0.3 - 0.8 ft	HB 0.3-0.8	03/17/2004	N	***1010***											
HB	2 - 2.5 ft	HB 2-2.5	03/17/2004	N	***373***											
HI	0.3 - 0.8 ft	HI 0.3-0.8	03/18/2004	N	< 4.3	UJ										
HI	2 - 2.5 ft	HI 2-2.5	03/18/2004	N	< 4.44	UJ										
HI	4 - 4.5 ft	HI 4-4.5	03/18/2004	N	***30.1***	***J***										
HI	5 - 5.5 ft	HI 5-5.5	03/18/2004	N	11.6	J										
HI	7 - 7.5 ft	HI 7-7.5	03/18/2004	N	< 5.03	UJ										
HI	9 - 9.5 ft	HI 9-9.5	03/18/2004	N	***92.2***	***J***										
HI	10.1 - 10.5 ft	HI 10.1-10.5	03/18/2004	N	***43.6***	***J***										
HI	14 - 14.5 ft	HI 14-14.5	03/18/2004	N	< 4.7	UJ										
HI	14.7 - 15.2 ft	HI 14.7-15.2	03/18/2004	N	< 10	UJ										
HI	17 - 17.5 ft	HI 17-17.5	03/18/2004	N	< 4.77	UJ										
HK	1.3 - 1.8 ft	HK 1.25-1.75	03/18/2004	N	< 4.32	UJ										
HK	1.3 - 1.8 ft	HK1.25-1.75D	03/18/2004	FD	< 4.35	UJ										
HK	3 - 3.5 ft	HK 3-3.5	03/18/2004	N	< 4.58	UJ										
HK	5 - 5.5 ft	HK 5-5.5	03/18/2004	N	***45.1***	***J***										
HK	7 - 7.3 ft	HK 7-7.3	03/18/2004	N	< 5.56	UJ										
HK	9 - 9.5 ft	HK 9-9.5	03/18/2004	N	***36.7***	***J***										
HK	13 - 13.5 ft	HK 13-13.5	03/18/2004	N	< 4.73	UJ										
HK	17 - 17.5 ft	HK 17-17.5	03/18/2004	N	< 6.69	UJ										
HTP1	0.3 - 0.8 ft	HTP1-0.3-0.8	02/22/2014	N	***368***	***J***										
HTP1	0.3 - 0.8 ft	HTP1-0.3-0.8	02/22/2014	N			9.1		5820		154		0.78	J	**103**	
HTP1	2 - 2.5 ft	HTP1-2.0-2.5	02/22/2014	N	1.7	J										
HTP1	2 - 2.5 ft	HTP1-2.0-2.5	02/22/2014	N			2.2	J	70.4		29.6		< 0.29	U	28.8	
HTP2	0.5 - 1 ft	HTP2-0.5-1.0	03/08/2014	N			2.1	J	1820		68.5		< 0.39	U	63.6	
HTP2	0.5 - 1 ft	HTP2-0.5-1.0	03/08/2014	N	***134***	***J***										
HTP2	2 - 2.5 ft	HTP2-2.0-2.5	03/08/2014	N			5.0	J	45.8		56.1		**10.5**	**J**	61.4	J
HTP2	2 - 2.5 ft	HTP2-2.0-2.5	03/08/2014	N	0.62	J										
OSB-22	1.05 - 1.55 ft	OSB-22A(1.05-1.55)20060718	07/18/2006	N	8.7	J										
OSB-22	1.05 - 1.55 ft	OSB-22A(1.05-1.55)20060718	07/18/2006	N			< 2.2	UJ	834		72.7		< 1.1	U	**122**	
OSB-22	4 - 4.5 ft	OSB-22B(4.0-4.5)20060718	07/18/2006	N	9.3	J										
OSB-22	4 - 4.5 ft	OSB-22B(4.0-4.5)20060718	07/18/2006	N			< 3.1	UJ	3800		30.1		< 1.5	U	44.8	
OSB-22	4 - 4.5 ft	OSB-22BD(4.0-4.5)20060718	07/18/2006	FD	12.5	J										
OSB-22	4 - 4.5 ft	OSB-22BD(4.0-4.5)20060718	07/18/2006	FD			< 3.3	UJ	2890		33.3		< 1.6	U	47.8	
OSB-22	11 - 12 ft	OSB-22C(11-12)20060725	07/25/2006	N			< 2.7	UJ	29.5		11.7		< 1.3	U	27.0	
OSB-22	11 - 12 ft	OSB-22C(11-12)20060725	07/25/2006	N	< 1.3	UJ										
OSB-22	16.8 - 17.3 ft	OSB-22D(16.8-17.3)20060725	07/25/2006	N			< 6.3	UJ	61.9		18.5		< 3.1	U	31.2	
OSB-22	16.8 - 17.3 ft	OSB-22D(16.8-17.3)20060725	07/25/2006	N	< 3.1	UJ										
OSB-23	0.5 - 1 ft	OSB-23A(0.5-1)20060720	07/20/2006	N	1.3		< 2.2	UJ	89.3	J	15.2		< 1.1	U	27.1	J
OSB-23	1.7 - 2.2 ft	OSB-23B(1.7-2.2)20060720	07/20/2006	N	15.2		< 11	UJ	1980	J	102		**< 5.3**	**UM**	**221**	**J**
OSB-24	0.5 - 1 ft	0SB-24A(0.5-1.0)20060724	07/24/2006	N			< 2.2	UJ	795	J	62.0		< 1.1	U	**115**	
OSB-24	4.5 - 5 ft	0SB-24B(4.5-5.0)20060724	07/24/2006	N			< 2.8	UJ	73.4	J	22.7		< 1.4	U	24.9	
OSB-24	8 - 9 ft	OSB-24C(8-9)20060731	07/31/2006	N	< 1.4	UJ	5.7	J	22.7	J	15.8		< 1.4	UJ	21.5	J
OSB-24	11.7 - 12.7 ft	OSB-24D(11.7-12.7)20060731	07/31/2006	N	< 1.1	UJ	< 2.2	UJ	13.8	J	8.1		< 1.1	UJ	24.8	J

Table 5
Halsted Building - Soil Boring and Test Pit Analytical Results
Compared to NJDEP Residential and Non-Residential Soil Remediation Standards

				Analyte	Hexavalent Chromium		Antimony		Chromium		Nickel		Thallium		Vanadium	
				CAS-RN	18540-29-9		7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
				RDCSRS			31		CrSCC = 120,000		1600		5		78	
				NRDCSRS	CrSCC = 20		450				23000		79		1100	
				Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Location	**Depth interval**	**Sample ID**	**Date Collected**	**Sample Type**	**R**	**Q**	**R**	**Q**	**R**	**Q**	**R**	**Q**	**R**	**Q**	**R**	**Q**
OSB-24	11.7 - 12.7 ft	OSB-24DD(11.7-12.7)20060731	07/31/2006	FD	< 1.3	UJ	< 2.6	UJ	19.4	J	9.2		< 1.3	UJ	27.3	J
OSB-24	15.5 - 16 ft	OSB-24E(15.5-16)20060731	07/31/2006	N	< 1.8	UJ	< 3.7	UJ	25.4	J	19.3		< 1.8	UJ	26.9	J
PSEG-SB30	18 - 18.5 ft	NJD981084668-4/26/2005-1	04/26/2005	N			< 0.90	U	15.8		8.0	B	< 1.0	U	15.6	
PSEG-SB30	25 - 25.5 ft	NJD981084668-4/26/2005-2	04/26/2005	N			< 0.92	U	12.4		8.7	B	< 1.0	U	15.2	
PSEG-SB30	46.75 - 47.25 ft	NJD981084668-4/26/2005-10	04/26/2005	N			< 1.2	U	3.9		2.6	B	< 1.2	U	6.7	B
PSEG-SB30	62 - 62.5 ft	NJD981084668-4/26/2005-20	04/26/2005	N			< 1.3	U	18.2		17.8		< 1.3	U	24	
PSEG-SB40	0.5 - 1 ft	PSEG-SB40A(0.5-1.0)J47112-2R	11/21/2006	N	14.3	J										
PSEG-SB40	1.5 - 2 ft	PSEG-SB40B(1.5-2.0)J47112-3R	11/21/2006	N	4.5	J										
PSEG-SB40	1.5 - 2 ft	PSEG-SB40BD(1.5-2.0)J47112-4R	11/21/2006	FD	6.7	J										
PSEG-SB40	6 - 6.5 ft	PSEG-SB40C(6.0-6.5)J47112-5R	11/21/2006	N	< 1.4	UJ										
PSEG-SB40	10 - 10.5 ft	NJD981084668-11/21/2006-SB40_10	11/21/2006	N			< 2.2	U	31.4		21.1		< 1.8	U	30.8	
PSEG-SB40	10.5 - 11 ft	PSEG-SB40D(10.5-11.0)J47112-6R	11/21/2006	N	< 1.2	UJ										
PSEG-SB40	14 - 14.5 ft	PSEG-SB40E(14.0-14.5)J47112-7R	11/21/2006	N	< 1.2	UJ										
PSEG-SB40	19 - 19.5 ft	PSEG-SB40H(19.0-19.5)J47112-10	11/21/2006	N			< 2.6	UJ	9.6		< 5.3	U	< 1.3	U	15.2	
PSEG-SB40	19 - 19.5 ft	PSEG-SB40H(19.0-19.5)J47112-10R	11/21/2006	N	< 1.3	UJ										
PSEG-SB40	30.5 - 31 ft	NJD981084668-11/21/2006-SB40_30	11/21/2006	N			< 1.4	U	10.2		6.5	B	< 1.1	U	13.5	
PSEG-SB40	42.5 - 43 ft	NJD981084668-11/22/2006-SB40_42	11/22/2006	N			< 1.4	U	676		3.3	B	< 1.1	U	8	B
PSEG-SB40	47 - 47.5 ft	NJD981084668-11/22/2006-SB40_47	11/22/2006	N			< 1.4	U	76.6		3.9	B	< 1.2	U	9.4	B
PSEG-SB40	55 - 55.5 ft	NJD981084668-11/22/2006-SB40_55	11/22/2006	N			< 1.6	U	30.2		33		< 1.3	U	36.8	
PSEG-SB52	1 - 1.5 ft	PSEG-SB52A(1.0-1.5)J47237-1	11/22/2006	N			5.8	J	1860	J	97.9		< 1.2	U	**115**	**J**
PSEG-SB52	1 - 1.5 ft	PSEG-SB52A(1.0-1.5)J47237-1R	11/22/2006	N	***42.5***											
PSEG-SB52	6 - 6.5 ft	PSEG-SB52B(6.0-6.5)J47237-2	11/22/2006	N			4.2	J	6150	J	19.7		< 1.7	U	19.2	J
PSEG-SB52	6 - 6.5 ft	PSEG-SB52B(6.0-6.5)J47237-2R	11/22/2006	N	< 1.7	U										
PSEG-SB52	6 - 6.5 ft	PSEG-SB52BD(6.0-6.5)J47237-3	11/22/2006	FD			4.2	J	5820	J	18.1		< 1.7	U	17.6	J
PSEG-SB52	6 - 6.5 ft	PSEG-SB52BD(6.0-6.5)J47237-3R	11/22/2006	FD	15.4											
PSEG-SB52	8.5 - 9 ft	NJD981084668-11/22/2006-SB52_8	11/22/2006	N			< 2	U	538		15.7		< 1.6	U	34.7	
PSEG-SB52	8.5 - 9 ft	PSEG-SB52C(8.5-9.0)J47237-5	11/22/2006	N			< 4.3	UJ	134	J	19.2		< 2.2	U	50.9	J
PSEG-SB52	8.5 - 9 ft	PSEG-SB52C(8.5-9.0)J47237-5R	11/22/2006	N	< 2.2	U										
PSEG-SB52	9 - 9.1 ft	PSEG-SB52D(9.0-9.1)J47237-6	11/22/2006	N			< 4	UJ	33.8	J	16.3		< 2	U	48.5	J
PSEG-SB52	9 - 9.1 ft	PSEG-SB52D(9.0-9.1)J47237-6R	11/22/2006	N	4.4											
PSEG-SB52	10 - 10.5 ft	PSEG-SB52E(10.0-10.5)J47237-7	11/22/2006	N			< 2.5	UJ	13	J	7		< 1.3	U	20	J
PSEG-SB52	10 - 10.5 ft	PSEG-SB52E(10.0-10.5)J47237-7R	11/22/2006	N	< 1.2	U										
PSEG-SB52	12 - 13 ft	PSEG-SB52F(12.0-13.0)J47237-8	11/22/2006	N			< 2.3	UJ	11.7	J	10.4		< 1.2	U	17.8	J
PSEG-SB52	12 - 13 ft	PSEG-SB52F(12.0-13.0)J47237-8R	11/22/2006	N	< 1.2	U										
PSEG-SB52	14.2 - 14.9 ft	PSEG-SB52G(14.2-14.9)J47237-9	11/22/2006	N			< 2.3	UJ	21.5	J	11.4		< 1.2	U	25.4	J
PSEG-SB52	14.2 - 14.9 ft	PSEG-SB52G(14.2-14.9)J47237-9R	11/22/2006	N	< 1.2	U										
PSEG-SB52	14.2 - 14.9 ft	PSEG-SB52GD(14.2-14.9)J47237-10	11/22/2006	FD			< 2.4	UJ	14.1	J	10.8		< 1.2	U	23.8	J
PSEG-SB52	14.2 - 14.9 ft	PSEG-SB52GD(14.2-14.9)J47237-10R	11/22/2006	FD	< 1.2	U										
PSEG-SB52	16 - 16.5 ft	PSEG-SB52H(16.0-16.5)J47368-9	11/27/2006	N	< 2.2	U	< 4.2	UJ	80.2		21.3		< 2.1	U	35.2	
PSEG-SB52	19 - 20 ft	PSEG-SB52I(19.0-20.0)J47368-10	11/27/2006	N	< 1.9	U	< 3.7	UJ	31.1		24.5		< 1.8	U	34.2	
PSEG-SB52	19 - 20 ft	PSEG-SB52ID(19.0-20.0)J47368-11	11/27/2006	FD	< 1.9	U	< 3.8	UJ	32.8		25.4		< 1.9	U	36.6	
PSEG-SB52	20 - 21 ft	PSEG-SB52J(20.0-21.0)J47368-12	11/27/2006	N	< 1.9	U	< 3.6	UJ	18.5		9.4		< 1.8	U	16.5	
PSEG-SB52	21 - 21.2 ft	PSEG-SB52K(21.0-21.2)J47368-13	11/27/2006	N	< 1.2	U	< 2.5	UJ	17.1		10.1		< 1.3	U	18.6	
PSEG-SB52	21 - 21.5 ft	NJD981084668-11/27/2006-SB52_21	11/27/2006	N			< 1.4	U	13.8		11.6		< 1.2	U	15.2	
PSEG-SB52	36.3 - 36.8 ft	NJD981084668-11/27/2006-SB52_36	11/27/2006	N			< 1.3	U	153		3.4	B	< 1.1	U	8.9	B
PSEG-SB52	42.9 - 43.4 ft	NJD981084668-11/27/2006-SB52_42	11/27/2006	N			< 1.4	U	6.3		2.8	B	< 1.1	U	6.3	B
PSEG-SB52	54.5 - 55 ft	NJD981084668-11/27/2006-SB52_54	11/27/2006	N			< 1.4	U	4.7		3.6	B	< 1.1	U	6.8	B
PSEG-SB54	1 - 1.5 ft	PSEG-SB54A(1.0-1.5)J47368-1	11/27/2006	N	1.6											
PSEG-SB54	4 - 4.5 ft	PSEG-SB54B(4.0-4.5)J47368-2	11/27/2006	N	< 1.5	U										
PSEG-SB54	6.5 - 7.1 ft	PSEG-SB54C(6.5-7.1)J47368-3	11/27/2006	N	< 1.2	U										
PSEG-SB54	10 - 10.5 ft	NJD981084668-11/27/2006-SB54_10	11/27/2006	N			< 1.4	U	22.3		12.1		< 1.2	U	25.7	
PSEG-SB54	12 - 12.5 ft	PSEG-SB54D(12.0-12.5)J47368-4	11/27/2006	N	< 1.2	U										
PSEG-SB54	14.5 - 15 ft	PSEG-SB54E(14.5-15.0)J47368-5	11/27/2006	N	< 1.8	U										
PSEG-SB54	36.5 - 37 ft	NJD981084668-11/27/2006-SB54_36	11/27/2006	N			< 1.4	U	270		3	B	< 1.2	U	6.4	B
PSEG-SB54	42.5 - 43 ft	NJD981084668-11/28/2006-SB54_42	11/28/2006	N			< 1.5	U	5.5		3.5	B	< 1.2	U	6.9	B
PSEG-SB54	42.5 - 43 ft	NJD981084668-11/28/2006-SB54_42	11/28/2006	N			< 1.4	U	5.9		3.6	B	< 1.1	U	6.4	B
SB25	0.5 - 1 ft	SB25(0.5-1)	04/13/2004	N	< 4.78	UJ										
SB25	2 - 2.5 ft	SB25(2-2.5)	04/13/2004	N	< 6.02	UJ										
SB25	4 - 4.5 ft	SB25(4-4.5)	04/13/2004	N	< 6.13	UJ										
SB25	6 - 6.5 ft	SB25(6-6.5)	04/13/2004	N	< 7.13	UJ										
SB25	8 - 8.4 ft	SB25(8-8.4)	04/13/2004	N	< 6.6	UJ										
SB25	10.5 - 11 ft	SB25(10.5-11)	04/13/2004	N	< 4.9	U										
SB25	10.5 - 11 ft	SB25(10.5-11)D	04/13/2004	FD	< 4.93	U										
SB25	12 - 12.5 ft	SB25(12-12.5)	04/13/2004	N	< 4.74	UJ										
SB25	14.5 - 15 ft	SB25(14.5-15)	04/13/2004	N	< 11.1	UJ										
SB25	25.5 - 26 ft	NJD981084668-4/13/2004-001	04/13/2004	N			< 1.22	U	13.0		9.48		< 0.122	U	17.8	
SB25	36 - 36.5 ft	NJD981084668-4/13/2004-002	04/13/2004	N			< 1.25	U	408		4.34		< 0.125	U	5.38	
SB25	44 - 44.5 ft	NJD981084668-4/14/2004-003	04/14/2004	N			< 1.22	U	151		4.19		< 0.122	U	7.14	
SB25	47 - 47.5 ft	NJD981084668-4/14/2004-004	04/14/2004	N			< 1.28	U	158		3.73		< 0.128	U	5.27	
SB25	49.5 - 50 ft	NJD981084668-4/14/2004-005	04/14/2004	N			< 1.36	U	33.6		37.0		0.234		37.0	
X35	2 - 2.5 ft	114-X35A-2-2.5	10/17/2005	N	***21.7***											
X35	2 - 2.5 ft	114-X35A-2-2.5	10/17/2005	N			< 1.0	U	365		12.2		< 1.0	U	30.1	
X35	6 - 6.5 ft	114-X35B-6-6.5	10/17/2005	N	***47.9***											
X35	6 - 6.5 ft	114-X35B-6-6.5	10/17/2005	N			< 1.1	U	740		11.0		< 1.1	U	30.3	
X35	9 - 9.5 ft	114-X35C-9-9.5	10/17/2005	N			< 1.2	U	18.6		12.9		< 1.2	U	25.2	
X35	16 - 16.5 ft	114-X35D-16-16.5	10/17/2005	N	< 1.628	UJ	< 0.91	UJ	14.4	BJ	9.3		< 0.37	U	26.8	
X36	0.8 - 1.3 ft	114-X36A-0.8-1.3	10/17/2005	N	6.32											
X36	0.8 - 1.3 ft	114-X36A-0.8-1.3	10/17/2005	N			< 1.2	U	3600		326		< 1.2	U	**420**	
X36	2 - 2.5 ft	114-X36B-2-2.5	10/17/2005	N	17.3											
X36	2 - 2.5 ft	114-X36B-2-2.5	10/17/2005	N			< 1.1	U	94.9		17.9		< 1.1	U	45.7	
X36	2 - 2.5 ft	114-X36BD-2-2.5	10/17/2005	FD	9.64											
X36	2 - 2.5 ft	114-X36BD-2-2.5	10/17/2005	FD			< 1.1	U	268		19.6		< 1.1	U	44.0	
X36	6 - 6.5 ft	114-X36C-6-6.5	10/17/2005	N	< 1.628	U										
X36	6 - 6.5 ft	114-X36C-6-6.5	10/17/2005	N			25.3		71.3		15.1		< 1.6	U	21.7	
X36	10 - 10.5 ft	114-X36D-10-10.5	10/17/2005	N	< 1.628	U	< 0.93	UJ	34.1	J	18.4		< 0.37	U	41.7	
X37	1.5 - 2 ft	114-X37A-1.5-2	10/17/2005	N	< 1.628	U										
X37	1.5 - 2 ft	114-X37A-1.5-2	10/17/2005	N			< 1.1	U	26.5		13.8		< 1.1	U	24.3	
X37	6 - 6.5 ft	114-X37B-6-6.5	10/17/2005	N			4.6		25.7		17.3		< 1.4	U	28.7	
X37	9 - 9.5 ft	114-X37C-9-9.5	10/17/2005	N			< 1.2	U	17.1		16.8		< 1.2	U	25.1	
X37	13.5 - 14 ft	114-X37D-13.5-14	10/17/2005	N	< 1.628	U	1.2	J	19.8	BJ	20.7		< 0.47	U	37.3	

Notes:

All results are reported in milligrams per kilogram (mg/kg).

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

Sample Type = N indicates normal original sample; FD indicates duplicate sample.

Results = R indicates results; Q indicates qualifier

CrSCC = Interim NJDEP Chromium Soil Cleanup Criteria

RDCSRS = Residential Direct Contact Soil Remediation Standard.

NRDCSRS = Non-Residential Direct Contact Soil Remediation Standard.

Bold values indicate that the result exceeds the RDCSRS.

Italic values indicate that the result exceeds the NRDCSRS.

B - Indicates that the analyte was detected at a concentration less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

J - Indicates that the analyte was detected at a concentration less than the Method Detection Limit and is estimated.

RA - Indicates that the result for this analyte has been rejected, but useable.

R - Indicates that the result for this analyte has been rejected.

U - Indicates that the analyte was not detected at the reported Method Detection Limit.

A blank result value indicates the analysis was not requested.

Table 6
Halsted Building - Soil Boring and Test Pit Analytical Results
Compared to NJDEP Default Impact to Groundwter Soil Screening Level

					Analyte	Antimony		Chromium		Nickel		Thallium		Vanadium	
					CAS-RN	7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
					DIGWSSL	6				48		3			
					Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Location	Depth to GW	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q	R	Q	R	Q	R	Q
114-MW20A	7.7	0.5 - 1 ft	PPG-114-20AA(0.5-1.0)20060724	07/24/2006	N	< 2.2	UJ	276	J	28.2		< 1.1	U	71.6	
114-MW20A	7.7	4.5 - 5 ft	PPG-114-20AB(4.5-5.0)20060724	07/24/2006	N	**8.7**	**J**	19.8	J	18.7		< 1.5	U	27.8	
135-B19	4.3	1.3 - 1.8 ft	135-B19A (1.3-1.8)J49116-8	12/13/2006	N	< 2.3	UJ	169		**61.1**		< 1.2	U	50.5	
135-B19	4.3	2.1 - 2.6 ft	135-B19B (3.3-3.8)J49116-9	12/13/2006	N	2.7	J	457		26.1		< 1.3	U	25.1	
135-B19	4.3	3.3 - 3.8 ft	135 B19C(3.3-3.8)J49116-17	12/13/2006	N	< 2.7	UJ	231		21.3		< 1.3	U	25.1	
EF-122	5.4	1 - 1.5 ft	EF-B122-1.0-1.5	09/10/2012	N	**7.0**				39.3					
EF-122	5.4	3 - 3.5 ft	EF-B122-3.0-3.5	09/10/2012	N	**7.4**				21.5					
EF-122	5.4	4.5 - 5 ft	EF-B122-4.5-5.0	09/10/2012	N	**37.9**				**76.8**					
EF-123	5.5	0.2 - 0.7 ft	EF-B123-0.2-0.7	09/07/2012	N	2.7									
EF-123	5.5	3 - 3.5 ft	EF-B123-3.0-3.5	09/07/2012	N	**7.7**									
EF-123	5.5	5 - 5.5 ft	EF-B123-5.0-5.5	09/07/2012	N	5.2									
EF-14	4.8	2.5 - 3 ft	EF-14-2.5	05/06/2011	N	2.7	J	21.1		13.3		< 1.6	U	10.9	J
EF-99	4.7	0.5 - 1 ft	EF-B099-0.5-1.0	09/04/2012	N	1.1	J								
EF-99	4.7	0.5 - 1 ft	EF-B099-0.5-1.0X	09/04/2012	FD	1.2	J								
H0	5.9	0.5 - 1 ft	H0-0.5-1.0	02/19/2014	N	5.0	J	92.8	J	23.3		< 0.75	U	21.3	
H0	5.9	2.5 - 3 ft	H0-2.5-3.0	02/19/2014	N	3.0	J	25.1	J	22.8		< 2.1	U	33.8	
H0	5.9	4.5 - 5 ft	H0-4.5-5.0	02/19/2014	N	1.4	J	10.9	J	21.1		< 0.36	U	18.5	
H0A	5.6	0.5 - 1 ft	H0A-0.5-1.0	02/18/2014	N	0.98	J	59.7	J	21.5		0.43	J	25.2	
H0A	5.6	2.5 - 3 ft	H0A-2.5-3.0	02/18/2014	N	3.4	J	49.2	J	25.5		**< 7.7**	**U**	23.5	
H0A	5.6	2.5 - 3 ft	H0A-2.5-3.0X	02/18/2014	FD	1.8	J	30.8	J	24.4		< 1.9	U	24.7	
H0A	5.6	4.5 - 5 ft	H0A-4.5-5.0	02/18/2014	N	4.2	J	22.7	J	16.3		< 0.41	U	33.3	
H0B	5.2	0.5 - 1 ft	H0B-0.5-1.0	02/19/2014	N	**6.8**	**J**	81.8	J	45.0	J	< 0.91	UJ	55.6	J
H0B	5.2	2.5 - 3 ft	H0B-2.5-3.0	02/19/2014	N	3.3	J	16.1	J	17.2		< 0.35	U	13.2	
H0B	5.2	2.5 - 3 ft	H0B-2.5-3.0X	02/19/2014	FD	3.5	J	20.3	J	21.5		< 0.35	U	19.5	
H0B	5.2	4.5 - 5 ft	H0B-4.5-5.0	02/19/2014	N	**6.1**	**J**	31.0	J	33.2		< 0.47	U	21.6	
H1	7.1	0.3 - 0.8 ft	H1-0.3	12/10/2011	N	0.71	J	236		17.8		< 0.19	U	16.4	
H1	7.1	5 - 5.5 ft	H1-5.0	12/10/2011	N	3.3	J	23.2		35.0		< 0.21	U	22.6	
H1A	6.5	0.5 - 1 ft	H1A-0.5	12/10/2011	N		R	670	J	36.6		< 0.22	U	39.0	
H1A	6.5	0.5 - 1 ft	H1A-0.5X	12/10/2011	FD		R	1330	J	46.5		< 0.21	U	40.9	
H1A	6.5	2 - 2.5 ft	H1A-2.0	12/10/2011	N	0.83	J	16.3		14.3		0.29		26.9	
H1A	6.5	3 - 3.5 ft	H1A-5.0	12/10/2011	N	5.3	J	104		17.2		0.22	J	25.6	
H1A	6.5	6 - 6.5 ft	H1A-6.0	12/10/2011	N	2.6	J	33.1		18.6		0.26		28.0	
H1A11	6.5	0.2 - 0.7 ft	H1A11-0.2-0.7	02/21/2014	N	**202**		1850		**52.5**		< 1.8	U	34.2	
H1A11	6.5	2 - 2.5 ft	H1A11-2.0-2.5	02/21/2014	N	**20.3**		41.9		46.3		2.1	J	37.8	
H1A11	6.5	2 - 2.5 ft	H1A11-2.0-2.5X	02/21/2014	FD	**17.5**		42.3		35.1		2.8	J	27.2	
H1A11	6.5	3.5 - 4 ft	H1A11-3.5-4.0	02/21/2014	N	1.5	J	12.5		**81.5**		< 0.67	U	18.4	
H1A12	6.8	0.2 - 0.7 ft	H1A12-0.2-0.7	02/21/2014	N	1.4	J	29.4		23.6		< 0.38	U	29.8	
H1A12	6.8	2.5 - 3 ft	H1A12-2.5-3.0	02/21/2014	N	2.0	J	114		23.1		< 0.77	U	30.6	
H1A12	6.8	3.5 - 4 ft	H1A12-3.5-4.0	02/21/2014	N	0.74	J	16.6		23.7		< 0.39	UJ	31.3	
H1A3V	6.5	0.2 - 0.7 ft	H1A3V-0.2-0.7	02/21/2014	N	< 0.28	U	1100		**48.6**		< 0.34	U	33.7	
H1A3V	6.5	2 - 2.5 ft	H1A3V-2.0-2.5	02/21/2014	N	< 0.88	U	29.0		15.0		< 0.73	U	14.0	
H1A3V	6.5	3 - 3.5 ft	H1A3V-3.0-3.5	02/21/2014	N	**10.3**		85.4		34.5		< 1.1	U	25.6	
H1A3V	6.5	5 - 5.5 ft	H1A3V-5.0-5.5	02/21/2014	N	1.6	J	12.7		16.9		< 0.36	U	21.5	
H1A3V	6.5	6 - 6.5 ft	H1A3V-6.0-6.5	02/21/2014	N	**58.3**		18.3		17.9		< 0.39	U	21.5	
H1A9	6.3	0.5 - 1 ft	H1A9-0.5-1.0	02/21/2014	N	3.8	J	64.3		33.0		< 0.60	U	24.2	
H1A9	6.3	2.5 - 3 ft	H1A9-2.5-3.0	02/21/2014	N	3.9	J	86.6		33.8		< 1.4	U	26.4	
H1A9	6.3	2.5 - 3 ft	H1A9-2.5-3.0X	02/21/2014	FD	2.8	J	63.4		29.1		< 0.30	U	25.3	
H1A9	6.3	3.5 - 4 ft	H1A9-3.5-4.0	02/21/2014	N	0.92	J	17.8		20.1		0.98	J	29.1	
H1B	5.7	0.2 - 0.7 ft	H1B-0.2	12/10/2011	N	**9.1**	**J**	491		30.0		< 0.21	U	23.1	
H1B	5.7	5 - 5.5 ft	H1B-5.0	12/10/2011	N	**8.5**	**J**	23.1		27.1		0.32		17.5	
H2	7.1	0.6 - 1.1 ft	H2-0.6	12/10/2011	N	4.6	J	43.2	J	22.1		< 0.21	U	22.0	J
H2	7.1	0.6 - 1.1 ft	H2-0.6X	12/10/2011	FD	2.3	J	36.2	J	20.8		< 0.21	U	21.6	J
H2	7.1	2 - 2.5 ft	H2-2.0	12/10/2011	N	2.8	J	156	J	21.8		0.23		20.8	J
H2	7.1	5 - 5.5 ft	H2-5.0	12/10/2011	N	1.9	J	37.2	J	23.8		< 0.22	U	28.2	J
H2A	6.6	0.4 - 0.9 ft	H2A-0.4	12/10/2011	N	4.1	J	106	J	23.0	J	0.20	J	19.8	J
H2A	6.6	2 - 2.5 ft	H2A-2.0	12/10/2011	N	0.83	J	9.6	J	46.7	J	< 0.23	U	24.1	J
H2A	6.6	5 - 5.5 ft	H2A-5.0	12/10/2011	N	1.8	J	25.1	J	**81.9**	**J**	**9.9**		31.8	J
H2A	6.6	6 - 6.5 ft	H2A-6.0	12/10/2011	N	4.8	J	20.1	J	17.9	J	0.41		26.3	J
H2B	5.9	5 - 5.5 ft	H2B-5.0	12/10/2011	N	**7.7**	**J**	828	J	23.1		< 0.23	U	19.9	J
H3	6.2	0.5 - 1 ft	H3-0.5	12/11/2011	N	1.9	J	1380		**56.7**	**J**	0.23		42.2	
H3	6.2	5 - 5.5 ft	H3-5.0	12/11/2011	N	**29.1**	**J**	391		**237**	**J**	< 0.25	U	31.8	
H3	6.2	6 - 6.5 ft	H3-6.0	12/11/2011	N	2.9	J	32.0		22.8	J	0.34		24.2	
H3A	6	0.5 - 1 ft	H3A-0.5	12/11/2011	N	**8.6**	**J**	280		37.4	J	0.23	J	31.7	
H3A	6	5 - 5.5 ft	H3A-5.0	12/11/2011	N	**13.2**	**J**	5410		33.0	J	**< 4.3**	**U**	27.7	
H3B	5.7	1.5 - 2 ft	H3B-1.5	12/11/2011	N	**127**	**J**	69.8		33.9	J	0.21	J	21.5	
H3B	5.7	5 - 5.5 ft	H3B-5.0	12/11/2011	N	**8.8**	**J**	52.5		**48.7**	**J**	< 0.20	U	19.6	
H4	5.5	0.5 - 1 ft	H4-0.5	12/11/2011	N	**7.6**	**J**	325		38.7	J	0.26		47.2	
H4	5.5	5 - 5.5 ft	H4-5.0	12/11/2011	N	2.3	J	258		18.0	J	< 0.18	U	21.9	
H4A	5.3	0.5 - 1 ft	H4A-0.5	12/11/2011	N	**16.6**	**J**	1490		**80.3**	**J**	< 0.22	U	58.2	
H4A	5.3	2 - 2.5 ft	H4A-2.0	12/11/2011	N	3.3	J	16.2		19.7	J	< 0.22	U	19.4	
H4A	5.3	5 - 5.5 ft	H4A-5.0	12/11/2011	N	4.3	J	229		37.4	J	0.22	J	42.5	
H4A10	5.2	0.5 - 1 ft	H4A10-0.5-1.0	03/07/2014	N	5.0	J	26.7		25.2		0.81	J	28.2	
H4A10	5.2	2.5 - 3 ft	H4A10-2.5-3.0	03/07/2014	N	1.6	J	222		27.6		< 1.5	U	47.0	
H4A11	5.3	0.5 - 1 ft	H4A11S-0.5-1.0	03/07/2014	N	1.3	J	21.3		22.1		0.68	J	26.0	
H4A11	5.3	2.5 - 3 ft	H4A11S-2.5-3.0	03/07/2014	N	2.6	J	342		41.8		< 1.4	U	32.2	
H4A12	5.4	0.5 - 1 ft	H4A12-0.5-1.0	03/07/2014	N	0.41	J	18.7		21.0		< 0.61	U	24.2	
H4A12	5.4	0.5 - 1 ft	H4A12-0.5-1.0X	03/07/2014	FD	0.51	J	18.5		19.8		< 0.58	U	28.9	
H4A12	5.4	2.5 - 3 ft	H4A12-2.5-3.0	03/07/2014	N	0.93	J	332		46.1		< 0.59	U	31.3	
H4A4V	5.4	0.5 - 1 ft	H4A4V-0.5-1.0	03/07/2014	N	3.5	J	20.4		42.7		< 0.60	U	33.4	
H4A4V	5.4	2 - 2.5 ft	H4A4V-2.0-2.5	03/07/2014	N	**19.1**	**J**	107		**203**		< 2.9	U	26.1	
H4A4V	5.4	3 - 3.5 ft	H4A4V-3.0-3.5	03/07/2014	N	0.91	J	579		33.1		0.71	J	29.9	
H4A4V	5.4	5 - 5.5 ft	H4A4V-5.0-5.5	03/07/2014	N	**9.0**	**J**	19.8		35.2		0.40	J	23.0	
H4A9	5.3	0.5 - 1 ft	H4A9-0.5-1.0	03/07/2014	N	0.64	J	37.3	J	25.3		< 0.60	U	15.5	J
H4A9	5.3	2.5 - 3 ft	H4A9-2.5-3.0	03/07/2014	N	1.2	J	21.3	J	24.4		< 0.29	U	22.2	J
H4B	5.1	0.5 - 1 ft	H4B-0.5	12/11/2011	N	**11.5**	**J**	312		25.2	J	0.23		26.0	
H4B	5.1	5 - 5.5 ft	H4B-5.0	12/11/2011	N	1.9	J	164		29.9	J	< 0.52	U	24.2	
H5	5.7	0.3 - 0.8 ft	H5-0.3-0.8	02/26/2014	N	5.6	J	79.8	J	24.5		< 0.39	U	30.1	J
H5	5.7	2 - 2.5 ft	H5-2.0-2.5	02/26/2014	N	< 0.60	UJ	37.2	J	24.8		< 0.75	U	38.8	J
H5	5.7	4 - 4.5 ft	H5-4.0-4.5	02/26/2014	N	**22.4**	**J**	503	J	43.3		< 0.83	U	34.6	J
H5A	5.5	0.5 - 1 ft	H5A-0.5-1.0	02/26/2014	N	< 0.25	UJ	122	J	13.6		< 0.31	U	30.0	J
H5A	5.5	0.5 - 1 ft	H5A-0.5-1.0X	02/26/2014	FD	< 0.24	UJ	126	J	14.0		0.36	J	43.1	J
H5A	5.5	2 - 2.5 ft	H5A-2.0-2.5	02/26/2014	N	0.60	J	1530	J	**50.0**		< 0.35	U	36.2	J
H5A	5.5	4 - 4.5 ft	H5A-4.0-4.5	02/26/2014	N	5.9	J	315	J	23.3		< 0.36	U	25.5	J
H5B	5.3	0.5 - 1 ft	H5B-0.5-1.0	02/26/2014	N	2.4	J	274		22.4		< 0.32	UJ	29.5	J
H5B	5.3	2 - 2.5 ft	H5B-2.0-2.5	02/26/2014	N	3.9	J	193		15.7		< 0.33	U	15.0	J
H5B	5.3	4 - 4.5 ft	H5B-4.0-4.5	02/26/2014	N	5.3	J	212		40.3		< 0.56	U	25.1	J
H6	5.4	0.4 - 0.9 ft	H6-0.4-0.9	03/01/2014	N	**10.5**	**J**	229	J	25.6		< 0.51	U	27.4	
H6	5.4	2 - 2.5 ft	H6-2.0-2.5	03/01/2014	N	1.6	J	38.8	J	13.9		< 0.34	U	21.6	
H6	5.4	4 - 4.5 ft	H6-4.0-4.5	03/01/2014	N	0.54	J	17.3	J	10.5		< 0.32	U	24.6	
H6	5.4	4 - 4.5 ft	H6-4.0-4.5X	03/01/2014	FD	0.30	J	14.0	J	7.7		< 0.33	U	18.0	
H6A	5.2	0.4 - 0.9 ft	H6A-0.4-0.9	03/01/2014	N	3.2	J	254	J	21.3	J	< 0.39	U	32.0	

Table 6
Halsted Building - Soil Boring and Test Pit Analytical Results
Compared to NJDEP Default Impact to Groundwter Soil Screening Level

					Analyte	Antimony		Chromium		Nickel		Thallium		Vanadium	
					CAS-RN	7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
					DIGWSSL	6				48		3			
					Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Location	Depth to GW	Depth interval	Sample ID	Date Collected	Sample Type	R	Q	R	Q	R	Q	R	Q	R	Q
H6A	5.2	2 - 2.5 ft	H6A-2.0-2.5	03/01/2014	N	**64.8**	J	29.2	J	28.7	J	**5.9**	J	32.8	
H6A	5.2	4 - 4.5 ft	H6A-4.0-4.5	03/01/2014	N	2.3	J	590	J	23.4	J	**< 3.1**	U	118	
H6B	5	0.4 - 0.9 ft	H6B-0.4-0.9	03/01/2014	N	**9.7**	J	75.9	J	35.2	J	**5.2**	J	33.4	J
H6B	5	2 - 2.5 ft	H6B-2.0-2.5	03/01/2014	N	**14.0**	J	45.1	J	**64.2**	J	2.1	J	29.2	
H6B	5	2 - 2.5 ft	H6B-2.0-2.5X	03/01/2014	FD	5.4	J	51.7	J	**103**	J	2.9	J	35.5	
H6B	5	4 - 4.5 ft	H6B-4.0-4.5	03/01/2014	N	**11.6**	J	39.0	J	**54.5**	J	1.4	J	23.7	
HAL-AOC3	5.6	0.5 - 1 ft	HAL-AOC3-0.5-1.0	02/27/2014	N	4.2		337		31.4		< 0.35	U	30.1	
HTP1	6.6	0.3 - 0.8 ft	HTP1-0.3-0.8	02/22/2014	N	**9.1**		5820		**154**		0.78	J	103	
HTP1	6.6	2 - 2.5 ft	HTP1-2.0-2.5	02/22/2014	N	2.2	J	70.4		29.6		< 0.29	U	28.8	
HTP2	5.3	0.5 - 1 ft	HTP2-0.5-1.0	03/08/2014	N	2.1	J	1820		**68.5**		< 0.39	U	63.6	
HTP2	5.3	2 - 2.5 ft	HTP2-2.0-2.5	03/08/2014	N	5.0	J	45.8		**56.1**		**10.5**	J	61.4	J
OSB-22	5.6	1.05 - 1.55 ft	OSB-22A(1.05-1.55)20060718	07/18/2006	N	< 2.2	UJ	834		**72.7**		< 1.1	U	122	
OSB-22	5.6	4 - 4.5 ft	OSB-22B(4.0-4.5)20060718	07/18/2006	N	< 3.1	UJ	3800		30.1		< 1.5	U	44.8	
OSB-22	5.6	4 - 4.5 ft	OSB-22BD(4.0-4.5)20060718	07/18/2006	FD	< 3.3	UJ	2890		33.3		< 1.6	U	47.8	
OSB-23	6.1	0.5 - 1 ft	OSB-23A(0.5-1)20060720	07/20/2006	N	< 2.2	UJ	89.3	J	15.2		< 1.1	U	27.1	J
OSB-23	6.1	1.7 - 2.2 ft	OSB-23B(1.7-2.2)20060720	07/20/2006	N	**< 11**	**UJ**	1980	J	**102**		**< 5.3**	**UM**	221	J
OSB-24	4.8	0.5 - 1 ft	0SB-24A(0.5-1.0)20060724	07/24/2006	N	< 2.2	UJ	795	J	**62.0**		< 1.1	U	115	
OSB-24	4.8	4.5 - 5 ft	0SB-24B(4.5-5.0)20060724	07/24/2006	N	< 2.8	UJ	73.4	J	22.7		< 1.4	U	24.9	
PSEG-SB52	5	1 - 1.5 ft	PSEG-SB52A(1.0-1.5)J47237-1	11/22/2006	N	5.8	J	1860	J	**97.9**		< 1.2	U	115	J
X35	5.6	2 - 2.5 ft	114-X35A-2-2.5	10/17/2005	N	< 1.0	U	365		12.2		< 1.0	U	30.1	
X36	7.3	0.8 - 1.3 ft	114-X36A-0.8-1.3	10/17/2005	N	< 1.2	U	3600		**326**		< 1.2	U	420	
X36	7.3	2 - 2.5 ft	114-X36B-2-2.5	10/17/2005	N	< 1.1	U	94.9		17.9		< 1.1	U	45.7	
X36	7.3	2 - 2.5 ft	114-X36BD-2-2.5	10/17/2005	FD	< 1.1	U	268		19.6		< 1.1	U	44.0	
X36	7.3	6 - 6.5 ft	114-X36C-6-6.5	10/17/2005	N	**25.3**		71.3		15.1		< 1.6	U	21.7	
X37	4.6	1.5 - 2 ft	114-X37A-1.5-2	10/17/2005	N	< 1.1	U	26.5		13.8		< 1.1	U	24.3	

Notes:

All results are reported in milligrams per kilogram (mg/kg).

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

Sample Type = N indicates normal original sample; FD indicates duplicate sample.

Results = R indicates results; Q indicates qualifier

DIGWSSL = NJDEP Default Impact to Groundwater Soil Screening Level

Bold values indicate that the result exceeds the DIGWSSL.

J - Indicates that the analyte was detected at a concentration less than the Method Detection Limit and is estimated.

RA - Indicates that the result for this analyte has been rejected, but useable.

R - Indicates that the result for this analyte has been rejected.

U - Indicates that the analyte was not detected at the reported Method Detection Limit.

A blank result value indicates the analysis was not requested.

Table 7
Halsted Building - Chip Sample Analytical Results

				Analyte	Hexavalent Chromium		Chromium	
				CAS-RN	18540-29-9		7440-47-3	
				Units	mg/kg		mg/kg	
Location	Sample ID	Lab Sample ID	Date Collected	Sample Type	R	Q	R	Q
HAL-AB-EW1	HAL-AB-EW1	JB62482-1	03/20/2014	N	650			
HAL-AB-EW1	HAL-AB-EW1	JB62482-1A	03/20/2014	N			1340	
HAL-B-C-NE	HAL-B-C-NE	JB62799-1	03/24/2014	N	0.40	J		
HAL-B-C-NE	HAL-B-C-NE	JB62799-1A	03/24/2014	N			11.2	
HAL-B-NWC1	HAL-B-NWC1	JB61031-2	03/04/2014	N	341			
HAL-B-NWC1	HAL-B-NWC1	JB61031-2A	03/04/2014	N			440	
HAL-B-NWC2	HAL-B-NWC2	JB60948-2	03/03/2014	N	1660			
HAL-B-NWC2	HAL-B-NWC2	JB60948-2A	03/03/2014	N			2060	
HAL-B-SWC	HAL-B-SWC	JB61031-1	03/04/2014	N	19.3			
HAL-B-SWC	HAL-B-SWC	JB61031-1A	03/04/2014	N			78.8	
HAL-B-SWWC	HAL-B-SWWC	JB60948-1	03/03/2014	N	298			
HAL-B-SWWC	HAL-B-SWWC	JB60948-1A	03/03/2014	N			700	
HAL-CC1	HAL-CC1	JB60434-1	02/24/2014	N	2010			
HAL-CC1	HAL-CC1	JB60434-1A	02/24/2014	N			2630	
HAL-CC2	HAL-CC2	JB60643-42A	02/26/2014	N			2490	
HAL-CC2	HAL-CC2	JB60643-42R	02/26/2014	N	1880			
HAL-CC3	HAL-CC3	JB60738-1	02/27/2014	N	0.67	RA		
HAL-CC3	HAL-CC3	JB60738-1A	02/27/2014	N			48.1	
HAL-CC4	HAL-CC4	JB61104-1	03/05/2014	N	1940	RA		
HAL-CC4	HAL-CC4	JB61104-1A	03/05/2014	N			2000	
HAL-DE-EW1	HAL-DE-EW1	JB63398-1	03/31/2014	N	10.1			
HAL-DE-EW1	HAL-DE-EW1	JB63398-1A	03/31/2014	N			662	

Notes:

All results are reported in milligrams per kilogram (mg/kg).

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

Sample Type = N indicates normal original sample; FD indicates duplicate sample.

Results = R indicates results; Q indicates qualifier

J - Indicates that the analyte was detected at a concentration less than the Method Detection Limit and is estimated.

RA - Indicates that the result for this analyte has been rejected, but useable.

A blank result value indicates the analysis was not requested.

Attachment A

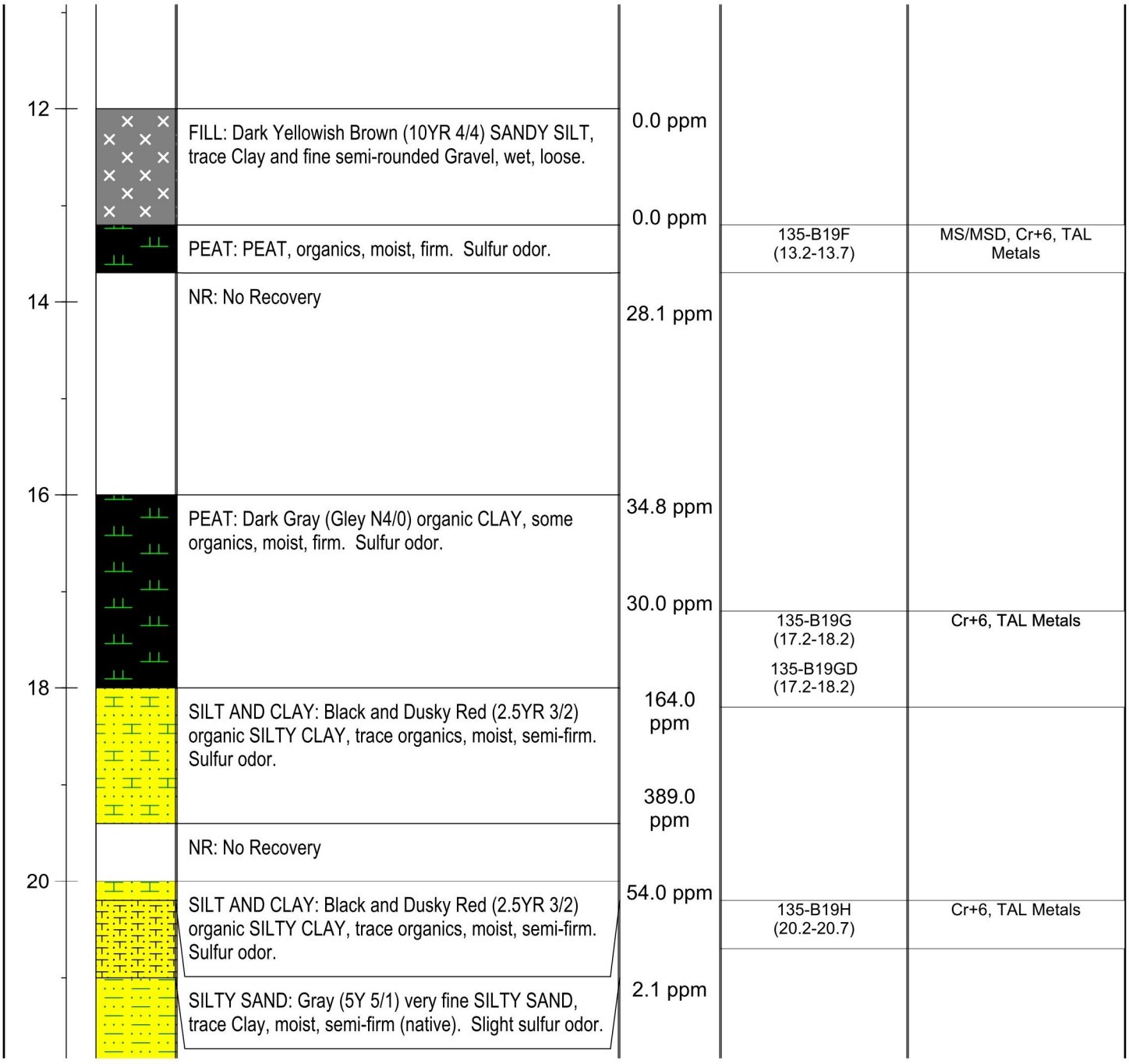
Boring Logs

ENSR | AECOM	Client: PPG Industries	BORING ID: 135-B19
	Site: Site 135	
Start Date: 12/13/2006	Project: **Site Investigation**	Page: 1 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 11.11	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: ASPHALT			
		FILL: Gray fine COBBLES.			
		FILL: Brown coarse SAND, some Silt and Clay, little fine Gravel.	0.0 ppm	135-B19A (1.1-1.8)	Cr+6, TAL Metals
2		FILL: Grey fine COBBLES	1.4 ppm	135-B19B (2.1-2.6)	Cr+6, TAL Metals
		FILL: Gray-Brown ASH, some fine Gravel, little woody organics. Heavy petroleum odor.			
		FILL: Red Brick pieces		135-B19C (3.3-3.8)	Cr+6, TAL Metals
4		FILL: Black-Gray ASH, some fine Gravel, little brick fragments.	0.0 ppm		
		FILL: Dark Grayish Brown, (2.5Y 4/2) SILT and ASH, Fill materials (shells, clinkers, wood particles), wet, loose. No odor.	0.0 ppm	135-B19D (5.1-5.6)	Cr+6, TAL Metals
6		FILL: Black and Dark Grayish Brown (2.5Y 4/2) SILTY CLAY, trace coarse Sand and Topsoil, moist, firm.	0.0 ppm		
		NR: No Recovery			
8		FILL: Dark Grayish Brown (10YR 4/2) SAND CLAY, little Silt, wet, semi-firm. No odor.	0.0 ppm		
		FILL: Black medium SANDY SILT, Fill material, little interbedded Clay, wet, loose. No odor.	0.0 ppm	135-B19E (9.4-9.9)	Cr+6, TAL Metals
10		FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, trace Clay, moist, semi-firm. No odor.	0.1 ppm		
		NR: No Recovery			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: 135-B19
	Site: Site 135	
Start Date: 12/13/2006	Project: **Site Investigation**	Page: 2 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 11.11	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

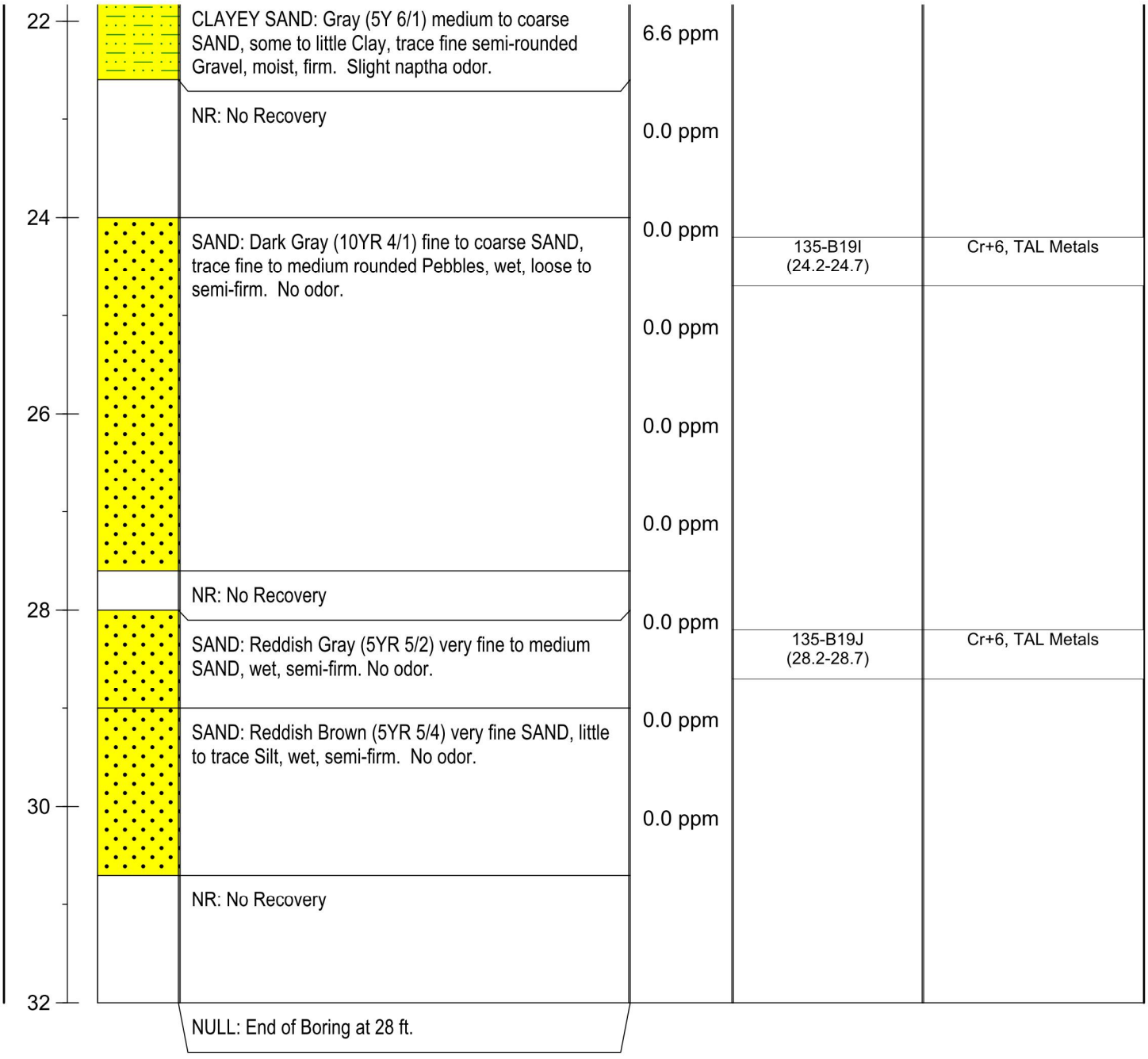


Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

ENSR | AECOM	Client: PPG Industries	BORING ID: 135-B19
	Site: Site 135	
Start Date: 12/13/2006	Project: **Site Investigation**	Page: 3 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 11.11	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: EF-14

Project Name: PPG Soil RIWP	**Drilling Company:** SGS	
Project Number: 6015-4801	**Drilling Method:** Airknife/Geoprobe	**Coordinates (NJSPNAD83) x:** 611459.371
Date Started Drilling: 5/6/2011	**Rig Type:** Airknife/Geoprobe	**Coordinates (NJSPNAD83) y:** 682763.459
Date Finished Drilling: 5/9/2011	**Core Size:** 2 in	**Boring Total Depth:** 25 ft
Logged By: B. Daniels, M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 5.3/21 ft
Physical Location: Behind Halsted Building		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
				2			Black Asphalt	EF-B14_0.5
1	1.1	0	moist	3	Fill		Brown (7.5YR 4/2) fine to coarse SAND and Gravel, some Fill Material (ash, cinder, brick, wood, glass), moist, loose. Slight petroleum odor.	
2		0						EF-B14_2.0
3		0.3						EF-B14_2.5
4		0.4	wet	6	Fill		Dark Gray (2.5Y 4/1) SILT and CINDERS, some Ash, little Coal fragments, wet at 5.3', loose. No odor.	EF-B14_4.0
5		1.1						
6	2	0						EF-B14_6.0
7					Fill		No Recovery	
8								
9								
10		2						EF-B14_10.0
11	3	1.3		6	Fill		Same as above.	
		22.8						
12			moist	7	PT		Dark Brown (10YR 4/4) PEAT, Organics, little Silt, semi-cohesive, moist. Sulfur odor.	EF-B14_12.0
13					PT		No Recovery	
14								
15		3						
16	4	3.8	moist	7	OL		Dark Brown (10YR 4/4) Organic SILT, some to little Organics, semi-cohesive, stiff, moist. Sulfur odor.	
		91.6						
17		4						
18								EF-B14_17.5
19					OL		No Recovery	
20		4						
21	4	23.2	wet	8	SM		Gray (Gley1 5/0) fine to medium SAND, little interbedded Silt, medium dense to loose, wet. Slight coal tar odor.	
		11.2						
22		3.8						
23		0.8						EF-B14_22.5
24								
25	4				SM		No Recovery	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: EF-49

Project Name: PPG Soil RIWP	**Drilling Company:** SGS	
Project Number: 6015-4801	**Drilling Method:** Airknife/Geoprobe	**Coordinates (NJSPNAD83) x:** 611399.447
Date Started Drilling: 5/24/2011	**Rig Type:** Airknife/Geoprobe	**Coordinates (NJSPNAD83) y:** 682675.465
Date Finished Drilling: 5/25/2011	**Core Size:** 2 in	**Boring Total Depth:** 15 ft
Logged By: E. Acs, M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 3.5 ft
Physical Location: Carteret Avenue, near Site 135		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	2	Fill		Black Asphalt	EF-B49_0.5
			dry	4B	Fill		Black (10YR 2/1) fine to coarse SAND (40-25% COPR), some-little fine to medium Gravel, trace Fill Material (ash, cinders, glass, brick), loose. No odor.	
2		0						
3		0	dry	6	Fill		Black TAR, sheet layer in boring.	
			moist	4B	Fill		Black (10YR 2/1) fine to coarse SAND (25% COPR), some fine to medium Gravel, little Fill Material (ash, cinders, glass, brick), medium dense. No odor.	
4		0	wet	6	Fill			
5		0						
6		0	wet	3	Fill		Black (10YR 2/1) to Dark Gray (10YR 4/1) ASH, CINDERS, and Silt, trace fine Sand and Fill Material (brick, coal, wood, clinker, glass), medium dense. No odor.	
			moist	3	Fill		Black-stained fine to medium SAND and GRAVEL, little Silt, loose. No odor.	
7								
8	2		moist	3	Fill		Black-stained SILT, little Clay, trace medium Sand, semi-cohesive, medium stiff. No odor.	
9							No Recovery	
10		1.9						
11		0	wet	6	Fill		Black-stained CINDERS and SILT, interbedded, loose. No odor.	EF-B49_11.0
12		0						EF-B49_12.0
13	5	0	moist	3	Fill		Black-stained SILT , little Clay, trace organics, soft. No odor.	
			moist	3	Fill		Brown (7.5YR 4/3) very fine SAND, some-little Silt, trace coarse Sand and medium rounded Gravel, medium stiff. No odor.	
14		0						
15								
16							End of boring at 15 ft.	
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: COPR identified from 0.4-3.5 ft bgs. No native material encountered.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: EF-99

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig/Geoprobe	**Coordinates (NJSPNAD83) x:** 611413.125
Date Started Drilling: 9/4/2012 10:25:00 AM	**Rig Type:** Geoprobe	**Coordinates (NJSPNAD83) y:** 682723.5
Date Finished Drilling: 9/4/2012 10:55:00 AM	**Core Size:** 2 in	**Boring Total Depth:** 3 ft
Logged By:	**Project Manager:** Chris Martell	**Depth to Water:**
Physical Location:		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				2	ASPHALT		ASPHALT	
		0.0	dry	6	FILL		ASH, and cinders little coal, (7.5YR 4/1) dark gray, dry, no odor, Little slag.	EF-B099-0.5-1.0
1								
2		0.0	moist	3	FILL		silty SAND, little fine to medium gravel and fill material, moist, no odor, angular, Slag, brick, coal, glass.	EF-B099-2.5-3.0
3								

Comments:

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: H0

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611597
Date Started Drilling: 2/19/2014 11:10:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 683014
Date Finished Drilling: 2/19/2014 2:00:00 PM	**Core Size:** 3 in	**Boring Total Depth:** 20.5 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - Inside building		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE, no staining.	H0-CT
1		0.0	moist	FILL		medium SAND, with fine gravel, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	H0-CB H0-0.5-1.0
2		0.0	dry	FILL		fine to medium SAND, and ash, little fine gravel, (10YR 5/2) grayish brown, non plastic, loose, dry, no odor, no staining.	
3	4.5						H0-2.5-3.0
4		0.0	moist	FILL		ASH, some fine sand and fine gravel, (7.5YR 6/1) gray, non plastic, loose, moist, no odor, no staining.	
5							H0-4.5-5.0
				NR		NO RECOVERY	
6		0.0	moist	FILL		fine SAND, with ash and fine to medium gravel, (10YR 5/2) grayish brown, non plastic, soft to loose, moist, no odor, no staining.	
7		0.0	moist	FILL		medium SAND, little fill material, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.	H0-6.5-7.0
8	3.5						
9							H0-8.5-9.0
				NR		NO RECOVERY	
10							
11		0.0	wet	FILL		medium gravelly SAND, with fill material and ash, (7.5YR 4/1) dark gray, non plastic, loose to soft, wet, no odor, no staining.	H0-10.5-11.0
12							
13	5						H0-12.5-13.0
14							
15							H0-14.5-15.0
16		0.0	moist	FILL		medium SAND, with roots, some silt, (7.5YR 4/4) brown, non plastic, soft, moist, no odor, no staining.	
		6.3	moist	PT		PEAT (degraded vegetated material), with 80% organic fibers, and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	H0-16.5-17.0
17							
18	2.7						
				NR		NO RECOVERY	
19							
20							

Comments: No COPR/GGM identified.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: H0A

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611614
Date Started Drilling: 2/18/2014 1:00:00 PM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682997
Date Finished Drilling: 2/18/2014 2:00:00 PM	**Core Size:** 3 in	**Boring Total Depth:** 20.5 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - Inside building		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE, no staining.	H0A-CT
		0.0	moist	FILL		fine to medium SAND, trace fine gravel, (7.5YR 3/1) very dark gray, non plastic, soft, moist to wet, no odor, no staining.	H0A-CB
1		0.0	to wet	FILL			H0A-0.5-1.0
2			moist			ASH, trace fine sand, (7.5YR 6/1) gray, non plastic, loose, moist, no odor, no staining.	
		0.0	dry	FILL		medium SAND, with medium gravel and ash, (5YR 4/2) dark reddish gray, non plastic, hard, dry, no odor, no staining.	H0A-2.5-3.0
3	4.5	0.0	dry	FILL		medium SAND, with ash and fine gravel, (10YR 5/4) yellowish brown, non plastic, loose, dry, no odor, no staining.	
4		0.0	dry	FILL		medium SAND, with fill material and ash, (7.5YR 3/1) very dark gray, non plastic, soft, dry to moist, no odor, no staining.	
		0.0	to moist	FILL			H0A-4.5-5.0
5		0.0	moist	NR		fine to medium SAND, little fill material, trace glass fragments, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	
6		0.0	dry to moist	FILL		NO RECOVERY	
7						medium SAND, and ash, trace fine gravel, (7.5YR 3/1) very dark gray, non plastic, soft, dry to moist, no odor, no staining.	H0A-6.5-7.0
8	3.5						
9							H0A-8.5-9.0
		0.0		NR		NO RECOVERY	
10							
11		0.0	wet	FILL		medium to coarse SAND, little fine gravel, some ash, (7.5YR 4/1) dark gray, non plastic, soft, wet, no odor, no staining.	H0A-10.5-11.0
12							
13	4.5						H0A-12.5-13.0
14							
15							H0A-14.5-15.0
		0.0		NR		NO RECOVERY	
16		0.0	dry to moist	FILL		medium SAND, trace very fine gravel, (7.5YR 4/2) brown, non plastic, soft, dry to moist, no odor, no staining.	
17		8.6	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	H0A-16.5-17.0
18	5	0.0		NR		NO RECOVERY	
19							
20							

Comments: No COPR/GGM identified.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: H0B

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611632
Date Started Drilling: 2/19/2014 9:10:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682979
Date Finished Drilling: 2/19/2014 10:55:00 AM	**Core Size:** 3 in	**Boring Total Depth:** 20.5 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - Inside building		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE, no staining.	H0B-CT
		1.0	dry	FILL		fine SAND, trace silt with roots, (7.5YR 2.5/3) very dark	H0B-CB
1		0.0	to	FILL		brown, non plastic, soft, dry to moist, slight organic odor, no staining.	H0B-0.5-1.0
		0.0	moist	FILL		ASH, with fine sand and fine gravel, (10YR 5/4) yellowish	
2			dry			brown, non plastic, loose, dry, no odor, no staining.	
			dry			medium to coarse SAND, trace very fine gravel and fill	
3	5					material, (7.5YR 3/4) dark brown, non plastic, loose to soft, dry, no odor, no staining.	H0B-2.5-3.0
		0.0	dry	FILL		medium silty SAND, with medium gravel, (7.5YR 3/1) very	
4			to			dark gray, non plastic, loose, dry to moist, no odor, no staining.	
			moist				
5							H0B-4.5-5.0
		0.0		FILL		fine to medium silty SAND, trace fine gravel.	
6							
							H0B-6.5-7.0
7							
	3.5						
8							
							H0B-8.5-9.0
9				NR		NO RECOVERY	
10							
		0.0	wet	FILL		medium to coarse gravelly SAND, trace fill material, (7.5YR	H0B-10.5-11.0
11						3/1) very dark gray, non plastic, soft to loose, wet, no odor, no staining.	
12		0.0	wet	FILL		medium, with fill material and fine gravel, (7.5YR 3/1) very	
						dark gray, non plastic, loose, wet, no odor, no staining.	H0B-12.5-13.0
13	4.5						
14							
							H0B-14.5-15.0
15				NR		NO RECOVERY	
		0.0	dry	FILL		fine to medium SILT, trace fine gravel, trace roots, (7.5YR	
16		6.3	to	PT		3/2) dark brown, dry to moist, no odor, no staining.	
			moist			PEAT (degraded vegetated material), with 80% organic	H0B-16.5-17.0
17			moist			fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining.	
						Soils consistent with MM.	
18	2.5						
				NR		NO RECOVERY	
19							
20							

Comments: No COPR/GGM identified.

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Boring ID: H1

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/10/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/10/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 1st transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	0.4	0	Dry	1	Fill		Concrete, no staining.	H1-0.3
			Dry	6	Fill		Black SILT, little fine to medium Sand, trace Coal fragments and slag, loose. No odor.	
2			Dry	6	Fill		No Recovery	
3								
4								
5	0.9	0						H1-5.0
6			Dry	3	Fill		Brown (7.5YR 4/4) SILT and fine SAND, some black Ash and Cinders, little fine to medium Gravel, loose. No odor.	
7			Dry	3	Fill		No Recovery	
8								
9								
10	2	0						H1-10.0
11		0	Moist	3	Fill		Brown (7.5YR 4/4) SILT and fine SAND, some black Ash and Cinders, little fine to medium Gravel, medium dense. No odor.	
12			Wet	6	Fill		Black CINDERS and SILT, some Ash, loose. No odor.	
13			Wet	6	Fill		No Recovery	
14								
15	2	0						H1-15.0
16		0	Moist	6	Fill		Black and Brown (7.5YR 4/4) CINDERS and SILT, some Ash, medium dense. No odor.	H1-16.0
17			Moist	7	OH		Dark Brown (7.5YR 3/4) PEAT, high organic content, trace Silty Clay, soft. Strong sulfur odor.	
18			Moist	7	OH		No Recovery	
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H1A

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/10/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/10/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 1st transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	2.4	0	Dry	1	Fill		Concrete, no staining.	H1A-0.5
		0	Moist	6	Fill		Gray (7.5YR 5/1) ASH and CINDERS, dry to moist at 2 ft, loose. No odor.	H1A-0.5X
2		0						H1A-2.0
3			Moist	6	Fill		No Recovery	
4								
5	1.8	0						H1A-5.0
6		0	Moist	6	Fill		Gray (7.5YR 5/1) and Black ASH and CINDERS, some Black Silt and Coal fragments, loose. No odor.	H1A-6.0
7			Moist	6	Fill		No Recovery	
8								
9								
10	0.2	0						H1A-10.0
11			Moist	6	Fill		Gray (7.5YR 5/1) and Black ASH and CINDERS, some Black Silt and Coal fragments, loose, moist to wet at 11 ft. No odor.	
			Wet	6	Fill		No Recovery	
12								
13								
14								
15	0.2	0						H1A-15.0
16			Wet	6	Fill		Gray (7.5YR 5/1) and Black ASH and CINDERS, some Black Silt and Coal fragments, loose. No odor.	
			Wet	6	Fill		No Recovery	
17								
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H1A1

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611586.3125
Date Started Drilling: 9/20/2012 8:35:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682971.5625
Date Finished Drilling: 9/20/2012 8:45:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, green staining.	
0.5	0.9	0.0	dry	3	FILL		Dark gray (7.5YR 4/1) silty SAND and fine to coarse angular GRAVEL, some Fill Material (slag), dry, no odor.	H1A1-0.4-0.9

Comments: Green staining identified.

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Boring ID: H1A11

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611576
Date Started Drilling: 2/21/2014 11:35:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682952
Date Finished Drilling: 2/21/2014 11:50:00 AM	**Core Size:** 3.0 in	**Boring Total Depth:** 4 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H1A11		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.2	0.0		CONCRETE		CONCRETE, slight green staining first 1.0 inch of core.	H1A11-CT
		0.0		FILL		fine to medium SAND, with fine gravel and slag, (7.5YR 3/3) dark brown.	H1A11-CB
1		0.0	dry	FILL		fine to medium SAND, with ash and cinders, (7.5YR 3/4) dark brown, non plastic, loose, dry, no odor, no staining.	H1A11-0.2-0.7
2	3.8						H1A11-2.0-2.5
3							
							H1A11-3.5-4.0
4							

Comments: No COPR/GGM identified.

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Boring ID: H1A12

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611572
Date Started Drilling: 2/21/2014 12:00:00 PM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682979
Date Finished Drilling: 2/21/2014 12:30:00 PM	**Core Size:** 3.0 in	**Boring Total Depth:** 4 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H1A12		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.2	0.0		CONCRETE		CONCRETE, no staining.	H1A12-CT
	3.8	0.0	dry	FILL		medium SAND, little ash, (7.5YR 3/2) dark brown, non plastic, loose, dry, no odor, no staining.	H1A12-CB
1							H1A12-0.2-0.7
2		0.0	dry	FILL		medium SAND, and ash and ceramics, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry, no odor, no staining.	
3							H1A12-2.5-3.0
							H1A12-3.5-4.0
4							

Comments: No COPR/GGM indentified.

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Boring ID: H1A2

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611586.0625
Date Started Drilling: 9/20/2012 8:55:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682964.4375
Date Finished Drilling: 9/20/2012 9:15:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 1.1 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, green staining.	
0.5	1.1							
		0.0	dry	3	FILL		Brown (7.5YR 4/3) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, coal, debris), dry, no odor. Green staining.	H1A2-0.6-1.1
1.0								

Comments: Green staining identified.

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Boring ID: H1A3

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611578.9375
Date Started Drilling: 9/20/2012 9:18:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682964.6875
Date Finished Drilling: 9/20/2012 10:35:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, green staining.	
0.5	0.9	0.0	moist	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, coal, debris), moist, no odor.	H1A3-0.4-0.9

Comments: Green staining identified.

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Boring ID: H1A3V

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611582
Date Started Drilling: 2/21/2014 9:05:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682962
Date Finished Drilling: 2/21/2014 11:30:00 AM	**Core Size:** 2.0 in	**Boring Total Depth:** 20.2 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H1A3V		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	0.2	0.0	moist	CONCRETE		CONCRETE, slight green staining 1.0 inch into core.	H1A3V-CT
0		0.0	moist	FILL		fine to medium SAND, trace silt, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, no odor, no staining.	H1A3V-CM
1							H1A3V-CB
1							H1A3V-0.2-0.7
2	4.8						H1A3V-2.0-2.5
2		0.0	moist	FILL		fine SAND, with wood fragments and fill material, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, no odor, no staining.	
3		0.0	dry to moist	FILL		medium SAND, little silt, some gravel, (7.5YR 2.5/3) very dark brown, non plastic, soft, dry to moist, no odor, no staining.	H1A3V-3.0-3.5
4							
5				NR		NO RECOVERY	H1A3V-5.0-5.5
5		0.0	dry	FILL		fine to medium SAND, with ash and fine to medium gravel, (5YR 4/2) dark reddish gray, non plastic, loose, dry, no odor, no staining.	
6		0.0	dry to moist	FILL		ASH, with fine gravel, little sand, (7.5YR 2.5/1) black, non plastic, loose, dry to moist, no odor, no staining, with fill material.	H1A3V-6.0-6.5
7		0.0	moist	FILL		fine to medium SAND, with medium gravel and fill material, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
7	4.8		moist				H1A3V-8.0-8.5
8							
9							
10							
10		0.0	moist	NR		NO RECOVERY	H1A3V-10.0-10.5
11				FILL		silty SAND, some fine gravel, little ash, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.	
12							H1A3V-12.0-12.5
12	4.3						
13							
14							H1A3V-14.0-14.5
15				NR		NO RECOVERY	
15		0.0	moist	FILL		fine to medium SAND, little fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.	H1A3V-15.5-16.0
16		16.7	moist	PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
17	3.3						
18							
19				NR		NO RECOVERY	
20							

Comments: No COPR/GGM identified.

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Boring ID: H1A4

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611579.25
Date Started Drilling: 9/20/2012 10:40:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682971.8125
Date Finished Drilling: 9/20/2012 10:55:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, no staining.	
0.5		0.0	dry	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, coal), dry, no odor.	H1A4-0.4-0.9

Comments: No COPR/GGM identified.

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Boring ID: H1A5

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611590
Date Started Drilling: 9/20/2012 11:05:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682974.9375
Date Finished Drilling: 9/20/2012 11:45:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 1.1 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, no staining.	
0.5	1.1							
		0.0	moist	3	FILL		Dark gray (7.5YR 4/1) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, coal), moist, no odor.	H1A5-0.6-1.1
1.0								

Comments: No COPR/GGM identified.

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Boring ID: H1A6

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611589.4375
Date Started Drilling: 9/20/2012 11:50:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682960.8125
Date Finished Drilling: 9/20/2012 12:05:00 PM	**Core Size:** 4 in	**Boring Total Depth:** 0.8 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, no staining.	
0.5	0.8	0.0	moist	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, coal, ceramic), moist, no odor.	H1A6-0.3-0.8

Comments: No COPR/GGM identified.

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Boring ID: H1A7

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611575.3125
Date Started Drilling: 9/20/2012 12:10:00 PM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682961.375
Date Finished Drilling: 9/20/2012 1:15:00 PM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, green staining.	
0.5		0.0	wet	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, coal, glass, debris), wet, no odor.	H1A7-0.4-0.9

Comments: Green staining identified.

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Boring ID: H1A8

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611575.875
Date Started Drilling: 9/20/2012 1:15:00 PM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682975.4375
Date Finished Drilling: 9/20/2012 1:25:00 PM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, no staining.	
0.5		0.0	dry	1	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, coal, debris), dry, no odor.	H1A8-0.4-0.9

Comments: No COPR/GGM identified.

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Boring ID: H1A9

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611593
Date Started Drilling: 2/21/2014 8:30:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682979
Date Finished Drilling: 2/21/2014 9:00:00 AM	**Core Size:** 3.0 in	**Boring Total Depth:** 4 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H1A9		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE, no staining.	H1A9-CT
		0.0	moist	FILL		medium to coarse SAND, with medium gravel and fill material, (7.5YR 3/3) dark brown, moist, no odor, no staining.	H1A9-CB
1							H1A9-0.5-1.0
		0.0	dry	FILL		crushed CONCRETE, with medium sand and ash, (7.5YR 6/1) gray, non plastic, loose, dry, no odor, no staining.	
2	3.5						
		0.0	dry	FILL		medium SAND, with ash and fine to medium gravel, (7.5YR 5/2) brown, non plastic, loose, dry, no odor, no staining.	H1A9-2.5-3.0
3							
							H1A9-3.5-4.0
4							

Comments: No COPR/GGM identified.

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732.564.3200 office telephone

Boring ID: H1B

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/10/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/10/2011	**Core Size:** 2 in	**Boring Total Depth:** 35 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 10.6 ft
Physical Location: Inside building - 1st transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	1	0	Dry	1	Fill		Concrete, no staining.	H1B-0.2
			Dry	6	Fill		Black fine to medium SAND, some Silt, trace Glass, loose. No odor.	
2			Dry	6	Fill		No Recovery	
3								
4								
5	1.2	0						H1B-5.0
6			Moist	6	Fill		Black SILT, little fine to medium Sand, trace Cinders and Ash, loose/soft. No odor.	
7			Moist	6	Fill		No Recovery	
8								
9								
10	0.8	0						H1B-10.0
11			Wet	6	Fill		Black SILT, little fine to medium Sand, trace Cinders and Ash, moist to wet at 10.6 ft, loose/soft. No odor.	
12			Wet	6	Fill		No Recovery	
13								
14								
15	1	0						H1B-15.0
16			Wet	6	Fill		Black SILT, little medium angular Gravel, little fine to medium Sand, trace Organics, soft/loose. Slight oil odor.	
17			Wet	6	Fill		No Recovery	
18								
19								
20	3.2	0						H1B-20.0
21		0	Wet	8	SM		Gray (Gley1 5/0) fine to medium SAND and SILT, little to trace fine rounded Gravel, medium dense. Slight naphthalene odor.	
22		0						
23			Wet	10	SM		Weak Red (2.5YR 5/2) fine to medium SAND, little to trace SILT, loose. Slight naphthalene odor.	
			Wet	10	SM		No Recovery	
24								
25	2.6	0						H1B-25.0
26		0	Wet	10	SP		Reddish Brown (2.5YR 5/3) fine to medium SAND, trace Silt and coarse Sand, medium dense. Naphthalene odor.	
27								
28			Wet	10	SP		No Recovery	
29								
30	2	0						H1B-30.0
31		0	Wet	10	SP		Reddish Brown (2.5YR 5/4) fine to medium SAND graded to very fine SAND, medium dense. No odor.	
32								
33			Wet	10	SP		No Recovery	
34								
35							End of boring at 35 ft.	

Comments: No COPR/GGM identified at this location.

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Boring ID: H2

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/10/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/10/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 10.8 ft
Physical Location: Inside building - 2nd transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	2.5	0	Dry	1	Fill		Concrete, no staining.	H2-0.6
		0	Dry	6	Fill		Brown (7.5YR 5/3) ASH and CINDERS, loose. No odor.	~~H2-0.6X~~
2								H2-2.0
			Dry	6	Fill		Brown (7.5YR 4/3) fine SAND and SILT, little medium Sand,	
3			Dry	6	Fill		trace fine angular Gravel, loose. No odor.	
4							No Recovery	
5	1	0						H2-5.0
6			Moist	3	Fill		Brown (7.5YR 4/3) fine SAND and SILT, little Ash and Cinder, loose. No odor.	
			Moist	3	Fill		No Recovery	
7								
8								
9								
10	0.8	0						H2-10.0
11			Wet	3	Fill		Brown (7.5YR 4/3) fine SAND and SILT, little Ash, Cinder, and	
			Wet	3	Fill		fine angular to rounded Gravel, moist to wet at 10.8 ft, medium dense. No odor.	
12							No Recovery	
13								
14								
15	4	0						H2-15.0
16		0	Wet	6	Fill		Black ASH, some Cinders, little Brown (7.5YR 4/3) fine Sand and Silt, loose. No odor.	H2-16.0
17		0	Moist	3	Fill		Brown fine SAND and SILT, trace fine angular Gravel, medium dense. No odor.	
18		0	Moist	7	OH		Dark Brown (7.5YR 3/4) PEAT, high organic content, little Silty Clay, medium stiff. Sulfur odor.	H2-18.0
19								
20			Moist	7	OH		No Recovery	
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H2A

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/10/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/10/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 2nd transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3	0	Dry	1	Fill		Concrete, no staining.	H2A-0.4
		0	Dry	6	Fill		Brown (7.5YR 4/2) ASH, some Cinders, loose. No odor.	
2		0						H2A-2.0
3								
4			Dry	6	Fill		No Recovery	
5	2	0						H2A-5.0
6		0	Moist	6	Fill		Brown (7.5YR 4/2) ASH, some Cinders, loose. No odor.	H2A-6.0
7			Moist	6	Fill		Black SILT and CINDERS, little Ash, medium dense. No odor.	
8			Moist	6	Fill		No Recovery	
9								
10	0.9	0						H2A-10.0
11			Moist	6	Fill		Black SILT and CINDERS, little Ash, medium dense. No odor.	
12			Wet	6	Fill		No Recovery	
13								
14								
15	0.2	0						H2A-15.0
16			Wet	7	OH		Brown (7.5YR 4/2) PEAT, some Silt, little organics. Strong sulfur odor.	
17			Wet	7	OH		No Recovery	
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H2B

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/10/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/10/2011	**Core Size:** 2 in	**Boring Total Depth:** 35 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 2nd transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	0.2	0	Dry	1	Fill		Concrete, no staining.	
			Dry	3	Fill		No Recovery	
2								
3								
4								
5	1	0						H2B-5.0
6			Dry	6	Fill		Black SILT, little fine to medium Sand, little Concrete at 5.2-5.3 ft, trace Coal fragments, loose. No odor.	
			Dry	6	Fill		No Recovery	
7								
8								
9								
10	0.3	0						H2B-10.0
11			Dry	6	Fill		Black SILT, little fine to medium Sand, trace coal fragments and glass, loose. No odor. Water at 11 ft.	
			Wet	6	Fill		No Recovery	
12								
13								
14								
15	0.3	0						H2B-15.0
16			Wet	6	Fill		Black fine to coarse SAND and SILT, trace Fill (ceramics), loose. Strong naphthalene odor.	
			Wet	6	Fill		No Recovery	
17								
18								
19								
20	2.5	0						H2B-20.0
21		0	Moist	7	OH		Black-stained to Dark Brown (7.5YR 3/4) PEAT, high organic content, some to little Silty Clay, stiff. Sulfur odor.	
22		0	Moist	8	SM		Gray (Gley1 5/0) SILT and fine to medium SAND, trace fine angular Gravel, dense. No odor.	
23			Moist	8	SM		No Recovery	
24								
25	3.7	0						H2B-25.0
26		0	Wet	8	SP		Gray (Gley1 5/0) fine SAND, trace Silt, loose. Slight naphthalene odor.	
27		0	Wet	10	SW		Weak Red (10YR 4/3) fine to coarse SAND graded to fine to medium SAND, trace Silt, loose. Slight naphthalene.	
28		0						
29			Wet	10	SW		No Recovery	
30	0							
31			Wet	10	SW		No Recovery in this interval.	
32								
33							End of boring at 35 ft.	
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H3

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/11/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/11/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 3rd transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	2.6	0	Dry	1	Fill		Concrete, no staining.	H3-0.5
		0	Dry	6	Fill		Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, loose. No odor.	
2								
3			Dry	6	Fill		No Recovery	
4								
5	1.6	0						H3-5.0
6		0	Dry	6	Fill		Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, loose. No odor.	H3-6.0
7			Dry	6	Fill		No Recovery	
8								
9								
10	0.2	0						H3-10.0
11			Moist	6	Fill		Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, loose. No odor. Water at 11 ft.	
			Wet	6	Fill		No Recovery	
12								
13								
14								
15	0.1	0						
16			Wet	7	OH		Brown (7.5YR 4/3) SILT and ASH, little Cinders, coal fragments and glass, trace Peat, loose. No odor.	
			Wet	7	OH		No Recovery	
17								
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H3A

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/11/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/11/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 3rd transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	1.9	0	Dry	1	Fill		Concrete, no staining.	H3A-0.5
			Dry	3	Fill		Dark Brown (7.5YR 3/4) SILT and FILL (Ash, Cinders, coal, glass), loose. No odor.	
2								
3			Dry	3	Fill		No Recovery	
4								
5	3	0						H3A-5.0
6		0	Dry	3	Fill		Dark Brown (7.5YR 3/4) SILT and FILL (Ash, Cinders, coal, glass), loose. No odor.	
			Dry	3	Fill			
7		0	to moist				Black SILT, little Organics, trace Peat, soft. No odor.	H3A-7.0
8								
			Moist	6	Fill		Light Brown (7.5YR 6/3) ASH and CINDERS, loose. No odor.	
9			Moist	6	Fill		No Recovery	
10	0.2	0						H3A-10.0
			Moist	3	Fill		Dark Brown (7.5YR 3/4) SILT and FILL (Ash, Cinders, coal, glass), loose. No odor. Water at 11 ft.	
11			Wet	3	Fill		No Recovery	
12								
13								
14								
15	0.2	9.7						H3A-15.0
			Moist	7	OH		Dark Brown (7.5YR 3/4) PEAT, Organics, little Silty Clay, medium stiff. Sulfur odor.	
16			Moist	7	OH		No Recovery	
17								
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H3B

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/11/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/11/2011	**Core Size:** 2 in	**Boring Total Depth:** 35 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 10.0 ft
Physical Location: Inside building - 3rd transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	1.65	0	Dry	1	Fill		Concrete, no staining.	
		0	Dry	3	Fill		Dark Brown (7.5YR 3/2) SILT, some Ash, little Concrete and fine to medium Sand, loose. No odor.	H3B-1.5
2			Dry	3	Fill		No Recovery	
3								
4								
5	0.6	0						H3B-5.0
6			Dry	3	Fill		Dark Brown (7.5YR 3/2) SILT, some Ash, little fine to medium Sand and brick fragments, loose. No odor.	
			Dry	3	Fill		No Recovery	
7								
8								
9								
10	0.2	0						H3B-10.0
11			Wet	6	Fill		Very Dark Gray (7.5YR 3/1) ASH and fine to medium SAND, little Silt, Cinders, and Wood, soft. No odor.	
			Wet	6	Fill		No Recovery	
12								
13								
14								
15	2.9	4.7						H3B-15.0
16		9.2	Wet	6	Fill		Very Dark Gray (7.5YR 3/1) ASH and fine to medium SAND, little Silt, Cinders, and Wood, soft. No odor.	
			Moist	7	OH		Dark Brown (7.5YR 3/2) PEAT, high organic content, little Silty Clay, medium stiff. Sulfur odor.	
17		28						H3B-17.0
18								
19			Moist	7	OH		No Recovery	
20	2.6	3.8						H3B-20.0
21		10.2	Moist	7	OH		Dark Brown (7.5YR 3/2) PEAT, high organic content, little Silty Clay, medium stiff. Sulfur odor.	
			Wet	8	SP-SM		Gray (Gley1 5/0) fine SAND and SILT, trace coarse Sand, dense. Slight naphthalene odor.	
22								
23			Wet	8	SP-SM		No Recovery	
24								
25	2.5	4.6						H3B-25.0
26		7.8	Wet	8	SP-SM		Gray (Gley1 5/0) fine SAND and SILT, trace coarse Sand, dense. Slight naphthalene odor.	H3B-25.0X
			Wet	10	SP-SM		Weak Red (10YR 5/3) fine to medium SAND, little to trace SILT, little coarse Sand, medium dense. Naphthalene odor.	
27								
28			Wet	10	SP-SM		No Recovery	
29								
30	0.8	2						H3B-30.0
31			Wet	10	SP		Weak Red (10YR 5/3) fine SAND, trace Silt, loose. No odor.	
			Wet	10	SP		No Recovery	
32								
33								
34							End of boring at 35 ft.	
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H4

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/11/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/11/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 4th transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	1.9	0	Dry	1	Fill		Concrete, no staining.	H4-0.5
		0	Dry	6	Fill		Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor.	
2								
3			Dry	6	Fill		No Recovery	
4								
5	2.9	0						H4-5.0
6		0	Dry	6	Fill		Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor.	
			Dry	1	Fill			
7		0	Moist	6	Fill		Concrete, dry, no staining	H4-7.0
8							Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor.	
9			Moist	6	Fill		No Recovery	
10	0.2	0						H4-10.0
11			Moist	6	Fill		Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor. Water at 11 ft.	
			Wet	6	Fill			
12							No Recovery	
13								
14								
15	0.1	0						H4-15.0
16			Wet	6	Fill		Black ASH and CINDERS, some Reddish Brown (5YR 5/4) very fine Gravelly Sand, loose to medium dense. No odor.	
			Wet	6	Fill			
17							No Recovery	
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H4A

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/11/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/11/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 4th transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	2.3	0	Dry	1	Fill		Concrete, no staining.	H4A-0.5
		0	Dry	6	Fill		Reddish Brown (5YR 5/3) very fine Gravelly SAND and Black CINDERS, loose. No odor.	
2								H4A-2.0
3			Dry	6	Fill		No Recovery	
4								
5	2.1	0						H4A-5.0
6		0	Dry	6	Fill		Reddish Brown (5YR 5/3) very fine Gravelly SAND and Black CINDERS, loose. No odor.	
7			Moist	6	Fill		Black fine SAND and CINDERS, medium dense. No odor.	H4A-7.0
8			Moist	6	Fill		No Recovery	
9								
10	0.3	0						H4A-10.0
11			Moist	6	Fill		Black fine SAND and CINDERS, loose. No odor. Water at 11 ft.	
			Wet	6	Fill		No Recovery	
12								
13								
14								
15	0.1	0						
16			Wet	6	Fill		Black SILT, ASH and Ceramics, loose. No odor.	
			Wet	6	Fill		No Recovery	
17								
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H4A1

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611413.875
Date Started Drilling: 9/21/2012 8:00:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682808.4375
Date Finished Drilling: 9/21/2012 8:25:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 1 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, no staining.	
0.5	1	0.0	dry	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, some Fill Material (slag, coal, wood fragments), dry, no odor.	H4A1-0.5-1.0
1.0								

Comments: No COPR/GGM identified.

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Boring ID: H4A10

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611421
Date Started Drilling: 3/7/2014 10:20:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682794
Date Finished Drilling: 3/7/2014 10:35:00 AM	**Core Size:** 3 in	**Boring Total Depth:** 5 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H4A10		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE	H4A10-CT
		0.0	dry	FILL		ASH, with sand and cinders, (10YR 3/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining, with fill material and glass fragments.	H4A10-CB
1							H4A10-0.5-1.0
2	2.7						
							H4A10-2.5-3.0
3		0.0	dry to slight moist	FILL		SAND, little silt and ash, (7.5YR 4/2) brown, dry to slightly moist, no odor, no staining, and cinders.	
4				NR		NO RECOVERY	
5							

Comments: No COPR/GGM identified.

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Boring ID: H4A11

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611398
Date Started Drilling: 3/7/2014 9:37:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682809
Date Finished Drilling: 3/7/2014 9:50:00 AM	**Core Size:** 3 in	**Boring Total Depth:** 5 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H4A11		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE	H4A11S-CT
		0.0	dry to slight moist	FILL		ASH, and cinders, some fine sand, (10YR 3/4) dark yellowish brown, non plastic, loose, dry to slightly moist, no odor, no staining.	H4A11S-CB
1							H4A11S-0.5-1.0
		0.0		FILL		ASH, little fine sand, trace silt, (5YR 3/4) dark reddish brown, non plastic, loose, slightly moist, no odor, no staining.	
2		0.0	slightly moist	FILL		ASH, and cinders, some fine sand, (10YR 3/4) dark yellowish brown, non plastic, loose, dry to slightly moist, no odor, no staining.	
	2.5						H4A11S-2.5-3.0
3		0.0	dry to slight moist	FILL NR		fine SAND, some silt, (7.5YR 4/2) brown, non plastic, soft, slightly moist, no odor, no staining.	
4			slightly moist			NO RECOVERY	
5							

Comments: No COPR/GGM identified.

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Boring ID: H4A12

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611400
Date Started Drilling: 3/7/2014 9:30:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682816
Date Finished Drilling: 3/7/2014 9:45:00 AM	**Core Size:** 3.0 in	**Boring Total Depth:** 5 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H4A12		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE	H4A12-CT
1		0.0	dry to slight moist	FILL		ASH, with cinders, little sand, (10YR 3/6) dark yellowish brown, non plastic, loose, dry to slightly moist.	H4A12-CB H4A12-0.5-1.0
2							
3	2.7	0.0	dry to slight moist	FILL		fine to medium SAND, with brick, (10YR 5/4) yellowish brown, non plastic, loose, dry to slightly moist, no odor, no staining, with fill material.	H4A12-2.5-3.0
		0.0		FILL			
		0.0		FILL		ASH, with cinders, little sand, (10YR 3/6) dark yellowish brown, non plastic, loose, dry to slightly moist.	
4			dry to slight moist	NR		fine SAND, with silt, trace fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry to slightly moist, no odor, no staining, with cinders and fill material.	
5			dry to slight moist			NO RECOVERY	

Comments: No COPR/GGM identified.

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Boring ID: H4A2

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611413.625
Date Started Drilling: 9/21/2012 8:25:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682801.375
Date Finished Drilling: 9/21/2012 8:55:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, no staining	
0.5		0.0	moist	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, some Fill Material (slag, coal, glass, wood fragments, crushed fill), moist, no odor.	H4A2-0.4-0.9

Comments: No COPR/GGM identified.

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Boring ID: H4A3

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611406.5625
Date Started Drilling: 9/21/2012 8:55:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682801.6875
Date Finished Drilling: 9/21/2012 9:55:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, no staining.	
0.5		0.0	moist	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, some Fill Material (slag, coal, glass, wood fragments, crushed fill), moist, no odor.	H4A3-0.4-0.9

Comments: No COPR/GGM identified.

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Boring ID: H4A4

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611406.8125
Date Started Drilling: 9/21/2012 10:00:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682808.75
Date Finished Drilling: 9/21/2012 10:30:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 1.1 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, no staining.	
0.5	1.1							
		0.0	dry	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, some Fill Material (slag, coal, wood fragments, crushed fill), dry, no odor.	H4A4-0.6-1.1
1.0								

Comments: No COPR/GGM identified.

PPG - PPG_LOGS.GDT - 10/31/13 13:22

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Boring ID: H4A4V

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611407
Date Started Drilling: 3/7/2014 10:40:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682814
Date Finished Drilling: 3/7/2014 3:10:00 PM	**Core Size:** 3 in	**Boring Total Depth:** 20 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H4A4V		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE	H4A4V-CT
		0.0	dry	FILL		ASH, with cinders and fine sand, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining, with fill material.	H4A4V-CB
1							H4A4V-0.5-1.0
2	3						H4A4V-2.0-2.5
3							H4A4V-3.0-3.5
				NR		NO RECOVERY	
5		0.0	slightly moist	FILL		fine to medium SAND, little fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	H4A4V-5.0-5.5
6		0.0	slightly moist	FILL		fine SAND, some silt, (7.5YR 4/3) brown, non plastic, soft, slightly moist, no odor, no staining.	
7	3.5	0.0	dry	FILL		ASH, with cinders and fine sand, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining, with fill material.	H4A4V-7.0-7.5
8							H4A4V-8.0-8.5
9				NR		NO RECOVERY	
10		0.0	moist	FILL		fine to medium SAND, with fine to coarse gravel, little silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	H4A4V-10.0-10.5
11							
12		0.0	wet	FILL		medium SAND, with silt, (7.5YR 4/1) dark gray, non plastic, loose, wet, no odor, no staining.	H4A4V-12.0-12.5
	4.5						
13		0.0	wet	FILL		medium to coarse SAND, with silt, little coarse gravel, (7.5YR 4/1) dark gray, non plastic, loose, wet, no odor, no staining.	
14							H4A4V-14.0-14.5
				NR		NO RECOVERY	
15		0.0	wet	FILL		medium SAND, trace fine gravel, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	
16							H4A4V-16.0-16.5
		0.0	moist	OL		UNDorg SILT, some organic, (7.5YR 4/1) dark gray, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
17	3	0.0	moist	PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, soft, moist, moderate organic odor, no staining. Soils consistent with MM.	
18				NR		NO RECOVERY	
19							
20							

Comments: NO COPR/GGM identified.

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Boring ID: H4A5

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611417.5625
Date Started Drilling: 9/21/2012 10:30:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682811.8125
Date Finished Drilling: 9/21/2012 11:10:00 AM	**Core Size:** 4 in	**Boring Total Depth:** 1.1 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				1	CONCRETE		CONCRETE, no staining.	
0.5	1.1							
		0.0	moist	3	FILL		Dark brown (7.5YR 3/2) silty SAND, some fine to coarse angular Gravel, some Fill Material (slag, coal, crushed fill), moist, no odor.	H4A5-0.6-1.1
1.0								

Comments: No COPR/GGM identified.

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Boring ID: H4A6

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611417
Date Started Drilling: 9/21/2012 11:15:00 AM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682797.75
Date Finished Drilling: 9/21/2012 1:15:00 PM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, no staining.	
0.5		0.0	wet	3	FILL		Dark gray (7.5YR 4/1) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, brick, debris), wet, no odor.	H4A6-0.4-0.9

Comments: No COPR/GGM identified.

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Boring ID: H4A7

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611402.875
Date Started Drilling: 9/21/2012 12:25:00 PM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682798.25
Date Finished Drilling: 9/21/2012 12:45:00 PM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, no staining.	
0.5		0.0	moist	3	FILL		Brown (7.5YR 4/3) silty SAND, some fine to coarse angular Gravel, little Fill Material (slag, glass, debris), moist, no odor.	H4A7-0.4-0.9

Comments: No COPR/GGM identified.

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Boring ID: H4A8

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60154801	**Drilling Method:** Soft Dig	**Coordinates (NJSPNAD83) x:** 611403.5
Date Started Drilling: 9/21/2012 12:10:00 PM	**Rig Type:** NA	**Coordinates (NJSPNAD83) y:** 682812.375
Date Finished Drilling: 9/21/2012 12:25:00 PM	**Core Size:** 4 in	**Boring Total Depth:** 0.9 ft
Logged By: Ben Daniels	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Halsted		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9			1	CONCRETE		CONCRETE, no staining.	
0.5		0.0	wet	3	FILL		Dark gray (7.5YR 4/1) silty SAND, some fine to coarse angular Gravel, little Fill Material (glass, debris, crushed fill), wet, no odor.	H4A8-0.4-0.9

Comments: No COPR/GGM identified.

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Boring ID: H4A9

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611421
Date Started Drilling: 3/7/2014 10:00:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682816
Date Finished Drilling: 3/7/2014 10:15:00 AM	**Core Size:** 3.0 in	**Boring Total Depth:** 4 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H4A9		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE	H4A9-CT
		0.0	dry	FILL		ASH, with cinders and fine sand, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining, with fill material and glass fragments.	H4A9-CB
1							H4A9-0.5-1.0
2	3.5						
3							H4A9-2.5-3.0
		0.0	dry to slight moist	FILL		fine SAND, trace silt and ash, (7.5YR 3/4) dark brown, non plastic, loose, dry to slightly moist, no odor, no staining.	
4							

Comments: No COPR/GGM identified.

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Boring ID: H4B

Project Name: Halsted Investigation	**Drilling Company:** SGS	
Project Number: 60154801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:**
Date Started Drilling: 12/11/2011	**Rig Type:** 7822 DT	**Coordinates (NJSPNAD83) y:**
Date Finished Drilling: 12/11/2011	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 11.0 ft
Physical Location: Inside building - 4th transect		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	1.9	0	Dry	1	Fill		Concrete, no staining.	H4B-0.5
		0	Dry	6	Fill		Black SILT and Fill Material (Brick, coal, ash, concrete, glass) little Brown (7.5YR 5/4) fine Sand, loose. No odor.	
2								
3			Dry	6	Fill		No Recovery	
4								
5	2.4	0						H4B-5.0
6		310	Dry to moist	6	Fill		Black SILT and Fill Material (Brick, coal, ash, concrete, glass) little Brown (7.5YR 5/4) fine Sand, loose, dry to moist at 6.1 ft. High PID reading at 6.1-6.2 ft. Strong Naphthalene odor.	
7			Moist	3	Fill		Brown (7.5YR 5/4) fine Gravelly SAND, medium dense. No odor.	H4B-7.0
8			Moist	3	Fill		No Recovery	
9								
10	1.5	0						H4B-10.0
11		0	Wet	6	Fill		Black ASH and CINDERS, little Silt, moist to wet at 11 ft, loose. No odor.	
12			Wet	6	Fill		No Recovery	
13								
14								
15	0.2	0						H4B-15.0
16			Wet	6	Fill		Gray (7.5YR 5/1) ASH and CINDERS, some Silt, little fine Sand, loose. No odor.	
			Wet	6	Fill		No Recovery	
17								
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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Boring ID: H5

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611431
Date Started Drilling: 2/26/2014 8:45:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682859
Date Finished Drilling: 2/26/2014 12:20:00 PM	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - Inside building		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	0.3	0.0		CONCRETE		CONCRETE, no staining.	H5-CT
		0.0	dry	FILL		ASH, with ceramics, no cinders, (10YR 6/1) gray, non plastic, loose, dry, no odor, no staining.	H5-CB
1							H5-0.3-0.8
2							H5-2.0-2.5
	5	0.0	damp	FILL		fine to coarse sandy ASH, light gray, damp, mixed fill including glass, brick fragments and cinders, no odor.	
3							
4							H5-4.0-4.5
5							
		0.0	dry	FILL		ASH, with ceramics, no cinders, (10YR 6/1) gray, non plastic, loose, dry, no odor, no staining.	
6		0.0	dry to slight moist	FILL		fine to medium SAND, some silt and ceramics, (7.5YR 3/3) dark brown, non plastic, soft, dry to slightly moist, no odor, no staining.	H5-6.0-6.5
7		0.0	moist	FILL		fine to coarse sandy ASH, dark gray-black, 10YR 6/1, trace cinders with mixed fill, moist, very loose, no odor, dark grey staining.	
	5						
8							H5-8.0-8.5
9							
10							H5-10.0-10.5
		0.0	moist to wet	FILL		medium to coarse SAND, with fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose to soft, moist to wet, no odor, no staining.	
11							
12		0.0	moist to wet	FILL		fine to medium silty SAND, brown, 7.5 YR 4/1, moist to wet, fine gravel, loose, non-plastic, no odor or staining,	H5-12.0-12.5
	5						
13							
14							H5-14.0-14.5
15							
		0.0	moist to wet	FILL		fine to coarse gravelly SAND, dark gray, 7.5YR 4/1, trace silt, mixed fill including glass and fine debris, moist to wet, no odor or staining.	
16							H5-16.0-16.5
		0.0		PT		fine silty PEAT (degraded vegetated material), dark brown, silty, firm, 80% organic fibers, 20% organic silt, slight sulfur odor. Soils consistent with UNDorg.	
17	4.7						
18		0.0	damp to moist	PT		fine organic SILT, dark gray, 10YR 6/1, 80% organic silt, firm, pliable to plastic, sulfur odor, no staining, damp to moist. Soils consistent with UNDno.	H5-18.0-18.5
19							
20							H5-20.0-20.5

Comments: No COPR/GGM identified.

PPG - PPG_LOGS.GDT - 5/9/14 16:43

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Boring ID: H5A

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611449
Date Started Drilling: 2/26/2014 11:50:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682842
Date Finished Drilling: 2/26/2014 12:25:00 PM	**Core Size:** 3.0 in	**Boring Total Depth:** 20 ft
Logged By: FM	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - Inside building		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE, competent.	H5A-CT
1	4.5	0.0	damp to moist	FILL		fine to coarse sandy GRAVEL, gray, 10YR 6/1, damp to moist, trace gray silt, loose, no odor, no staining.	H5A-CB H5A-0.5-1.0
2		0.0	damp	FILL		fine to coarse gravelly ASH, dark gray, 10YR 6/1, mixed fill including brick fragments and glass, coal slag, damp.	H5A-2.0-2.5
3							
4							H5A-4.0-4.5
5	5	0.0		FILL		fine to coarse gravelly SAND, dark brownish gray, 10YR 6/1, mixed fill including glass and tile fragments, coal slag.	
6							H5A-6.0-6.5
7							
8							H5A-8.0-8.5
9		0.0	damp	FILL		fine to coarse sandy ASH, dark gray to black, some silt, mixed fill including cinders, glass and tile, damp.	
10	5	0.0	moist	FILL		fine to coarse sandy ASH, gray, loose, trace silty mixed fill material including coal slag and cinders, moist, no odor or staining.	H5A-10.0-10.5
11							
12							H5A-12.0-12.5
13							
14		0.0	wet	FILL		coarse poorly graded SAND, dark gray-black, loose, some gray silt, 10% fine gravel, wet, no odor or staining.	H5A-14.0-14.5
15	5	0.0	moist	FILL		fine to coarse silty SAND, gray with thin brown layers of silt, trace fine gravel, loose, poorly sorted, moist, no odor or staining.	
16							H5A-16.0-16.5
17		0.0	damp	PT		fine silty PEAT (degraded vegetated material), dark brown, 80% organic fibers, 20% organic silt, slight sulfur odor, damp. Soils consistent with UNDorg.	
18							H5A-18.0-18.5
19		0.0	damp to moist	PT		fine clayey SILT, dark gray to black, firm-hard, plastic-pliable, damp-moist, no odor or staining. Soils consistent with UNDno.	
20							H5A-20.0-20.5

Comments: No COPR/GGM identified.

PPG - PPG_LOGS.GDT - 5/9/14 16:43

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: H5B

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611468
Date Started Drilling: 2/26/2014 1:00:00 PM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682823
Date Finished Drilling: 2/26/2014 12:44:00 PM	**Core Size:** 3.0 in	**Boring Total Depth:** 20 ft
Logged By: FM	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - Inside building		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	0.5	0.0		CONCRETE		CONCRETE	H5B-CT
1	4.5	0.0	damp to moist	FILL		fine to coarse sandy ASH, dark gray, 10YR 6/1, cinders and mixed fill including glass and brick fragments, damp to moist, no odor or staining.	H5B-CB H5B-0.5-1.0
2							
3							H5B-2.0-2.5
4		0.0	damp to moist	FILL		fine to coarse sandy ASH, gray-brown, some cinders, trace silt, damp to moist, no odor or staining.	H5B-4.0-4.5
5	5	0.0	damp to moist	FILL		fine to coarse sandy CINDERS, gray to brown, mixed fill, ash and coal slag, loose, non-plastic, damp-moist, no odor or staining.	
6							H5B-6.0-6.5
7							
8							H5B-8.0-8.5
9							
10	5	0.0	moist	FILL		fine to coarse sandy ASH, light gray, 10YR 6/2, loose and hard, ash, cinders and coal slag mix, trace glass and brick fragments, no odor or staining, moist.	H5B-10.0-10.5
11							
12							H5B-12.0-12.5
13		0.0	moist to wet	FILL		fine to coarse sandy CINDERS, dark gray, ash and coal slag, trace gray silt, moist to wet, no odor or staining.	
14							H5B-14.0-14.5
15	5	0.0	wet to very wet	FILL		fine to medium silty SAND, gray, 10YR 6/1, 20% ash and cinders, loose, non-plastic, wet to very wet, no odor or staining.	
16							H5B-16.0-16.5
17		0.0	damp	PT		fine silty PEAT (degraded vegetated material), brown-gray, 80% organic fibers, 20% organic silt, firm, brittle, damp, slight sulfur odor, no staining. Soils consistent with UNDorg.	
18							H5B-18.0-18.5
19							
20							H5B-20.0-20.5

Comments: No COPR/GGM identified.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: H6

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611379
Date Started Drilling: 3/1/2014 2:40:00 PM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682802
Date Finished Drilling: 3/1/2014 3:10:00 PM	**Core Size:** 2 in	**Boring Total Depth:** 12 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H6		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	0.4	0.0		CONCRETE		CONCRETE, no staining.	H6-CT
1		0.0	wet	FILL		fine to medium SAND, with medium gravel, little ash, cinders, (7.5YR 4/2) brown, loose, wet, no odor, no staining.	H6-CB H6-0.4-0.9
2	2.6	0.0	dry	FILL		fine to medium SAND, with ash, trace cinders, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	H6-2.0-2.5
3				NR		NO RECOVERY	
4		0.0	dry	FILL		fine to medium SAND, with ash, trace cinders, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	H6-4.0-4.5
5		0.0	dry to moist	FILL		fine to medium SAND, (5YR 4/4) reddish brown, non plastic, soft to loose, dry to moist, no odor, no staining.	
6	3						H6-6.0-6.5
7				NR		NO RECOVERY	
8		0.0	dry to moist	FILL		fine to medium SAND, (5YR 4/4) reddish brown, non plastic, soft to loose, dry to moist, no odor, no staining.	H6-8.0-8.5
9		0.0	moist	FILL		fine to medium SAND, with ash and cinders, (7.5YR 4/1) dark gray, non plastic, soft, moist, no odor, no staining.	
10	2.6	0.0	moist	FILL		fine SAND, with ash and cinders, (7.5YR 2.5/1) black, non plastic, soft to loose, moist, no odor, no staining.	H6-10.0-10.5
11				NR		NO RECOVERY	
12							

Comments: No COPR/GGM identified.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: H6A

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611394
Date Started Drilling: 3/1/2014 9:00:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682783
Date Finished Drilling: 3/1/2014 2:30:00 PM	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H6A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	0.4	0.0		CONCRETE		CONCRETE	H6A-CT
0		0.0	slightly moist	FILL		fine to medium SAND, some fine to medium gravel, little ash, (7.5YR 3/4) dark brown, loose, slightly moist, no odor, no staining.	H6A-CB
1							H6A-0.4-0.9
2	2.6	0.0	dry	FILL		fine to medium SAND, with ash and cinders, (10YR 4/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	H6A-2.0-2.5
3				NR		NO RECOVERY	
4		0.0	dry	FILL		fine to medium SAND, some ash, little cinders, (5YR 3/2) dark reddish brown, non plastic, loose, dry, no odor, no staining.	H6A-4.0-4.5
5	4						
6		0.0	dry to slight moist	FILL		medium SAND, (5YR 4/3) reddish brown, non plastic, loose, dry to slightly moist, no odor, no staining.	H6A-6.0-6.5
7							
8		0.0	dry to slight moist	FILL		medium SAND, (5YR 4/3) reddish brown, non plastic, loose, dry to slightly moist, no odor, no staining.	H6A-8.0-8.5
9			wet	FILL		fine to medium SAND, trace ash and fine gravel, (7.5YR 3/1) very dark gray, non plastic, soft to loose, wet, no odor, no staining.	
10	2.6						H6A-10.0-10.5
11				NR		NO RECOVERY	
12		0.0	wet	FILL		fine to medium SAND, with medium gravel and ash, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	H6A-12.0-12.5
13							
14	2.5						H6A-14.0-14.5
15				NR		NO RECOVERY	
16		0.0	wet	FILL		fine to medium SAND, with medium gravel and ash, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	H6A-16.0-16.5
17							
18	4	2.3	moist	OL		UNDorg, with fibers and organic silt, (7.5YR 2.5/2) very dark brown, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	H6A-18.0-18.5
19		8.6	moist	PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, soft, moist, moderate organic odor. Soils consistent with MM.	
20							

Comments: No COPR/GGM identified.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: H6B

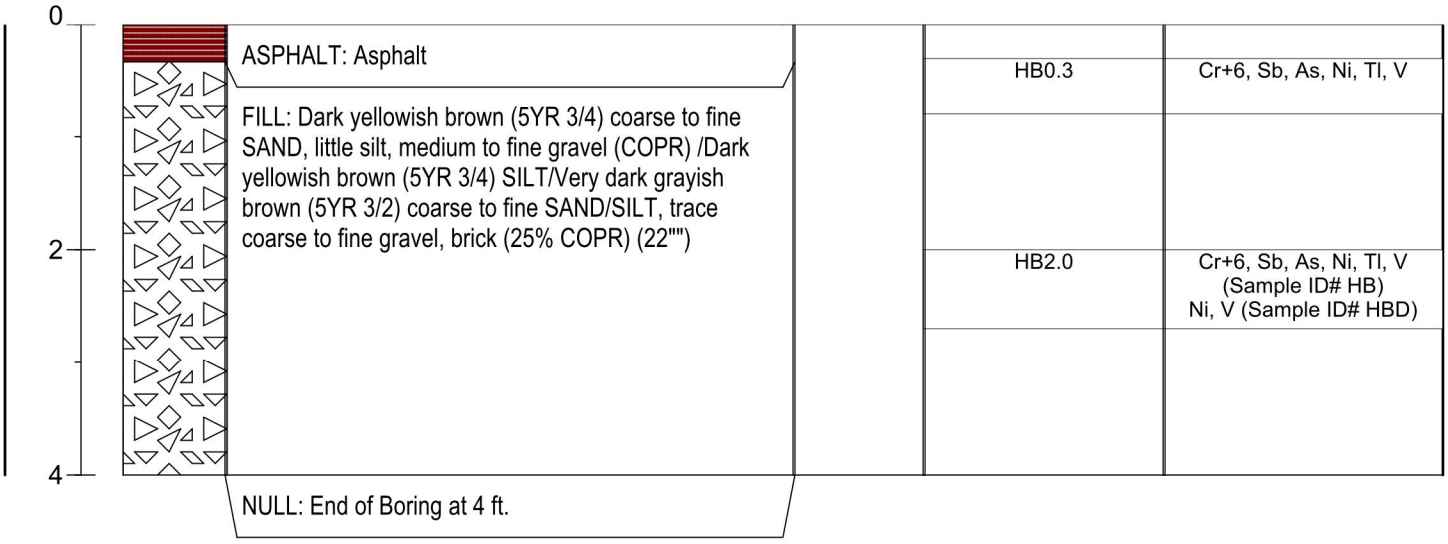
Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 611412
Date Started Drilling: 3/1/2014 11:45:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682764
Date Finished Drilling: 3/1/2014 1:20:00 PM	**Core Size:** 2 in	**Boring Total Depth:** 20 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - H6B		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	0.4	0.0		CONCRETE		CONCRETE, no staining.	H6B-CT
0		0.0	slightly moist	FILL		fine to medium SAND, and ash, trace fine gravel, (10YR 6/4) light yellowish brown, loose, slightly moist, no odor, no staining.	H6B-CB
1							H6B-0.4-0.9
2	2.6	0.0	dry	FILL		fine to medium SAND, with ash and ceramics, (10YR 4/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	H6B-2.0-2.5
3		0.0	dry	FILL		medium SAND, with fill material, little cinders, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
4				NR		NO RECOVERY	H6B-4.0-4.5
5	3	0.0	dry to slight moist	FILL		medium SAND, with fill material, little cinders, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
6						fine to medium SAND, trace fine gravel, (5YR 5/3) reddish brown, non plastic, loose, dry to slightly moist, no odor, no staining.	H6B-6.0-6.5
7				NR		NO RECOVERY	
8	3	0.0	dry	FILL		medium SAND, with fill material, little cinders, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	H6B-8.0-8.5
10		0.0	slightly moist	FILL		ASH, with cinders, some fine to medium gravel, (7.5YR 5/1) gray, loose, slightly moist, no odor, no staining.	H6B-10.0-10.5
11				NR		NO RECOVERY	
12	3	0.0	slightly moist	FILL		ASH, with cinders, some coal, fill material, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	H6B-12.0-12.5
14							H6B-14.0-14.5
16	4	0.0	slightly moist	FILL		ASH, with cinders, some coal, fill material, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	H6B-16.0-16.5
17		0.0	moist	FILL		SILT, little fine sand, trace roots, (7.5YR 4/2) brown, soft, moist, no odor, no staining.	
18		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, (7.5YR 3/2) dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	H6B-18.0-18.5
19				NR		NO RECOVERY	
20							

Comments: No COPR/GGM identified.

ENSR | AECOM	Client: PPG	BORING ID: HB
	Site: PPG - Jersey City, NJ	
Start Date: 3/17/2004	Project: Site Investigation	Page: 1 of 1
	Coordinates: X-611506.77 Y-683014.53	Depth of Boring: 4.00
End Date: 3/17/2004	Elevation: 9.86	Geologist: R. Firely
	Drill Subcontractor: ADI	Driller:



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
				HB0.3	Cr+6, Sb, As, Ni, Tl, V
				HB2.0	Cr+6, Sb, As, Ni, Tl, V (Sample ID# HB) Ni, V (Sample ID# HBD)

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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ENSR | AECOM	Client: PPG	BORING ID: HK
	Site: PPG - Jersey City, NJ	
Start Date: 3/18/2004	Project: Site Investigation	Page: 1 of 2
	Coordinates: X-611513.59 Y-683006.33	Depth of Boring: 21.00
End Date: 3/18/2004	Elevation: 10.87	Geologist: R. Firely
	Drill Subcontractor: ADI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: Asphalt/Crushed gravel			
		FILL: Pale brown (10YR 6/3) coarse to fine SAND, some coarse to fine gravel		HK1.25	CR+6, Sb, As, Ni, Tl, V
2		NR: No Recovery			
		FILL: Dark grayish brown (10YR 4/2) medium to fine SAND		HK3.0	CR+6, Sb, As, Ni, Tl, V
4		NR: No Recovery			
		SAND: Olive brown (2.5Y 4/3) coarse to fine SAND, little silt (15"")/Black (2.5Y 2.5/1) coarse to fine GRAVEL, little coarse to fine sand, little silt, little shell fragments (13"")	NA ppm	HK5.0	CR+6, Sb, As, Ni, Tl, V
6					
				HK7.0	CR+6, Sb, As, Ni, Tl, V
8					
		UNKNOWN: Black and light gray (2.5Y 2.5/1 and 7/1) SILTY CLAY, trace coarse to fine sand (6"")/Light olive brown (2.5Y 5/3) fine SAND, with clay laminations (6"")	0.2 ppm	HK9.0	CR+6, Sb, As, Ni, Tl, V
10					
12					

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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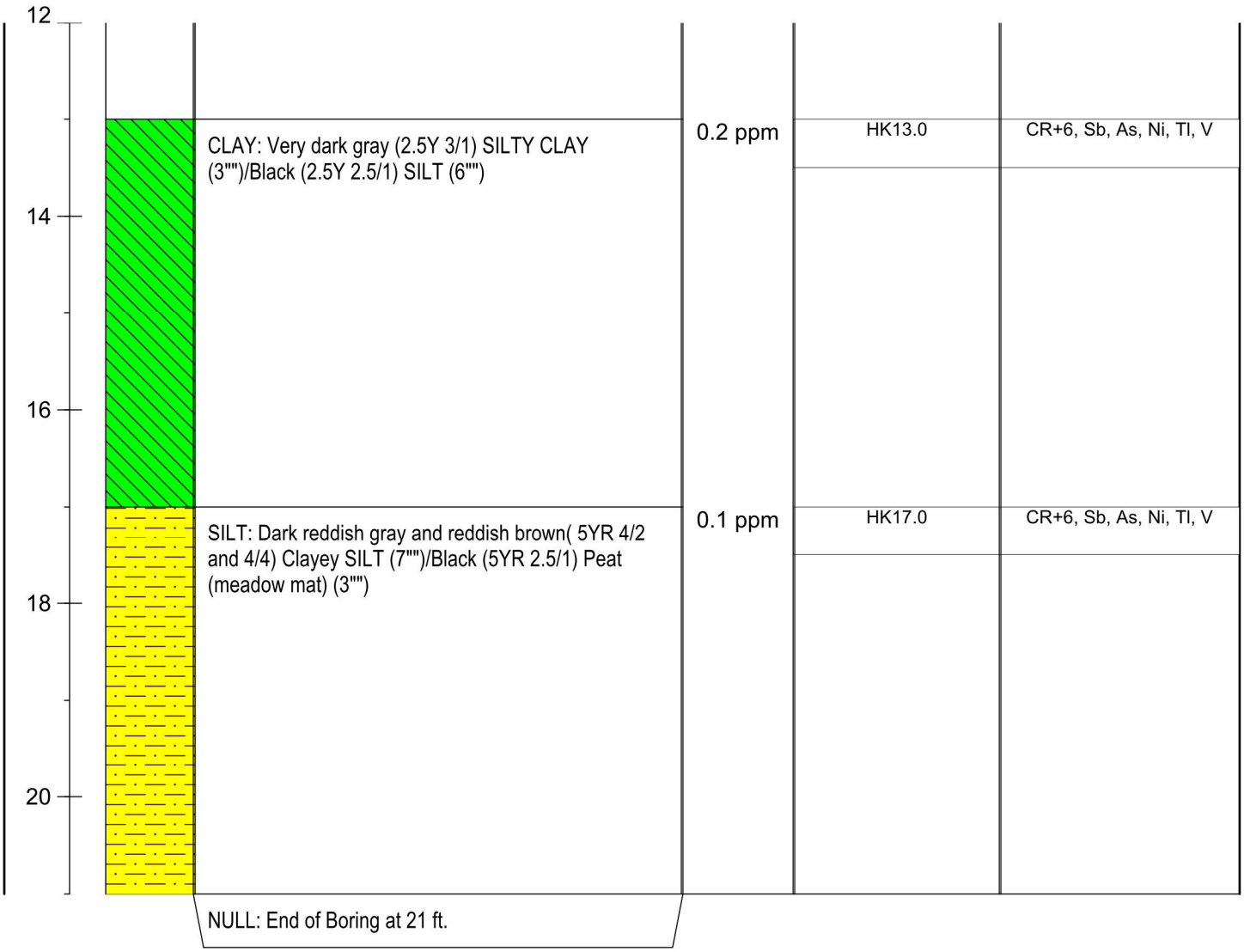
ENSR | AECOM	Client: PPG	BORING ID: HK
	Site: PPG - Jersey City, NJ	
Start Date: 3/18/2004	Project: Site Investigation	Page: 2 of 2
	Coordinates: X-611513.59 Y-683006.33	Depth of Boring: 21.00
End Date: 3/18/2004	Elevation: 10.87	Geologist: R. Firely
	Drill Subcontractor: ADI	Driller:



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
		CLAY: Very dark gray (2.5Y 3/1) SILTY CLAY (3"")/Black (2.5Y 2.5/1) SILT (6"")	0.2 ppm	HK13.0	CR+6, Sb, As, Ni, Tl, V
		SILT: Dark reddish gray and reddish brown(5YR 4/2 and 4/4) Clayey SILT (7"")/Black (5YR 2.5/1) Peat (meadow mat) (3"")	0.1 ppm	HK17.0	CR+6, Sb, As, Ni, Tl, V
		NULL: End of Boring at 21 ft.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: HTP1

Project Name: PPG Garfield Ave	**Drilling Company:**	
Project Number: 60240739	**Drilling Method:**	**Coordinates (NJSPNAD83) x:** 611579
Date Started Drilling: 2/22/2014 10:05:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682965
Date Finished Drilling: 2/22/2014 1:00:00 PM	**Core Size:**	**Boring Total Depth:** 2 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - HTP1		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE, green staining.	
	2	0.0	dry to slight moist	FILL		ASH, with slag material and cinders, (10YR 5/1) gray, non plastic, loose, dry to slightly moist, no odor, no staining.	HTP1-0.3-0.8
1		0.0		FILL		ASH, some sand and ceramics, (5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	
2			slightly moist				HTP1-2.0-2.5

Comments: No COPR/GGM identified.

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AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: HTP2

Project Name: PPG Garfield Ave	**Drilling Company:**	
Project Number: 60240739	**Drilling Method:**	**Coordinates (NJSPNAD83) x:** 611407
Date Started Drilling: 3/8/2014 10:00:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682809
Date Finished Drilling: 3/8/2014 1:00:00 PM	**Core Size:**	**Boring Total Depth:** 2 ft
Logged By: EW	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Halsted - HTP2		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	2	0.0		CONCRETE		CONCRETE, green staining.	
1		0.0	dry to slight moist	FILL		ASH, with slag and cinders, (5YR 5/1) gray, dry to slightly moist, no odor, slight green staining within soils directly underneath concrete.	HTP2-0.5-1.0
		0.0		FILL			
2			slightly moist			SAND, and ash and cinders, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	HTP2-2.0-2.5

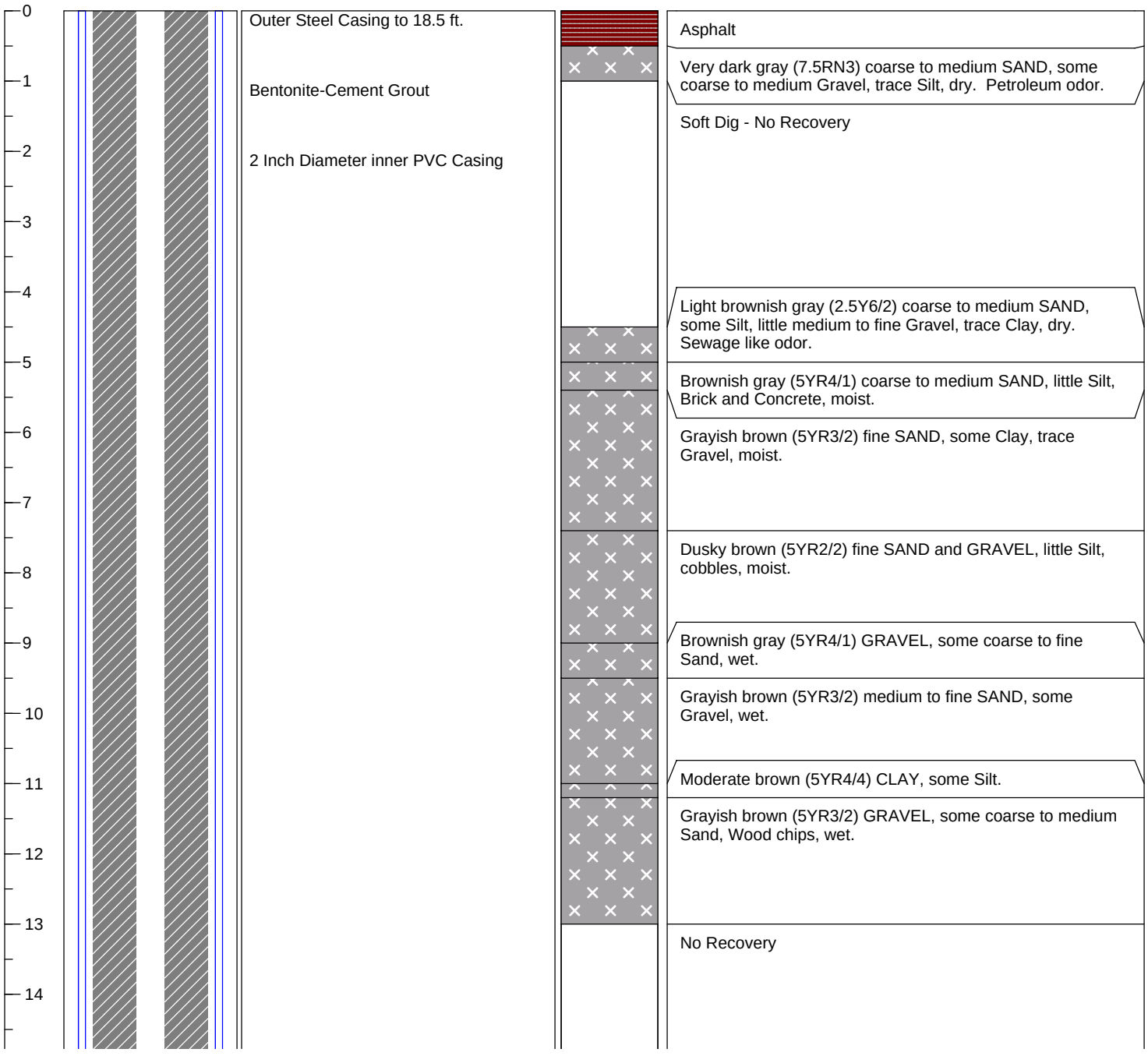
Comments: No COPR/GGM identified.

Client: PPG Industries
Site: Site 114
Site Location: Jersey City, NJ
Geologist: M. Merdinger, M. Abdelaziz
Drilling Company: ADI
Drilling Method: Soft Dig/HSA/Mud Rotary

Drilling Date: 7/24/2006
Well Completion Date: 10/9/2006
Depth (ft): 40.00
State Plane Coordinates **X:** 611548.1 **Y:** 683014.2

ENSR | AECOM

MW-20B



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Client: PPG Industries
Site: Site 114
Site Location: Jersey City, NJ
Geologist: M. Merdinger, M. Abdelaziz
Drilling Company: ADI
Drilling Method: Soft Dig/HSA/Mud Rotary

Drilling Date: 7/24/2006
Well Completion Date: 10/9/2006
Depth (ft): 40.00
State Plane Coordinates **X:** 611548.1 **Y:** 683014.2

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MW-20B

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Client: PPG Industries
Site: Site 114
Site Location: Jersey City, NJ
Geologist: M. Merdinger, M. Abdelaziz
Drilling Company: ADI
Drilling Method: Soft Dig/HSA/Mud Rotary

Drilling Date: 7/24/2006
Well Completion Date: 10/9/2006
Depth (ft): 40.00
State Plane Coordinates **X:** 611548.1 **Y:** 683014.2

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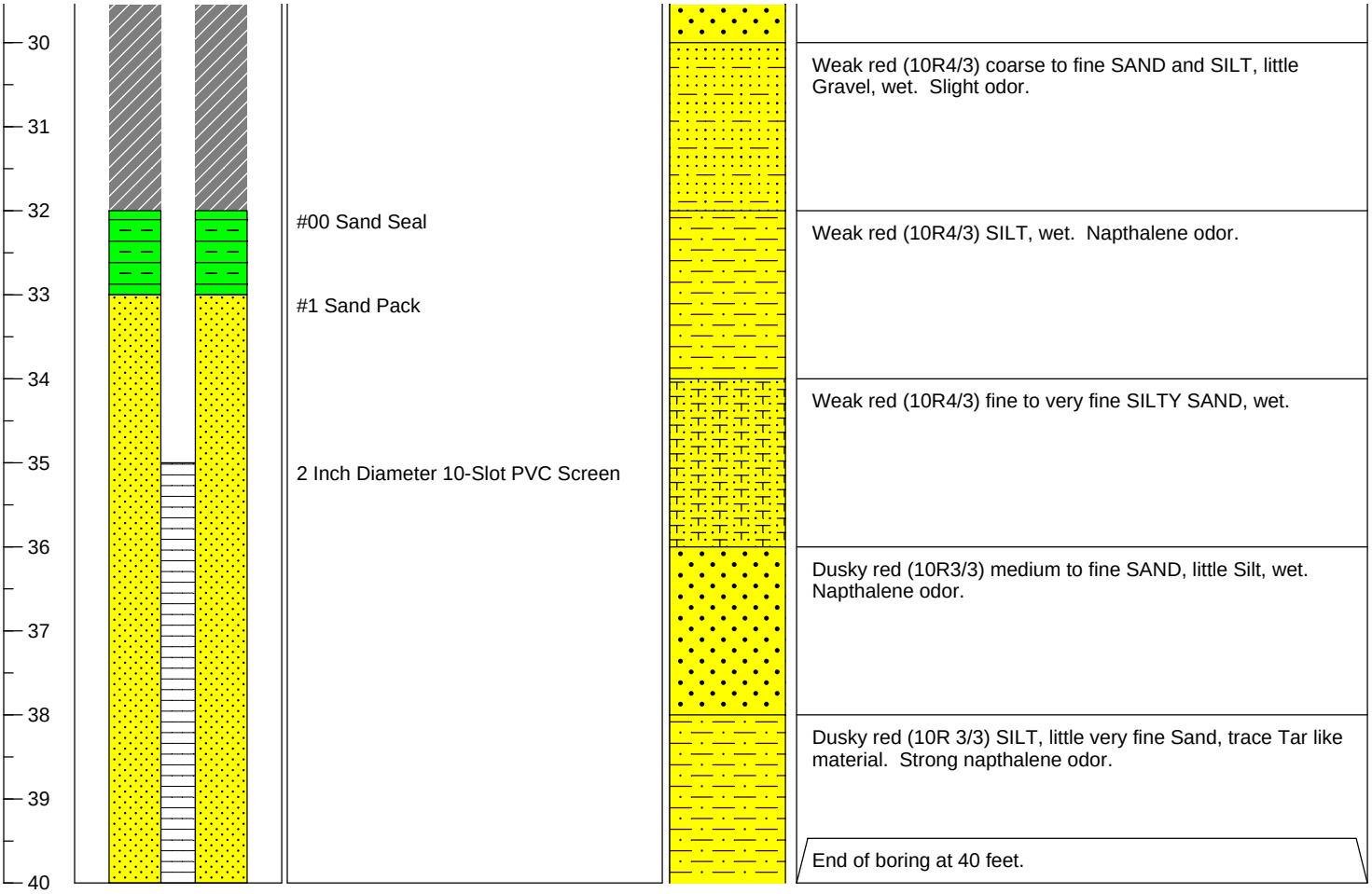
MW-20B



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

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ENSR | AECOM	Client: PPG Industries	BORING ID: OSB-22
	Site: Site 133	
Start Date: 7/18/2006	Project: **Site Investigation**	Page: 1 of 3
	Coordinates: X-611312.6 Y-682776	Depth of Boring: 30.00
End Date: 7/25/2006	Elevation: 12.14	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: ADI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: Asphalt	N/A		
		CONCRETE: Concrete			
		FILL: Dusky red (2.5YR3/2) medium to fine SAND, some medium to fine Gravel, trace Silt, dry. 25% COPR.		OSB-22A(1.05-1.55)	MS/MSD, Cr+6, TAL Metals
2		NR: Soft Dig - No Recovery			
4		FILL: Light brownish gray (2.5Y6/2) fine SAND, some Slag and medium Gravel, little Clay and Silt, wet. >10% COPR.	N/A	OSB-22B(4.0-4.5) OSB-22BD(4.0-4.5)	Cr+6, TAL Metals Cr+6, TAL Metals
		NR: Soft Dig - No Recovery			
		FILL: Gray (7.5YRN6) CINDERS, some Glass and coarse to medium Sand, little Silt, wet.			
6		NR: No Recovery			
8		FILL: Very dark gray (7.5YRN3) CINDERS, some Glass and coarse to medium Sand, little Silt, wet.	N/A		
		FILL: Dark brown (7.5YR3/2) fine to very fine SAND, PEAT and SILT, moist to wet.			
10					

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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ENSR | AECOM	Client: PPG Industries	BORING ID: OSB-22
	Site: Site 133	
Start Date: 7/18/2006	Project: **Site Investigation**	Page: 2 of 3
	Coordinates: X-611312.6 Y-682776	Depth of Boring: 30.00
End Date: 7/25/2006	Elevation: 12.14	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: ADI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
				OSB-22C(11.0-12.0)	MS/MSD, Cr+6, TAL Metals
		NR: No Recovery			
12		FILL: Very dark gray (7.5YRN3) CINDERS, some Glass and coarse to medium Sand, little Silt, wet.	N/A		
14		FILL: Dark reddish brown (5YR3/2) fine to very fine SAND, some Silt, trace coarse Sand, wet.			
16			N/A		
		PEAT: PEAT.		OSB-22D(16.8-17.3)	Cr+6, TAL Metals
18					
20		PEAT: Black (5YR2.5/1) PEAT, some fine to very fine Sand and Silt, moist.	N/A		

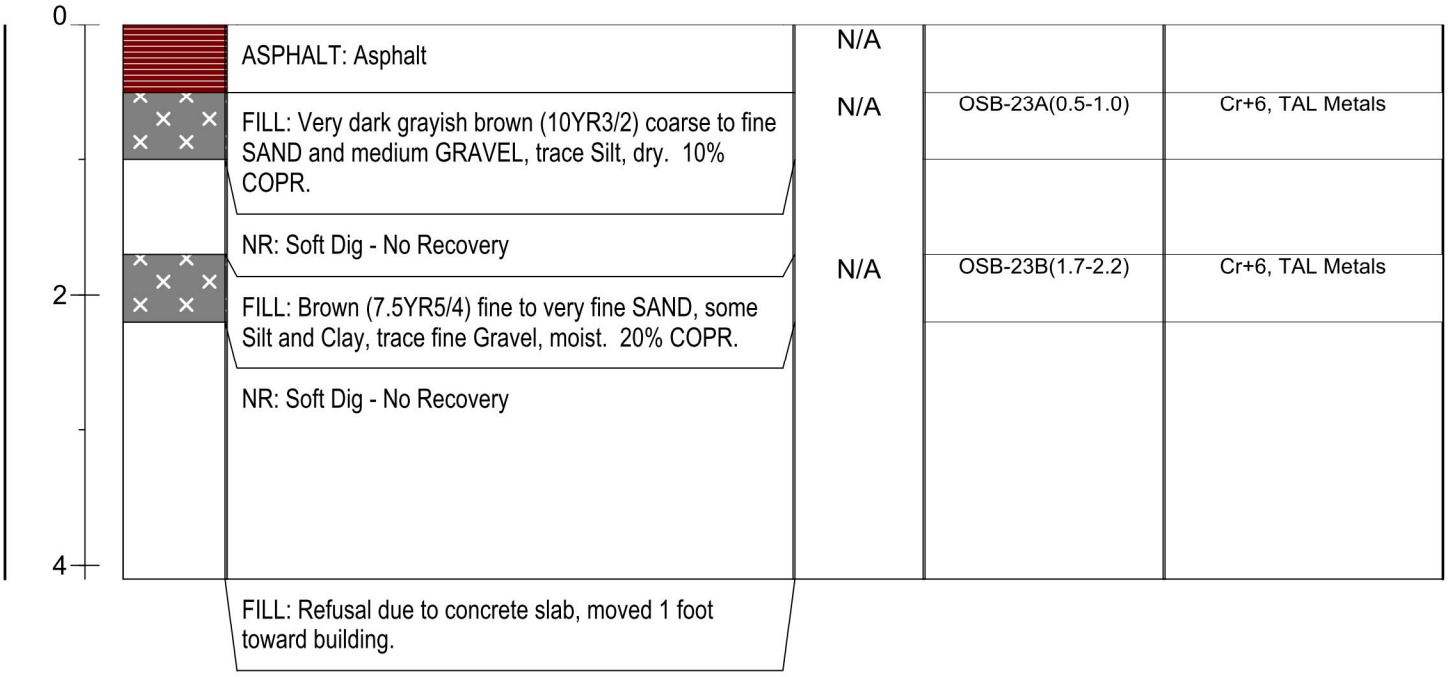
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: OSB-22
	Site: Site 133	
Start Date: 7/18/2006	Project: **Site Investigation**	Page: 3 of 3
	Coordinates: X-611312.6 Y-682776	Depth of Boring: 30.00
End Date: 7/25/2006	Elevation: 12.14	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: ADI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
22		SAND: Gray (7.5RN5) fine to very fine SAND, some Silt, trace Clay, moist.			
		NR: No Recovery			
24		SAND: Weak red (10R4/3) coarse to medium SAND, some Silt and fine Sand, wet.	0.0		
26					
28			0.0		
30		NULL: End of boring at 30 feet.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: OSB-23
	Site: Site 114	
Start Date: 7/20/2006	Project: **Site Investigation**	Page: 1 of 1
	Coordinates: X-611442.6 Y-682904.4	Depth of Boring: 4.10
End Date: 7/20/2006	Elevation: 12.84	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: ADI



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: Asphalt	N/A		
		FILL: Very dark grayish brown (10YR3/2) coarse to fine SAND and medium GRAVEL, trace Silt, dry. 10% COPR.	N/A	OSB-23A(0.5-1.0)	Cr+6, TAL Metals
		NR: Soft Dig - No Recovery			
2		FILL: Brown (7.5YR5/4) fine to very fine SAND, some Silt and Clay, trace fine Gravel, moist. 20% COPR.	N/A	OSB-23B(1.7-2.2)	Cr+6, TAL Metals
		NR: Soft Dig - No Recovery			
4		FILL: Refusal due to concrete slab, moved 1 foot toward building.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

ENSR | AECOM

Client: PPG Industries

Site: Site 133

BORING ID: **OSB-24**

Start Date: 7/24/2006

Project: **Site Investigation**

Page: 1 of 3

Coordinates: X-611601.4 Y-683065.4

Depth of Boring: 27.00

End Date: 7/31/2006

Elevation: 14.07

Geologist: M. Abdelaziz

Drill Subcontractor:

Driller: ADI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: Asphalt	N/A		
		FILL: Black (7.5R2.5) coarse to medium SAND, some medium to fine Gravel, trace Silt, dry.		OSB-24A(0.5-1.0)	Cr+6, TAL Metals
		NR: Soft Dig - No Recovery			
2					
4					
		FILL: Dark gray (7.5YRN4) medium SAND, some Silt, trace fine to very fine Gravel, wet.		OSB-24B(4.5-5.0)	Cr+6, TAL Metals
			0.0		
6		FILL: Very dark gray (7.5RN3) GLASS, COAL ASH and WOOD CHIPS, some coarse Sand, trace Cinder, dry. Petroleum odor.			
		FILL: Very dark gray (7.5RN3) GLASS, COAL ASH and WOOD CHIPS, some coarse Sand, trace Cinder, wet. Petroleum odor and sheen.	0.0		
8				OSB-24C(8.0-9.0)	MS/MSD, Cr+6, TAL Metals
			0.0		
10					

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM

Client: PPG Industries

Site: Site 133

BORING ID: **OSB-24**

Start Date: 7/24/2006

Project: **Site Investigation**

Page: 2 of 3

Coordinates: X-611601.4 Y-683065.4

Depth of Boring: 27.00

End Date: 7/31/2006

Elevation: 14.07

Geologist: M. Abdelaziz

Drill Subcontractor:

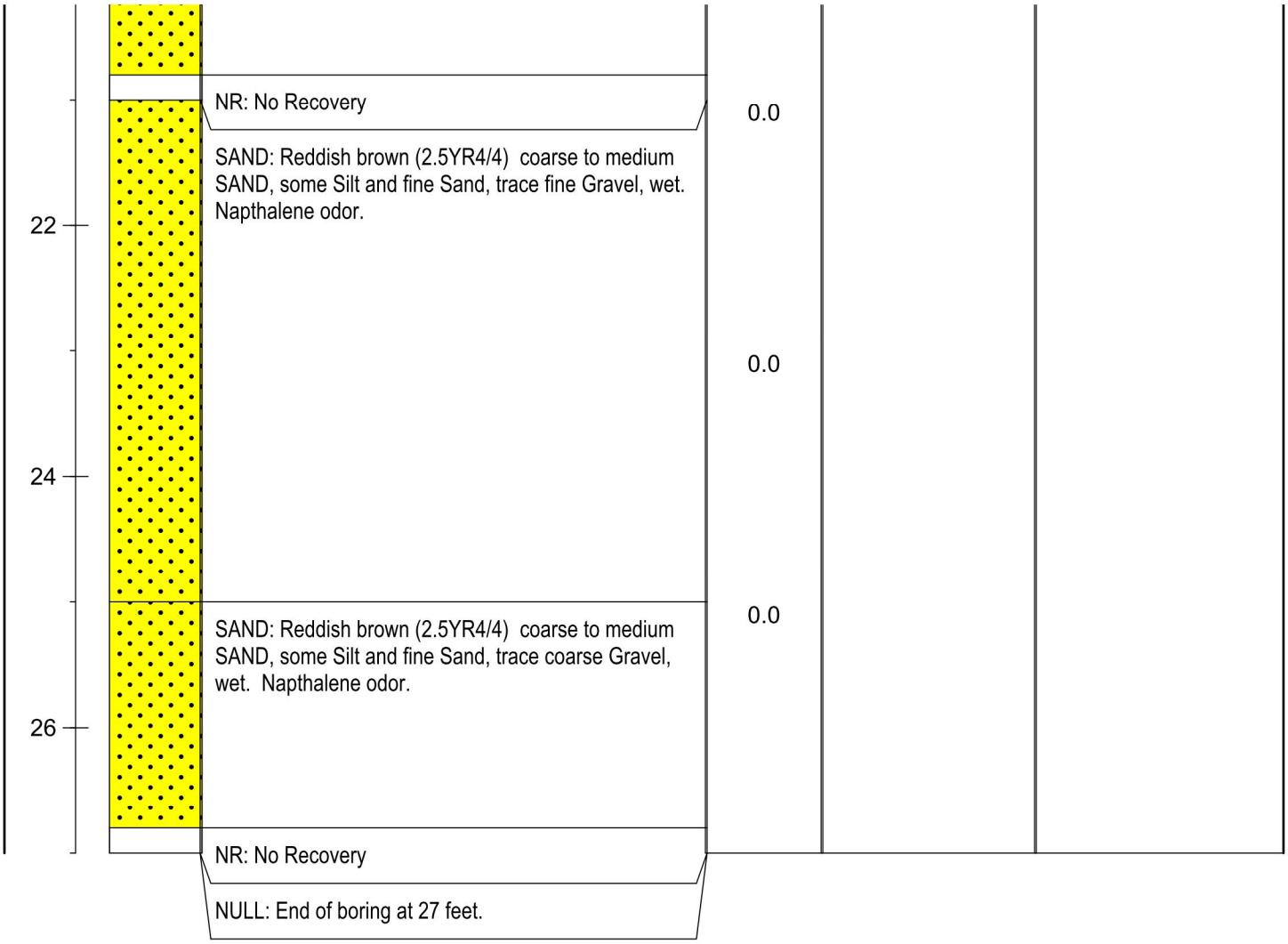
Driller: ADI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
			0.0		
12		FILL: Dark brown (7.5YR3/3) medium to fine SAND, some Silt, trace(-) Clay, wet to moist. 25% COPR.		OSB-24D(11.7-12.7) OSB-24DD(11.7-12.7)	Cr+6, TAL Metals Cr+6, TAL Metals
		NR: No Recovery	0.0		
14		FILL: Very dark gray (7.5RN3) GLASS, COAL ASH and WOOD CHIPS, some coarse Sand, trace Cinder, wet. Petroleum odor and sheen. FILL: Dark brown (7.5YR3/3) medium to fine SAND, some Silt, trace(-) Clay, wet to moist.	0.0		
16		PEAT: PEAT, dry.		OSB-24E(15.5-16.0)	Cr+6, TAL Metals
		NR: No Recovery	0.0		
18		PEAT: PEAT			
20		SAND: Gray (7.5RN5) coarse to medium SAND, some Silt and fine Sand, trace fine Gravel, wet.	0.0		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

ENSR | AECOM	Client: PPG Industries	BORING ID: OSB-24
	Site: Site 133	
Start Date: 7/24/2006	Project: **Site Investigation**	Page: 3 of 3
	Coordinates: X-611601.4 Y-683065.4	Depth of Boring: 27.00
End Date: 7/31/2006	Elevation: 14.07	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: ADI



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

PSEG_SB-40

BORING LOG

SB.40

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.:
Sheet: 1 of 1
Job No.: 05510-109-0503

Project: PSE&G BORINGS (HALSTED AREA)	Elevation:
Project Location: PPG Site 114, Offsite (PSE&G, Schoor de Palma)	Date Started: 11/21/2006 11:20
Observer: Hue Quan	Date Completed:
Contractor: Advanced Drilling	
Driller: RODGER LOBEL	Helper: KEVIN FRANK
Type of Rig: GEFCO STRATA STAR 5	HOLLOW STEM AUGER
Casing Dia.: — in. From: — to ft.	Auger Dia.: ID 4¼ in. OD 6 in.
Drilling Mud Utilized: — Type: —	Rotary Bit Diameter: in.
SAMPLING EQUIPMENT (type and size)	Split Spoon Sampler: ID 1 3/8" OD 2" length 24"
	U-Tube Sampler: Dia. — in. Type: —
	Core Barrel: — Core Bit: —
Sampler Hammer Weight: 140 Lbs.	Average Drop: 30 in.

WATER LEVEL OBSERVATIONS

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Remarks
				4.5'	WET SAMPLE

SAMPLE NO.	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
						ALL SAMPLES ANALYZED FOR TAL METALS, Cr^{+6}
			ASPHALT/CONCRETE TO 0.5', F-M SAND, LITTLE-SOME SILT & F-C GRAVEL, BRICK FRAGMENTS (DARK OLIVE GRAY - 5Y 3/2), MOIST			HAND DIG TO 4.0'
			1.0-1.5 F-C GRAVEL, SOME SAND & SILT			PSEG-SB40A (0.5-1.0)
			1.5-4.0 F-M SAND, TR. SILT, SOME F-C GRAVEL, ~10-20% COBB (V. DK BROWN 7.5YR 2.5/3)			11:30 MS/MSD
						PSEG-SB40B (1.5-2.0) 11:35
						PSEG-SB40BD (1.5-2.0) 11:40
1	4-6	3 4	DARK BROWN (7.5 YR 3/3) F-M SAND, TR M GRAVEL WET BEL. MSW FILL (CERAMICS, SCREEN, SLAG, CINDERS LAST 3"	5		0.0 PPM
rec	0.9'	6 4				PSEG-SB40C (6.0-6.5)
2	6-8	3 2	DO LOWER 3" "S1" & SILTY F. SAND, METAL & WOOD			13:00
rec	0.7'	2 4				
3	8-10	2 2	DO "S2"	10		0.7 PPM @ 10
rec	1.0'	3 3				SLIGHT SHEEN OBSERVED @ BASE OF FILL
4	10-12	2 1	@ 10.2' - DK GRAYISH BROWN (2.5Y 4/2) SILTY F. SAND			PSEG-SB40D (10.5-11.0)
rec	1.0'	2 2				13:12
5	12-14	2 1	DO "S4" UPPER 6", LOWER 7" BEC. DK BROWN (7.5YR 3/2) SILTY F-M SAND, TR CLAY, WET			
rec	1.1'	→ 2				
6	14-16	2 2	BLACK (7.5YR 2.5/1) SILTY F. SAND, WET BECOMING PEAT @ 15.8' MOIST	15		14-16' - 0.1 PPM
rec	1.2'	12 2	FIBEROUS PEAT, SOME BLACK (10YR 2/1) ORGANIC CLAY MOIST			PSEG-SB40E (14.0-14.5)
7	16-18	2 1				13:25
rec	1.6'	2 2				10.2, 10.5, 22.3 @ 6" INT.
8	18-20	1 2	FIBEROUS PEAT TR - LITTLE ~~LITTLE - SOME~~ BLACK ORGANIC CLAY MOIST, LOWER 6" GRAY			BET 16-17'
rec	1.7'	1 2	GREENISH BLACK (GLEY 1 2.5/1) F. SAND,	20		14.0, B.D 4.7, 4.0 @ 6" INT.
9	20-22	2 3	LITTLE CLAYEY SILT BEC. F-M SAND,			BET 18-20'
rec	1.5'	5 5	TR - LITTLE CLAYEY SILT @ END OF "S9" WET			PSEG-SB40F (16.0-16.5)
10	22-24	5 7	V. DK GREENISH GRAY (GLEY 1 3/1) SILTY F-M SAND, LITTLE F-GRAVEL, MOIST			13:35
rec	2.0'	7 8				18.5-19.0
11	24-26	5 5	DK. REDDISH BROWN (5YR 3/2) F-C SAND,	25		PSEG-SB40G (~~18.0-18.5~~)
rec	2.0'	5 7	TR - LITTLE SILT (COAL TAR ODOR) NAPTH ODOR, SLIGHT			1340
12	26-28	6 6	2.1, 1.0, 0.4, 0.4 @ PPM @ 6" INTERVALS			PSEG-SB40H (~~18.5-19~~ 19.0-19.5)
rec	2.0'	7 6	DO "S11"			1345 15-DAY TURNAROUND
13	28-30	3 4				PSEG-SB40I (20-21)
rec	0.8'	4 4	DO "S11"	30		13:55 MS/MSD (HOLD)
14	30-32	4 4	DO "S11"			1.0, 0.8, 0.1 PPM @ 20-22'
rec	1.1'	5 4				0.4, 1.0, 1.4, 0.3 PPM @ 22-2
						PSEG-SB40J (25-26) 1408 (HOLI
						PSEG-SB40JD (25-26) 1410 (HOL
						1.3, 4.8, 1.2 PPM @ 26-28
						PLATE NO:
						PSEG-SB40K (30-30.5) (HOLD
						14:35

CONTINUED TO E.O.B @ 50.0'

BORING LOG

SB40

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.:
Sheet: 1 of 1
Job No.: 05510-109-0503

Project: PSE&G BORINGS (HALSTED AREA)	Elevation:
Project Location: PPG Site 114, Offsite (PSE&G, Schoor de Palma)	Date Started: 11/21/2006 11:20
Observer: Hue Quan	Date Completed:
Contractor: Advanced Drilling	
Driller: ROGER LOGEL	Helper: KEVIN FRANK
Type of Rig: GEFCO STRATA STAR 5	HOLLOW STEM AUGER
Casing Dia.: — in. From: — to ft.	Auger Dia.: ID 4¼ in. OD 6 in.
Drilling Mud Utilized: — Type: —	Rotary Bit Diameter: in.
SAMPLING EQUIPMENT (type and size)	Split Spoon Sampler: ID 1 3/8" OD 2" length 24"
	U-Tube Sampler: Dia. — in. Type: —
	Core Barrel: — Core Bit: —
Sampler Hammer Weight: 140 Lbs.	Average Drop: 30 in.

WATER LEVEL OBSERVATIONS

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Remarks
				4.5'	WET SAMPLE

SAMPLE NO.	SAMPLE DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
			ASPHALT/CONCRETE TO 0.5', F-M SAND, LITTLE-SOME SILT & F-C GRAVEL, BRICK FRAGMENTS (DARK OLIVE GRAY - 5Y 3/2), MOIST			HAND DIG TO 4.0'
			1.0-1.5 F-C GRAVEL, SOME SAND & SILT			PSEG-SB40A (0.5-1.0)
			1.5-4.0 F-M SAND, TR. SILT, SOME F-C GRAVEL ~10-20% COBB (V. DK BROWN 7.5YR 2.5/2)			11:30 MS/MSD
						PSEG-SB40B (1.5-2.0) 11:35
						PSEG-SB40BD (1.5-2.0) 11:40
1	4-6	3 4	DARK BROWN (7.5 YR 3/3) F-M SAND, TR M GRAVEL WET BEC. MSW FILL (CERAMICS, SCREEN, SLAG, CINDERS LAST 3"	5		0.0 PPM
rec	0.9'	6 4				PSEG-SB40C (6.0-6.5)
2	6-8	3 2	DO LOWER 3" "S1" & SILTY F. SAND, METAL & WOOD			13:00
rec	0.7'	2 4				
3	8-10	2 2	DO "S2"			
rec	1.0'	3 3		10		0.7 PPM @ 10
4	10-12	2 1	@ 10.2' - DK GRAYISH BROWN (2.5Y 4/2) SILTY F. SAND			SLIGHT SHEEN OBSERVED @ BASE OF FILL
rec	1.0'	2 2				PSEG-SB40D (10.5-11.0)
5	12-14	2 1	DO "S4" UPPER 6", LOWER 7" BEC. DK BROWN (7.5YR 3/2) SILTY F-M SAND, TR CLAY, WET			13:12
rec	1.1'	→ 2				
6	14-16	2 2	BLACK (7.5 YR 2.5/1) SILTY, F. SAND, WET BECOMING PEAT @ 15.0', MOIST	15		14-16' - 0.1 PPM
rec	1.2'	12 2	FIBEROUS PEAT, SOME BLACK (10YR 2/1)			PSEG-SB40E (14.0-14.5)
7	16-18	2 1	ORGANIC CLAY MOIST			13:25
rec	1.6'	2 2				10.2, 10.5, 22.3 @ 6" INT.
8	18-20	1 2	FIBEROUS PEAT TR - LITTLE ~~LITTLE~~ BLACK ORGANIC CLAY MOIST, LOWER 6" GRAY GREENISH BLACK (GLEY 1 2.5/1) F. SAND, LITTLE CLAYEY SILT BEC. F-M SAND, TR - LITTLE CLAYEY SILT @ END OF "S9" WET			BET 16-17'
rec	1.7'	1 2				14.0, B.D 4.7, 4.0 @ 6" INT.
9	20-22	2 3		20		BET 18-20'
rec	1.5'	5 5				PSEG-SB40F (16.0-16.5)
10	22-24	5 7	V. DK GREENISH GRAY (GLEY 1 3/1) SILTY F-M SAND, LITTLE F. GRAVEL, MOIST			13:35
rec	2.0'	7 8				PSEG-SB40G (~~18.5-19.0~~ 18.5-19.0)
11	24-26	5 5	DK. REDDISH BROWN (5YR 3/2) F-C SAND, TR - LITTLE SILT (COAL TAR ODOR, NAPTH COLOR, SLIGHT	25		1340
rec	2.0'	5 7	2.1, 1.0, 0.4, 0.4 ~~ppb~~ ppm @ 6" INTERVALS			PSEG-SB40H (~~18.5-19~~ 19.0-19.5)
12	26-28	6 6	DO "S11"			1345 15-DAY TURNAROUND
rec	2.0'	7 6				PSEG-SB40I (20-21)
13	28-30	3 4	DO "S11"			13:55 MS/MSD (HOLD)
rec	0.8'	4 4				1.0, 0.8, 0.1 PPM @ 20-22'
14	30-32	4 4	DO "S11"	30		0.4, 1.0, 1.4, 0.3 PPM @ 22-24'
rec	1.1'	5 4				PSEG-SB40J (25-26) 1408 (HOLD)
						PSEG-SB40JD (25-26) 1410 (HOLD)
						1.3, 4.8, 1.2 PPM @ 26-28
						PLATE NO:
						PSEG-SB40K (30-30.5) (HOLD)
						14:35

CONTINUED TO E.O.B @ 50.0'

PSEG_SB-52

BORING LOG

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.: SB-52
Sheet: 1 of 2
Job No.: 05510-107-0503

Project: PSEG BORINGS	Elevation:
Project Location: PPG Site 114, Offsite (PSE&G, Schoor de Palma)	Date Started: 11/22/2006 12:35
Observer: Hue Quan	Date Completed: 11/27/06 12:00
Contractor: Advanced Drilling	
Driller:	Helper:
Type of Rig: GEFCO STRATA STAR 5	HOLLOW STEM AUGER
Casing Dia.: — in. From: — to ft.	Auger Dia.: ID 4¼ in. OD 6" in.
Drilling Mud Utilized: — Type: —	Rotary Bit Diameter: in.
SAMPLING EQUIPMENT (type and size)	Split Spoon Sampler: ID 1 3/8" OD 2" length 24"
	U-Tube Sampler: Dia. — in. Type: —
	Core Barrel: — Core Bit: —
Sampler Hammer Weight: 140 Lbs.	Average Drop: 30 in.

WATER LEVEL OBSERVATIONS

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Remarks
				4.5'	WET SAMPLE

SAMPLE NO.	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
			ASPHALT/CONCRETE TO 0.4' BEC F-C GRAVEL AND SILTY SAND, TR BLUE PIGMENTS OBSERVED. BLACK (10YR 2/1) MOIST. CONCRETE COBBLE OBSERVED. BET. 2-3' GRAY F. SAND, SOME CLAYEY SILT AND WOOD FIBERS, 3-4' - FILL			HAND DIG TO 4.0' PSEG-SB52A (1.0-1.5) 12:50 MS/MSD
S1	4-6	4 5	FILL (MSW TYPE) [CERAMICS, BRICK, CINDER] & SILTY SAND, WET	5		PSEG-SB52B (6.0-6.5) 13:16
rec	0.9'	5 7				PSEG-SB52BD (6.0-6.5) 13:20
2	6-8	4 4	DO "S1" UPPER 0.9' BEC. BLACK SILTY CLAY, WET			
rec	1.1'	3 4				
3	8-10	4 2	DK GRAY TO BLACK (2.5Y 2.5/1) CLAY			PSEG-SB52C (8.5-9.0) 13:30
rec	1.1'	2 2	BEC. FIBEROUS PEAT (LOWER 2"), LITTLE ORGANIC SILTY CLAY, MOIST	10		PSEG-SB52D (9.0-9.1) 13:33
4	10-12	2 1	V. DK. BROWN (10YR 2/2) SILTY F-C SAND, LITTLE F. GRAVEL, TR WOOD, WET			PSEG-SB52E (10.0-10.5) 13:38 (5-DAY TA)
rec	1.2'	2 2				PSEG-SB52F (12-13) 13:47 MS/MSD (HOLD)
5	12-14	2 2	V. DK BROWN (7.5 YR 2.5/3) SILTY F-C SAND, TR F-C GRAVEL, LITTLE CLAY, WET			
rec	1.5'	2 2				
6	14-16	2 3	DO "S6"	15		PSEG-SB52G (14.2-14.9) 13:55 (HOLD)
rec	0.9'	3 3				PSEG-SB52GD (14.2-14.9) 13:57 (HOLD)
7	16-18	1 2	E.O.D @ 16' 11/22/06 FIBEROUS PEAT			PSEG-SB52H (16.0-16.5) 9:00 H_2S ODOR
rec	1.2'	1 2				
8	18-20	2 2	BLACK (5Y 2.5/1) ORGANIC CLAY W/ ~10% FIBEROUS PEAT, BECOMING 50%			PSEG-SB52I (19-20) 9:10 H_2S ODOR
rec	2.0'	2 2		20		PSEG-SB52ID (19.0-20.0) 9:15 H_2S ODOR
9	20-22	2 2	UPPER 0.6' FIBEROUS PEAT, 0.6' PEAT BEC ORGANIC CLAY BEC. F. SAND (GREENISH GRAY - GLEY N4-5GY 4/1) MOIST			10, 5.5, 9.8 @ 20-22'
rec	1.5'	3 3				PSEG-SB52J (20-21) 9:30 MS/MSD
10	22-24	3 5	DK. GREENISH GRAY (GLEY 1 4/1) F-M SAND, TR. F. GRAVEL, MOIST			
rec	1.4'	6 6				
11	24-26	4 5	V. DK. GRAY (5YR 3/1) F-C SAND, TR. SILT	25		PSEG-SB52K (21.0-21.2) 9:40 5-DAY TURNAROUND
rec	2.0'	7 7	UPPER 1.0', BEC. F-M GRAVEL AND F-C SAND, LOWER 6", V. DK. BROWN, F-C SAND, SOME SILT, TR F. GRAVEL, WET			PSEG-SB52L (24-25) 9:50 MS/MSD (HOLD)
12	26-28	6 7				
rec	1.3'	7 7	V. DK BROWN (7.5YR 2.5/3) F-C SAND, TR F. GRAVEL & SILT, WET			PSEG-SB52M (25.5-26) 10:00 (HOLD)
13	28-30	7 6	V. DK BROWN (7.5YR 2.5/3) F-C SAND, LITTLE SILT, TR-LITTLE F. GRAVEL BEC., F-M SAND, TR SILT, WET	30		PSEG-SB52MD (25.5-26.0) 10:05 (HOLD)
rec	2.0'	7 6				

PLATE NO:

PSEG-SB52N (29.5-30) 10:10 (HOLD)

BORING LOG

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.: SB-52
Sheet: 2 of 2
Job No.: 05510-107-0503

SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
14	30-32	5 6	V. DK BROWN (7.5 YR 2.5/3) F-M SAND, LITTLE SILT, WET (DILATENT)			0.0 PID
rec	0.8'	6 7				
15	32-34	5 7	DO "S14"			0.0 PID
rec	1.1'	9 9				
16	34-36	4 5	DO "S14"	35		0.0, 0.0, 0.4 PPM @ 34-35'
rec	1.0'	5 5				
17	36-38	4 4	DO "S14"			1.9, 5.6 PPM @ 36-37'
rec	1.0'	5 6				
18	38-40	4 4	DO "S14"	40		3.3, 2.5, 11.6 PPM @ 38-39.5' FAINT ODOR (NAPTH)
rec	1.2'	4 5				
19	40-42	3 2	DO "S14"			9.5, 0.8 PPM @ 40-41'
rec	1.0'	2 2				
20	42-44	2 3	DO "S14"			11.5, 1.0, 0.0 PPM @ 42-42.5'
rec	1.3'	3 4				
21	44-46	2 3	DO "S14"	45		
rec	1.2	3 3				
22	46-48	3 4	V. DK. BROWN (7.5 YR 2.5/3) SLTY F. SAND, TR-LITTLE CLAY, WET			0.0 PID
rec	1.2	3 5				
23	48-50	4 4	DO "S22"	50		0.0 PID
rec	1.0'	4 4				1.0, 0.0, 0.0 PPM @ 50-51.2'
24	50-52		DO "S22" UPPER 6", LOWER 6" DO "S14"			
rec	1.2'					
25	52-54		V. DK BROWN (7.5 YR 2.5/3) F-M SAND, TR SILT, WET			
rec	1.3'					
26	54-56		DO "S25"	55		
rec	1.7'					
			EO. BORING @ 56'			
				60		
				65		
				70		
				75		

PLATE NO.:

PSEG_SB-54

BORING LOG

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.: SB-54
Sheet: 1 of 2
Job No.: 05510-107-0503

Project: PSEG BORING NORTH OF CARTERET	Elevation:
Project Location: PPG Site 114, Offsite (PSE&G, Schoor de Palma)	Date Started: 11/27/06 14:35
Observer: Hue Quan	Date Completed: 11/28/06 12:00
Contractor: Advanced Drilling	
Driller: RODGER LOGEL	Helper: KEVIN FRANK
Type of Rig: GEFCO STRATA STAR 5	HOLLOW STEM AUGER
Casing Dia.: — in. From: — to ft.	Auger Dia.: ID 4¼ in. OD 6 in.
Drilling Mud Utilized: — Type: —	Rotary Bit Diameter: in.
SAMPLING EQUIPMENT (type and size)	Split Spoon Sampler: ID 1 3/8" OD 2" length 24"
	U-Tube Sampler: Dia. — in. Type: —
	Core Barrel: — Core Bit: —
Sampler Hammer Weight: 140 Lbs.	Average Drop: 30 in.

WATER LEVEL OBSERVATIONS

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Remarks
				4.01	WET SAMPLE

SAMPLE NO.	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
						ALL SAMPLES ANALYZED FOR TAL METAL, Cr^{+6}
			ASPHALT/CONCRETE TO 0.4", YELLOWISH BROWN F-M SAND, TR. TO LITTLE F-M GRAVEL, MOIST			HAND DIG TO 4.0' PSEG-SB54A(1.0-1.5) 15:00
1	4-6	1 1	SILTY F-M SAND AND F-M GRAVEL (FILL) POSSIBLE CERAMICS (WET)	5		PSEG-SB54B(4-4.5) 15:10
rec	0.7'	1 1				
2	6-8	1 1	V. DK GRAYISH BROWN (10YR 3/2) SILTY F. SAND, TR CLAY AND F. GRAVEL, WET, BEC FIBEROUS PEAT LAST 2"			PSEG-SB54C(6.5-7.0) 15:15
rec	1.1'	1 1				
3	8-10	1 →	FIBEROUS PEAT UPPER 0.3', LOWER 0.4'			
rec	0.7'	1 1	BROWN (7.5 YR 4/2) F. SAND, TR SILT & F. GRAVEL MOIST	10		
4	10-12	2 2	BROWN (7.5 YR 4/2) F. SAND, TR SILT & F.			
rec	0.7'	2 3	GRAVEL MOIST, BEC. DK REDDISH BROWN (5YR 3/2)			
5	12-14	2 3	DO "S4"			PSEG-SB54D(12.0-12.5) 15:30
rec	0.6'	2 3				
6	14-16	1 →	PEAT (0.1') BEC. GRAY (GLEY1 3/1 10Y)	15		PSEG-SB54E(14.5-15) 15:35
rec	2.0'	1 1	ORGANIC CLAY W/<5% FIBEROUS PEAT, MOIST			PSEG-SB54F(16.5-17) 15:40
7	16-18	1 →	DO "S6"			
rec	2.0'	1 1				
8	18-20	1 →	DO "S6"			PSEG-SB54G(18.5-19.0) 15:45
rec	2.0'	1 1		20		PSEG-SB54H(20.5-21.0) 15:50 15 DAY TA
9	20-22	1 3	DO "S6" UPPER 6", LOWER 1.0'- DK GREENISH GRAY (GLEY1 4/1) F-M SAND, TRACE TO LITTLE SILT & F GRAVEL, MOIST			3.3, 3.4 ppm @ 20-22'
rec	1.5'	3 4				
10	22-24	4 5	DO "S9"			1.3, 4.0, 0.0 ppm @ 22-23.2'
rec	1.2'	5 5				PSEG-SB54I(24-24.9') 8:50 MS/MSD (HOLD)
11	24-26	2 2	UPPER 0.4" DO "S9", LOWER 0.5' F-C SAND TR-LITTLE SILT, TR-LITTLE F. GRAVEL (BROWN 7.5YR 2.5/2), WET	25		16.4, 5.5 ppm @ 24-25'
rec	0.9'	2 2				
12	26-28	2 3	V. DK BROWN (7.5 YR 2.5/2) F-C SAND TR-LITTLE SILT AND F. GRAVEL, WET			12.7, 21.1, 8.6, 11.4 ppm @ 26-2
rec	1.9'	2 2				10.6, 21.4, 20.0 ppm @ 28-29.5
13	28-30	2 2				PSEG-SB54J(28-29') 9:05 HOLD
rec	1.6'	2 2	DO "S12"	30		

PLATE NO:

PSEG-SB54JD(28-29') 9:07 HOLD

BORING LOG

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.: SB-54
Sheet: 2 of 2
Job No.: 05510-107-0503

SAMPLE NO.	SAMPLE DEPTH	BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
14	30-32	2 1	DO "S12"			11.8, 20.3 PPM @ 30-31'
rec	1.0'	2 2				
15	32-34	2 3	V. DK BROWN (7.5 YR 2.5/3) F. SAND, TRACE SILT, WET			4.6, 7.9, 8.3 PPM @ 32-34'
rec	1.6'	2 2				
16	34-36	2 2	DO "S15" NAPHTH ODOR (FAINT)	35		PSEG-SB54K(30-30.5) 920 (HOLD)
rec	0.8'	2 2				3.2, 20 PPM @ 34-34.8'
17	36-38	2 2	DO "S15"			10.6, 21.5, 8.3 PPM @ 36-37.2'
rec	1.2'	2 2				
18	38-40	2 1	DO "S15" - GREENISH GW OBSERVED			
rec	1.1'	2 2		40		10.2, 15.3, 33.2 PPM @ 38-40'
19	40-42	2 2	DO "S15"			0.3 PPM
rec	0.3'	2 3				
20	42-44	2 2	"DO "S15"			12.9, 0.3, 4.6 PPM @ 42-43.3'
rec	1.3'	2 2				
21	44-46	2 2	DO "S15"	45		
rec	1.0'	2 2				0.0 PPM
22	46-48	2 3	DO "S15" BEC. SILTY F. SAND, TR. LITTLE CLAY LOWER 0.3' (STILL V. DK BROWN & WET)			0.0 PPM
rec	0.8'	3 3				
23	48-50	3 3	DO "S15"	50		
rec	0.8'	3 3				
24	50-52	3 3	DO "S15" F-M SAND			
rec	1.0'	2 3				
25	52-54	2 3	DO "S15" F-M SAND			
rec	2.0'	3 3				
26	54-56	3 3	DO "S15" F-M SAND	55		
rec	2.0'	3 3				
			E.O.B @ 56'			
				60		
				65		
				70		
				75		

PLATE NO.:

BORING LOG

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.: SB-54
Sheet: 1 of 2
Job No.: 05510-107-0503

Project: PSEG BORING NORTH OF CARTERET	Elevation:
Project Location: PPG Site 114, Offsite (PSE&G, Schoor de Palma)	Date Started: 11/27/06 14:35
Observer: Hue Quan	Date Completed: 11/28/06 12:00
Contractor: Advanced Drilling	
Driller: RODGER LOGEL	Helper: KEVIN FRANK
Type of Rig: GEFCO STRATA STAR 5	HOLLOW STEM AUGER
Casing Dia.: — in. From: — to ft.	Auger Dia.: ID 4¼ in. OD 6 in.
Drilling Mud Utilized: — Type: —	Rotary Bit Diameter: in.
SAMPLING EQUIPMENT (type and size)	Split Spoon Sampler: ID 1 3/8" OD 2" length 24"
	U-Tube Sampler: Dia. — in. Type: —
	Core Barrel: — Core Bit: —
Sampler Hammer Weight: 140 Lbs.	Average Drop: 30 in.

WATER LEVEL OBSERVATIONS

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Remarks
				4.01	WET SAMPLE

SAMPLE NO	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
			ASPHALT/CONCRETE TO 0.4", YELLOWISH BROWN F-M SAND, TR. TO LITTLE F-M GRAVEL, MOIST			ALL SAMPLES ANALYZED FOR TAL METAL, Cr^{+6} HAND DIG TO 4.0' PSEG-SB54A(1.0-1.5) 15:00
1	4-6	1 1	SILTY F-M SAND AND F-M GRAVEL (FILL) POSSIBLE CERAMICS (WET)	5		PSEG-SB54B(4-4.5) 15:10
rec	0.7'	1 1				
2	6-8	1 1	V. DK GRAYISH BROWN (10YR 3/2) SILTY F. SAND, TR CLAY AND F. GRAVEL, WET, BEC FIBEROUS PEAT LAST 2"			PSEG-SB54C(6.5-7.0) 15:15
rec	1.1'	1 1				
3	8-10	1 →	FIBEROUS PEAT UPPER 0.3', LOWER 0.4' BROWN (7.5 YR 4/2) F. SAND, TR SILT & F GRAVEL MOIST	10		
rec	0.7'	1 1				
4	10-12	2 2	BROWN (7.5 YR 4/2) F. SAND, TR SILT & F. GRAVEL MOIST, BEC. DK REDDISH BROWN (5YR 3/2)			PSEG-SB54D(12.0-12.5) 15:30
rec	0.7'	2 3				
5	12-14	2 3	DO "S4"			
rec	0.6'	2 3				
6	14-16	1 →	PEAT (0.1') BEC. GRAY (GLEY1 3/1 10Y) ORGANIC CLAY W/ 5% FIBEROUS PEAT, MOIST	15		PSEG-SB54E(14.5-15) 15:35
rec	2.0'	1 1				PSEG-SB54F(16.5-17) 15:40
7	16-18	1 →	DO "S6"			
rec	2.0'	1 1				
8	18-20	1 →	DO "S6"			PSEG-SB54G(18.5-19.0) 15:45
rec	2.0'	1 1		20		PSEG-SB54H(20.5-21.0) 15:50 (5 DAY TA)
9	20-22	1 3	DO "S6" UPPER 6", LOWER 1.0' - DK GREENISH GRAY (GLEY1 4/1) F-M SAND, TRACE TO LITTLE SILT & F GRAVEL, MOIST			3.3, 3.4 ppm @ 20-22' 1.3, 4.0, 0.0 ppm @ 22-23.2'
rec	1.5'	3 4				
10	22-24	4 5	DO "S9"			PSEG-SB54I(24-24.9') 8:50 MS/MSD (HOLD)
rec	1.2'	5 5				16.4, 5.5 ppm @ 24-25'
E.O.D. 11	24-26	2 2	UPPER 0.4" DO "S9", LOWER 0.5' F-C SAND TR-LITTLE SILT, TR-LITTLE F. GRAVEL (BROWN 7.5 YR 2.5/2), WET	25		12.7, 21.1, 8.6, 11.4 ppm @ 26-28'
rec	0.9'	2 2				10.6, 21.4, 20.0 ppm @ 28-29.5'
12	26-28	2 3	V. DK BROWN (7.5 YR 2.5/2) F-C SAND TR-LITTLE SILT AND F. GRAVEL, WET			PSEG-SB54J(28-29') 9:05 HOLD
rec	1.9'	2 2				
13	28-30	2 2	DO "S12"	30		
rec	1.6'	2 2				

PLATE NO:

PSEG-SB54J(28-29')
9:07 HOLD

BORING LOG

ENSR
20 New England Ave
Piscataway, New Jersey 08854

Boring No.: SB-54
Sheet: 2 of 2
Job No.: 05510-107-0503

SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	DEPTH	STRATA	REMARKS
14	30-32	2 1	DO "S12"			11.8, 20.3 ppm @ 30-31'
rec	1.0'	2 2				
15	32-34	2 3	V. DK BROWN (7.5 YR 2.5/3) F. SAND TRACE SILT, WET			4.6, 7.9, 8.3 ppm @ 32-34'
rec	1.6'	2 2				
16	34-36	2 2	DO "S15" NAPHTH ODOR (FAINT)	35		PSEG-SB54K(30-30.5) 920 (HOLD)
rec	0.8'	2 2				
17	36-38	2 2	DO "S15"			3.2, 7.0 ppm @ 34-34.8'
rec	1.2'	2 2				10.6, 21.5, 8.3 ppm @ 36-37.2'
18	38-40	2 1	DO "S15" - GREENISH GW OBSERVED			
rec	1.1'	2 2		40		10.2, 15.3, 33.2 ppm @ 38-40'
19	40-42	2 2	DO "S15"			0.3 ppm
rec	0.3'	2 3				
20	42-44	2 2	DO "S15"			12.9, 0.3, 4.6 ppm @ 42-43.3'
rec	1.3'	2 2				
21	44-46	2 2	DO "S15"	45		0.0 ppm
rec	1.0'	2 2				
22	46-48	2 3	DO "S15" BEC. SILTY F. SAND, TR-LITTLE CLAY LOWER 0.3' (STILL V. DK BROWN & WET)			0.0 ppm
rec	0.8'	3 3				
23	48-50	3 3				
rec	0.8'	3 3	DO "S15"	50		
24	50-52	3 3	DO "S15" F-M SAND			
rec	1.0'	2 3				
25	52-54	2 3	DO "S15" F-M SAND			
rec	2.0'	3 3				
26	54-56	3 3	DO "S15" F-M SAND	55		
rec	2.0'	3 3				
			E.O.B @ 56'			
				60		
				65		
				70		
				75		

PLATE NO.:

LOG OF SOIL BORING SB-25

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER		
Halladay Street, Jersey City, New Jersey			12.91		020667601		
DRILLING CONTRACTOR	FOREMAN		DATE STARTED		DATE COMPLETED		
Advanced Drilling, Inc.	R. Empson		04/13/04		04/15/04		
DRILLING EQUIPMENT			COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)		
Hollow Stem Auger			95'		92.5'		
TYPE BIT 4.25" diameter	SIZE AND TYPE CORE BARREL		NO. SAMPLES	DIST. 43	UNDIST. 0	CORE 0	
CASING N/A	N/A		WATER DEPTH	FIRST 6.0'	COMPL. N/A	24HR N/A	
CASING HAMMER WEIGHT N/A	DROP N/A		BORING LOCATION				
SAMPLER 2" diameter 2' split-spoon			In front of Halstead building, east side of Halladay St.				
SAMPLER HAMMER WEIGHT 140 lbs.	DROP 30"		INSPECTOR E. Gaulin				

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM) Sample	Ambient Air	Time	Dust	Time Date	REMARKS
0-0.5' FILL: Black GRAVEL (GW), fine to medium sand, asphalt fragments.		0		1	1.0	26	13:12	N/A	N/A		N/A	N/A	Heavy rain affecting PID; PID not used
0.5-1.0' FILL: Black, gray and tan SAND (SP), mottled		1				28							
						19							
						12							
2.0-10.5' FILL: Gray to black SAND (SP), firm. Trace coal and glass fragments		2		2	1.0	3	13:21	N/A	N/A		N/A	N/A	
						2							
		3				2							
						2							
0.2' layer of black fine silty sand. Trace Clinker Material (CM) from 4.0'		4		3	1.0	3	13:23	N/A	N/A		N/A	N/A	Organic odors noted
		5				3							
						3							
		6				3							
Black cinders and clinker material (CM), some white ash material (AM).				4	1.0	3	13:25	N/A	N/A		N/A	N/A	No odors, loose, wet.
		7				1							
						2							
						3							
		8		5	1.0	2	13:36	N/A	N/A		N/A	N/A	
						2							
		9				2							
						1							
10.5-11.0' Grayish brown (10YR 5/2) fine to medium SAND (SW), little silt.		10		6	1.0	6	13:40	N/A	N/A		N/A	N/A	Suspected native soil at approximately 10.5'.
						8							
		11				13							
						15							
		12											

LOG OF SOIL BORING SB-25

PROJECT LOCATION: Halladay Street, Jersey City, New Jersey		GROUND ELEVATION (FT. MSL): 12.91	PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: R. Empson	DATE STARTED: 04/13/04	DATE COMPLETED: 04/15/04
DRILLING EQUIPMENT: Hollow Stem Auger		COMPLETION DEPTH (FT BGS): 95'	ROCK DEPTH (FT): 92.5'
TYPE BIT: 4.25" diameter	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST. 43	UNDIST. 0; CORE 0
CASING: N/A	N/A	WATER DEPTH: FIRST 6.0'	COMPL. N/A; 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP N/A	BORING LOCATION: In front of Halstead building, east side of Halladay St.	
SAMPLER: 2" diameter 2' split-spoon			
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP 30"	INSPECTOR: E. Gaulin	

DESCRIPTION	Depth (ft bgs)	Sample Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID Sample	PID Ambient Air	PID Time	PID Dust	PID Time Date	REMARKS
12.0-12.2' Fragment of reddish brown siltstone 12.2-12.6' Light reddish brown (5YR 6/3) fine SILTY SAND (SM)	12	7	0.5	13, 11, 9, 3	13:45	N/A	N/A		N/A	N/A	Organic odors noted.
14.0-14.5' Gray (GLEY1 6/N) SILTY CLAY (CL) 14.5-18.7' Peat (PT) with coarse plant fragments.	14	8	1.5	1, 1, 1, 1	13:52	N/A	N/A		N/A	N/A	
Less organic material from 16.0'	16	9	1.5	3, 5, 5, 3	13:57	N/A	N/A		N/A	N/A	
18.7-20.2' Greenish gray (GLEY2 5/1) CLAY (CL), trace fine sand at top of spoon.	18	10	1.4	4, 5, 4, 5	14:07	N/A	N/A		N/A	N/A	
20.2-21.0' Dark greenish gray (GLEY2 4/1) SILTY SAND and fine to medium SAND (SM), poorly sorted, little (10%) subrounded gravel.	20	11	1.0	5, 7, 9, 9	14:15	N/A	N/A		N/A	N/A	Slight naphthalene-like odor at 21.0'.
22.0-23.7' Dark greenish gray (GLEY2 4/1) fine to medium SAND (SW), little silt. 23.7-24.0' Reddish brown (2.5YR 4/4) fine to medium SAND (SW), trace silt.	22–24	12	2.0	7, 8, 11, 17	14:20	N/A	N/A		N/A	N/A	Naphthalene-like odors, no visual indications of staining.

LOG OF SOIL BORING SB-25

PROJECT LOCATION: Halladay Street, Jersey City, New Jersey			GROUND ELEVATION (FT. MSL): 12.91		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: R. Empson		DATE STARTED: 04/13/04		DATE COMPLETED: 04/15/04
DRILLING EQUIPMENT: Hollow Stem Auger			COMPLETION DEPTH (FT BGS): 95'		ROCK DEPTH (FT): 92.5'
TYPE BIT: 4.25" diameter	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 43	UNDIST. 0	CORE 0
CASING: N/A			WATER DEPTH: FIRST 6.0'	COMPL. N/A	24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: In front of Halstead building, east side of Halladay St.		
SAMPLER: 2" diameter 2' split-spoon					
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: E. Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Dust	Time Date	REMARKS
24.0-36.0' Reddish brown (2.5YR 4/4) fine to medium SAND (SW), trace silt		24		13	1.0	3 5 6 6	14:28	N/A	N/A		N/A	N/A	15:12 Collected sample SB-25 (25.5-26.0) forTCL VOC, TCL SVOC, TAL Metals, CN
		26		14	1.0	5 5 6 7	15:11	N/A	N/A		N/A	N/A	Slight odors
		28		15	2.0	3 4 4 5	15:15	N/A	N/A		N/A	N/A	Firm, wet. Odors still possibly associated with groundwater.
		30		16	1.0	1 2 3 3	15:28	N/A	N/A		N/A	N/A	Odors.
		32		17	1.5	3 4 4 5	15:35	N/A	N/A		N/A	N/A	Naphthalene-like odors.
		34		18	1.0	5 3 3 3	15:45	N/A	N/A		N/A	N/A	Odors.
		36											

LOG OF SOIL BORING SB-25

PROJECT LOCATION: Halladay Street, Jersey City, New Jersey			GROUND ELEVATION (FT. MSL): 12.91		PROJECT NUMBER: 020667601		
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: R. Empson		DATE STARTED: 04/13/04		DATE COMPLETED: 04/15/04		
DRILLING EQUIPMENT: Hollow Stem Auger			COMPLETION DEPTH (FT BGS): 95'		ROCK DEPTH (FT): 92.5'		
TYPE BIT: 4.25" diameter	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 43		UNDIST. 0	CORE 0	
CASING: N/A	N/A		WATER DEPTH: FIRST 6.0'		COMPL. N/A	24HR N/A	
CASING HAMMER: WEIGHT N/A	DROP N/A		BORING LOCATION: In front of Halstead building, east side of Halladay St.				
SAMPLER: 2" diameter 2' split-spoon							
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP 30"		INSPECTOR: E. Gaulin				

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Dust	Time	REMARKS
		36											
36.0-38.5 Reddish brown (2.5YR 4/4) fine to medium SAND (SW), trace silt, grading to fine SILTY SAND (SM)				19	2.0	3 4	15:50	N/A	N/A		N/A	N/A	Odors. Groundwater had greenish tinge.
		37				4							15:59 Collected sample SB-25 (36.0-36.5)
						4							
		38		20	1.5	3 4	15:58	N/A	N/A		N/A	N/A	
38.5-44.7' Reddish brown (2.5YR 4/4) SILTY FINE SAND and FINE SANDY SILT (SM), tight.		39				5							
						5							
		40		21	1.0	2 2	8:40	N/A	N/A		N/A	N/A	Start drilling on 4/14/2004; no PID readings due to rain and humidity
		41				3							Odors. Groundwater had noticable greenish tinge.
						3							
		42		22	2.0	3 4	8:45	N/A	N/A		N/A	N/A	Odors. Green tinge to groundwater.
Becoming coarser with more silty fine sand.		43				6							
						8							
		44		23	2.0	5 6	9:01	N/A	N/A		N/A	N/A	Odors and oil material (OM) 44.0-44.8'. Positive hydrophobic dye test.
44.7-45.1' Reddish brown (2.5YR 4/4) FINE SILTY SAND (SM)		45				7							9:03 Collected sample SB-25 (44.0-44.5) for TCL VOC, TCL SVOC, TAL Metals, CN
45.1-63.5' SILTY FINE SAND (SM)						6							
		46		24	2.0	5 5	9:07	N/A	N/A		N/A	N/A	No sheen but slight odors noted.
47.5-48.0' Reddish gray (2.5YR 5/1) CLAY (CL) with interbedded reddish brown (2.5YR 4/4) SILTY CLAY (CL).		47				8							9:10 Collected sample SB-25 (47.0-47.5) for TCL VOC, TCL SVOC, TAL Metals, CN
						9							
		48											

LOG OF SOIL BORING SB-25

PROJECT LOCATION: Halladay Street, Jersey City, New Jersey			GROUND ELEVATION (FT. MSL): 12.91		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: R. Empson		DATE STARTED: 04/13/04		DATE COMPLETED: 04/15/04
DRILLING EQUIPMENT: Hollow Stem Auger			COMPLETION DEPTH (FT BGS): 95'		ROCK DEPTH (FT): 92.5'
TYPE BIT: 4.25" diameter	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 43	UNDIST. 0	CORE 0
CASING: N/A	N/A		WATER DEPTH: FIRST 6.0'	COMPL. N/A	24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: In front of Halstead building, east side of Halladay St.		
SAMPLER: 2" diameter 2' split-spoon					
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: E. Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Dust	Time Date	REMARKS
48.0-54.0' Reddish gray (2.5YR 5/1) CLAY (CL), some lenses of reddish brown (2.5YR 4/4) silty clay, very firm, low plasticity		48		25	1.5	3 5 4 5	9:20	N/A	N/A		N/A	N/A	9:27 Collected sample SB-25 (49.5-50.0) for TCL VOC, TCL SVOC, TAL Metals, CN
		49											
		50		26	1.5	2 2 4 5	10:33	N/A	N/A		N/A	N/A	Switched to mud rotary. Augers set at 49.0'
50.0' Some lenses of silty fine sand		51											
		52		27	2.0	4 4 6 6	10:48	N/A	N/A		N/A	N/A	No odors
Mostly reddish brown, thinly laminated clay and silty clay		53											
		54		28	2.0	4 4 4 7	11:01	N/A	N/A		N/A	N/A	No odors
54.0-60.0' Reddish gray (2.5YR 5/1) and reddish brown (2.5YR 4/4) CLAY (CL), some red (2.5YR 5/6) silty clay lenses, more plastic		55											
		56		29	2.0	5 5 6 6	11:07	N/A	N/A		N/A	N/A	No odors
Predominantly reddish brown from 57.0'		57											
		58		30	2.0	6 6 5 6	11:10	N/A	N/A		N/A	N/A	PID could not be used due to rain; no odors noted.
Becoming mostly clay, highly plastic		59											
		60											

LOG OF SOIL BORING SB-25

PROJECT LOCATION: Halladay Street, Jersey City, New Jersey		GROUND ELEVATION (FT. MSL): 12.91	PROJECT NUMBER: 020667601	
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: R. Empson	DATE STARTED: 04/13/04	DATE COMPLETED: 04/15/04	
DRILLING EQUIPMENT: Hollow Stem Auger		COMPLETION DEPTH (FT BGS): 95'	ROCK DEPTH (FT): 92.5'	
TYPE BIT: 4.25" diameter	SIZE AND TYPE CORE BARREL	NO. SAMPLES DIST. 43	UNDIST. 0	CORE 0
CASING: N/A	N/A	WATER DEPTH FIRST 6.0'	COMPL. N/A	24HR N/A
CASING HAMMER WEIGHT: N/A	DROP: N/A	BORING LOCATION: In front of Halstead building, east side of Halladay St.		
SAMPLER: 2" diameter 2' split-spoon				
SAMPLER HAMMER WEIGHT: 140 lbs.	DROP: 30"	INSPECTOR: E. Gaulin		

DESCRIPTION	Depth (ft bgs)	Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID Sample	PID Ambient Air	PID Time	PID Dust	PID Time Date	REMARKS
Becoming firmer with more lenses of silty clay 60.0-63.5' Reddish gray (2.5YR 5/1) and reddish brown (2.5YR 4/4) CLAY and SILTY CLAY (CL), laminated, firm	60	31	2.0	6	11:35	N/A	N/A		N/A	N/A	No odors
				8							
	61			9							
				10							
	62	32	2.0	10	11:36	N/A	N/A		N/A	N/A	No odors
				9							
63.5-63.7' Reddish brown (2.5YR 4/4) FINE SILTY SAND and FINE SAND (SM)	63			8							
63.7-64.5' Gray (GLEY 1 6/N) CLAY and SILTY CLAY (CL), laminated				13							
	64	33	2.0	8	11:51	N/A	N/A		N/A	N/A	No odors
65.5-65.0' Reddish gray (2.5YR 5/1) FINE SILTY SAND (SM)				7							
65.0-72.0' Gray (5YR 5/1) and red (2.5YR 5/6) SILTY CLAY and CLAY (CL), laminated	65			9							
				11							
	66	34	2.0	10	11:54	N/A	N/A		N/A	N/A	No odors
				11							
More frequent reddish brown (2.5YR 4/4) silty clay layers.	67			11							
				13							
	68	35	2.0	10	12:10	N/A	N/A		N/A	N/A	No odors
Occasional thin lenses of reddish brown (2.5YR 4/4) silty sand.	69			9							
				9							
				10							
Becoming coarser with trace silty fine sand and sandy fine silt from 71.0-72.0'.	70	36	2.0	7	13:50	N/A	N/A		N/A	N/A	No odors
				5							
	71			7							
				7							
	72										

LOG OF SOIL BORING SB-25

PROJECT LOCATION: Halladay Street, Jersey City, New Jersey			GROUND ELEVATION (FT. MSL): 12.91		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: R. Empson		DATE STARTED: 04/13/04		DATE COMPLETED: 04/15/04
DRILLING EQUIPMENT: Hollow Stem Auger			COMPLETION DEPTH (FT BGS): 29.0	95'	ROCK DEPTH (FT): 92.5'
TYPE BIT: 4.25" diameter	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES	DIST. 43	UNDIST. 0 / CORE 0
CASING: N/A	N/A		WATER DEPTH	FIRST 6.0'	COMPL. N/A / 24HR N/A
CASING HAMMER / WEIGHT: N/A	DROP: N/A		BORING LOCATION: In front of Halstead building, east side of Halladay St.		
SAMPLER: 2" diameter 2' split-spoon					
SAMPLER HAMMER / WEIGHT: 140 lbs.	DROP: 30"		INSPECTOR: E. Gaulin		

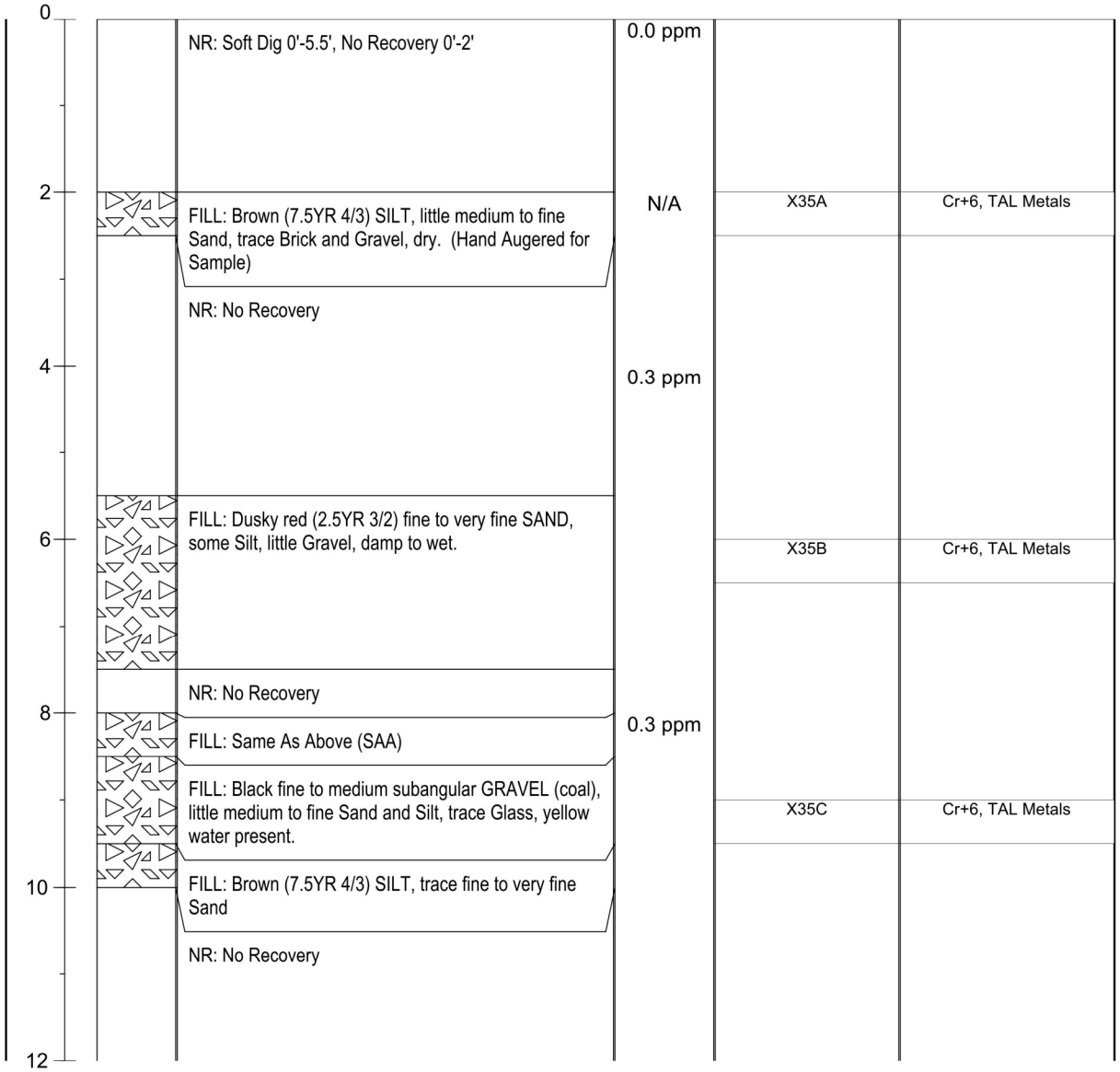
DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Dust	Time Date	REMARKS
72.0-80.0' Reddish brown (2.5YR 4/4) CLAYEY SAND (SC), few lenses of silty sand, becoming more clayey, occasional 1/4" band		72		37	2.0	5 6 6 7	13:52	N/A	N/A		N/A	N/A	No odors
		73											
		74		38	2.0	8 9 10 11	14:10	N/A	N/A		N/A	N/A	No odors
		75											
		76		39	2.0	9 9 11 13	14:20	N/A	N/A		N/A	N/A	No odors
Becoming siltier from 77.5'.		77											
		78		40	2.0	14 13 22 25	14:35	N/A	N/A		N/A	N/A	No odors
Trace (<5%) fine gravel from 79.8-80.0'.		79											
		80		41	0.7	17 19 22 14	14:55	N/A	N/A		N/A	N/A	Gravel consisted of some reddish brown sandstone and siltstone pieces, argillite.
80.0-80.7' TILL: GRAVEL (GW), subangular to subrounded GRAVEL, some silty clay and silty sand.		81											
		82											Switched to collecting spoon every 5' as per discussion with Marlene Lindhardt.
		83											
		84											

LOG OF SOIL BORING SB-25

PROJECT LOCATION: Halladay Street, Jersey City, New Jersey		GROUND ELEVATION (FT. MSL): 12.91	PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: R. Empson	DATE STARTED: 04/13/04	DATE COMPLETED: 04/15/04
DRILLING EQUIPMENT: Hollow Stem Auger		COMPLETION DEPTH (FT BGS): 95'	ROCK DEPTH (FT): 92.5'
TYPE BIT: 4.25" diameter	SIZE AND TYPE CORE BARREL	NO. SAMPLES: DIST. 43	UNDIST. 0; CORE 0
CASING: N/A	N/A	WATER DEPTH: FIRST 6.0'	COMPL. N/A; 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A	BORING LOCATION: In front of Halstead building, east side of Halladay St.	
SAMPLER: 2" diameter 2' split-spoon			
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"	INSPECTOR: E. Gaulin	

DESCRIPTION	Depth (ft bgs)	Sample Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID Sample	PID Ambient Air	PID Time	PID Dust	PID Time/Date	REMARKS
	84										
85.0-85.2' TILL: GRAVEL (GW), subangular to subrounded GRAVEL, some silty clay and silty sand.	85	42	0.2	38 50/3"	15:21	N/A	N/A		N/A	N/A	
	86										
	87										
	88										
	89										
	90	43	0.2	100/5"	15:37	N/A	N/A		N/A	N/A	
90.0-90.2' TILL: GRAVEL (GW), subangular to subrounded GRAVEL, some silty clay and silty sand.	91										
92.5-95.0' Black/dark gray argillite, weathered.	92–93										Had drillers continue to end of rod length (95') to confirm bedrock. Also put a screen at mud tube to confirm bedrock. Rock fragments were same black/dark gray argillite material. Drillers noted that this rock here seemed to be more weathered based on drillig progress.
	94										
End of boring at 95.0'	95										
	96										

ENSR | AECOM	**Client:** PPG	**BORING ID:** X35
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: **Site Investigation**	Page: 1 of 3
	Coordinates: X-611378 Y-682876	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 11.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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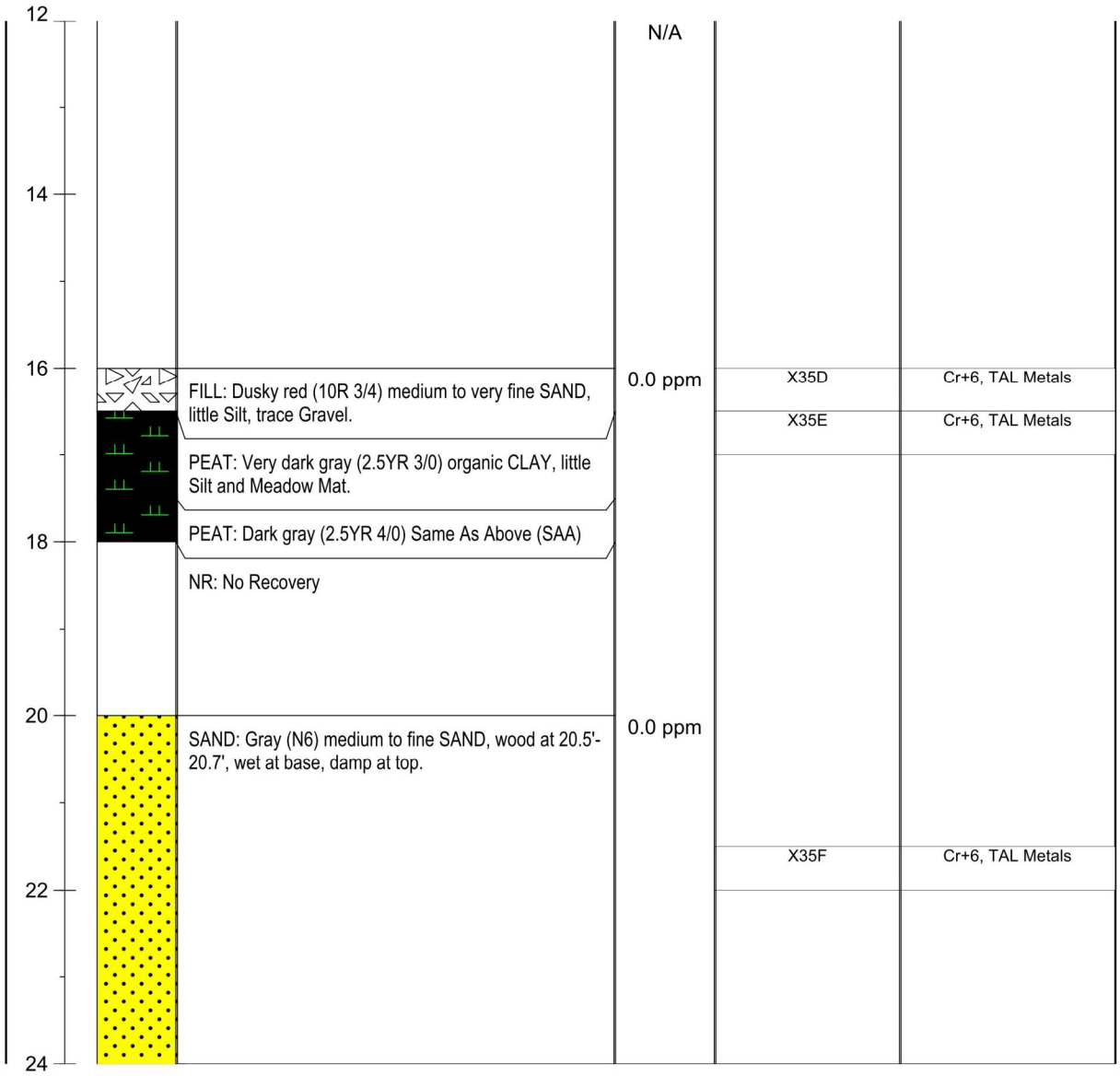
ENSR | AECOM	Client: PPG	BORING ID: X35
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-611378 Y-682876	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 11.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

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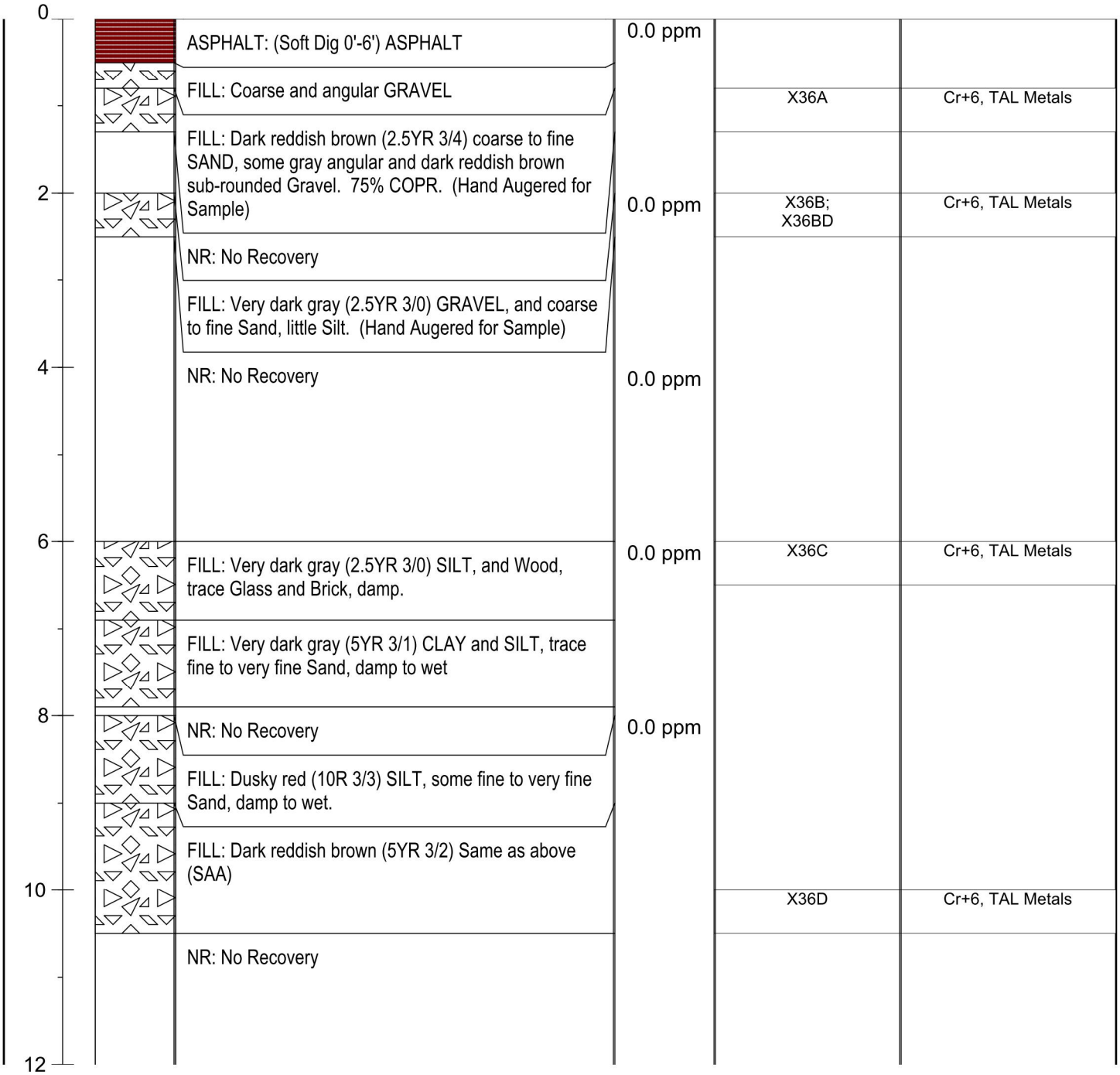
ENSR | AECOM	Client: PPG	BORING ID: X35
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611378 Y-682876	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 11.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
24		NULL: End of Boring at 24 ft.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG	BORING ID: X36
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-611526 Y-683005	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 11.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:



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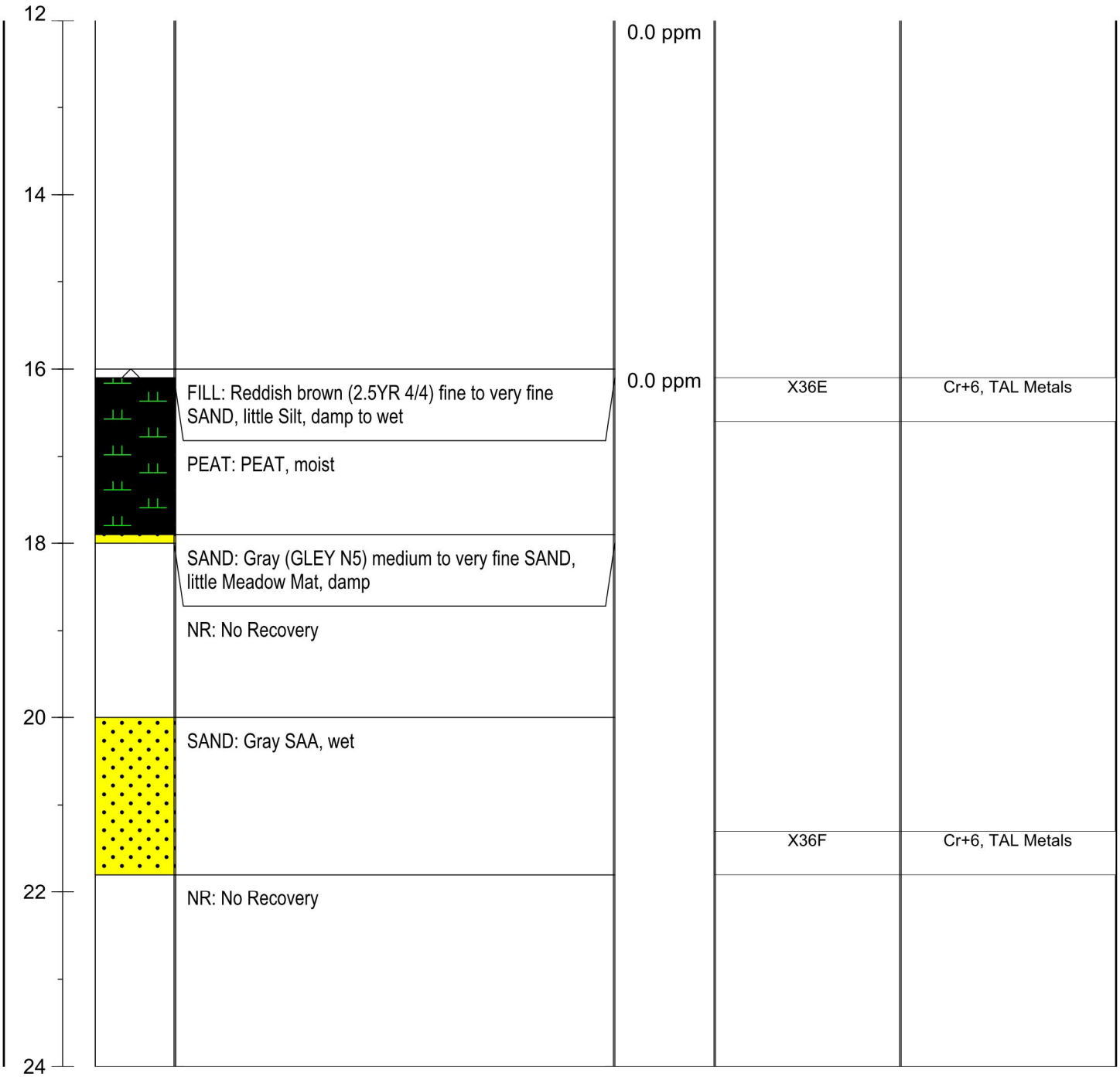
ENSR | AECOM	Client: PPG	BORING ID: X36
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-611526 Y-683005	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 11.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:



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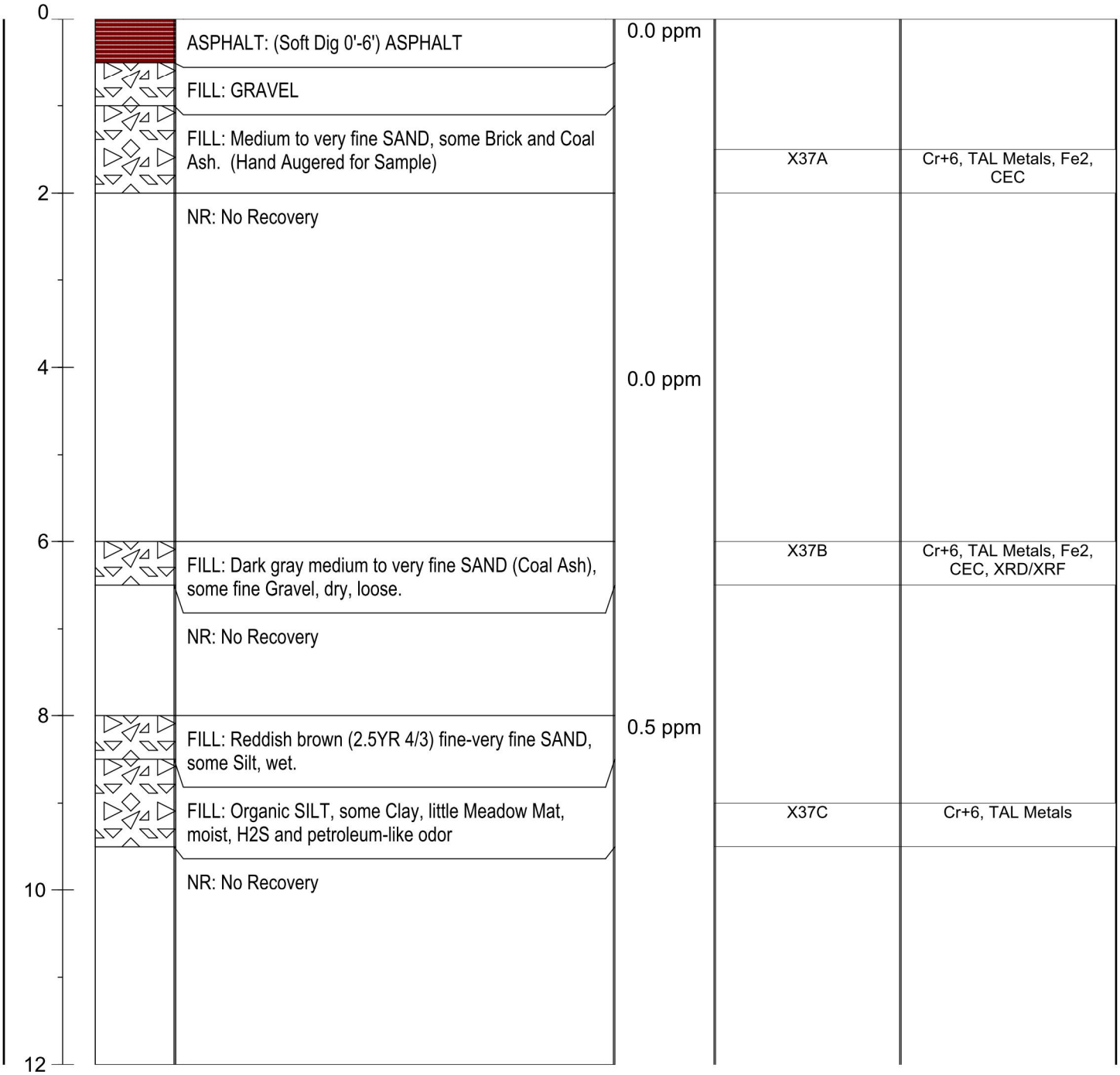
ENSR | AECOM	Client: PPG	BORING ID: X36
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611526 Y-683005	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 11.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
24		NULL: End of Boring at 24 ft.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG	BORING ID: X37
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-611618 Y-683083	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 15.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

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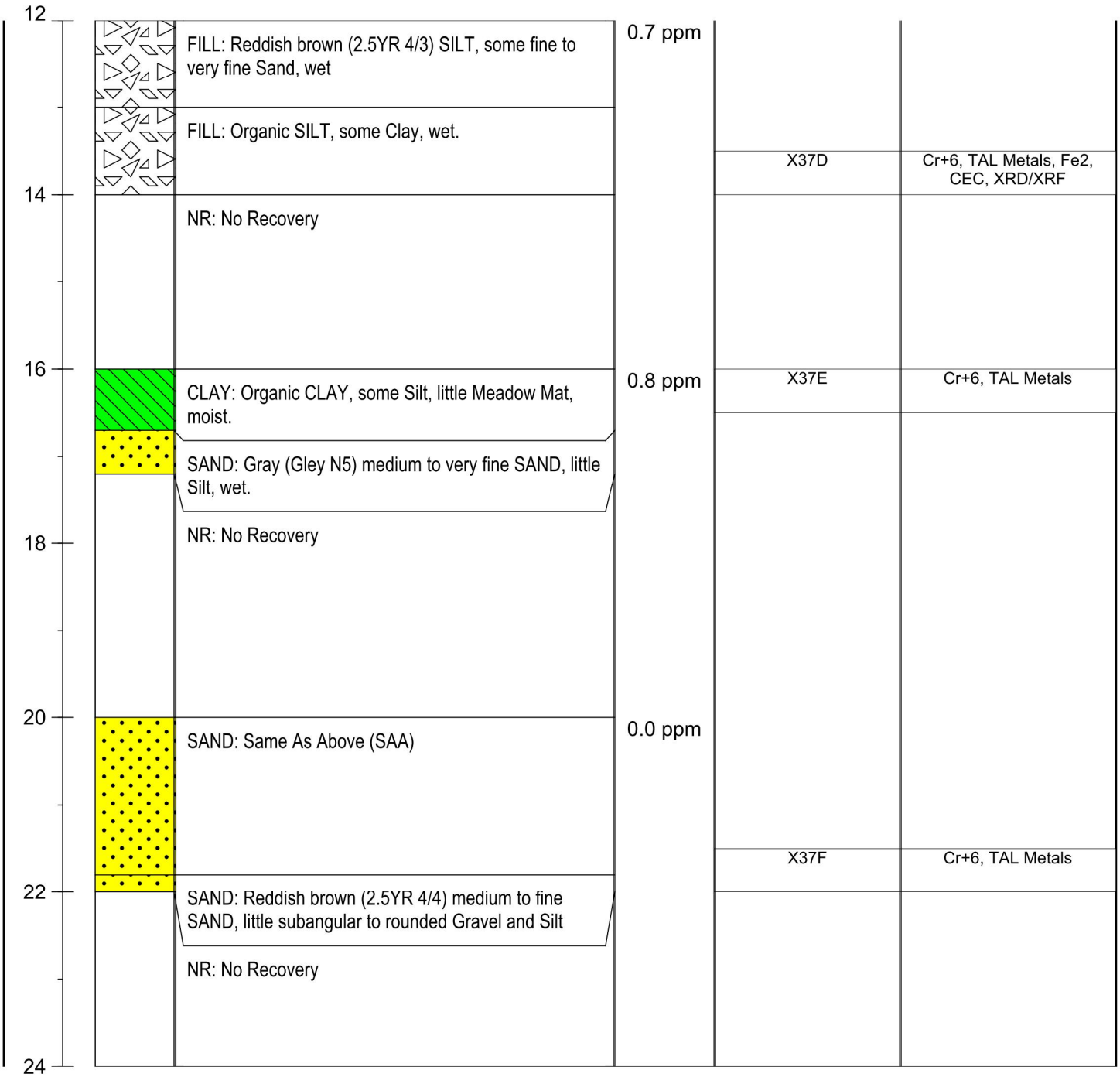
ENSR | AECOM	Client: PPG	BORING ID: X37
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-611618 Y-683083	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 15.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG	BORING ID: X37
	Site: PPG - Jersey City, NJ	
Start Date: 10/17/2005	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611618 Y-683083	Depth of Boring: 24.00
End Date: 10/17/2005	Elevation: 15.00	Geologist: S. McCray
	Drill Subcontractor: Ameridrill	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
24		NULL: End of Boring at 24 ft.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.