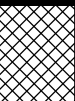


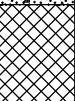

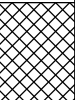


Appendix G

Boring Logs

Boring logs for the remaining sample locations in Forrest Street collected via soil core are included in this package. Logs were not generated for grab samples collected during excavation activities, typically designated by “PB” or “SW” in the Location ID.









Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Hurricane	Coordinates (NJSPNAD83) x: 611670
Date Started Drilling: 11/29/2011	Rig Type:	Coordinates (NJSPNAD83) y: 683682.5
Date Finished Drilling: 12/1/2011	Core Size: 12 in	Boring Total Depth: 15 ft
Logged By: M. Merdinger	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest St		Surface Elevation: 11.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1			dry	ASPHALT FILL		Asphalt and Gravel Very Dark Grayish Brown (10YR 3/2) fine to medium SAND and fine to medium rounded Gravel (5% COPR), little Silt, medium dense.	MW24A-0.0
2			dry	FILL		Dark Reddish Brown (5YR 3/2) fine to medium SAND and fine to medium rounded Gravel (10% COPR), little Silt, medium dense.	MW24A-2.0
3			wet	CONCRETE		Green-stained CONCRETE, weathered.	
4			wet	FILL		Black SILT, little fine angular Gravel, loose. Coal tar odor.	
5			wet	FILL		Black-stained medium to coarse crushed FILL (gravel, coal, glass, ceramics), little fine to coarse Sand and Silt, loose.	MW24A-5.0
6			wet	VOID		Slight coal tar odor. No Recovery.	
7							
8							
9							
10							
11			wet	FILL		Black-stained medium to coarse crushed FILL (gravel, coal, glass, ceramics), little fine to coarse Sand and Silt, loose, sheen from 13.6 to 14.0 ft. Strong coal tar odor.	MW24A-10.0
12							
13							
14			moist	PEAT		Dark Reddish Brown (5YR 3/2) PEAT, high Organics, some Silt, stiff. Sulfur and coal tar odor.	MW24A-14.0
15			moist	SILT AND GRAVEL NULL		Reddish Brown (2.5YR 5/4) SILT and fine angular Gravel, trace fine Sand, very dense. End of boring at 15 ft. Well set at 14 ft.	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611686.5
Date Started Drilling: 2/25/2013 8:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683588.7
Date Finished Drilling: 2/25/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 14 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Site 114 - Y10B		Surface Elevation: 11.26 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	0			NR		NO RECOVERY	
2				NR		NO RECOVERY	
3	0			NR		NO RECOVERY	
4				NR		NO RECOVERY	
5	2	0.0	moist	FILL		ASH, with fine to medium sand, (7.5YR 6/1) gray, non plastic, loose, moist, no odor, no staining.	114-P2B2-Y10B-5.0-5.5
6		0.0	moist	FILL		fine to medium SAND, some ash, (7.5YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	
7	2	0.0	moist	FILL		ASH, with fine sand, (7.5YR 6/1) gray, non plastic loose, moist no odor no staining	114-P2B2-Y10B-6.5-7.0
8		0.0	moist	FILL		fine to medium SAND, some ash, trace silt, (7.5YR 5/1) gray, non plastic, soft, moist, no odor, no staining.	114-P2B2-Y10B-8.5-9.0
9	1.6	0.0	moist	FILL		fine to medium silty SAND, with coarse gravel, (7.5YR 4/1) dark gray, moist, sheen, oil-like odor and material found at bottom 5" of spoon.	
10		24.7	moist	NR		NO RECOVERY	
11	2			FILL		fine sandy SILT, some tar-like material and roots, (7.5YR 3/1) very dark gray, non plastic, soft, moist, slight tar odor, sheen.	114-P2B2-Y10B-10.5-11.0
12		18.7	moist	FILL		fine sandy SILT, with tar-like material and roots, (7.5YR 2.5/1) black, non plastic, soft, moist, sheen.	114-P2B2-Y10B-12.2-12.7
13	2	1.9	moist	MH		UNDno SILT, trace organic fibers, (7.5YR 5/1) gray, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	114-P2B2-Y10B-12.7-13.2
14							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No COPR or GGM encountered in any interval of this boring.

LOG OF SOIL BORING B901
AECOM Note: Ground surface elevation = 11.6 ft NAVD88

PROJECT LOCATION Halladay Street, Jersey City, New Jersey				GROUND ELEVATION (FT. MSL) 14.0		PROJECT NUMBER 020667601							
DRILLING CONTRACTOR Advanced Drilling, Inc.			FOREMAN Craig Jablonski		DATE STARTED 08/15/03		DATE COMPLETED 08/15/03						
DRILLING EQUIPMENT Geoprobe				COMPLETION DEPTH (FT BGS) 16.0		ROCK DEPTH (FT) Not Encountered							
TYPE BIT		Direct Push Casing		SIZE AND TYPE CORE BARREL		NO. SAMPLES		DIST.	4	UNDIST.	0	CORE	0
CASING		2-inch diameter		2-in diam 4-ft acetate liner		WATER DEPTH		FIRST	5	COMPL.	N/A	24HR	N/A
CASING HAMMER		WEIGHT N/A		DROP N/A		BORING LOCATION Northern portion of site, within footprint of former Coal shed area (AOC9)							
SAMPLER		Direct Push Casing											
SAMPLER HAMMER		WEIGHT N/A		DROP N/A		INSPECTOR John Karon							

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
0.0-1.0' Reddish Brown (2.5YR 4/3) FILL: silty fine sand with brick, concrete and Chromate Ore Processing Residual (COPR) pieces, firm, dry		- 0 -		1	2.4	N/A	8:30	0.0	0.0	830	N/A	0.0-0.5' Sample for SVOC, TAL Metals, PCBs, Cyanide and Cr ⁺⁶ at 08:40	
		- - -						0.0					
		- 1 -						0.0					
		- - -						0.0					
		- 2 -						0.0			1.5-2.0' Sample for VOC at 08:40		
		- - -						0.0					
		- 3 -						0.0					
		- - -									1.9-2.4' Sample for TAL Metals, PCBs and Cr ⁺⁶ at 10:40		
		- 4 -											
		- - -											
1.0-1.5' FILL: Concrete		- 5 -		2	3.0	N/A	8:50	0.0	0.0	850	0.0	5.0-5.5' Sample for VOC, SVOC, TAL Metals, PCBs, Cyanide and Cr ⁺⁶ at 09:00	
		- - -						0.0					
		- 6 -						0.0					
		- - -						0.0					
		- 7 -						0.0			5.8-6.3' Sample for TAL Metals and Cr ⁺⁶ at 10:45		
		- - -											
		- 8 -											
		- - -									8.0-12.0' White and Yellow AM, silty fine sand and coal pieces, loose, wet		
		- 9 -											
		- 10 -											
1.5-5.0' Dark Brown (7.5YR 3/2) FILL: silty fine sand, glass, root matter, COPR, firm, dry		- 11 -		3	2.0	N/A	900	0.0	0.0	900	0.0	0.0-0.5' Sample for SVOC, TAL Metals, PCBs, Cyanide and Cr ⁺⁶ at 08:40	
		- - -						0.0					
		- 12 -						0.0					
		- - -						0.0					
		- 13 -						0.0					
		- - -											
		- 14 -											
		- - -											
		- 15 -											
		- - -											

LOG OF SOIL BORING B901

AECOM Note: Ground Surface Elevation = 11.6 ft NAVD88

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)			PROJECT NUMBER							
Halladay Street, Jersey City, New Jersey			14.0			020667601							
DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov (ft)	Penetr. Resist. BL/ft/in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
12.0-13.0' White and Yellow AM, silty fine sand and coal pieces, loose, wet		- 12 -		4	3.1	N/A	910	0.0	0.0	910	N/A		13.0-13.5' Sample for VOC, SVOC, TAL Metals, PCBs, Cyanide and Cr+6 at 0915
		- - -						0.0					
13.0-15.1' Yellowish Brown (10YR 5/6) Silty Fine Sand, firm, wet		- 13 -						0.0					
		- - -						0.0					
		- 14 -						0.0					
		- - -						0.0					
		- 15 -						0.0					
		- - -						0.0					
End of boring at 16.0'		- 16 -											
		- - -											
		- 17 -											
		- - -											
		- 18 -											
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N:\project\2002\0206676\01\5-Reports\2007-11 RIR\Appendices\Appendix D - PS

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611753.901
Date Started Drilling: 4/13/2011	Rig Type:	Coordinates (NJSPNAD83) y: 683586.835
Date Finished Drilling: 4/13/2011	Core Size: 12 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Scott Mikaelian	Depth to Water: 5
Physical Location:		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				ASPHALT		Black Asphalt	
1	5	0.5		FILL		Very Dark Grey (Gley 1 3/N) Silty fine to medium angular GRAVEL, little fine to medium Sand, trace Fill Material (brick, slag) and COPR (10%), loose, moist. Light Coal Tar odor.	EF-B06-0.5
2							EF-B06-2.0
3		0.2					EF-B06-2.5
4							EF-B06-4.0
5	1.9	0		FILL		Stained Black medium to coarse angular GRAVEL, little Silt and medium Sand, loose, wet, sheen. Very string Coal Tar odor. Black-stained to Light Olive Brown (2.5YR 5/3) SILT, little medium Sand, slightly mottled, soft to semi-firm, wet, sheen. Coal Tar odor. No Recovery	
6				FILL			EF-B06-6.0
7				VOID			
8							
9							
10	2.9			FILL		Olive Brown (2.5YR 5/3) and Yellowish Brown (10YR 5/4) mottled SILT, little fine Sand, semi-cohesive, semi-firm, wet, slight sheen. Coal Tar odor.	EF-B06-10.0
11		0.6					
12				SP-SM			EF-B06-12.0
13		1		VOID		No Recovery	
14							
15	4.5			SP-SM		Reddish Brown (2.5YR 4/3) fine SAND and SILT, little fine to medium rounded Gravel, loose, wet. No odor.	
16		0.5					EF-B06-17.0
17		1					
18		0					
19		0					
20	5			VOID		No Recovery	
21		0.6		SW-SM			EF-B06-22.0
22							
23		0.1					
24		0.1					
25						End of boring at 25 ft.	

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: COPR (10%) identified from 0.5-5.0 ft bgs.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611907.006
Date Started Drilling: 4/14/2011	Rig Type:	Coordinates (NJSPNAD83) y: 683429.385
Date Finished Drilling: 4/14/2011	Core Size: 12 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location:		Surface Elevation: 13.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				ASPHALT		Black Asphalt	
1			dry	FILL		Very Pale Brown (10YR 7/2) fine to medium CLAYEY SAND, loose, dry. Slight Coal Tar odor.	EF-B07-0.6
2			moist	FILL		Very Dark Brown (10YR 2/2) CLAYEY SILT, trace Fill Material (coal, slag, wood) and COPR (10%), loose, moist. Coal Tar odor.	EF-B07-2.0
3							EF-B07-2.5
4			moist to wet	FILL		Brown (10YR 4/3) fine SAND and interbedded SILT, trace medium to fine Gravel, loose, moist to wet at 5.4'. Slight Coal Tar odor.	EF-B07-4.0
5							
6							
7				NR		No Recovery	EF-B07-6.0
8						Test Pit EF-07-TP was conducted to 3' bgs at this location and no CCPW was observed.	
9							
10			wet	SP-SM		Reddish Brown (2.5YR 4/3) very fine SAND interbedded with SILT, wet, loose. No odor.	EF-B07-11.0
11							
12							
13				NR		No Recovery	
14							
15			wet	SP		Weak Red (10YR 4/4) very fine to fine SAND, little Silt, trace fine angular Gravel, wet, loose to moderately dense. No odor.	EF-B07-17.0
16							
17							
18							
19							
20							
21							
22							EF-B07-22.0
23							
24							
25							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDo - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDo - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: COPR (10%) identified from 1.3-3.0 ft bgs.

Project Name: PPG Garfield Ave	Drilling Company: Badger	
Project Number: 60314351.GA.DE.PDI.FOR	Drilling Method:	Coordinates (NJSPNAD83) x: 611906.7
Date Started Drilling: 11/15/2017	Rig Type:	Coordinates (NJSPNAD83) y: 683430
Date Finished Drilling: 11/15/2017	Core Size:	Boring Total Depth: 3.167 ft
Logged By: R. Kantor	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Forrest St		Surface Elevation: 13.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.167			Asphalt		Asphalt	
				FILL		Road base	
				Asphalt		Asphalt	
				FILL		Tan-brown fine sand and silt, little to trace fill debris. No visual CCPW	
2				Asphalt		Asphalt	
				FILL		Tan-brown silt, little fine to medium sand, trace fill debris. No Visual CCPW	
3						End of test pit	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) No CCPW (COPR/GGM) encountered in any interval of the test pits













Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 611913.58999
Date Started Drilling: 9/11/2012 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683437.321078
Date Finished Drilling: 9/11/2012 9:25:00 AM	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: Ben Daniels	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street -EF-109		Surface Elevation: 13.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	ASPHALT		ASPHALT	EF-B109-1.0-1.5
		0.0	dry	FILL		fine to coarse SAND, some fine to coarse gravel little silt, (7.5YR 3/2) dark brown, dry, no odor, angular, (Little glass)	
2		0.0	moist	FILL		SILT, little fine sand and fill material, (7.5YR 5/2) brown, dry, no odor, (Brick, ceramic, coal)	
3		1.3	moist	GW		SILT, trace coal, (2.5Y 6/4) light yellowish brown, moist, no odor	
4		15.8	moist	SP		fine SAND, and fine to coarse gravel, (2.5Y 6/4) light yellowish brown, moist, no odor, angular	
5	3.7	2.5	moist	ML		fine SAND, trace medium gravel and medium sand, (5YR 5/4) reddish brown, moist, moderate chemical odor, subangular	
6		83.4		ML		fine silty SAND, (5YR 5/4) reddish brown, loose, moist to wet, moderate chemical odor, Wet at 5.8	
7						fine SAND, and silt, (5YR 5/4) reddish brown, medium dense, strong chemical odor, Slight sheen.	
8				NR		NO RECOVERY	
9	3.1	0.8	wet	GW		fine to medium SAND, (5YR 5/4) reddish brown, dense, wet, slight chemical odor	
10		0.9	wet	ML		SILT, some fine sand, (5YR 5/4) reddish brown, stiff, wet, slight chemical odor	
11		1.1	wet	SW		fine to medium SAND, (5YR 5/4) reddish brown, dense, wet, moderate chemical odor	
12				NR		NO RECOVERY	
13	2.8	0.8	wet	SW		fine to medium SAND, (5YR 5/4) reddish brown, dense, wet, no odor	
14		0.7	wet	SP		fine SAND, (5YR 5/4) reddish brown, dense, wet, no odor	
15				NR		NO RECOVERY	
16	3.9	0.3	wet	SW		fine to medium SAND, (5YR 5/4) reddish brown, dense, wet, no odor	EF-B109-21.0-21.5
17		1.6	wet	ML		SILT, and fine sand, (5YR 5/4) reddish brown, medium stiff, wet, no odor	
18		0.1	wet	SP		fine SAND, (5YR 5/4) reddish brown, wet, no odor	
19				NR		NO RECOVERY	
20							
21							
22							
23							
24							
25							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611817.1
Date Started Drilling: 6/20/2015 8:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683551.8
Date Finished Drilling: 6/19/2015 3:00:00 PM	Core Size: 2 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA

Physical Location:						Surface Elevation:	11.1 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	3.5	0.0		CONCRETE		CONCRETE, no staining	EF110A-0.8-1.3
		0.0	dry	FILL		GRAVEL, dry, no odor, no staining	
		0.0	dry	FILL		medium to coarse SAND, with fine gravel, (7.5YR 3/2) dark brown, dry, no odor, no staining	
		0.0	dry	FILL		medium SAND, with coal, (7.5YR 2.5/1) black, dry, no odor, no staining	
		0.0	slightly moist	FILL		fine to medium SAND, trace fine gravel trace silt, (10YR 5/4) yellowish brown, slightly moist, no odor, no staining	
4-5				NR		NO RECOVERY	EF110A-2.0-2.5
5-6				NR		NO RECOVERY	EF110A-3.0-3.5
6-10	4	0.0	wet	FILL		fine SAND, and silt, (10YR 5/2) grayish brown, wet, no odor, no staining	EF110A-5.0-5.5
		0.0	moist	FILL		medium SAND, and gravel, (10YR 5/1) gray, moist, no odor, no staining	EF110A-7.0-7.5
		0.0	moist	SM		medium SAND, trace fine gravel, (5YR 4/3) reddish brown, moist, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-8.0-8.5
				NR		NO RECOVERY	
11-15	5	0.0	moist	SM		medium SAND, trace fine gravel, (5YR 4/3) reddish brown, moist, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-10.0-10.5
		0.0	wet	SM		medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-12.0-12.5
							EF110A-14.0-14.5
16-20	4.2	0.0	wet	SM		medium SAND, (5YR 4/3) reddish brown, wet, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-16.0-16.5
							EF110A-18.0-18.5
				NR		NO RECOVERY	
20-21		0.0	wet	SM		medium SAND, (5YR 4/3) reddish brown, wet, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-20.0-20.5

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) No COPR or GGM present in any interval of this boring. 2) UNDno= 'Undisturbed native deposits, Non-Organic'

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/6/16 08:17

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611817.1
Date Started Drilling: 6/20/2015 8:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683551.8
Date Finished Drilling: 6/19/2015 3:00:00 PM	Core Size: 2 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location:		Surface Elevation: 11.1 ft NAVD88

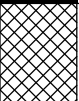
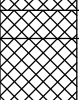
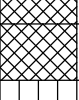
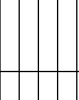
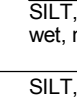
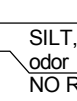
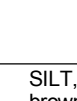
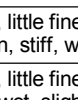
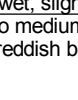
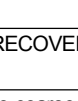
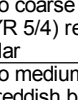
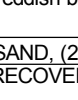
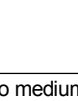


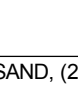
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23-24	5						EF110A-22.0-22.5
24-25							EF110A-24.0-24.5
25-26		0.0	wet	SM		medium SAND, (5YR 4/3) reddish brown, wet, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-26.0-26.5
26-27	5						EF110A-28.0-28.5
27-28							
28-29							
29-30							
30-31		0.0	wet	SM		medium SAND, (5YR 4/3) reddish brown, wet, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-30.0-30.5
31-32	5						EF110A-32.0-32.5
32-33							
33-34							EF110A-34.0-34.5
34-35							
35-36		0.0	wet	SM		medium SAND, (5YR 4/3) reddish brown, wet, no odor, no staining, UNDno. Soils consistent with UNDno.	EF110A-36.0-36.5
36-37	5						EF110A-38.0-38.5
37-38							
38-39							EF110A-39.5-40.0
39-40							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) No COPR or GGM present in any interval of this boring. 2) UNDno= 'Undisturbed native deposits, Non-Organic'.

PPG - 2012-09 RA PPG LOGS_A.GDT - 12/6/16 08:17

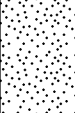
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 611795.95763
Date Started Drilling: 9/11/2012 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683564.16692
Date Finished Drilling: 9/11/2012 11:10:00 AM	Core Size: 2 in	Boring Total Depth: 30 ft
Logged By: Ben Daniels	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street -EF-111		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1		0.0	dry	ASPHALT FILL		silty SAND, little fine to coarse gravel and fill material, (7.5YR 5/1) gray, dry, no odor, angular, (Brick, ash, cinders)	EF-B111-0.1-0.6
2		0.0	dry	FILL		silty SAND, little fine to medium gravel and fill material, (7.5YR 4/1) dark gray, dry, no odor, angular, (Brick, metal, coal)	
3		2.0	moist	FILL		silty SAND, little fine to medium gravel trace fill material, (7.5YR 3/2) dark brown, moist, slight HC odor, angular, (Brick, wood fragments)	
4		0.0	moist	FILL		SILT, little fine sand trace fine gravel, (7.5YR 4/1) dark gray, moist, no odor, subrounded, Trace coal.	
5		0.0	wet	ML		SILT, and fine sand, (10Y 6/1) greenish gray, medium soft, wet, no odor	
6							EF-B111-6.0-6.5
7	3	1.1	wet	ML		SILT, (10YR 5/4) yellowish brown, stiff, wet, no odor	
8		0.0	wet	ML		SILT, little fine sand, (7.5YR 5/6) strong brown, stiff, wet, no odor	EF-B111-7.5-8.0
9				NR		NO RECOVERY	
10							
11		0.3	wet	SM		SILT, little fine sand and fine to medium gravel, (7.5YR 5/4) brown, stiff, wet, no odor, angular	
12	3.9	0.4	wet	ML		SILT, little fine to medium gravel, (2.5YR 4/4) reddish brown, soft, wet, slight HC odor, angular	EF-B111-11.0-11.5
13		0.2	wet	SW		fine to medium SAND, little fine to coarse gravel, (2.5YR 5/4) reddish brown, dense, wet, slight HC odor, angular	
14				NR		NO RECOVERY	EF-B111-13.0-13.5
15							
16		0.0	wet	SW		fine to coarse SAND, little silt and fine to coarse gravel, (2.5YR 5/4) reddish brown, dense, wet, slight HC odor, angular	EF-B111-15.0-15.5
17	2.9	0.3	wet	SW		fine to medium SAND, little fine to medium gravel, (2.5YR 5/4) reddish brown, dense, wet, no odor, angular,	
18		0.1	wet	SP		fine SAND, (2.5YR 5/4) reddish brown, dense, wet, no odor	EF-B111-17.0-17.5
19				NR		NO RECOVERY	
20							
21		0.1	wet	SW		fine to medium SAND, (2.5YR 5/4) reddish brown, medium dense, wet, slight HC odor	EF-B111-20.0-20.5
22	2.9	0.0	wet	SP		fine SAND, (2.5YR 5/4) reddish brown, dense, wet, no odor	
23				NR		NO RECOVERY	EF-B111-22.4-22.9
24							
25		0.0	wet	SP		fine SAND, (2.5YR 5/4) reddish brown, dense, wet, no odor	EF-B111-25.0-25.5

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDo - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDo - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 611795.95763
Date Started Drilling: 9/11/2012 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683564.16692
Date Finished Drilling: 9/11/2012 11:10:00 AM	Core Size: 2 in	Boring Total Depth: 30 ft
Logged By: Ben Daniels	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street -EF-111		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
27	3.1			NR		NO RECOVERY	
28							
29							
30							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:







Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611795.9
Date Started Drilling: 6/27/2015 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683573.2
Date Finished Drilling: 6/27/2015 2:45:00 PM	Core Size: 2 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street -EF-111A		Surface Elevation: 10.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.5	0.0		FILL		CONCRETE.	
		0.0	dry	FILL		medium to coarse SAND, trace fine gravel, trace ceramics, (5YR 3/1) very dark gray, dry, no odor, no staining. fine to medium SAND, with ash and cinders, trace coal, (5YR 4/1) dark gray, dry, no odor, no staining. fine SAND, trace silt little medium gravel, (7.5YR 3/2) dark brown, slightly moist, no odor, no staining.	EF-111A-0.4-0.9
		0.0	dry	FILL			
2		0.0	dry	FILL			EF-111A-2.0-2.5
3							EF-111A-3.0-3.5
4				NR		NO RECOVERY.	
5	5	0.0	wet	FILL		fine SAND, trace silt, little medium gravel, (7.5YR 3/2) dark brown, wet, no odor, no staining.	EF-111A-5.0-5.5
6							
7							EF-111A-7.0-7.5
8		0.0	wet	SM		UNDno fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	EF-111A-8.0-8.5
9							
10							
11	3.5	0.0	wet	SM		UNDno fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	EF-111A-10.0-10.5
12		0.0	wet	SM		UNDno medium SAND, with fine gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	
13		0.0	wet	SM		UNDno medium SAND, trace fine gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	EF-111A-12.0-12.5
14				NR		NO RECOVERY.	EF-111A-13.0-13.5
15	3.5	0.0	wet	SM		UNDno medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	EF-111A-15.0-15.5
16							
17							EF-111A-17.0-17.5
18							EF-111A-18.0-18.5
19				NR		NO RECOVERY.	
20		0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	EF-111A-20.0-20.5
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611795.9
Date Started Drilling: 6/27/2015 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683573.2
Date Finished Drilling: 6/27/2015 2:45:00 PM	Core Size: 2 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street -EF-111A		Surface Elevation: 10.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23	3.5						EF-111A-22.0-22.5
24				NR		NO RECOVERY.	EF-111A-23.0-23.5
25		0.0	wet	SM		UNDno medium SAND,(5YR 4/3) reddish brown,wet,no odor,no staining.Soils consistent with UNDno.	EF-111A-25.0-25.5
26				NR		NO RECOVERY.	
27	0.8						
28							
29							
30		0.0	wet	SM		UNDno medium SAND,(5YR 4/3) reddish brown,wet,no odor,no staining.Soils consistent with UNDno.	EF-111A-30.0-30.5
31							
32	3.5						EF-111A-32.0-32.5
33							EF-111A-33.0-33.5
34				NR		NO RECOVERY.	
35		0.0	wet	SM		UNDno medium SAND,(5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	EF-111A-35.0-35.5
36							
37	5						EF-111A-37.0-37.5
38							
39							EF-111A-39.0-39.5
40							EF-111A-39.5-40.0

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:




Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611754.9
Date Started Drilling: 4/1/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683549.1
Date Finished Drilling: 4/1/2014 12:15:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS1		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-2	2.5	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		fine to medium SAND, little cinders, trace coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining. medium SAND, trace very fine gravel, (7.5YR 4/3) brown, non plastic, soft, slightly moist, no odor, no staining.	FS1-0.3-0.8
		0.0	slightly moist	FILL			FS1-2.0-2.5
				NR		NO RECOVERY	
5-10	4.5	0.0	wet	FILL		fine to medium silty SAND, some medium gravel, (10YR 5/2) grayish brown, non plastic, soft, wet, no odor, no staining.	FS1-5.0-5.5
		0.0	wet	FILL		fine to medium SAND, little fine gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining.	FS1-7.0-7.5
				NR		NO RECOVERY	FS1-9.0-9.5
		0.0	wet	FILL		fine to medium SAND, little fine gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining.	FS1-11.0-11.5
13-15	4.6	0.0	wet	SM		medium SAND, little fine gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS1-13.0-13.5
				NR		NO RECOVERY	
		0.0	wet	SM		medium to coarse SAND, little very fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS1-15.0-15.5
				NR		NO RECOVERY	FS1-17.0-17.5
20-23	2.8	0.0	wet	SM		medium to coarse SAND, little very fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS1-20.0-20.5
				NR		NO RECOVERY	FS1-22.0-22.5
				NR		NO RECOVERY	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.




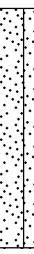
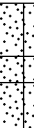
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611754.9
Date Started Drilling: 4/1/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683549.1
Date Finished Drilling: 4/1/2014 12:15:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS1		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
25	5	0.0	moist to wet	SM		fine to medium SAND, some silt, trace fine gravel, (5YR 4/3) reddish brown, non plastic, soft, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS1-25.0-25.5
26							
27							FS1-27.0-27.5
28		0.0	moist	SM		fine SAND, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS1-29.0-29.5
29							
30	3.9	0.0	moist	SM		fine SAND, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS1-31.0-31.5
31							
32							FS1-33.0-33.5
33							
34				NR		NO RECOVERY	
35	3	0.0	moist	SM		fine SAND, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS1-35.0-35.5
36							
37							FS1-37.0-37.5
38							
39				NR		NO RECOVERY	
40							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611766
Date Started Drilling: 3/24/2014 11:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683580.4
Date Finished Drilling: 3/24/2014 2:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS2		Surface Elevation: 10 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	0			FILL		DENSE GRADE AGGREGATE, fill material used for FSTP2.	
2							
3							
4							
5	3.8	0.0	moist	FILL		fine to medium SAND, with fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
6		0.0	moist	FILL		fine SAND, with silt, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	
7							
8							FS2-8.0-8.5
9				NR		NO RECOVERY	
10	3.2	0.0	moist	FILL		fine SAND, with silt, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	FS2-10.0-10.5
11							
12		0.0	wet	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS2-12.0-12.5
13							
14				NR		NO RECOVERY	
15	3.6	0.0	wet	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS2-15.0-15.5
16							
17							FS2-17.0-17.5
18							FS2-18.0-18.5
19				NR		NO RECOVERY	
20		0.0	wet	SM		fine SAND, little silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS2-20.0-20.5
21		0.0	wet	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	
		0.0	wet	SM			

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611766
Date Started Drilling: 3/24/2014 11:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683580.4
Date Finished Drilling: 3/24/2014 2:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS2		Surface Elevation: 10 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23	4.6	0.0	moist	SM		staining, red fine sands. Soils consistent with UNDno. medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS2-22.0-22.5
24						medium SAND, with medium gravel, (5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS2-24.0-24.5
25		0.0	wet	NR SM		NO RECOVERY	
26						medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS2-26.0-26.5
27	4						
28							FS2-28.0-28.5
29				NR		NO RECOVERY	
30		0.0	wet	SM		medium SAND, trace very fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS2-30.0-30.5
31	5						
32							FS2-32.0-32.5
33							
34							FS2-34.0-34.5
35		0.0	wet	SM		medium SAND, trace very fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	
36	5						FS2-36.0-36.5
37							
38							FS2-38.0-38.5
39							
40							

Notes:

bgs - below surface grade
MM - meadow mat











COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611787.1
Date Started Drilling: 3/20/2014 12:20:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683580.5
Date Finished Drilling: 3/20/2014 2:35:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS3		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		CONCRETE		CONCRETE, no staining.	
2		0.0	slightly moist	FILL		fine to medium SAND, some fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	FS3-1.0-1.5
3		0.0	dry to slight moist	FILL		fine SAND, some silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, dry to slightly moist, no odor, no staining.	FS3-3.0-3.5
4		0.0		FILL		SILT, trace fine sand, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	
5				NR		NO RECOVERY	
6	5	0.0	wet	FILL		fine SAND, with silt, (10YR 5/4) yellowish brown, non plastic, soft, wet, no odor, no staining.	FS3-5.0-5.5
7							FS3-7.0-7.5
8							
9		0.0	wet	FILL		fine SILT, and fine sand, (10YR 6/6) brownish yellow, non plastic, soft, wet, no odor, no staining.	FS3-9.0-9.5
10	4	0.0	wet	FILL		fine SILT, and fine sand, (10YR 6/6) brownish yellow, non plastic, soft, wet, no odor, no staining.	FS3-11.0-11.5
11							
12		0.0	moist	SM		fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS3-13.0-13.5
13							
14				NR		NO RECOVERY	
15	1	0.0	moist	SM		fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS3-15.0-15.5
16							
17							
18							
19							
20		0.0	wet	SM		medium SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS3-20.0-20.5
21							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.


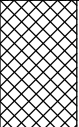
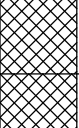
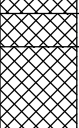
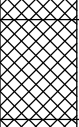
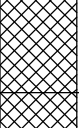
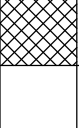

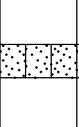

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611787.1
Date Started Drilling: 3/20/2014 12:20:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683580.5
Date Finished Drilling: 3/20/2014 2:35:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS3		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23-24	5						FS3-22.0-22.5
24-25							FS3-24.0-24.5
25-26		0.0	wet	SM		medium SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS3-26.0-26.5
26-27	5						
27-28							FS3-28.0-28.5
28-29							
29-30							
30-31		0.0	wet	SM		medium SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS3-30.0-30.5
31-32	3						FS3-32.0-32.5
32-33				NR		NO RECOVERY	
33-34							
34-35							
35-36		0.0	wet	SM		medium SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS3-35.0-35.5
36-37	3						FS3-37.0-37.5
37-38				NR		NO RECOVERY	
38-39							
39-40							
40-41							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611782.3
Date Started Drilling: 3/21/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683584.9
Date Finished Drilling: 3/21/2014 9:00:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS4		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		CONCRETE, no staining.	
2		0.0	dry to slight moist	FILL		fine to medium SAND, some fine to medium gravel, trace coal, (10YR 2/2) very dark brown, non plastic, stiff, dry to slightly moist, no odor, no staining.	FS4-1.0-1.5
3							FS4-3.0-3.5
4		0.0	slightly moist	FILL		fine SAND, some silt, (10YR 4/2) dark grayish brown, non plastic, medium stiff, slightly moist, no odor, no staining.	
5	5	0.0	slightly moist	FILL		fine SAND, some silt, (10YR 4/2) dark grayish brown, non plastic, medium stiff, slightly moist, no odor, no staining.	FS4-5.0-5.5
6		0.0	moist to wet	FILL		fine silty SAND, (10YR 5/2) grayish brown, non plastic, soft, moist to wet, no odor, no staining.	
7		0.0	wet	FILL		fine silty SAND, (7.5YR 4/3) brown, non plastic, medium stiff, wet, no odor, no staining.	FS4-7.0-7.5
8							
9	1.5	0.0	slightly moist	FILL		SILT, trace fine sand, (10YR 5/4) yellowish brown, non plastic, medium stiff, slightly moist, no odor, no staining.	FS4-9.0-9.5
10		0.0	moist to wet	FILL		fine to medium SAND, trace silt, some medium to coarse gravel, (10YR 8/2) very pale brown, non plastic, medium stiff, moist to wet, no odor, no staining.	
11							FS4-11.0-11.5
12				NR		NO RECOVERY	
13	0.5	0.0	moist	SM		UNDno fine to medium SAND, (5YR 4/4) reddish brown, loose, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS4-15.0-15.5
14				NR		NO RECOVERY	
15							
16							
17	0.0	0.0	wet	SM		UNDno medium SAND, with medium gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS4-20.0-20.5
18							
19							
20							
21							

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromite ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611782.3
Date Started Drilling: 3/21/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683584.9
Date Finished Drilling: 3/21/2014 9:00:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS4		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23-24	5						FS4-22.0-22.5
24-25							FS4-24.0-24.5
25-26		0.0	wet	SM		fine to medium SAND, (5YR 4/3) reddish brown, non plastic, soft to medium stiff, wet, no odor, no staining, red fine sands. Green water identified at 26.0-28.0 ft bgs. Soils consistent with UNDno.	FS4-26.0-26.5
26-27	4						
27-28							FS4-28.0-28.5
28-29							
29-30				NR		NO RECOVERY	
30-31		0.0	saturated	SM		medium SAND, (5YR 4/3) reddish brown, non plastic, soft to medium stiff, saturated, red fine sands. Soils consistent with UNDno.	FS4-30.0-30.5
31-32	3						
32-33							FS4-32.0-32.5
33-34				NR		NO RECOVERY	
34-35							
35-36		0.0	wet	SM		medium SAND, (5YR 3/4) dark reddish brown, non plastic, soft to medium stiff, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS4-35.0-35.5
36-37		0.0	saturated	SM		medium SAND, (5YR 4/3) reddish brown, non plastic, soft to medium stiff, saturated, red fine sands. Soils consistent with UNDno.	
37-38	2.6						FS4-37.0-37.5
38-39				NR		NO RECOVERY	
39-40							
40-41							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Air Rotary	Coordinates (NJSPNAD83) x: 611728.2
Date Started Drilling: 3/28/2014 8:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683577.9
Date Finished Drilling: 3/28/2014 10:05:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS5		Surface Elevation: 9.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1		0.0	dry	FILL		fine to coarse SAND, little gravel, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	FS5-0.3-0.8
2	3.5	0.0	dry	FILL		fine to medium SAND, some ash and gravel, (5YR 3/4) dark reddish brown, loose, dry, no odor, no staining.	FS5-1.0-1.5
3		0.0	dry	FILL		BRICK, some trace fine sand, (2.5YR 3/6) dark red, non plastic, loose, dry, no odor, no staining.	
4		0.0	dry	FILL		medium to coarse GRAVEL, some brick, some ash, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	FS5-3.0-3.5
5				NR		NO RECOVERY	
6		0.0	wet	FILL		fine to medium SAND, some gravel, some ash, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	FS5-5.0-5.5
7	2.5	0.0	moist	FILL		fine SAND, some ash, some gravel, (10YR 4/2) dark grayish brown, non plastic, loose, moist, no odor, no staining.	FS5-7.0-7.5
8				NR		NO RECOVERY	
10		0.0	wet	FILL		fine to medium silty SAND, trace fine gravel, (7.5YR 4/2) brown, non plastic, soft, wet, no odor, no staining.	FS5-10.0-10.5
12	5						FS5-12.0-12.5
13		0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-14.0-14.5
15		0.0	moist	SM		UNDno medium SAND, and coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-16.0-16.5
18	3.5						FS5-18.0-18.5
19				NR		NO RECOVERY	
20		0.0	wet	SM		UNDno medium silty SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-20.0-20.5
21							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Air Rotary	Coordinates (NJSPNAD83) x: 611728.2
Date Started Drilling: 3/28/2014 8:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683577.9
Date Finished Drilling: 3/28/2014 10:05:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS5		Surface Elevation: 9.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23	5						FS5-22.0-22.5
24		0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-24.0-24.5
25		0.0	wet	SM		UNDno medium SAND, and fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-26.0-26.5
26	5						
27		0.0	wet	SM		UNDno medium silty SAND, and fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-28.0-28.5
28							
29							
30		0.0	wet	SM		UNDno medium silty SAND, and fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand, 31.0-31.6ft bgs trace of green water. Soils consistent with UNDno.	FS5-30.0-30.5
31	4						FS5-32.0-32.5
32		0.0	wet	SM		UNDno medium SAND, and fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-33.0-33.5
33				NR		NO RECOVERY	
34							
35		0.0	wet	SM		UNDno medium silty SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-35.0-35.5
36	5						FS5-37.0-37.5
37							
38							
39		0.0	wet	SM		UNDno medium SAND, and fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS5-39.0-39.5
40							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611741.6
Date Started Drilling: 3/27/2014 8:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683564.4
Date Finished Drilling: 3/27/2014 1:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS15		Surface Elevation: 9.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.2	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		fine to medium SAND, some fine gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, dry, no odor, no staining.	FS15-0.3-0.8
		0.0	dry	FILL			
		0.0	dry	FILL			
2						medium SAND, with ash, trace cinders, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	FS15-2.0-2.5
3						fine to medium SAND, some gravel, (7.5YR 4/2) brown, non plastic, medium stiff, dry, no odor, no staining.	
4				NR		NO RECOVERY	
5	3.5	0.0	wet	FILL		fine SAND, (10YR 4/2) dark grayish brown, non plastic, soft, wet, no odor, no staining.	FS15-5.0-5.5
6							
7							FS15-7.0-7.5
8		0.0	wet	FILL		fine to medium SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	FS15-8.0-8.5
9				NR		NO RECOVERY	
10	3.6	0.0	wet	FILL		fine to medium SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	FS15-10.0-10.5
11		0.0	wet	SM		UNDno medium SAND, with fine gravel, (5YR 4/3) reddish brown, non plastic, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-11.0-11.5
12							
13							FS15-13.0-13.5
14				NR		NO RECOVERY	
15	3.7	0.0	wet	SM		UNDno medium SAND, with fine gravel, (5YR 4/3) reddish brown, non plastic, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-15.0-15.5
16		0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-16.0-16.5
17							
18							FS15-18.0-18.5
19				NR		NO RECOVERY	
20	5	0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-20.0-20.5
21							
22		0.0	wet	SM		UNDno medium SAND, with fine gravel, (5YR 4/3) reddish brown, non plastic, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-22.0-22.5
23							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611741.6
Date Started Drilling: 3/27/2014 8:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683564.4
Date Finished Drilling: 3/27/2014 1:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS15		Surface Elevation: 9.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
							FS15-24.0-24.5
25	5	0.0	wet	SM		UNDno medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-26.0-26.5
26		0.0	slightly moist	SM		UNDno fine SAND, (5YR 4/3) reddish brown, non plastic, soft, slightly moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-28.0-28.5
27							
28							
29	5	0.0	slightly moist	SM		UNDno fine SAND, (5YR 4/3) reddish brown, non plastic, soft, slightly moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-30.0-30.5
30		0.0	wet	SM		UNDno medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FS15-32.0-32.5
31							
32							
33	5	0.0	moist	SM		UNDno fine to medium SAND, some medium to coarse gravel, (5YR 4/3) reddish brown, non plastic, medium stiff, moist, no odor, no staining. Soils consistent with UNDno.	FS15-34.0-34.5
34		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-36.0-36.5
35							
36							
37	5	0.0	slightly moist	SM		UNDno fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS15-38.0-38.5
38		0.0	wet	SM		UNDno medium SAND, some silt, (5YR 4/3) reddish brown, non plastic, medium stiff, slightly moist, no odor, no staining. Soils consistent with UNDno.	
39							
40						UNDno fine to medium SAND, some silt, (5YR 4/3) reddish brown, non plastic, medium stiff, wet, no odor, no staining. Soils consistent with UNDno.	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611707.6
Date Started Drilling: 4/2/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683608.3
Date Finished Drilling: 4/2/2014 11:20:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS16		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1		0.0	dry	FILL		medium SAND, some medium to coarse gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	FS16-0.3-0.8
		0.0	dry	FILL		BRICK, some trace fine sand, (2.5YR 3/6) dark red, non plastic, loose, dry, no odor, no staining.	FS16-1.0-1.5
2	4	0.0	dry	FILL		fine to medium SAND, with medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
3		29.0	dry	FILL		fine to medium SAND, some fine to medium gravel, (7.5YR 2.5/1) black, non plastic, medium stiff, dry, strong hydrocarbon odor, hydrocarbon staining, MGP like material.	FS16-3.0-3.5
4		29.0	slightly moist	FILL		medium to coarse SAND, some fine to medium gravel, (2.5YR 3/1) dark reddish gray, non plastic, loose, slightly moist, strong hydrocarbon odor, hydrocarbon staining, MGP like material.	
5				NR		NO RECOVERY	
6		29.0	wet	FILL		fine to medium SAND, with fine to medium gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, strong hydrocarbon odor, hydrocarbon staining, MGP like material.	FS16-5.0-5.5
7	2.5	0.0	dry	FILL		fine to medium silty SAND, trace fine gravel, (7.5YR 4/1) dark gray, non plastic, soft, dry, no odor, no staining.	FS16-7.0-7.5
8				NR		NO RECOVERY	
9							
10		0.0	moist	FILL		fine to medium silty SAND, (10YR 4/3) brown, non plastic, soft, moist, no odor, no staining.	FS16-10.0-10.5
11							
12	5	0.0	slightly moist	FILL		medium SAND, some silt, (10YR 5/6) yellowish brown, non plastic, soft, slightly moist, no odor, no staining.	FS16-12.0-12.5
13		0.0	slightly moist	SM		fine to medium SAND, some fine to medium gravel, (5YR 3/4) dark reddish brown, non plastic, loose, slightly moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS16-14.0-14.5
14							
15		0.0	dry	SM		fine to medium SAND, some fine to medium gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS16-15.0-15.5
16							
17	4.5						FS16-17.0-17.5
18							
19							FS16-19.0-19.5
20				NR		NO RECOVERY	
21		0.0	dry	SM		fine to medium SAND, some fine to medium gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS16-21.0-21.5
22	4						
23							FS16-23.0-23.5

Notes:

bgs - below surface grade
MM - meadow mat




COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611707.6
Date Started Drilling: 4/2/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683608.3
Date Finished Drilling: 4/2/2014 11:20:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS16		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				NR		NO RECOVERY	
25	3	0.0	dry	SM		fine to medium SAND, some coarse gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS16-25.0-25.5
26							
27							FS16-27.0-27.5
28							
29				NR		NO RECOVERY	
30	5	0.0	dry	SM		fine SAND, some silt, some fine gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS16-30.0-30.5
31							
32							FS16-32.0-32.5
33							
34							FS16-34.0-34.5
35	1	0.0	dry	SM		fine SAND, some silt, some fine gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS16-35.0-35.5
36							
37							
38							
39				NR		NO RECOVERY, refusal at 36 feet.	
40							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611724.3
Date Started Drilling: 6/11/2015 8:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683591
Date Finished Drilling: 6/19/2015 3:00:00 PM	Core Size: 2 in	Boring Total Depth: 46 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street -FS16A		Surface Elevation: 10 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT.	
1	4	45.0	dry	FILL		fine SAND,with tar-like material some coal,(7.5YR 2.5/1) black,dry to slightly moist,strong tar odor,no staining.	
2							
3		25.0	moist	FILL		fine to medium SAND,with ash and coal,cinders,(10YR 4/2) dark grayish brown,moist,slight tar-like odor,no staining.	
4				NR		NO RECOVERY.	
5	3.9	28.0	moist	FILL		fine to medium SAND,with ash and coal,cinders,(10YR 4/2) dark grayish brown,moist, slight tar-like odor,no staining.	
6		85.0	wet	FILL		ASH,little fine sand, (7.5YR 4/1) dark gray,wet, strong petroleum-like odor,shoen.	
7		4.2	moist	FILL		fine SAND,trace silt,(7.5YR 4/1) dark gray, moist,no odor,slight shoen.	
8		5.3	moist	FILL		fine SAND,trace silt,(10YR 5/2) grayish brown,moist,slight naphthalene-like odor,slight shoen.	
9				NR		NO RECOVERY.	
10	5	5.5	moist	FILL		fine SAND,trace silt,(10YR 5/2) grayish brown,moist,slight naphthalene-like odor,slight shoen.	
11		0.0	slightly moist	SM		UNDno fine SAND,some silt,(5YR 5/2) reddish gray,slightly moist,no odor,no staining. Soils consistent with UNDno.	
12							
13							
14	4	0.0	moist	SM		UNDno medium to coarse SAND,trace fine to medium gravel,(5YR 4/3) reddish brown,moist,no odor,no staining. Soils consistent with UNDno.	
15		0.0	moist	SM		UNDno medium to coarse SAND,with fine to medium gravel,(5YR 4/3) reddish brown,moist,no odor,no staining. Soils consistent with UNDno.	
16							
17	4	0.0	moist	SM		UNDno medium to coarse SAND, with fine to medium gravel, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
18							
19		0.0		NR		NO RECOVERY.	
20	4	0.0	moist	SM		UNDno medium to coarse SAND, with fine to medium gravel, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
21							
22		0.0	dry	SM		UNDno fine SAND,with silt,(5YR 4/3)reddish brown,dry,no odor,no staining. Soils consistent with UNDno.	
23							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: 1) No COPR or GGM present in any interval of this boring. 2) UNDno= 'Undisturbed native deposits, Non-Organic'.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611724.3
Date Started Drilling: 6/11/2015 8:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683591
Date Finished Drilling: 6/19/2015 3:00:00 PM	Core Size: 2 in	Boring Total Depth: 46 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street -FS16A		Surface Elevation: 10 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
25				NR		NO RECOVERY.	
26	5	0.0	dry	SM		UNDno fine SAND,with silt,(5YR 4/3) reddish brown,dry,no odor,no staining. Soils consistent with UNDno.	
27							
28							
29							
30							
31				NR		NO RECOVERY.	
32							
33							
34							
35							
36	5	0.0	wet	SM		UNDno fine to medium SAND, trace fine gravel trace silt, (5YR 4/3) reddish brown, wet, no odor no staining, UNDno. Soils consistent with UNDno.	FS16A-36.0-36.5
37							
38							FS16A-38.0-38.5
39							
40	6	0.0	wet	SM		UNDno fine to medium SAND,trace silt,(5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	FS16A-40.0-40.5
41							
42							FS16A-42.0-42.5
43							
44							FS16A-44.0-44.5
45							
46							FS16A-45.5-46.0

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) No COPR or GGM present in any interval of this boring. 2) UNDno= 'Undisturbed native deposits, Non-Organic'.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611680.8
Date Started Drilling: 3/31/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683634.5
Date Finished Drilling: 3/31/2014 1:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Forrest Street - FS17		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT			
		0.0	dry	FILL		medium to coarse SAND, some gravel, some ash, (5YR 4/2) dark reddish gray, non plastic, loose, dry, no odor, no staining, trace COPR nodules.	FS17-0.3-0.8
1		0.0	dry	FILL		ASH, (10YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	FS17-1.0-1.5
2	3.5	15.0	dry	FILL		ASH, cinders, trace medium to coarse gravel, (10YR 3/1) very dark gray, (5Y 3/1) very dark gray, non plastic, loose, dry, slight hydrocarbon odor, no staining.	
3		29.0	moist	FILL		medium to coarse GRAVEL, USCS_700, (7.5YR 2.5/1) black, non plastic, medium stiff, moist, strong hydrocarbon odor, hydrocarbon staining, MGP.	FS17-3.0-3.5
4				NR		NO RECOVERY	
5		29.0	moist	FILL		fine SAND, some fine gravel, (7.5YR 2.5/1) black, non plastic, medium stiff, moist, strong hydrocarbon odor, hydrocarbon staining, MGP like material.	FS17-5.0-5.5
6	2.5						
7				NR		NO RECOVERY	FS17-7.0-7.5
8							
9							
10		0.0	wet	FILL		fine silty SAND, (10YR 7/3) very pale brown, low plasticity, soft, wet, no odor, no staining.	FS17-10.0-10.5
11	5						
12							FS17-12.0-12.5
13		0.0	slightly moist	SM		UNDno fine SAND, with fine gravel, (5YR 4/4) reddish brown, non plastic, soft, slightly moist, no odor, no staining, some red fine sand. Soils consistent with UNDno.	
14		0.0	slightly moist	SM		UNDno fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, soft, slightly moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS17-14.0-14.5
15		0.0	dry	SM		UNDno fine to medium SAND, some medium to coarse gravel, (5YR 4/3) reddish brown, non plastic, medium stiff, dry, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS17-16.0-16.5
16	3.5						
17		0.0	dry	SM		UNDno fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS17-18.0-18.5
18				NR		NO RECOVERY	
19							
20		0.0	slightly moist	SM		fine to medium SAND, with medium to coarse gravel, trace ceramics, (5YR 4/3) reddish brown, non plastic, loose, slightly moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	FS17-20.0-20.5
21				NR		NO RECOVERY	FS17-21.0-21.5

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:










Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611680.8
Date Started Drilling: 3/31/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683634.5
Date Finished Drilling: 3/31/2014 1:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Forrest Street - FS17		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23	1.5						
24							
25		0.0	wet	SM		medium SAND, trace very fine gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS17-25.0-25.5
26							
27	5						FS17-27.0-27.5
28							
29							FS17-29.0-29.5
30		0.0	wet	SM		medium SAND, trace silt, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS17-30.0-30.5
31							
32	3						FS17-32.0-32.5
33				NR		NO RECOVERY	
34							
35		0.0	dry	SM		UNDno fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS17-35.0-35.5
36							
37	5						FS17-37.0-37.5
38		0.0	dry	SM		UNDno fine to medium SAND, and silt, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining, red fine sands. Soils consistent with UNDno.	
39							FS17-39.0-39.5
40							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611840
Date Started Drilling: 7/11/2015 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683526.3
Date Finished Drilling: 7/11/2015 2:30:00 PM	Core Size: 3.0 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS23		Surface Elevation: 11.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.5	0.0		CONCRETE		CONCRETE, no staining.	FS23-0.3-0.8
		0.0	slightly moist	FILL		medium SAND, with coal and cinders, (5YR 2.5/1) black, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL		medium SAND, trace fine gravel, (5YR 3/4) dark reddish brown, slightly moist, no odor, no staining.	
2		0.0	slightly moist	FILL		fine SAND, trace silt, (10YR 3/1) very dark gray, slightly moist, no odor, no staining.	FS23-2.0-2.5
3		0.0	slightly moist			medium SAND, with silt, (10YR 5/2) grayish brown, moist, no odor, no staining.	FS23-3.0-3.5
4		0.0		NR		NO RECOVERY.	
5	5	0.0	moist	FILL		medium SAND, with silt, (10YR 5/2) grayish brown, moist, no odor, no staining.	FS23-5.0-5.5
6							FS23-7.0-7.5
7							
8		0.0	wet	SM		UNDno medium SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS23-9.0-9.5
9							
10		0.0	wet	SM		UNDno medium to coarse SAND, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS23-10.0-10.5
11							
12	2.5						FS23-12.0-12.5
13		0.0		NR		NO RECOVERY.	
14							
15		0.0	wet	SM		UNDno medium to coarse SAND, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS23-15.0-15.5
16							FS23-17.0-17.5
17	3.5						
18							FS23-18.0-18.5
19		0.0		NR		NO RECOVERY.	
20		0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown, wet, no odor no staining. Soils consistent with UNDno.	FS23-20.0-20.5
21							
22	5						FS23-22.0-22.5
23							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: 1) No COPR or GGM present in any interval of this boring. 2) UNDno= 'Undisturbed native deposits, Non-Organic'.

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611840
Date Started Drilling: 7/11/2015 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683526.3
Date Finished Drilling: 7/11/2015 2:30:00 PM	Core Size: 3.0 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS23		Surface Elevation: 11.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
25	5	0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown,wet,no odor no staining. Soils consistent with UNDno.	FS23-24.0-24.5
26							FS23-26.0-26.5
27							FS23-28.0-28.5
28							FS23-30.0-30.5
29	5	0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	FS23-32.0-32.5
30							FS23-34.0-34.5
31							FS23-36.0-36.5
32							FS23-38.0-38.5
33	5	0.0	wet	SM		UNDno medium SAND, (5YR 4/3) reddish brown,wet, no odor,no staining. Soils consistent with UNDno.	FS23-39.5-40.0
34							
35							
36							
37							
38							
39							
40							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste
Comments: 1) No COPR or GGM present in any interval of this boring. 2) UNDno= 'Undisturbed native deposits, Non-Organic'.




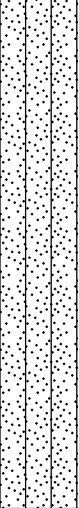
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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.3	0.0		ASPHALT FILL		ASPHALT	
1	4.7	0.0	dry to moist			medium to coarse GRAVEL, little sand, (7.5YR 4/1) dark gray, dry to moist, no odor, no staining. FSTP2 comprised mostly of quarry process stone. No visible CCPW/green staining.	
2							
3							
4							
5							
							FSTP2-4.3-4.8 (Water Line)

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/2/16 09:27

Notes: bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste			
Comments: No CCPW/GGM identified.			








Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 611769.573669
Date Started Drilling: 3/6/2014 10:18:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683584.160905
Date Finished Drilling: 3/6/2014 3:20:00 PM	Core Size:	Boring Total Depth: 8 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSTP3		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.3	0.0		ASPHALT		ASPHALT	
1		0.0	dry to moist	FILL		fine to medium GRAVEL, little sand, (7.5YR 3/1) very dark gray, dry to moist, no odor, no staining, FSTP3 comprised mostly of quarry process stone. No visible CCPW/green staining.	
2							
3							
4	7.7						FSTP3-4.6-5.1 (Water Line)
5							
6							
7							FSTP3-6.8-7.3 (Sewer Line)
8							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: No CCPW/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611828.7
Date Started Drilling: 9/9/2016 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683539.8
Date Finished Drilling: 9/9/2016 11:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 3.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 11.01 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		CONCRETE		Concrete and gravel sub-base, no staining.	
2			dry	FILL		CINDERS, (5YR 2.5/1) black, loose, dry, no odor, no staining. fine silty SAND, trace ash, (7.5YR 4/3) brown, moist to wet, no odor, no staining, water at 3.5 feet.	NFS-PDI-DD11B-1.0-1.5
3			moist to wet	FILL			NFS-PDI-DD11B-3.0-3.5
4				NR		NO RECOVERY	
5	5	0.0	wet	FILL		fine silty SAND, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining.	NFS-PDI-DD11B-5.0-5.5
6			wet	FILL		fine silty SAND, little coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor.	NFS-PDI-DD11B-7.0-7.5
7							NFS-PDI-DD11B-9.0-9.5
8							NFS-PDI-DD11B-9.5-10.0
9	5	0.0	wet	SP		fine to medium SAND, trace silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-DD11B-10.0-10.5
10							NFS-PDI-DD11B-11.0-11.5
11							NFS-PDI-DD11B-13.0-13.5
12							NFS-PDI-DD11B-15.0-15.5
13	5	0.0	wet	SP		fine to coarse SAND, trace fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-DD11B-17.0-17.5
14							NFS-PDI-DD11B-19.0-19.5
15							NFS-PDI-DD11B-20.0-20.5
16							
17	1	0.0					
18							
19							
20							
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611637.5
Date Started Drilling: 8/30/2016 7:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683687.2
Date Finished Drilling: 8/30/2016 9:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: Eric Stone	Project Manager: Scott Mikaelian	Depth to Water: 9
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 14.3 ft NAVD88

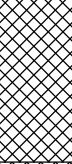



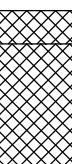
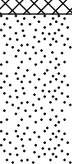
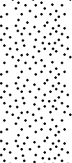
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	1.0	dry	FILL		medium to coarse GRAVEL, (5Y 5/1) gray, loose, dry, no odor, no staining.	NFS-PDI-V12B-0.4-0.9
2			dry	FILL		fine to medium SAND, some asphalt, little ash slag, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	NFS-PDI-V12B-2.0-2.5
3			dry	FILL		ASPHALT MILLINGS, (5Y 2.5/1) black, loose, dry, no odor, no staining.	NFS-PDI-V12B-4.0-4.5
4			dry	FILL		fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	NFS-PDI-V12B-6.0-6.5
5			dry	FILL		Concrete debris, dry, no odor, no staining.	NFS-PDI-V12B-8.0-8.5
6	5	1.6	dry	FILL		fine to medium SAND, some ash slag, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	NFS-PDI-V12B-10.0-10.5
7			dry	FILL		fine to medium SAND, some fine gravel, little fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	NFS-PDI-V12B-12.0-12.5
8			wet	FILL		CINDERS, some fine to medium sand, (5YR 2.5/1) black, loose, wet, moderate MGP-like odor and staining, water at 9.0 feet.	NFS-PDI-V12B-14.0-14.5
9	5	19.5	wet	FILL		CINDERS, (5YR 2.5/1) black, loose, wet, moderate MGP-like odor, product soaked.	NFS-PDI-V12B-15.0-15.5
10							NFS-PDI-V12B-15.5-16.0
11							
12							
13							
14	5	9.5	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight MGP-like odor, no staining. Soils consistent with MM.	NFS-PDI-V12B-16.0-16.5
15			wet	SM		SILT, trace organics, (7.5YR 6/4) light brown, soft, wet, no odor, no staining. Soils consistent with UNDorg.	NFS-PDI-V12B-17.0-17.5
16			wet	SP		fine to coarse SAND, some fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-V12B-18.0-18.5
17							
18							
19							
20							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611663.271
Date Started Drilling: 11/11/2016 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683673.419
Date Finished Drilling: 11/11/2016 9:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 11.38 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	1.5	dry	FILL		fine to coarse SAND, some fine to medium gravel, little fill debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	
2							
3			dry to moist	FILL		fine to medium SAND, little ash, trace cinders, (7.5YR 3/3) dark brown, medium dense, dry to moist, slight MGP-like odor, no staining.	
4	4	24.0					
5			wet	FILL		CINDERS, (7.5YR 2.5/1) black, loose, wet, moderate MGP-like odor, no staining, sheen, water at 5.0 feet.	
6							
7	5	2.0					NFS-PDI-W12BR-6.0-6.5
8							
9				NR		NO RECOVERY	
10	5	2.0	wet	FILL		CINDERS, (5Y 2.5/1) black, loose, wet, moderate MGP-like odor, no staining, sheen.	NFS-PDI-W12BR-8.0-8.5
11			wet	FILL		fine silty SAND, little fine gravel, concrete and fill debris, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining.	
12							
13	5	0.0	wet	SP		fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-W12BR-12.0-12.5
14							
15							
16	5	0.0					NFS-PDI-W12BR-14.0-14.5
17							
18							
19	1	0.0					NFS-PDI-W12BR-16.0-16.5
20							
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

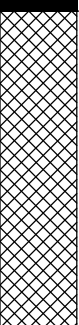
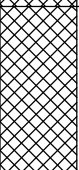
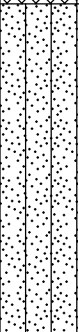
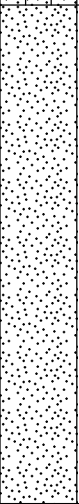
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611754.64
Date Started Drilling: 6/16/2016 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683589.94
Date Finished Drilling: 6/16/2016 11:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.28 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4	0.0		ASPHALT		Asphalt and gravel sub-base.	P4-FOR-AA11B-6.5-7.0
			dry to moist	FILL		fine to coarse SAND, trace fine to medium gravel and fill debris, (7.5YR 4/2) brown, loose, dry to moist, no odor, no staining.	
			moist	FILL		ASH, trace fine to medium sand and coal, (7.5YR 3/4) dark brown, loose, moist, no odor, no staining.	
				NR		NO RECOVERY	
5-8	4.5	0.0	saturated	FILL		ASH, trace fine to medium sand, (7.5YR 3/4) dark brown, loose, saturated, no odor, no staining, water at 5.0 feet.	
			wet	FILL		SILT, trace ash, (5Y 5/1) gray, medium stiff, wet, no odor, no staining.	
			wet	OL		SILT, trace fine sand, (10Y 4/2) dark grayish olive, medium stiff, wet, no odor, no staining. Soils consistent with UNDno.	
				NR		NO RECOVERY	
10-13	5	0.0	wet	OL		SILT, trace fine sand, (7.5YR 6/3) light brown, medium stiff, wet, no odor, no staining. Soils consistent with UNDno.	
			saturated	SM		fine silty SAND, (5YR 4/4) reddish brown, soft, saturated, no odor, no staining. Soils consistent with UNDno.	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.








Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611755.146
Date Started Drilling: 10/19/2016	Rig Type:	Coordinates (NJSPNAD83) y: 683591.009
Date Finished Drilling: 10/19/2016	Core Size: 3.0	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.277 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	ASPHALT FILL		ASPHALT fine to coarse SAND, trace fine to medium gravel, coal and cinders, (5YR 4/1) dark gray, loose, dry, no odor, no staining.	
2							
3							
4							
5							
6	5	0.0	moist to wet	FILL		SILT, trace ash and coal, (7.5YR 4/2) brown, soft, moist to wet, no odor, no staining, water at 6.0 feet.	P4-FOR-AA11BR-7.0-7.5
7							
8							
9							
10							
11	5	0.0	wet	SM		SILT, trace fine gravel, (7.5YR 6/1) gray, soft, wet, no odor, no staining. Soils consistent with UNDno.	
12							
13							
14							
15							
16	5	0.0	wet	SP		medium to coarse SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-AA11BR-14.0-14.5
17							
18							
19							
20							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611755.62
Date Started Drilling: 6/22/2016 10:10:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683605.98
Date Finished Drilling: 6/22/2016 11:25:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 9.81 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0	dry	ASPHALT FILL		Asphalt and gravel sub-base.	P4-FOR-AA12B-0.2-0.7
			moist to wet	FILL		fine to medium SAND, trace fine gravel, (5Y 4/1) dark gray, loose, dry, no odor, no staining.	
						fine silty SAND, little ash, trace fine gravel, (2.5YR 3/3) dark reddish brown, medium dense, moist to wet, no odor, no staining.	P4-FOR-AA12B-2.0-2.5
			wet	FILL		fine sandy SILT, (5YR 6/1) gray, medium dense, wet, no odor, no staining.	P4-FOR-AA12B-4.0-4.5
				NR		NO RECOVERY	
6-10	4.5	0.0	wet	FILL		SILT, trace fine sand, (2.5Y 4/1) dark gray, medium dense, wet, no odor, no staining, water at 5.0 feet.	P4-FOR-AA12B-6.0-6.5
			wet	ML		SILT, (5YR 6/3) light reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-AA12B-6.5-7.0
				NR		NO RECOVERY	
12-14	4	0.0	wet	ML		SILT, (5YR 6/3) light reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
			moist	SW		medium to coarse SAND, some medium to coarse gravel, trace silt, (5YR 5/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	
				NR		NO RECOVERY	
15							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.









Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611757.378
Date Started Drilling: 10/20/2016 10:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683607.037
Date Finished Drilling: 10/20/2016 11:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 9.671 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3	0.0		ASPHALT		ASPHALT and gravel sub-base	
2			dry to moist	FILL		fine to medium SAND, some cinders and ash, trace coal and fill debris, (5YR 2.5/1) black, loose, dry to moist, no odor, no staining.	
3				NR		No Recovery	
4	5	0.0					
5			moist to wet	FILL		fine to medium SAND, little fill debris, (5YR 2.5/1) black, dense, moist to wet, no odor, no staining, water at 6.0 feet.	
6			wet	OL		Organic SILT, 80% organic silt, 20% organic fibers, (5YR 2.5/1) black, stiff, wet, moderate organic odor, no staining. Soils consistent with UNDorg.	
7	5	0.0					
8			moist	ML		SILT, trace fine sand, (5YR 4/3) reddish brown, very stiff, moist, no odor, no staining. Soils consistent with UNDno.	P4-FOR-AA12BR-8.0-8.5
9							
10	5	0.0					P4-FOR-AA12BR-10.0-10.5
11							
12							P4-FOR-AA12BR-12.0-12.5
13	5	0.0	wet	SW		fine to coarse silty SAND, trace fine to coarse gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-AA12BR-14.0-14.5
14							
15							
16	5	0.0	wet	SW		fine to coarse SAND, little fine to coarse gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-AA12BR-16.0-16.5
17							
18							P4-FOR-AA12BR-18.0-18.5
19	1	0.0					
20							P4-FOR-AA12BR-20.0-20.5
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct push	Coordinates (NJSPNAD83) x: 611759.17
Date Started Drilling: 6/29/2016 9:40:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683532.08
Date Finished Drilling: 6/29/2016 11:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.75 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		FILL		DGA	
2			dry	FILL		ASH, some fine sand, trace coal, (7.5YR 5/1) gray, loose, dry, no odor, no staining.	P4-FOR-BB9B-1.0-1.5
3			dry to moist	FILL		fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, dry to moist, no odor, no staining.	P4-FOR-BB9B-3.0-3.5
4			moist	FILL		sandy SILT, (5Y 4/2) olive gray, dense, moist, no odor, no staining.	
5				NR		NO RECOVERY	
6	4.5	0.3	moist to saturated	FILL		SILT, trace fine sand, (5Y 5/2) olive gray, dense, moist to saturated, moderate MGP-like odor, slight product staining, sheen, water at 5.5 feet.	P4-FOR-BB9B-5.0-5.5
7							P4-FOR-BB9B-7.0-7.5
8							
9			saturated	FILL		fine silty SAND, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining.	P4-FOR-BB9B-9.0-9.5
10	3.5	0.0		NR		NO RECOVERY	
11			saturated	FILL		sandy SILT, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining.	P4-FOR-BB9B-10.5-11.0
12			saturated	SP-SM		fine SAND, trace silt, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-BB9B-11.0-11.5
13							
14				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: direct push	Coordinates (NJSPNAD83) x: 611759.9
Date Started Drilling: 10/21/2016 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683531.503
Date Finished Drilling: 10/21/2016 10:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.518 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	FILL		fine to coarse SAND, some fine to medium gravel, (5Y 5/1) gray, medium dense, dry, no odor, no staining.	
2			dry	FILL		fine to medium SAND, little fine gravel, trace ash, (5YR 6/3) light reddish brown, medium dense, dry, no odor, no staining.	
3			moist	FILL		fine to medium SAND, some fine gravel, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining.	
4			moist	FILL		fine SAND, some silt, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	
5				NR		NO RECOVERY	
6	5	3.0	wet	FILL		fine silty SAND, (7.5YR 6/4) light brown, medium dense, wet, slight fuel oil-like odor, product staining, sheen, water at 5.5 feet.	
7							P4-FOR-BB9BR-8.5-9.0
8							P4-FOR-BB9BR-9.0-9.5
9	5	0.5	wet	SM		fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, very slight fuel oil-like odor, no staining, sheen. Soils consistent with UNDno.	
10							
11							
12							P4-FOR-BB9BR-12.0-12.5
13	5	0.0	wet	SP		fine to medium SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
14							P4-FOR-BB9BR-14.0-14.5
15							
16							P4-FOR-BB9BR-16.0-16.5
17							
18	1	0.0	wet	SM		fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
19							
20							P4-FOR-BB9BR-18.0-18.5
21							P4-FOR-BB9BR-20.0-20.5

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.


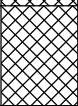
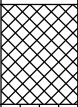
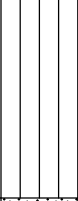
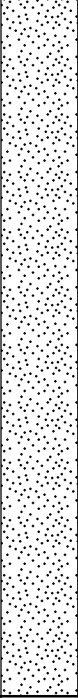
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611768.31
Date Started Drilling: 6/17/2016 7:35:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683551.18
Date Finished Drilling: 6/17/2016 8:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.28 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	4		moist	FILL		fine to medium SAND, trace fine to medium gravel and wood, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	P4-FOR-BB10B-3.0-3.5
2							
3							
4			wet	FILL		fine to medium silty SAND, trace fine to medium gravel and coal, (5YR 2.5/1) black, medium dense, wet, slight fuel oil-like odor and staining, water at 3.5 feet.	
5	3.5	0.0		NR		NO RECOVERY	
6			saturated	FILL		fine SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining.	P4-FOR-BB10B-6.0-6.5
7			saturated	FILL		ASH, (2.5Y 4/2) dark grayish brown, loose, saturated, no odor, no staining.	P4-FOR-BB10B-6.5-7.0
8			saturated	OL		SILT, trace fine sand, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
9				NR		NO RECOVERY	
10							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611767.039
Date Started Drilling: 10/19/2016	Rig Type:	Coordinates (NJSPNAD83) y: 683555.427
Date Finished Drilling: 10/19/2016	Core Size: 3.0	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.647 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	3.5	0.0	dry	ASPHALT FILL		ASPHALT fine to coarse SAND, trace fine to medium gravel, coal and ash, (5YR 6/3) light reddish brown, loose, dry, no odor, no staining.	
1							
2			dry to moist	FILL		SILT, trace ash, (7.5YR 4/2) brown, soft, dry to moist, no odor, no staining.	
3							
4		NR			NO RECOVERY		
5	5	0.2	moist to wet	FILL		SILT, trace ash and coal, (7.5YR 6/1) gray, soft, moist to wet, no odor, no staining, water at 6.0 feet.	
6							
7			wet	ML		SILT, (5YR 6/1) gray, soft, wet, no odor, no staining. Soils consistent with UNDno.	
8							
9							
10	5	0.0	wet	SP		fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
11							
12							
13							
14							
15	5	0.0					
16							
17							
18							
19							
20							P4-FOR-BB10BR-19.0-19.5

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611781.12
Date Started Drilling: 6/21/2016 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683575.06
Date Finished Drilling: 6/21/2016 12:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.13 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.5	0.0		ASPHALT		Asphalt and gravel sub-base.	
2			dry to moist	FILL		fine to coarse SAND, little silt and medium gravel, trace fill debris, (7.5YR 3/2) dark brown, medium dense, dry to moist, no odor, no staining.	
3				NR		NO RECOVERY	
4	4	0.0	moist to saturated	FILL		fine to coarse SAND, little medium gravel, trace silt and fill debris, (7.5YR 3/2) dark brown, medium dense, moist to saturated, no odor, no staining, water at 7.0 feet.	P4-FOR-BB11B-7.0-7.5
5			saturated	ML		SILT, trace fine angular gravel, (2.5YR 3/1) dark reddish gray, dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-BB11B-7.5-8.0
6				NR		NO RECOVERY	
7	5	0.0	saturated	ML		SILT, little fine sand and medium angular gravel, (2.5YR 3/1) dark reddish gray, dense, saturated, no odor, no staining. Soils consistent with UNDno.	
8							
9							
10	5	0.0					
11			wet	SP		medium to coarse SAND, some medium gravel, (5YR 3/3) dark reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
12							
13							
14							
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

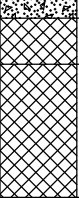

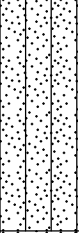
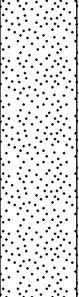
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611788.14
Date Started Drilling: 6/17/2016 9:45:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683512.56
Date Finished Drilling: 6/17/2016 10:40:00 AM	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.48 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	ASPHALT		Asphalt and gravel sub-base.	P4-FOR-CC9B-2.0-2.5
2			dry to wet	FILL		SILT, trace medium to coarse gravel and coal, (7.5YR 4/2) brown, medium stiff, dry to wet, no odor, no staining, water at 3.5 feet.	
3							
4				NR		NO RECOVERY	
5	4	0.0	saturated	FILL		ASH, (5Y 5/1) gray, loose, saturated, no odor, no staining.	P4-FOR-CC9B-6.0-6.5 P4-FOR-CC9B-6.5-7.0 P4-FOR-CC9B-7.0-7.5
6			dry to wet	FILL		SILT, trace clay and ash, (7.5YR 4/2) brown, soft, dry to wet, no odor, no staining.	
7			saturated	OL		SILT, (5YR 4/3) reddish brown, medium stiff, saturated, no odor, no staining. Soils consistent with UNDno.	
8							
9				NR		NO RECOVERY	
10							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.


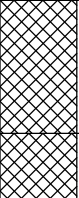

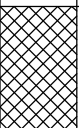



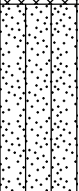
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611788.617
Date Started Drilling: 10/19/2016	Rig Type:	Coordinates (NJSPNAD83) y: 683513.669
Date Finished Drilling: 10/19/2016	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.410 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-2	5	0.0		CONCRETE		CONCRETE	
			dry	FILL		fine to medium SAND, trace ash and cinders, (7.5YR 2.5/1) black, loose, dry no odor no staining	
			dry	FILL		SILT, little fine gravel, trace coal and brick, (5YR 4/3) reddish brown, stiff, dry no odor no staining	
3-4			moist	ML		SILT, (5YR 4/3) reddish brown, soft, moist to wet no odor no staining, water at 6.0 feet. Soils consistent with UNDno.	P4-FOR-CC9BR-2.5-3.0 P4-FOR-CC9BR-3.0-3.5
5-6		0.0					
7-8	5		wet	SM		fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, dense, wet no odor no staining. Soils consistent with UNDno.	
9-10							P4-FOR-CC9BR-10.0-10.5
11-12	5		wet	SP		fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, dense, wet no odor no staining. Soils consistent with UNDno.	P4-FOR-CC9BR-12.0-12.5
13-14							
15-16		0.0					P4-FOR-CC9BR-16.0-16.5
17-18	5						P4-FOR-CC9BR-18.0-18.5
19-20							
20-21	1	0.0					P4-FOR-CC9BR-20.0-20.5
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.


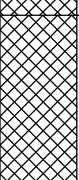
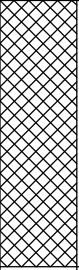
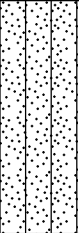
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611793.06
Date Started Drilling: 6/23/2016 9:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683534.95
Date Finished Drilling: 6/23/2016 10:25:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.65 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	4		moist	FILL		fine to medium SAND, trace ash, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	P4-FOR-CC10B-1.0-1.5
2							
3			wet	FILL		SILT, trace clay, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	P4-FOR-CC10B-3.0-3.5
4				NR		NO RECOVERY	
5	4.5	0.0	saturated	FILL		fine SAND, some silt, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining, water at 5.0 feet.	P4-FOR-CC10B-5.0-5.5
6							
7			saturated	FILL		fine SAND, (7.5YR 4/2) brown, medium dense, saturated, fuel oil-like odor, black staining, sheen.	P4-FOR-CC10B-7.0-7.5
8			saturated	FILL		medium to coarse GRAVEL, trace fine sand, (5Y 5/1) gray, loose, saturated, no odor, no staining.	
9							P4-FOR-CC10B-9.0-9.5
10				NR		NO RECOVERY	
11	4	0.0	saturated	FILL		medium to coarse GRAVEL, little silt, trace fine sand, (5Y 5/1) gray, loose, saturated, no odor, no staining.	P4-FOR-CC10B-10.5-11.0
12				SM		fine silty SAND, (5YR 4/3) reddish brown, medium dense, no odor, no staining. Soils consistent with UNDno.	P4-FOR-CC10B-11.0-11.5
13							
14				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611804.74
Date Started Drilling: 6/24/2016 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683562.34
Date Finished Drilling: 6/24/2016 10:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.57 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	3.5	0.0	moist	CONCRETE FILL		CONCRETE	
						ASH, (5Y 5/1) gray, loose, moist, no odor, no staining.	
			moist to wet	FILL		SILT, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining.	
				NR		NO RECOVERY	
5 6 7 8 9	4	0.0	wet to saturated	FILL		SILT, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet to saturated, no odor, no staining, water at 5.5 feet.	P4-FOR-CC11B-8.5-9.0
				NR		NO RECOVERY	
10 11 12 13 14	3.5	0.0	saturated	SM		fine SAND, some silt, trace fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611801.161
Date Started Drilling: 10/19/2016	Rig Type:	Coordinates (NJSPNAD83) y: 683562.89
Date Finished Drilling: 10/19/2016	Core Size: 3.0	Boring Total Depth: 15 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.610 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.6	dry	CONCRETE FILL		CONCRETE CINDERS, trace coal and fill debris, (5YR 6/1) gray, loose, dry, no odor, no staining.	
2			dry	FILL		fine to medium silty SAND, trace coal and fine gravel, (5YR 4/3) reddish brown, dense, dry, no odor, no staining.	
3			moist	FILL		SILT, trace coal, (7.5YR 4/1) dark gray, soft, moist, no odor, no staining.	
4	5	0.0	moist to wet	ML		SILT, trace coarse gravel, (7.5YR 6/3) light brown, soft, moist to wet, no odor, no staining, water at 6.0 feet. Soils consistent with UNDno.	P4-FOR-CC11BR-4.5-5.0
5							P4-FOR-CC11BR-5.0-5.5
6							
7	5	0.0	wet	SM		fine to medium silty SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-CC11BR-8.0-8.5
8							
9							
10	5	0.0					P4-FOR-CC11BR-10.0-10.5
11			wet	SP		medium SAND, trace medium to coarse gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
12							
13							
14							
15							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611808.41
Date Started Drilling: 6/17/2016 10:50:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683497.56
Date Finished Drilling: 6/17/2016	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.78 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	4.5	0.0		ASPHALT		Asphalt and gravel sub-base.	
1			moist	FILL		SILT, little fine to medium sand, trace medium gravel, (5Y 5/1) gray, medium dense, moist, no odor, no staining. SILT, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining, water at 4.0 feet.	P4-FOR-DD9B-0.8-1.3
2			saturated	FILL			P4-FOR-DD9B-2.0-2.5
3							
4							P4-FOR-DD9B-4.0-4.5
5				NR		NO RECOVERY	
	3.5	0.0	saturated	FILL		SILT, trace fine sand, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.	P4-FOR-DD9B-5.0-5.5
6			saturated	SM		fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno. fine silty SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-DD9B-5.5-6.0
7			saturated	OL			
8							
9					NR		NO RECOVERY
10							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611807.651
Date Started Drilling: 10/18/2016 11:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683497.165
Date Finished Drilling: 10/18/2016 12:45:00 PM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 10.676 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		ASPHALT		ASPHALT and gravel sub-base	
2			dry	FILL		SILT, little brick, (5YR 2.5/1) black, dense, dry, no odor, no staining.	
3			dry to moist	FILL		fine silty SAND, trace coal, (7.5YR 4/2) brown, dense, dry to moist, no odor, no staining.	
4				NR		No Recovery	
5	4	0.0	wet	FILL		SILT, trace coal, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining, water at 5.5 feet.	P4-FOR-DD9BR-5.5-6.0
6			wet	SP		fine SAND, trace fine gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-DD9BR-6.0-6.5
7							
8							P4-FOR-DD9BR-8.0-8.5
9				NR		No Recovery	
10	5	0.0	wet	SP		fine SAND, trace fine gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-DD9BR-10.0-10.5
11							
12							P4-FOR-DD9BR-12.0-12.5
13							P4-FOR-DD9BR-14.0-14.5
14							
15	5	0.0	wet	SP		fine SAND, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
16							P4-FOR-DD9BR-16.0-16.5
17			wet	SW		fine to coarse SAND, trace fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
18							P4-FOR-DD9BR-18.0-18.5
19							
20	1	0.0	wet	SP		fine SAND, trace silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-DD9BR-20.0-20.5
21							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.


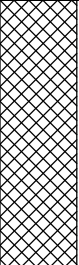
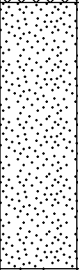

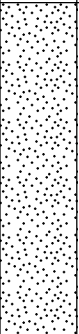
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611822.73
Date Started Drilling: 6/20/2016 11:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683523.09
Date Finished Drilling: 6/20/2016 12:05:00 PM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.99 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	3.5		moist	FILL		fine SAND, some silt, little fine gravel, trace fill debris, (2.5Y 3/1) very dark gray, medium dense, moist, no odor, no staining.	P4-FOR-DD10B-0.5-1.0
2			dry	FILL		SILT, trace coal, (5Y 5/1) gray, medium dense, dry, no odor, no staining.	P4-FOR-DD10B-2.0-2.5
3			moist	ML		SILT, (10Y 5/2) grayish olive, soft, moist, no odor, no staining. Soils consistent with UNDno.	P4-FOR-DD10B-2.5-3.0
4				NR		NO RECOVERY	
5	4	0.0	saturated	ML		SILT, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining, water at 5.0 feet. Soils consistent with UNDno.	
6							
7							
8							P4-FOR-DD10B-6.5-7.0
9				NR		NO RECOVERY	
10	3.5	0.0	saturated	SM		fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, loose, saturated, no odor, no staining. Soils consistent with UNDno.	
11							
12							
13							
14				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

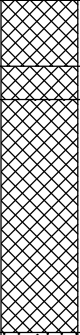
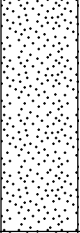
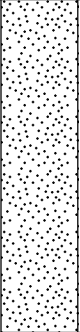
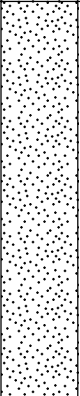
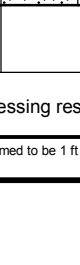
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: direct push	Coordinates (NJSPNAD83) x: 611833.9
Date Started Drilling: 6/17/2016 10:50:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683463.37
Date Finished Drilling: 6/17/2016 11:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 11.94 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	5		dry	FILL		fine to medium SAND, some fine gravel, trace organics and fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	P4-FOR-EE8B-1.0-1.5
2							
3							P4-FOR-EE8B-3.0-3.5
4							P4-FOR-EE8B-4.5-5.0
5	4	0.0	moist to wet	SP		fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, moist to wet, no odor, no staining, water at 6.5 feet. Soils consistent with UNDno.	P4-FOR-EE8B-5.0-5.5
6							
7							
8							
9	5	0.0	moist to wet	NR		NO RECOVERY	
10							
11							
12							
13	5	0.0	moist to wet	SP		fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, moist to wet, no odor, no staining. Soils consistent with UNDno.	
14							
15							
16							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611833.738
Date Started Drilling: 10/17/2016 12:45:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683464.915
Date Finished Drilling: 10/17/2016 1:30:00 PM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 11.851 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	5	0.0		FILL		ASPHALT	
1			slightly moist dry	FILL		fine to medium SAND, little silt, brick and fine gravel, (2.5Y 4/2) dark grayish brown, medium dense, slightly moist, no odor, no staining. fine to medium SAND, little concrete, (5YR 6/3) light reddish brown, medium dense, dry, no odor, no staining.	
2				FILL			
3	3.5	0.0	wet	SP		fine to coarse SAND, little fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining, water at 6.5 feet. Soils consistent with UNDno.	P4-FOR-EE8BR-6.0-6.5
4							
5				NR		NO RECOVERY	P4-FOR-EE8BR-8.0-8.5
6							
7	5	0.0	wet	SP		fine to coarse SAND, trace fine to coarse gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-EE8BR-10.0-10.5
8							
9							
10							
11	5	0.0	wet	SP		fine to coarse SAND, trace fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-EE8BR-12.0-12.5
12							
13							
14							
15	5	0.0	wet	SP			P4-FOR-EE8BR-14.0-14.5
16							
17							
18	1	0.0					P4-FOR-EE8BR-16.0-16.5
19							
20							
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.







Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611835.75
Date Started Drilling: 6/22/2016 8:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683483.67
Date Finished Drilling: 6/22/2016 9:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.96 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.5	0.0		ASPHALT		Asphalt and gravel sub-base.	
2			dry	FILL		fine SAND, (2.5Y 6/4) light yellowish brown, loose, dry, no odor, no staining.	P4-FOR-EE9B-1.0-1.5
3			moist	FILL		fine SAND, some silt, trace fine gravel, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	P4-FOR-EE9B-3.0-3.5
4				NR		NO RECOVERY	
5	4.5	0.0	moist to wet	FILL		SILT, little fine gravel, trace clay, (5Y 5/1) gray, moist to wet, slight fuel oil-like odor, no staining, water at 5.5 feet.	P4-FOR-EE9B-5.0-5.5
6							
7			saturated	FILL		medium to coarse GRAVEL, trace fine to medium sand, (5Y 5/1) gray, loose, saturated, no odor, no staining.	P4-FOR-EE9B-7.0-7.5
8							
9	4.5	0.0		NR		NO RECOVERY	P4-FOR-EE9B-9.0-9.5
10			saturated	FILL		medium to coarse GRAVEL, little fine to medium sand, (5Y 5/1) gray, loose, saturated, no odor, no staining.	P4-FOR-EE9B-10.0-10.5
11			saturated	SM		fine SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-EE9B-10.5-11.0
12							
13							
14	4.5	0.0	saturated	SW		fine to coarse SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
15				NR		NO RECOVERY	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.




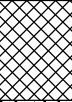
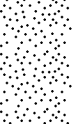

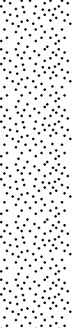
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611855.4
Date Started Drilling: 6/24/2016 9:08:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683508.63
Date Finished Drilling: 6/24/2016 10:05:00 AM	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 11.98 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	4.5			FILL		ASH, trace fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	P4-FOR-EE10B-0.6-1.1
2			moist to wet	FILL		SILT, trace fine gravel and ash, (2.5Y 5/2) grayish brown, medium dense, moist to wet, no odor, no staining.	P4-FOR-EE10B-2.0-2.5
3							
4							
5				NR		NO RECOVERY	P4-FOR-EE10B-4.0-4.5
6	4	0.0	wet to saturated	FILL		SILT, trace fine gravel, (2.5Y 5/2) grayish brown, medium dense, wet to saturated, no odor, no staining, water at 6.0 feet.	P4-FOR-EE10B-6.0-6.5
7			saturated	SM		fine SAND, some silt, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-EE10B-6.5-7.0
8							
9			saturated	SW		medium to coarse SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, saturated, no odor, no staining. Soils consistent with UNDno.	
10				NR		NO RECOVERY	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611856.116
Date Started Drilling: 10/18/2016 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683508.245
Date Finished Drilling: 10/18/2016 10:10:00 AM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 12.085 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0		CONCRETE		CONCRETE and gravel sub-base	
			dry	FILL		CINDERS, little ash, (5YR 2.5/1) black, loose, dry, no odor, no staining.	
			dry to moist	FILL		SILT, trace cinders, ash and coal, (7.5YR 5/2) brown, dense, dry to moist, no odor, no staining.	
				NR		No Recovery	
5-8	3.5	0.0	moist to wet	FILL		SILT, trace brick and coal, (7.5YR 4/2) brown, dense, moist to wet, no odor, no staining, water at 5.5 feet.	P4-FOR-EE10BR-8.0-8.5
7-8			wet	SP		fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
9-10				NR		No Recovery	
10-15	5	0.0	wet	SW		fine to coarse SAND, trace fine gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-EE10BR-10.0-10.5
12-13							P4-FOR-EE10BR-12.0-12.5
14-15							P4-FOR-EE10BR-14.0-14.5
15-18	5	0.0	wet	SP		fine to medium SAND, trace silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-EE10BR-16.0-16.5
18-19							P4-FOR-EE10BR-18.0-18.5
20-21	1	0.0					P4-FOR-EE10BR-20.0-20.5
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611851.49
Date Started Drilling: 6/21/2016 9:25:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683445.8
Date Finished Drilling: 6/21/2016 10:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 12.43 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	5		dry	FILL		SILT, (7.5YR 4/2) brown, dense, dry, no odor, no staining.	P4-FOR-FF8B-1.0-1.5
2			moist	FILL		SILT, trace coal, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	
3							P4-FOR-FF8B-3.0-3.5
4							P4-FOR-FF8B-4.0-4.5
5	3.5		moist	SM		fine to medium SAND, little fine gravel, (7.5YR 4/2) brown, loose, moist, no odor, no staining. Soils consistent with UNDno. fine to coarse SAND, little fine to medium gravel, (7.5YR 4/2) brown, loose, moist to saturated, no odor no staining, water at 7.5 feet. Soils consistent with UNDno.	P4-FOR-FF8B-4.5-5.0
6		0.0	moist to saturated	SM			
7							
8							
9	4.5			NR		NO RECOVERY	
10		0.0	moist	SM		medium to coarse SAND, little fine to medium gravel, (7.5YR 4/2) brown, loose, saturated, no odor, no staining. Soils consistent with UNDno.	
11							
12							
13							
14				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611851.486
Date Started Drilling: 10/17/2016 11:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683446.333
Date Finished Drilling: 10/17/2016 12:40:00 PM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 12.308 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
2			dry	FILL		fine to medium SAND, little coarse gravel, trace fill debris, (2.5Y 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	
3			dry	FILL			
4							
5	3.5	0.0	moist to wet	SP		fine to coarse SAND, some medium gravel, (5YR 4/4) reddish brown, loose, moist to wet, no odor, no staining, water at 7.0 feet. Soils consistent with UNDno.	P4-FOR-FF8BR-6.0-6.5
6							
7							
8							P4-FOR-FF8BR-8.0-8.5
9				NR		NO RECOVERY	
10	5	0.0	wet	SP		fine to coarse SAND, trace fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-FF8BR-10.0-10.5
11							
12							P4-FOR-FF8BR-12.0-12.5
13							
14							P4-FOR-FF8BR-14.0-14.5
15	5	0.0	wet	SP		fine to coarse SAND, little fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-FF8BR-16.0-16.5
16							
17							
18							P4-FOR-FF8BR-18.0-18.5
19			wet	SP		fine SAND, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
20	1	0.0					P4-FOR-FF8BR-20.0-20.5
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611859.09
Date Started Drilling: 6/23/2016 7:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683467.13
Date Finished Drilling: 6/23/2016 8:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 12.15 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		ASPHALT		Asphalt and gravel sub-base.	
2			dry	FILL		fine to medium SAND, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	P4-FOR-FF9B-1.0-1.5
3			moist to wet	FILL		fine to medium SAND, little fine gravel, trace ash and coal, (5Y 5/1) gray, medium dense, moist to wet, no odor, no staining.	P4-FOR-FF9B-3.0-3.5
4				NR		NO RECOVERY	
5	4.5	7.8	wet to saturated	FILL		fine to medium SAND, little fine gravel, trace coal, (5Y 4/1) dark gray, medium dense, wet to saturated, slight gasoline-like odor, black staining, sheen, water at 6.0 feet.	P4-FOR-FF9B-5.0-5.5
6							
7							P4-FOR-FF9B-7.0-7.5
8			saturated	FILL		fine SAND, trace fine gravel, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.	
9	4	8.2		NR		NO RECOVERY	P4-FOR-FF9B-9.0-9.5
10			saturated	FILL		fine SAND, trace fine gravel, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.	
11			saturated	FILL		medium to coarse GRAVEL, little fine to medium sand, (5Y 5/1) gray, loose, saturated, slight solvent-like odor, no staining.	P4-FOR-FF9B-11.0-11.5
12			saturated	SW		fine to medium SAND, (5YR 4/4) reddish brown, medium dense, saturated, slight solvent-like odor, no staining. Soils consistent with UNDno.	P4-FOR-FF9B-11.5-12.0
13							
14				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611872.93
Date Started Drilling: 6/21/2016 8:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683492.82
Date Finished Drilling: 6/21/2016 8:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 12.27 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4	0.0		ASPHALT		Asphalt and gravel sub-base.	P4-FOR-FF10B-2.0-2.5 P4-FOR-FF10B-2.5-3.0
			dry	FILL		ASH, trace fine gravel, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	
			moist	FILL		SILT, little fine gravel, trace coal and ash, (7.5YR 4/2) brown, moist, no odor, no staining.	
			moist to wet	ML		SILT, (7.5YR 4/2) brown, medium stiff, moist to wet, no odor, no staining. Soils consistent with UNDno.	
				NR		NO RECOVERY	
5-9	4	0.0		ML		SILT, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-FF10B-10.0-10.5
			saturated	SM		fine SAND some SILT, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining, water at 6.0 feet. Soils consistent with UNDno.	
				NR		NO RECOVERY	
10-14	4	0.0	saturated	SM		fine to medium SAND, some SILT, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-FF10B-10.0-10.5
				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611872.876
Date Started Drilling: 10/18/2016 8:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683493.136
Date Finished Drilling: 10/18/2016 9:15:00 AM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 12.090 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0		ASPHALT		ASPHALT and gravel sub-base	
			dry	FILL		CINDERS, some ash, (5YR 2.5/1) black, loose, dry, no odor, no staining.	
			dry to moist	FILL		SILT, trace coal and fine gravel, (5YR 6/1) gray, dense, dry to moist, no odor, no staining.	
				NR		No Recovery	
5	2.5	0.0	moist	FILL		SILT, trace coarse gravel, (5YR 6/1) gray, dense, moist, no odor, no staining, water at 5.0 feet.	P4-FOR-FF10BR-5.0-5.5
6				SP		fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-FF10BR-5.5-6.0
7				NR		No Recovery	
8	5	0.0	wet	SP		fine to medium SAND, trace fine to medium gravel and silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
9							
10							
11							
12	5	0.0	wet	SP		fine SAND, little silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-FF10BR-12.0-12.5
13							
14							P4-FOR-FF10BR-14.0-14.5
15							
16	5	0.0	wet	SP		fine SAND, little silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-FF10BR-16.0-16.5
17							
18							P4-FOR-FF10BR-18.0-18.5
19							
20	1	0.0					P4-FOR-FF10BR-20.0-20.5
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611875.44
Date Started Drilling: 6/24/2016 11:48:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683430.86
Date Finished Drilling: 6/24/2016 12:15:00 PM	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 12.86 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	4		moist	FILL		SILT, trace ash and glass, (5Y 5/1) gray, medium dense, moist, no odor, no staining	P4-FOR-GG8B-0.5-1.0
2							P4-FOR-GG8B-2.0-2.5
3			moist to wet	SP		fine SAND, trace silt, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-GG8B-2.5-3.0
4				NR		NO RECOVERY	
5	4	0.0	moist to wet	SP		fine SAND, trace silt, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining, water at 6.0 feet. Soils consistent with UNDno.	
6							
7							
8			saturated	SM		SILT, trace fine sand, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
9				NR		NO RECOVERY	
10							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.


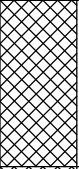

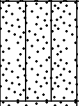
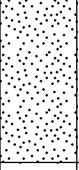
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611874.764
Date Started Drilling: 10/18/2016 11:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683431.143
Date Finished Drilling: 10/18/2016 11:55:00 AM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 12.937 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	4.5	0.0		ASPHALT		ASPHALT and gravel sub-base	
			dry to moist	FILL		SILT, trace coal and ash, (7.5YR 4/2) brown, dense, dry to moist, no odor, no staining.	
			moist	SP		fine SAND, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	P4-FOR-GG8BR-4.0-4.5
				NR		No Recovery	
5 6 7 8 9	3.5	0.0	moist to wet	SP		fine SAND, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining, water at 6.5 feet. Soils consistent with UNDno.	P4-FOR-GG8BR-6.0-6.5
				NR		No Recovery	P4-FOR-GG8BR-8.0-8.5
10 11 12 13 14 15	5	0.0	wet	SP		fine SAND, little silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-GG8BR-10.0-10.5
							P4-FOR-GG8BR-12.0-12.5
							P4-FOR-GG8BR-14.0-14.5
16 17 18 19 20 21	5	0.0	wet	SP		fine SAND, little silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-GG8BR-16.0-16.5
							P4-FOR-GG8BR-18.0-18.5
	1	0.0					P4-FOR-GG8BR-20.0-20.5

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.


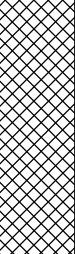
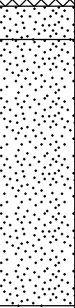
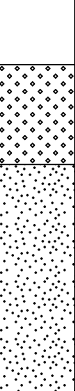
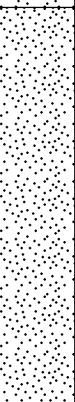
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611886.76
Date Started Drilling: 6/24/2016 11:10:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683451.99
Date Finished Drilling: 6/24/2016 11:23:00 AM	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 13.14 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		2.4		ASPHALT		Asphalt and gravel sub-base.	
1	5		moist	FILL		SILT, trace fine gravel and ash, (2.5Y 4/3) olive brown, medium stiff, moist, no odor, no staining.	P4-FOR-GG9B-1.0-1.5
2							P4-FOR-GG9B-2.0-2.5
3							
4			wet	FILL		fine SAND, some silt, (5YR 4/3) reddish brown, medium dense, wet, moderate, solvent-like odor, no staining.	P4-FOR-GG9B-4.0-4.5
5	3.5	1.5	wet	SM		SILT, (5YR 4/3) reddish brown, medium dense, wet to saturated, slight solvent-like odor, no staining, water at 5.5 feet. Soils consistent with UNDno.	P4-FOR-GG9B-4.5-5.0
6			saturated	SP		fine SAND, trace silt, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
7							
8							
9				NR		NO RECOVERY	
10							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611889.796
Date Started Drilling: 10/18/2016 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683451.494
Date Finished Drilling: 10/18/2016 11:05:00 AM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 13.321 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4.5	0.0		CONCRETE		CONCRETE and gravel sub-base	
2			dry to moist	FILL		SILT, trace coal, (7.5YR 4/2) brown, dense, dry to moist, no odor, no staining.	
3							
4	4	0.0					
5			moist	SP		fine SAND, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	
6			moist to wet	SP		fine to medium SAND, (5YR 4/3) reddish brown, dense, moist to wet, no odor, no staining, water at 6.5 feet. Soils consistent with UNDno.	
7							
8							
9	5	0.0		NR		No Recovery	
10			wet	SW		fine to coarse SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, loose, wet, no odor, no staining. Soils consistent with UNDno.	
11							
12			wet	SP		fine SAND, trace silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
13	5	0.0					
14							
15			wet	SP		fine SAND, little silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
16							
17	1	0.0					
18							
19							
20							
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611901.6
Date Started Drilling: 6/27/2016 10:25:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683414.07
Date Finished Drilling: 6/27/2016 11:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 13.40 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	4	0.0		ASPHALT		Asphalt and gravel sub-base	
			dry	FILL		fine to medium SAND, trace fine gravel, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.	
			moist	FILL		SILT, (7.5YR 6/3) light brown, medium dense, moist, no odor, no staining.	
				NR		NO RECOVERY	
5 6 7 8 9 10	5	0.0	moist to saturated	FILL		SILT, (2.5YR 5/1) reddish gray, dense, moist to saturated, no odor, no staining, water at 9.0 feet.	P4-FOR-HH8B-8.0-8.5
10 11 12 13 14 15	3	0.0	saturated	SP-SM		fine to medium silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-HH8B-9.5-10.0
				NR		NO RECOVERY	P4-FOR-HH8B-10.0-10.5

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611901.563
Date Started Drilling: 10/17/2016 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683412.555
Date Finished Drilling: 10/17/2016 11:45:00 AM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 13.287 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT, (5Y 2.5/1) black, dry no odor no staining	
2			moist	FILL		fine SAND, little silt, trace concrete and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	
3							
4							
5							
6	5	0.0	moist to wet	FILL		fine to medium SAND, little fill debris, (7.5YR 6/3) light brown, medium dense, moist to wet, no odor, no staining, water at 9.0 feet.	
7							
8							
9							
10							
11	5	0.0	wet	SP		fine to medium silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-HH8BR-12.0-12.5
12							
13							
14							P4-FOR-HH8BR-14.0-14.5
15							
16	5	0.0	wet	SP		fine SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-HH8BR-16.0-16.5
17							
18							
19							P4-FOR-HH8BR-18.0-18.5
20							
21	1	0.0					P4-FOR-HH8BR-20.0-20.5

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611916.55
Date Started Drilling: 6/28/2016 9:45:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683443.85
Date Finished Drilling: 6/28/2016 10:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 14.13 ft NAVD88








Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		Concrete	
1	5		dry	FILL		ASH, some fine to medium sand and gravel, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. SILT, (7.5YR 4/2) brown, dense, dry to moist, no odor, no staining.	P4-FOR-HH9B-0.5-1.0
2			dry to moist	FILL			
3							P4-FOR-HH9B-2.5-3.0
4							P4-FOR-HH9B-4.5-5.0
5	3.5	0.0	moist to saturated	SW-SM		fine SAND, (5YR 4/3) reddish brown, medium dense, moist to saturated, no odor, no staining, water at 6.0 feet. Soils consistent with UNDno.	P4-FOR-HH9B-5.0-5.5
6							
7							
8							
9				NR		NO RECOVERY	
10	5	0.4	saturated	SP-SM		fine SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
11							
12			saturated	ML		SILT, (5YR 4/3) reddish brown, dense, saturated, slight solvent-like odor, no staining. Soils consistent with UNDno.	
13							
14			saturated	SP		fine to medium SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
15							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611917.542
Date Started Drilling: 10/17/2016 10:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683443.043
Date Finished Drilling: 10/17/2016 10:55:00 AM	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 14.067 ft NAVD88










Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		CONCRETE	
2			slightly moist	FILL		fine to medium SAND, some silt, trace coal, (5YR 4/4) reddish brown, medium dense, slightly moist, no odor, no staining.	
3							
4							
5							
6	4.5	0.0	moist to wet	SP		fine SAND, (5YR 4/3) reddish brown, medium dense, moist to wet, water at 8.5 feet. Soils consistent with UNDno.	P4-FOR-HH9BR-7.0-7.5
7							
8							
9							
10	5	0.0		NR		NO RECOVERY	P4-FOR-HH9BR-9.0-9.5
11			wet	SP		fine to medium SAND, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-HH9BR-11.0-11.5
12							
13							
14			wet	SP		fine to coarse SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-HH9BR-13.0-13.5
15	5	0.0	wet	SP		fine to coarse SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-HH9BR-15.0-15.5
16							
17							P4-FOR-HH9BR-17.0-17.5
18							
19			wet	SP		fine SAND, trace silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-HH9BR-19.0-19.5
20	1	0.0					P4-FOR-HH9BR-20.0-20.5
21							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611657.73
Date Started Drilling: 6/16/2016 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683652.46
Date Finished Drilling: 6/16/2016 10:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.57 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	FILL		fine to coarse SAND, little fine to medium gravel, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	P4-FOR-W11B-2.0-2.5
2			moist	FILL		fine to coarse SAND, little fine to medium gravel, trace fill debris, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining.	
3			wet	FILL		fine to medium silty SAND, some ash, (7.5YR 2.5/3) very dark brown, medium dense, wet, no odor, no staining.	
4				NR		NO RECOVERY	
5	3.5	40.5	saturated	FILL		fine to medium SAND, little silt and wood, (5YR 2.5/1) black, medium dense, saturated, slight MGP-like odor, no staining, sheen, water at 5.0 feet.	P4-FOR-W11B-6.0-6.5
6							
7							
8			saturated	FILL		ASH, some silt, (5Y 4/1) dark gray, loose, saturated, moderate MGP-like odor, product staining, sheen.	P4-FOR-W11B-8.0-8.5
9				NR		NO RECOVERY	
10	3	2.1	saturated	FILL		ASH, trace fine sand, (5Y 4/1) dark gray, loose, saturated, moderate MGP-like odor, product staining, sheen.	P4-FOR-W11B-10.0-10.5
11							P4-FOR-W11B-10.5-11.0
12			wet	ML		SILT, trace fine sand and organics, (2.5Y 5/3) light olive brown, stiff, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-W11B-11.0-11.5
13			saturated	SM		fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
14				NR		NO RECOVERY	
15	4	0.0	saturated	SM		fine to coarse SAND, little fine to medium gravel, (5YR 4/4) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
16							
17							
18							
19				NR		NO RECOVERY	
20							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611677.03
Date Started Drilling: 6/20/2016 8:04:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683634.53
Date Finished Drilling: 6/20/2016 9:05:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: 4.0
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.41 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	4.5	0.0		ASPHALT		Asphalt and gravel sub-base.	
1			dry to moist	FILL		medium to coarse SAND, little fine to medium gravel, (7.5YR 4/2) brown, medium dense, dry to moist, no odor, no staining.	
2			moist to saturated	FILL		CINDERS, trace wood, (5Y 2.5/1) black, loose, moist to saturated, slight oil-like odor, no staining, water at 4.0 feet.	
3				NR		NO RECOVERY	
4	3.5	0.0		FILL		CINDERS, trace clinkers, (5Y 2.5/1) black, loose, saturated, very slight oil-like odor, no staining.	P4-FOR-X11B-7.5-8.0
5							
6			saturated	ML		SILT, (5Y 5/1) gray, soft, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-X11B-8.0-8.5
7				NR		NO RECOVERY	
8	4.5	0.0	saturated	ML		SILT, (5Y 5/1) gray, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
9			wet	SM		fine silty SAND, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
10							
11			NR		NO RECOVERY		
12	4.5	0.0	saturated	SM		fine to medium silty SAND, some medium to coarse gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
13							
14							
15			NR		NO RECOVERY		
16	4.5	0.0		NR		NO RECOVERY	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611700.04
Date Started Drilling: 6/22/2016 11:30:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683618.41
Date Finished Drilling: 6/22/2016 12:15:00 PM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: WC	Project Manager: Scott Mikaelian	Depth to Water: 4.0
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.43 ft NAVD88

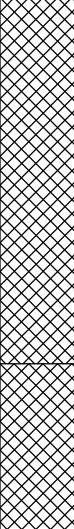
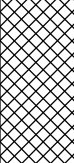
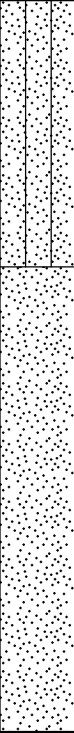
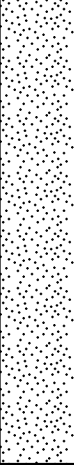
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	3.5	0.0		ASPHALT		Asphalt and gravel sub-base.	
				FILL		SILT, some fine sand, little fine gravel, (7.5YR 4/2) brown, dry, no odor, no staining.	
			moist to wet	FILL		ASH, trace clinkers, (2.5Y 4/1) dark gray, loose, moist to wet, no odor, no staining.	
				NR		NO RECOVERY	
5-8	3.5	0.0	saturated	FILL		ASH, trace clinkers, (2.5Y 4/1) dark gray, loose, saturated, no odor, no staining, water at 5.0 feet.	
			wet	FILL		sandy SILT, little fine gravel, (5Y 5/1) gray, medium dense, wet, no odor, no staining.	P4-FOR-Y11B-7.5-8.0
			moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (2.5Y 4/1) dark gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	P4-FOR-Y11B-8.0-8.5
				NR		NO RECOVERY	
10-14	4	0.0	wet	ML		SILT, trace organic fibers, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
			wet	SW		fine to coarse SAND, some fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
				NR		NO RECOVERY	
15							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: DIRECT PUSH	Coordinates (NJSPNAD83) x: 611701.244
Date Started Drilling: 10/19/2016	Rig Type:	Coordinates (NJSPNAD83) y: 683617.532
Date Finished Drilling: 10/19/2016	Core Size: 3.0	Boring Total Depth: 21 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.408 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.2	dry	FILL		fine to coarse SAND, some cinders, trace ash and coal, (5YR 6/3) light reddish brown, loose, dry slight MGP-like odor, no staining.	
2							
3							
4							
5							
6	5	0.0	wet	FILL		SILT, trace ash and fine gravel, (7.5YR 6/3) light brown, soft, wet slight MGP-like odor, no staining, water at 6.0 feet.	
7							
8			wet	ML		SILT, trace organics, (7.5YR 3/2) dark brown, soft, wet, very slight MGP-like odor, no staining. Soils consistent with UNDno.	
9							
10	5	0.0	wet	SM		fine to medium SAND, trace fine gravel, (7.5YR 6/1) gray, dense, wet, no odor, no staining. Soils consistent with UNDno.	
11							
12							
13							
14							
15	5	0.0	wet	SP		medium to coarse SAND, some fine to coarse gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
16							
17							
18							
19							
20	1	0.0					P4-FOR-Y11BR-20.0-20.5
21							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611711.7
Date Started Drilling: 6/23/2016 10:50:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683638.06
Date Finished Drilling: 6/23/2016 11:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: 4.5
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.45 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	4.5		moist to saturated	FILL		ASH, trace fine sand and coal, (7.5YR 3/3) dark brown, loose, moist to saturated, no odor, no staining, water at 4.5 feet.	P4-FOR-Y12B-0.5-1.0
2							P4-FOR-Y12B-2.0-2.5
3							
4							P4-FOR-Y12B-4.0-4.5
5	4	0.0		NR		NO RECOVERY	
6			saturated	FILL		ASH, trace fine sand and coal, (5Y 3/1) very dark gray, loose, saturated, no odor, no staining.	P4-FOR-Y12B-6.0-6.5
7							P4-FOR-Y12B-6.5-7.0
8			wet	ML		SILT, (7.5YR 4/3) brown, medium stiff, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Y12B-7.0-7.5
9				NR		NO RECOVERY	
10	3.5	0.0		ML		SILT, (7.5YR 4/3) brown, stiff, wet, no odor, no staining. Soils consistent with UNDno.	
11							
12							
13							
14				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.










Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611709.212
Date Started Drilling: 10/20/2016 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683636.552
Date Finished Drilling: 10/20/2016 9:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 10.440 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		ASPHALT		ASPHALT and gravel sub-base	
2			dry to moist	FILL		CINDERS, some ash, little coal, brick and fill debris, (5YR 2.5/1) black, loose, dry to moist, no odor, no staining.	
3							
4				NR		No Recovery	
5	4.5	0.0	moist to wet	FILL		CINDERS, some ash little coal and fill debris, (5YR 2.5/1) black, loose, moist to wet, slight fuel oil-like odor, no staining, water at 6.0 feet.	
6							
7			wet	OL		Organic SILT, 80% organic silt, 20% organic fibers, (5YR 4/1) dark gray, stiff, wet, moderate organic odor, no staining. Soils consistent with UNDorg.	
8							
9	5	0.0		NR		No Recovery	P4-FOR-Y12BR2-9.0-9.5
10			wet	OL		Organic SILT, 80% organic silt, 20% organic fibers, (5YR 6/1) gray, stiff, wet, slight organic odor, no staining. Soils consistent with UNDorg.	P4-FOR-Y12BR2-11.0-11.5
11							
12			moist	ML		SILT, trace fine sand, (5YR 6/3) light reddish brown, very dense, moist, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Y12BR2-13.0-13.5
13							
14			wet	SP		fine silty SAND, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
15	5	0.0		SW		fine to coarse SAND, little fine to coarse gravel, trace silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Y12BR2-15.0-15.5
16							
17							P4-FOR-Y12BR2-17.0-17.5
18							
19							P4-FOR-Y12BR2-19.0-19.5
20							P4-FOR-Y12BR2-20.0-20.5
21	1	0.0					

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.






Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611715.54
Date Started Drilling: 6/29/2016 8:20:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683578.45
Date Finished Drilling: 6/29/2016 8:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.08 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3	0.0	dry	FILL		medium GRAVEL, little fine sand, (N 5/) gray, loose, dry, no odor, no staining.	
				ASPHALT		Asphalt and gravel sub-base	
2			dry	FILL		fine to medium silty SAND, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.	
3			dry to moist	FILL		ASH, (2.5YR 6/3) light reddish brown, loose, dry to moist, no odor, no staining.	
4			moist	FILL		fine to medium SAND, some ash, (N 7/) light gray, loose, moist, no odor, no staining.	
5	3	0.0		NR		NO RECOVERY	
6			saturated	FILL		fine to medium SAND, some ash, (N 5/) gray, loose, saturated, no odor, no staining, water at 5.0 feet.	
7			saturated	FILL		SILT, some fine gravel, trace clay (5YR 3/2) dark reddish brown, medium dense, saturated, slight MGP like odor, no staining.	
8	3.5	0.0		NR		NO RECOVERY	P4-FOR-Z10B-12.5-13.0
9							
10			saturated	FILL		SILT, (5YR 6/3) light reddish brown, dense, saturated, no odor, no staining.	
11							
12	3.5	0.0					
13			saturated	SP		fine to medium SAND, trace silt and fine gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	
14				NR		NO RECOVERY	
15							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611725.12
Date Started Drilling: 6/17/2016 8:25:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683603.86
Date Finished Drilling: 6/17/2016 9:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: 4.0
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.02 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4.5	0.0		ASPHALT		Asphalt and gravel sub-base.	
2			dry	FILL		SILT, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	P4-FOR-Z11B-2.0-2.5
3			moist to saturated	FILL		ASH, trace clinkers, (5Y 5/1) gray, loose, moist to saturated, no odor no staining, water at 4.0 feet.	P4-FOR-Z11B-4.0-4.5
4				NR		NO RECOVERY	
5	4	0.0	moist to saturated	FILL		ASH, some silt, trace clinkers, (5Y 5/1) gray, loose, moist to saturated, no odor, no staining.	P4-FOR-Z11B-6.0-6.5
6			wet	OL		SILT, (2.5Y 5/2) grayish brown, soft, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Z11B-6.5-7.0
7							
8							
9				NR		NO RECOVERY	
10							

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611724.029
Date Started Drilling: 10/20/2016 9:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683603.342
Date Finished Drilling: 10/20/2016 10:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 10.077 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		ASPHALT		ASPHALT and gravel sub-base	
2			dry to moist	FILL		fine to medium SAND, little fill debris, (5YR 2.5/1) black, dense, dry to moist, no odor, no staining.	
3			moist	FILL		CINDERS, some ash, little coal, wood and fill debris, (5YR 2.5/1) black, loose, moist, no odor, no staining.	
4				NR		No Recovery	
5	4.5	0.0	wet	FILL		CINDERS, some ash, little coal and fill debris, (5YR 2.5/1) black, loose, wet, slight fuel oil-like odor, no staining, water at 5.5 feet.	P4-FOR-Z11BR-9.0-9.5
6							
7			wet	OL		Organic SILT, 80% organic silt, 20% organic fibers, (5YR 2.5/1) black, stiff, wet, moderate organic odor, no staining. Soils consistent with UNDorg.	
8							
9	4.5	0.0		NR		No Recovery	P4-FOR-Z11BR-12.0-12.5
10			wet	OL		Organic SILT, 90% organic silt, 10% organic fibers, (5YR 6/1) gray, stiff, wet, slight organic odor, no staining. Soils consistent with UNDorg.	
11			moist	ML		SILT, trace fine sand, (5YR 6/3) light reddish brown, very dense, moist, no odor, no staining. Soils consistent with UNDno.	
12							
13	5	0.0	wet	SW		fine to coarse SAND, little fine to coarse gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Z11BR-14.0-14.5
14							
15				NR		No Recovery	
16			wet	SW		fine to coarse SAND, little fine to coarse gravel, trace silt, (5YR 6/3) light reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	
17	1	0.0					P4-FOR-Z11BR-16.0-16.5
18							
19							
20							
21							P4-FOR-Z11BR-18.0-18.5
							P4-FOR-Z11BR-20.0-20.5

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611736.31
Date Started Drilling: 6/20/2016 9:44:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683629.04
Date Finished Drilling: 6/20/2016 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 5.0
Physical Location: Actual - Forrest PDI		Surface Elevation: 9.68 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt and gravel sub-base.	
1	4		moist	FILL		fine to medium SAND, some ash, trace cinders and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	P4-FOR-Z12B-1.0-1.5
2							
3							
4			moist	FILL		CINDERS, (2.5Y 2.5/1) black, loose, moist, no odor, no staining.	P4-FOR-Z12B-3.0-3.5
5				NR		NO RECOVERY	
6	4.5	0.0	wet	FILL		CINDERS, (2.5Y 2.5/1) black, loose, wet, no odor, no staining, water at 5.0 feet.	P4-FOR-Z12B-6.0-6.5
7			saturated	FILL		SILT, trace wood, (5Y 5/1) gray, medium dense, saturated, no odor, no staining.	
8			saturated	ML		SILT, (5Y 5/1) gray, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Z12B-6.5-7.0
9			wet	ML		SILT, trace fine sand, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
10				NR		NO RECOVERY	
11	4	0.0	wet	ML		SILT, trace fine sand, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
12			wet	SM		fine to medium silty SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
13				NR		NO RECOVERY	
14							
15							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611736.676
Date Started Drilling: 10/20/2016 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683629.648
Date Finished Drilling: 10/20/2016 9:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St - Supplemental PDI		Surface Elevation: 9.786 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0		ASPHALT		ASPHALT and gravel sub-base	P4-FOR-Z12BR-4.0-4.5
			moist	FILL		SILT, some ash and cinders, trace coal and concrete, (5YR 2.5/1) black, medium dense, moist, no odor, no staining.	
				NR		No Recovery	
5-8	5	0.0	wet	FILL		CINDERS, some ash, (5YR 2.5/1) black, loose, wet, no odor, no staining, water at 5.5 feet.	P4-FOR-Z12BR-8.0-8.5
			wet	OL		Organic SILT, 80% organic silt, 20% organic fibers, (5YR 2.5/1) black, stiff, saturated, moderate organic odor, no staining. Soils consistent with UNDorg.	
10-14	5	0.0					P4-FOR-Z12BR-10.0-10.5
			moist	ML		SILT, trace fine sand, (5YR 6/3) light reddish brown, very stiff, moist, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Z12BR-12.0-12.5
				SP		fine to medium SAND, little fine to medium gravel, trace silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Z12BR-14.0-14.5
15-20	5	0.0	wet	SW		fine to coarse SAND, little fine to coarse gravel, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Z12BR-16.0-16.5
							P4-FOR-Z12BR-18.0-18.5
							P4-FOR-Z12BR-20.0-20.5
21	1	0.0					

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60314351.GA.DE.PDI.FOR	Drilling Method: 9822	Coordinates (NJSPNAD83) x: 611898.62
Date Started Drilling: 4/27/2016 8:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683386.57
Date Finished Drilling: 4/27/2016 10:00:00 AM	Core Size: 3.5 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - HSN PDI		Surface Elevation: 13.16 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT and gravel sub-base.	
1	3.7		dry	FILL		ASH, some cinders, trace asphalt, (5YR 2.5/2) dark reddish brown, medium dense, dry, no odor, no staining.	P4-HSN-HH7B-1.1-1.6
2			moist	FILL		silty fine SAND, (10YR 5/4) yellowish brown, loose, moist, no odor, no staining.	
3							P4-HSN-HH7B-3.0-3.5
4				NR		NO RECOVERY	
5	5		moist	FILL		silty fine SAND, (10YR 5/4) yellowish brown, loose, moist, no odor, no staining.	P4-HSN-HH7B-5.0-5.5
6							
7							P4-HSN-HH7B-7.0-7.5
8			moist to wet	SP-SM		fine SAND, trace silt, (5YR 4/3) reddish brown, moist to wet, no odor, no staining, water at 8.0 feet bgs. Soils consistent with UNDno.	P4-HSN-HH7B-8.0-8.5
9	5		moist to wet	SP-SM		fine to medium SAND, (5YR 4/3) reddish brown, moist to wet, no odor, no staining. Soils consistent with UNDno.	
10							
11							
12							
13	5		moist to wet	SP		fine to medium SAND, (5YR 3/2) dark reddish brown, loose, moist to wet, no odor, no staining. Soils consistent with UNDno.	
14							
15			wet to saturated	SP-SM		fine SAND, (5YR 4/4) reddish brown, medium dense, wet to saturated, no odor, no staining. Soils consistent with UNDno.	
16							
17	1		wet to saturated	SP-SM		fine SAND, (5YR 4/4) reddish brown, medium dense, wet to saturated, no odor, no staining. Soils consistent with UNDno.	
18							
19							
20							
21							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

LOG OF SOIL BORING SB-34

AECOM Note: Ground Surface Elevation = 11.8 ft NAVD88

PROJECT LOCATION				GROUND ELEVATION (FT. MSL)		PROJECT NUMBER						
Halladay Street, Jersey City, New Jersey						020667601						
DRILLING CONTRACTOR			FOREMAN		DATE STARTED		DATE COMPLETED					
Advanced Drilling, Inc.			Jeremy Logel		04/14/05		04/14/05					
DRILLING EQUIPMENT					COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)					
Hollow Stem Auger Rig, 4.25" Augers					55'		55'					
TYPE BIT		N/A	SIZE AND TYPE CORE BARREL		NO. SAMPLES	DIST.	24	UNDIST.	N/A	CORE	N/A	
CASING		N/A	N/A		WATER DEPTH	FIRST	4'	COMPL	N/A	24HR	N/A	
CASING HAMMER		WEIGHT	N/A	DROP	N/A	BORING LOCATION						
SAMPLER						2" diameter, 2' long split-spoon						
SAMPLER						Forrest Street, side, west of Halladay Street						
SAMPLER HAMMER		WEIGHT	140 lbs.	DROP	30"	INSPECTOR						Eric Gaulin

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
0.0-2.0 No spoon collected, augered; 3" asphalt, 8" crushed stone		- 0 -											
		- -											
		- 1 -											
		- -											
2.0-2.2' Crushed stone		- 2 -											
2.2-2.6' Reddish brown (2.5YR4/4) fine SANDY SILT (SM)		- -		1	1.6	5	1002	0.0	0.0	1002	N/A	N/A	
2.6-3.6' Reddish brown (2.5YR4/4) fine to medium SAND (SW)		- 3 -				5		0.0					
		- -				5		0.0					
		- -				5		0.0					
4.0-9.0' Reddish brown (2.5YR4/3) fine to medium SAND, trace silt, occasional 1" band of fine gravel (1/8") gravel		- 4 -		2	1.0	3	1009	0.0	0.0	1009	N/A	N/A	
		- -				3		0.0					
		- 5 -				3							
		- -				3							
		- 6 -		3	1.5	3	1010	0.0	0.0	1010	N/A	N/A	
		- -				4		0.0					
		- 7 -				4		0.0					
		- -				3							
		- 8 -		4	1.0	4	1011	0.0	0.0	1011	N/A	N/A	
		- -				3		0.0					
		- 9 -				3							
		- -				4							
		- 10 -											

LOG OF SOIL BORING SB-34

AECOM Note: Ground Surface Elevation = 11.8 ft NAVD88

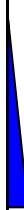

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER	
Halladay Street, Jersey City, New Jersey					020667601	
DRILLING CONTRACTOR		FOREMAN	DATE STARTED		DATE COMPLETED	
Advanced Drilling, Inc.		Jeremy Logel	04/14/05		04/14/05	
DRILLING EQUIPMENT			COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)	
Hollow Stem Auger Rig, 4.25" Augers			55'		55'	
TYPE BIT	N/A	SIZE AND TYPE CORE BARREL	NO. SAMPLES	DIST. 24	UNDIST. N/A	CORE N/A
CASING	N/A	N/A	WATER DEPTH	FIRST 4'	COMPL N/A	24HR N/A
CASING HAMMER	WEIGHT N/A	DROP N/A	BORING LOCATION			
SAMPLER 2" diameter, 2' long split-spoon			Forrest Street, side, west of Halladay Street			
SAMPLER HAMMER	WEIGHT 140 lbs.	DROP 30"	INSPECTOR Eric Gaulin			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
10.0-15.1' Reddish brown (2.5YR4/3) fine to medium SILTY SAND, trace fine gravel (1/8") gravel (SW)		- 10 -		5	1.25	4	1020	0.0	0.0	1020	N/A	N/A	
		- -				5		0.0					
		- 11 -				7		0.0					
		- -				7							
15.1'-17.5 Dark reddish brown (2.5YR3/4) fine SILTY SAND (SM)		- 12 -		6	1.0	7	1021	0.0	0.0	1021	N/A	N/A	
		- -				8		0.0					
		- 13 -				9							
		- -				8							
17.5-17.7' Dark reddish brown (2.5YR3/4) fine SANDY SILT (SM)		- 14 -		7	1.5	6	1034	0.0	0.0	1034	N/A	N/A	
		- -				7		0.0					
		- 15 -				7		0.0					
		- -				6							
18.0-20.8' Dark reddish brown (2.5YR3/4) fine SAND (SP)		- 16 -		8	1.7	7	1040	0.0	0.0	1040	N/A	N/A	
		- -				7		0.0					
		- 17 -				7		0.0					1041 Sample SB-24 (18.0-18.5) for TCL VOC, TCL SVOC, TAL Metals, Total and amenable CN
		- -				7		0.0					
		- 18 -		9	2.0	10	1041	0.0	0.0	1041	N/A	N/A	
		- -				11		0.0					
		- 19 -				13		0.0					
		- -				14		0.0					
		- 20 -											

LOG OF SOIL BORING SB-34

AECOM Note: Ground Surface Elevation = 11.8 ft NAVD88





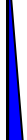

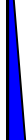

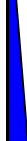
PROJECT LOCATION				GROUND ELEVATION (FT. MSL)		PROJECT NUMBER	
Halladay Street, Jersey City, New Jersey						020667601	
DRILLING CONTRACTOR		FOREMAN		DATE STARTED		DATE COMPLETED	
Advanced Drilling, Inc.		Jeremy Logel		04/14/05		04/14/05	
DRILLING EQUIPMENT				COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)	
Hollow Stem Auger Rig, 4.25" Augers				55'		55'	
TYPE BIT		N/A		SIZE AND TYPE CORE BARREL		NO. SAMPLES	
						DIST. 24	
CASING		N/A		WATER DEPTH		UNDIST. N/A	
				FIRST 4'		CORE N/A	
CASING HAMMER		WEIGHT N/A		DROP N/A		COMPL N/A	
						24HR N/A	
BORING LOCATION							
SAMPLER 2" diameter, 2' long split-spoon				Forrest Street, side, west of Halladay Street			
SAMPLER HAMMER		WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
18.0-20.8' Dark reddish brown (2.5YR3/4) fine SAND (SP)		- 20 -											
			10	1.5	6	1055	0.0	0.0	1055	N/A	N/A		
20.8-21.2' Dark reddish brown (2.5YR3/4) fine SANDY SILT (SM)		- -			8		0.0						
21.2-23.0' Dark reddish brown (2.5YR3/4) fine SILT SAND (SM)		- 21 -			9		0.0						
23.0-25.7' Dark reddish brown (2.5YR3/4) fine SANDY SILT (SM)		- -			9								
		- 22 -		11	2.0	9	1058	0.0	0.0	1058	N/A	N/A	
		- -			8		0.0						
		- 23 -			10		0.0						
		- -			11		0.0						
		- 24 -		12	2.0	4	1120	0.0	0.0	1120	N/A	N/A	
25.7-25.8' Reddish brown (5YR4/3) SILTY CLAY (CL)		- 25 -		6		0.0							
			6		0.0								
25.8-26.1' Reddish brown (5YR4/3) fine SILTY SAND (SM)		- -		6		0.0							
		- 26 -		13	2.0	9	1122	0.0	0.0	1122	N/A	N/A	
26.1-33.75' Reddish brown (5YR4/3) fine SANDY SILT (SM)		- -			12		0.0						
	- 27 -			12		0.0							
	- -			12		0.0							
	- 28 -		14	2.0	9	1125	0.0	0.0	1125	N/A	N/A		
	- -			12		0.0							
	- 29 -			9		0.0							
	- -			8		0.0							
	- 30 -												

LOG OF SOIL BORING SB-34

AECOM Note: Ground Surface Elevation = 11.8 ft NAVD88

PROJECT LOCATION				GROUND ELEVATION (FT. MSL)		PROJECT NUMBER						
Halladay Street, Jersey City, New Jersey						020667601						
DRILLING CONTRACTOR			FOREMAN		DATE STARTED		DATE COMPLETED					
Advanced Drilling, Inc.			Jeremy Logel		04/14/05		04/14/05					
DRILLING EQUIPMENT					COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)					
Hollow Stem Auger Rig, 4.25" Augers					55'		55'					
TYPE BIT		N/A	SIZE AND TYPE CORE BARREL		NO. SAMPLES	DIST.	24	UNDIST.	N/A	CORE	N/A	
CASING		N/A	N/A		WATER DEPTH	FIRST	4'	COMPL	N/A	24HR	N/A	
CASING HAMMER		WEIGHT	N/A		DROP		N/A		BORING LOCATION			
SAMPLER					2" diameter, 2' long split-spoon		Forrest Street, side, west of Halladay Street					
SAMPLER HAMMER		WEIGHT	140 lbs.		DROP		30"		INSPECTOR			Eric Gaulin

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr: BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
26.1-33.75' Dark reddish brown (5YR4/3) fine SANDY SILT (SM)		- 30 -											
		15	1.0	4	1137	0.0	0.0	1137	N/A	N/A			
				5		0.0							
		- 31 -			6								
33.75-34.2' Reddish brown (5YR5/4) SILT and SILTY CLAY (CL)		- -											
				8									
		- 32 -											
		16	2.0	9	1141	0.0	0.0	1141	N/A	N/A			
34.2-37.0' Reddish brown (5YR5/4) fine SANDY SILT with occassional 1/2" band of SILT (SM)		- -											
				11		0.0							
		- 33 -			14		0.0						
				17		0.0							
37.0-39.0' Reddish brown (5YR5/4) fine SANDY SILT (SM)		- 34 -											
		17	1.7	14	1158	0.0	0.0	1158	N/A	N/A			
		- -			15		0.0						
		- 35 -			18		0.0						
39.0-40.5' Reddish brown (2.5YR4/4) interlaminated SILT and SILTY CLAY, layers 1" to 2" thick (CL)		- -											
				20		0.0							
		- 36 -											
		18	2.0	15	1159	0.0	0.0	1159	N/A	N/A			
		- -											
				15		0.0							
		- 37 -			15		0.0						
				17		0.0							
		- 38 -											
		19	2.0	9	1203	0.0	0.0	1203	N/A	N/A	1208 Sample SB-24 (38.0-38.5) for TCL VOC, TCL SVOC, TAL Metals, Total and amenable CN		
		- -			10		0.0						
		- 39 -			11		0.0						
		- -											
				14		0.0							
		- 40 -											

LOG OF SOIL BORING SB-34
AECOM Note: Ground Surface Elevation = 11.8 ft NAVD88

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER					
Halladay Street, Jersey City, New Jersey					020667601					
DRILLING CONTRACTOR		FOREMAN	DATE STARTED		DATE COMPLETED					
Advanced Drilling, Inc.		Jeremy Logel	04/14/05		04/14/05					
DRILLING EQUIPMENT			COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)					
Hollow Stem Auger Rig, 4.25" Augers			55'		55'					
TYPE BIT	N/A	SIZE AND TYPE CORE BARREL	NO. SAMPLES	DIST.	24	UNDIST.	N/A	CORE	N/A	
CASING	N/A	N/A	WATER DEPTH	FIRST	4'	COMPL.	N/A	24HR	N/A	
CASING HAMMER	WEIGHT	N/A	DROP	N/A	BORING LOCATION					
SAMPLER			2" diameter, 2' long split-spoon		Forrest Street, side, west of Halladay Street					
SAMPLER HAMMER	WEIGHT	140 lbs.	DROP	30"	INSPECTOR					Eric Gaulin

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
39.0-40.5' Reddish brown (2.5YR4/4) interlaminated SILT and SILTY CLAY, layers 1" to 2" thick (CL) 40.5-47.0' TILL: consisting of 60% angular medium grained black argillite and gray rock fragments, with dark reddish gray (2.5YR4/1) SILTY CLAY, CLAYEY SAND		- 40 -		20	1.25	14	1325	0.0	0.0	1325	N/A	N/A	
		- -			52		0.0						
		- 41 -			47		0.0						
		- -			51								
		- 42 -		21	1.0	28	1329	0.0	0.0	1329	N/A	N/A	
		- -			46		0.0						
		- 43 -			100/5"								Spoon refusal
		- -											
		- 44 -		22	1.5	25	1355	0.0	0.0	1355	N/A	N/A	
		- -			47		0.0						
48.0-52.0' No spoons collect; augered to clear hole		- 45 -				63		0.0					
		- -			28								
		- 46 -		23	1.0	51	1402	0.0	0.0	1402	N/A	N/A	
		- -			4		0.0						
		- 47 -			100/4"								Spoon refusal
		- -											
		- 48 -											
		- -											
		- 49 -											
		- -											
	- 50 -												

LOG OF SOIL BORING SB-34

AECOM Note: Ground Surface Elevation = 11.8 ft NAVD88

PROJECT LOCATION Halladay Street, Jersey City, New Jersey				GROUND ELEVATION (FT. MSL)		PROJECT NUMBER 020667601			
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Jeremy Logel		DATE STARTED 04/14/05		DATE COMPLETED 04/14/05			
DRILLING EQUIPMENT Hollow Stem Auger Rig, 4.25" Augers				COMPLETION DEPTH (FT BGS) 55'		ROCK DEPTH (FT) 55'			
TYPE BIT N/A		SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 24		DIST. 4'		UNDIST. N/A	
CASING N/A		CASING HAMMER N/A		WATER DEPTH N/A		FIRST N/A		COMPL. N/A	
WEIGHT N/A				DROP N/A		BORING LOCATION Forrest Street, side, west of Halladay Street			
SAMPLER 2" diameter, 2' long split-spoon				SAMPLER HAMMER 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS	
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date		
52.0-52.5 TILL: consisting of 60% angular medium grained black argillite and gray rock fragments, with dark reddish gray (2.5YR4/1) SILTY CLAY, CLAYEY SAND 55.0 Auger refusal, possibly bedrock; end of boring		- 50 -												
		- -												
		- 51 -												
		- -												
		- 52 -												
	24	0.5	100/6"	1428	0.0	0.0	1428	N/A	N/A	Spoon refusal				
		- -												
		- 53 -												
		- -												
		- 54 -												
		- -												
		- 55 -												
		- -												
		- 56 -												
		- -												
		- 57 -												
	- -													
	- 58 -													
	- -													
	- 59 -													
	- -													
	- 60 -													

LOG OF SOIL BORING SB-35
AECOM Note: Ground Surface Elevation = 10.1 ft NAVD88

PROJECT LOCATION				GROUND ELEVATION (FT. MSL)		PROJECT NUMBER			
Halladay Street, Jersey City, New Jersey						020667601			
DRILLING CONTRACTOR			FOREMAN		DATE STARTED		DATE COMPLETED		
Advanced Drilling, Inc.			Jeremy Logel		04/15/05		04/15/05		
DRILLING EQUIPMENT					COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)		
Hollow Stem Auger Rig, 4.25" Augers					50.0		not encountered		
TYPE BIT N/A			SIZE AND TYPE CORE BARREL		NO. SAMPLES	DIST. 24	UNDIST. N/A	CORE N/A	
CASING N/A			N/A		WATER DEPTH	FIRST 4'	COMPL. N/A	24HR	N/A
CASING HAMMER		WEIGHT N/A		DROP N/A		BORING LOCATION			
SAMPLER 2" diameter, 2' long split-spoon					Forrest Street, side, west of Halladay Street				
SAMPLER HAMMER		WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	(PPM)					
								Sample	Ambient Air	Time	Head Space	Time Date	
0.0-2.0 No spoon collected, augered; 3" asphalt, 8" crushed stone		- 0 -											
		- -											
		- 1 -											
		- -											
2.0-3.0' FILL: consisting of rust colored fine to medium SAND, SILT, trace gravel		- 2 -		1	1.0	4	0826	0.0	0.0	0826	N/A	N/A	
		- -				6		0.0					
		- 3 -				7							
		- -				5							
4.0-6.2' FILL: Dark reddish brown (5YR3/4) silt and gravel		- 4 -		2	0.25	4	0835	0.0	0.0	0835	N/A	N/A	
		- -				4							
		- 5 -				3							
		- -				3							
6.2-8.2' Dark reddish brown (5YR3/4) fine SANDY SILT (SM) with slight lubricating oil odors, no staining		- 6 -		3	1.2	3	0837	0.0	0.0	0837	N/A	N/A	
		- -				1		1.2					
		- 7 -				1		3.5					
		- -				2		0.0					
8.2-13.0' Reddish yellow (5YR6/8) and reddish brown (2.5YR5/4) thinly interlaminated SILT and SILTY CLAY (CL) no odors		- 8 -		4	1.2	3	0838	0.0	0.0	0838	N/A	N/A	
		- -				4		0.0					
		- 9 -				5		0.0					
		- -				6		0.0					
		- 10 -											

LOG OF SOIL BORING SB-35

AECOM Note: Ground Surface Elevation = 10.1 ft NAVD88

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER	
Halladay Street, Jersey City, New Jersey					020667601	
DRILLING CONTRACTOR		FOREMAN	DATE STARTED		DATE COMPLETED	
Advanced Drilling, Inc.		Jeremy Logel	04/15/05		04/15/05	
DRILLING EQUIPMENT			COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)	
Hollow Stem Auger Rig, 4.25" Augers			50.0		not encountered	
TYPE BIT	N/A	SIZE AND TYPE CORE BARREL	NO. SAMPLES	DIST. 24	UNDIST. N/A	CORE N/A
CASING	N/A	N/A	WATER DEPTH	FIRST 4'	COMPL. N/A	24HR N/A
CASING HAMMER	WEIGHT N/A	DROP N/A	BORING LOCATION			
SAMPLER 2" diameter, 2' long split-spoon			Forrest Street, side, west of Halladay Street			
SAMPLER HAMMER	WEIGHT 140 lbs.	DROP 30"	INSPECTOR Eric Gaulin			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
8.2-13.0' Reddish yellow (5YR6/8) and reddish brown (2.5YR5/4) thinly interlaminated SILT and SILTY CLAY (CL) no odors		- 10 -		5	1.0	4	0840	0.0	0.0	0840	N/A	N/A	
		- -			5		0.0						
		- 11 -			25								
		- -			6								
13.0-14.0' Yellowish red (5YR4/6) fine SILTY SAND and fine SAND (SM)		- 12 -		6	2.0	5	0845	0.0	0.0	0845	N/A	N/A	
		- -			6		0.0						
		- 13 -			4		0.0						
		- -			3		0.0						
14.0-17.0' Brown (7.5YR4/4) fine to coarse SAND, trace silt (SW), with occasional 1-2" bands of subrounded 1/8" gravel		- 14 -		7	2.0	12	0856	0.0	0.0	0856	N/A	N/A	
		- -			13		0.0						
		- 15 -			15		0.0						
		- -			18		0.0						
17.0-20.6' Brown (7.5YR4/4) fine to medium SAND with 75% subrounded gravel, trace silt (SW)		- 16 -		8	2.0	18	0859	0.0	0.0	0859	N/A	N/A	
		- -			19		0.0						
		- 17 -			22		0.0						
		- -			21		0.0						
		- 18 -		9	1.0	12	0918	0.0	0.0	0918	N/A	N/A	
		- -			15		0.0						
		- 19 -			17								
		- -			21								
		- 20 -											

LOG OF SOIL BORING SB-35

AECOM Note: Ground Surface Elevation = 10.1 ft NAVD88

PROJECT LOCATION				GROUND ELEVATION (FT. MSL)		PROJECT NUMBER							
Halladay Street, Jersey City, New Jersey						020667601							
DRILLING CONTRACTOR			FOREMAN		DATE STARTED		DATE COMPLETED						
Advanced Drilling, Inc.			Jeremy Logel		04/15/05		04/15/05						
DRILLING EQUIPMENT					COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)						
Hollow Stem Auger Rig, 4.25" Augers					50.0		not encountered						
TYPE BIT		N/A		SIZE AND TYPE CORE BARREL		NO. SAMPLES	DIST.	24	UNDIST.	N/A	CORE	N/A	
CASING		N/A		N/A		WATER DEPTH	FIRST	4'	COMPL	N/A	24HR	N/A	
CASING HAMMER		WEIGHT		N/A		DROP		N/A		BORING LOCATION			
SAMPLER						2" diameter, 2' long split-spoon							
SAMPLER						Forrest Street, side, west of Halladay Street							
SAMPLER HAMMER		WEIGHT		140 lbs.		DROP		30"		INSPECTOR			Eric Gaulin

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
17.0-20.6' Brown (7.5YR4/4) fine to medium SAND with 75% subrounded gravel, trace silt (SW)		- 20 -		10	1.6	18	0934	0.0	0.0	0934	N/A	N/A	0936 Sample SB-35 (21.0-21.5) for TCL VOC, TCL SVOC, TAL Metals, Total and amenable CN
20.6-21.2' Reddish brown (2.5YR4/4) fine SILTY SAND (SM)		- 21 -				17		0.0					
21.2-21.6' Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace SILT		- 22 -				19		0.0					
		- 23 -				20							
22.0-24.0' Reddish brown (2.5YR4/4) fine SANDY SILT (SM)		- 24 -		11	2.0	15	0941	0.0	0.0	0941	N/A	N/A	
		- 25 -					14		0.0				
		- 26 -					13		0.0				
		- 27 -					12		0.0				
24.0-25.0' Reddish brown (2.5YR4/4) fine SANDY SILT (SM) with trace of subangular to subrounded 1" gravel		- 28 -		12	1.0	4	0956	0.0	0.0	0956	N/A	N/A	
		- 29 -					11		0.0				
		- 30 -					12						
		- 31 -					14						
26.0-29.0' Reddish brown (2.5YR4/4) fine SILTY SAND (SM) with trace of subangular to subrounded 1" gravel		- 32 -		13	2.0	14	0958	0.0	0.0	0958	N/A	N/A	
		- 33 -					15		0.0				
		- 34 -					15		0.0				
		- 35 -					17		0.0				
29.0-30.0' Reddish brown (2.5YR4/4) fine to medium SILTY SAND (SM)		- 36 -		14	2.0	21	1006	0.0	0.0	1006	N/A	N/A	
		- 37 -					18		0.0				
		- 38 -					17		0.0				
		- 39 -				16		0.0					
		- 40 -											

LOG OF SOIL BORING SB-35
AECOM Note: Ground Surface Elevation = 10.1 ft NAVD88

PROJECT LOCATION Halladay Street, Jersey City, New Jersey		GROUND ELEVATION (FT. MSL)		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Jeremy Logel		DATE COMPLETED 04/15/05	
DRILLING EQUIPMENT Hollow Stem Auger Rig, 4.25" Augers		COMPLETION DEPTH (FT BGS) 50.0		ROCK DEPTH (FT) not encountered	
TYPE BIT	N/A	SIZE AND TYPE CORE BARREL	N/A	NO. SAMPLES	DIST. 24
CASING	N/A			WATER DEPTH	FIRST 4'
CASING HAMMER	WEIGHT N/A	DROP N/A		UNDIST.	N/A
SAMPLER	2" diameter, 2' long split-spoon			COMPL.	N/A
SAMPLER HAMMER	WEIGHT 140 lbs.	DROP 30"		24HR	N/A
			BORING LOCATION Forrest Street, side, west of Halladay Street		
			INSPECTOR Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	(PPM)					
								Sample	Ambient Air	Time	Head Space	Time Date	
30.0-33.0' Reddish brown (2.5YR4/4) fine to medium SILTY SAND (SM), with <5% 													

LOG OF SOIL BORING SB-35

AECOM Note: Ground Surface Elevation = 10.1 ft NAVD88

PROJECT LOCATION Halladay Street, Jersey City, New Jersey		GROUND ELEVATION (FT. MSL)		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Jeremy Logel		DATE COMPLETED 04/15/05	
DRILLING EQUIPMENT Hollow Stem Auger Rig, 4.25" Augers		COMPLETION DEPTH (FT BGS) 50.0		ROCK DEPTH (FT) not encountered	
TYPE BIT N/A	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 24	DIST. 4'	UNDIST. N/A	CORE N/A
CASING N/A	WATER DEPTH N/A	FIRST N/A	COMPL. N/A	24HR N/A	
CASING HAMMER N/A	WEIGHT N/A	DROP N/A	BORING LOCATION Forrest Street, side, west of Halladay Street		
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin				
SAMPLER HAMMER N/A	WEIGHT 140 lbs.	DROP 30"			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	(PPM)					
								Sample	Ambient Air	Time	Head Space	Time Date	
34.7-41.3' Reddish brown (2.5YR4/4) fine SANDY SILT, trace silt (SM)		- 40 -		20	2.0	18	1129	0.0	0.0	1129	N/A	N/A	
41.3-41.6' Reddish brown (2.5YR4/4) and reddish gray (2.5YR5/1) interlaminated SILT and SILTY CLAY		- 41 -				20		0.0					
41.6-42.5' Reddish brown (2.5YR4/4) loose SILTY CLAY (CL)		- 42 -				21		0.0					
		- 42 -				24		0.0					
42.5-42.9' Reddish brown (2.5YR4/4) fine SANDY SILT, trace clay (SM)		- 43 -		21	1.5	23	1131	0.0	0.0	1131	N/A	N/A	
42.9-43.5' Reddish brown (2.5YR5/3) fine to medium SAND, trace gravel, trace SILT (SW)		- 44 -				25		0.0					
		- 45 -				27		0.0					
		- 46 -				32							
44.0-48.5' Reddish brown (2.5YR4/4) and reddish gray (2.5YR5/1) interlaminated SILT and SILTY CLAY		- 47 -		22	1.75	32	1150	0.0	0.0	1150	N/A	N/A	1206 SB-35 (44.5-45.0) and SB-35 (44.5-45.0)D for TCL VOC, TCL SVOC, TAL Metals, Total and amendable CN
		- 48 -				45		0.0					
		- 49 -				43		0.0					
		- 50 -				46		0.0					
		- 51 -		23	2.0	40	1153	0.0	0.0	1153	N/A	N/A	
		- 52 -				52		0.0					
		- 53 -				54		0.0					
		- 54 -				49		0.0					
48.5-50.0' TILL: Reddish brown (2.5YR4/4) consisting of 90% gravel 1/8" with some sand, silt, gravel is black argillite, angular to subangular		- 55 -		24	2.0	38	1156	0.0	0.0	1156	N/A	N/A	
End of boring at 50'		- 56 -				53		0.0					
		- 57 -				51		0.0					
		- 58 -				41		0.0					

Note that PPG Cr+6 samples collected as part of this boring are not included in this boring log.

PSEG SC Former Halladay Street Gas Works Interim Data Submittal No.4						SCHOOR DEPALMA Page 1 of 4							
LOG OF SOIL BORING SB-46													
AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88													
PROJECT LOCATION Halladay Street , Jersey City, NJ					GROUND ELEVATION (FT. MSL) 11.13		PROJECT NUMBER 020667601						
DRILLING CONTRACTOR Advanced Drilling, Inc.			FOREMAN Roger Logel		DATE STARTED 11/30/06		DATE COMPLETED 12/01/06						
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers					COMPLETION DEPTH (FT BGS) 36		ROCK DEPTH (FT) not encountered						
TYPE BIT Hollow-stem auger			SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 16		DIST. 16		UNDIST. N/A		CORE N/A		
CASING N/A			N/A		WATER DEPTH FIRST 4		COMPL. N/A		24HR N/A		N/A		
CASING HAMMER		WEIGHT N/A		DROP N/A		BORING LOCATION: 375 ft projected NW along the center of Forrest Street from the intersection with Halladay Street, approx. 30 ft beyond end of Forrest Street.							
SAMPLER 2" diameter, 2' long split-spoon													
SAMPLER HAMMER		WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin							
DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
Cleared via hand digging to 4'; 0.0-1.5 FILL: consisting of gravel, black silt 1.5-2.0 FILL: Chromate ore processing residue (COPR) 2.0-4.0 FILL: Brick fragments		- 0 -											
		- -											
		- 1 -											
		- -											
		- 2 -											
		- -											
		- 3 -											
		- -											
4.0-8.5 FILL: consisting of fine gravel, clinker, coal fragments		- 4 -											
		- -											
		- 5 -	1	1.0	3	1435	0.0	0.0	1435	N/A	N/A		
		- -											
		- 6 -											
		- -											
		- 7 -											
		- -											
8.5-12.5 Brown PEAT (PT) containing little distinguishable fibers		- 8 -											
		- -											
		- 9 -	2	0.9	1	1438	0.0	0.0	1438	N/A	N/A		
		- -											
		- 10 -											
		- -											
		- 11 -											
		- -											





LOG OF SOIL BORING SB-46
AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER	
Halladay Street , Jersey City, NJ			11.13		020667601	
DRILLING CONTRACTOR		FOREMAN	DATE STARTED		DATE COMPLETED	
Advanced Drilling, Inc.		Roger Logel	11/30/06		12/01/06	
DRILLING EQUIPMENT			COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)	
GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			36		not encountered	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL	NO. SAMPLES	DIST. 16	UNDIST. N/A	CORE N/A
CASING N/A		N/A	WATER DEPTH	FIRST 4	COMPL. N/A	24HR N/A
CASING HAMMER	WEIGHT N/A	DROP N/A	BORING LOCATION: 375 ft projected NW along the center of Forrest Street from the intersection with Halladay Street, approx. 30 ft beyond end of Forrest Street.			
SAMPLER 2" diameter, 2' long split-spoon						
SAMPLER HAMMER	WEIGHT 140 lbs.	DROP 30"	INSPECTOR Eric Gaulin			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
8.5-12.5 Brown PEAT (PT) containing little distinguishable fibers		- 10 -		4	1.6	1	1455	0.0	0.0	1455	N/A	N/A	Sample SB-46(11.0-11.5) collected at 1504 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
		- -				1		0.0	0.0				
		- 11 -				1		0.0	0.0				
		- -				2		0.0	0.0				
12.5-14.0 Yellowish brown (10YR5/4) fine SILTY SAND (SM), trace clay		- 12 -		5	1.5	2	1503	0.0	0.0	1503	N/A	N/A	No odors or staining in this spoon
		- -				2		0.0	0.0				
		- 13 -				3		0.0	0.0				
		- -				3		0.0	0.0				
14.0-16.3 Yellowish brown (10YR5/4) fine SILTY SAND (SM), trace clay, >50% cobble fragments, consisting of fine white/pepper sandstone fragments		- 14 -		6	1.2	2	1513	0.0	0.0	1513	N/A	N/A	No odors or staining in this spoon
		- -				2		0.0	0.0				
		- 15 -				2		0.0	0.0				
		- -				3		0.0	0.0				
16.3-20.0 Yellowish brown (10YR5/4) fine to medium SAND (SW), with small to large green siltstone fragments		- 16 -		7	1.6	2	1516	0.0	0.0	1516	N/A	N/A	No odors or staining in this spoon
		- -				2		0.0	0.0				
		- 17 -				3		0.0	0.0				
		- -				3		0.0	0.0				
		- 18 -		8	1.0	2	1528	0.0	0.0	1528	N/A	N/A	No odors or staining in this spoon
		- -				2		0.0	0.0				
		- 19 -				3		0.0	0.0				
		- -				3							
		- 20 -											

LOG OF SOIL BORING SB-46

AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88

PROJECT LOCATION Halladay Street , Jersey City, NJ				GROUND ELEVATION (FT. MSL) 11.13				PROJECT NUMBER 020667601										
DRILLING CONTRACTOR Advanced Drilling, Inc.			FOREMAN Roger Logel		DATE STARTED 11/30/06			DATE COMPLETED 12/01/06										
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers					COMPLETION DEPTH (FT BGS) 36			ROCK DEPTH (FT) not encountered										
TYPE BIT Hollow-stem auger			SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 16		DIST. N/A		CORE N/A									
CASING N/A			N/A		WATER DEPTH FIRST 4		COMPL. N/A		24HR N/A									
CASING HAMMER		WEIGHT N/A		DROP N/A		BORING LOCATION: 375 ft projected NW along the center of Forrest Street from the intersection with Halladay Street, approx. 30 ft beyond end of Forrest Street.												
SAMPLER 2" diameter, 2' long split-spoon					INSPECTOR Eric Gaulin													
SAMPLER HAMMER		WEIGHT 140 lbs.		DROP 30"														
DESCRIPTION			Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS					REMARKS			
						Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	(PPM)								
										Sample	Ambient Air	Time	Head Space	Time Date				
20.0-24.0 Red (2.5YR4/6) fine to coarse SAND (SW), with less than 1% fine gravel				- 20 -	9	1.5	2	N/A	0.0	0.0	N/A	N/A	N/A	No odors this spoon				
				- -														
				- 21 -			3		0.0	0.0								
				- -			3		0.0	0.0								
				- 22 -			5											
				- -														
				- 23 -	10	1.5	2	N/A	0.0	0.0	N/A	N/A	N/A		No odors this spoon			
				- -			2		0.0	0.0								
				- 24 -			2		0.0	0.0								
				24.0-26.0 Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace silt				- 24 -	11	1.2	2	N/A	0.0		0.0	N/A	N/A	N/A
- -																		
- 25 -			3						0.0	0.0								
- -			5						0.0	0.0								
- 26 -			4															
- -																		
- 27 -	12	0.9	4					N/A	0.0	0.0	N/A	N/A	N/A	No sheen noted in this spoon				
- -			5						0.0	0.0								
- 28 -			4															
26.0-26.3 Reddish brown (2.5YR4/4) fine SILTY SAND (SM) 26.3-28.0 Reddish brown (5YR4/3) fine SANDY SILT (ML)								- 27 -			5						Drilling ended here 11 30-06	
				- -			4											
				- 28 -			5											
				- -														
				- 29 -	13	1.8	4	0755	0.1	0.0	0755	N/A	N/A	Drilling resumed here 12-1-06 No odors or sheen in this spoon				
				- -			4		0.8	0.0								
				- 30 -			5		0.0	0.0								
				28.0-31.0 Reddish brown (5YR4/3) fine SILTY SAND (SM)				- -			5		0.0	0.0				
								- 29 -			5		0.0	0.0				
								- -			5		0.0	0.0				

LOG OF SOIL BORING SB-46

AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER	
Halladay Street , Jersey City, NJ			11.13		020667601	
DRILLING CONTRACTOR		FOREMAN	DATE STARTED		DATE COMPLETED	
Advanced Drilling, Inc.		Roger Logel	11/30/06		12/01/06	
DRILLING EQUIPMENT			COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)	
GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			36		not encountered	
TYPE BIT	Hollow-stem auger	SIZE AND TYPE CORE BARREL	NO. SAMPLES	DIST. 16	UNDIST. N/A	CORE N/A
CASING	N/A	N/A	WATER DEPTH	FIRST 4	COMPL. N/A	24HR N/A
CASING HAMMER	WEIGHT N/A	DROP N/A	BORING LOCATION: 375 ft projected NW along the center of Forrest Street from the intersection with Halladay Street, approx. 30 ft beyond end of Forrest Street.			
SAMPLER 2" diameter, 2' long split-spoon						
SAMPLER HAMMER	WEIGHT 140 lbs.	DROP 30"	INSPECTOR Eric Gaulin			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
28.0-31.0 Reddish brown (5YR4/3) fine SILTY SAND (SM)		- 30 -		14	1.7	4	0800	0.0	0.0	0800	N/A	N/A	No odors or sheen noted in this spoon
		- - -											
		- 31 -											
		- - -											
31.0-34.3 Reddish brown (5YR4/3) fine SANDY SILT (ML)		- 32 -		15	0.8	4	0818	0.0	0.0	0818	N/A	N/A	Sample SB-46(35.0- 35.5) collected at 0821 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
		- - -											
		- 33 -											
		- - -											
34.3-34.6 Reddish brown (5YR4/3) fine SILTY SAND (SM)		- 34 -		16	1.5	4	0821	0.0	0.0	0821	N/A	N/A	
34.6-35.0 Reddish brown (5YR4/3) fine SANDY SILT (ML)		- - -											
35.0-35.5 Reddish brown (5YR4/3) fine SILTY SAND (SM)		- 35 -											
		- - -											
END OF BORING AT 36'		- 36 -											
		- - -											
		- 37 -											
		- - -											
		- 38 -											
		- - -											
		- 39 -											
		- - -											
		- 40 -											

Note that PPG Cr+6 samples collected as part of this boring are not included in this boring log.

PSEG SC Former Halladay Street Gas Works Interim Data Submittal No.4						SCHOOR DEPALMA Page 1 of 4					
LOG OF SOIL BORING SB-47 AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88											
PROJECT LOCATION Halladay Street , Jersey City, NJ						GROUND ELEVATION (FT. MSL) 11.13		PROJECT NUMBER 020667601			
DRILLING CONTRACTOR Advanced Drilling, Inc.				FOREMAN Roger Logel		DATE STARTED 11/29/06		DATE COMPLETED 11/29/06			
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers						COMPLETION DEPTH (FT BGS) 36		ROCK DEPTH (FT) not encountered			
TYPE BIT Hollow-stem auger				SIZE AND TYPE CORE BARREL		NO. SAMPLES DIST. 16		UNDIST. N/A		CORE N/A	
CASING N/A				N/A		WATER DEPTH FIRST NA		COMPL. N/A		24HR N/A	
CASING HAMMER		WEIGHT N/A		DROP N/A		BORING LOCATION: West side of Forrest Street, 273 ft NW from the western corner of the Halladay Street / Forrest Street intersection.					
SAMPLER 2" diameter, 2' long split-spoon						INSPECTOR Eric Gaulin					
SAMPLER HAMMER		WEIGHT 140 lbs.		DROP 30"							

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
Cleared via hand digging to 4'; boring through asphalt; Fill consisted of gravel, some ash material (AM), some clinker material (CM), some suspected pellets of chromate ore processing residue (COPR)	- 0 -												
	- -												
	- 1 -												
	- -												
4.0-7.0 FILL: CM	- 2 -												
	- -												
	- 3 -												
	- -												
7.0-8.0 Grayish brown SILT (MH), trace clay	- 4 -	1	1.8	3	1319	0.0	0.0	1319	N/A	N/A			
	- -			4		0.0	0.0						
	- 5 -			3		0.0	0.0						
	- -			3		0.0	0.0						
8.0-9.1 Dark reddish gray (2.5YR 3/1) organic SILT, CLAY (OL)	- 6 -	2	1.4	3	1322	0.0	0.0	1322	N/A	N/A			Heavy naphthalene odors; dye test from 6.5
	- -			3		0.0	0.0						7.0 positive; brown oil material (OM) from 6.0-
	- 7 -			2		0.0	0.0						7.0
	- -			3									
9.1-10.0 Yellowish brown (10YR5/4) SILT (ML), trace clay	- 8 -	3	1.5	2	1333	0.0	0.0	1333	N/A	N/A			
	- -												
	- 9 -			1		0.0	0.0						
	- -			1		0.0	0.0						
	- 10 -			3									

LOG OF SOIL BORING SB-47
AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88

PROJECT LOCATION				GROUND ELEVATION (FT. MSL)		PROJECT NUMBER					
Halladay Street , Jersey City, NJ				11.13		020667601					
DRILLING CONTRACTOR		FOREMAN		DATE STARTED		DATE COMPLETED					
Advanced Drilling, Inc.		Roger Logel		11/29/06		11/29/06					
DRILLING EQUIPMENT				COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)					
GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers				36		not encountered					
TYPE BIT		Hollow-stem auger		SIZE AND TYPE CORE BARREL		NO. SAMPLES	DIST. 16	UNDIST.	N/A	CORE	N/A
CASING		N/A		N/A		WATER DEPTH	FIRST	COMPL.	N/A	24HR	N/A
CASING HAMMER		WEIGHT N/A		DROP N/A		BORING LOCATION: West side of Forrest Street, 273 ft NW from the western corner					
SAMPLER 2" diameter, 2' long split-spoon						of the Halladay Street / Forrest Street intersection.					
SAMPLER HAMMER		WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin					

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
10.0-11.5 Light brownish gray (10YR 6/2) SANDY SILT (ML)		- 10 -		4	1.7	1	1350	0.0	0.0	1350	N/A	N/A	No odors this spoon
		- -											
11.5-13.1 Yellowish red (5YR4/6) fine SANDY SILT (ML), trace clay		- 11 -				1		0.0	0.0				
		- -											
		- 12 -		5	2.0	1	1402	0.0	0.0	1402	N/A	N/A	No odors ths spoon
		- -											
13.1-14.1 Light brownish gray (10YR 6/2) well compacted SILT (OL), trace clay		- 13 -				1		0.0	0.0				Sample SB-47(13.5-14.0) collected at 1405 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
		- -				3		0.0	0.0				
14.1-14.7 Reddish brown (2.5YR 5/4) fine SAND (SP), trace silt		- 14 -		6	1.5	1	1410	0.0	0.0	1410	N/A	N/A	No odors this spoon
		- -				2		0.0	0.0				
14.7-16.2 Reddish brown (2.5YR 5/3) fine SILTY SAND (SM) and clay		- 15 -				2		0.0	0.0				
		- -				2		0.0	0.0				
		- 16 -				2							
		- -											
16.2-18.0 Reddish brown (2.5YR 5/3) fine to coarse SAND (SW), trace silt, silty clay, 50% gravel rounded to subrounded, up to 1"		- 17 -		7	1.9	2	1415	0.0	0.0	1415	N/A	N/A	No odors this spoon
		- -				2		0.0	0.0				
		- 18 -				2		0.0	0.0				
		- -				3		0.0	0.0				
18.0-20.0 Reddish brown (2.5YR 4/4) fine to medium SAND (SW), little coarse sand, trace silt, <5% fine gravel		- 19 -		8	1.3	3	1417	0.0	0.0	1417	N/A	N/A	No odors this spoon
		- -				5		0.0	0.0				
		- 20 -				7		0.0	0.0				
		- -				8							

LOG OF SOIL BORING SB-47
AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88











PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER																
Halladay Street , Jersey City, NJ			11.13		020667601																
DRILLING CONTRACTOR		FOREMAN		DATE STARTED		DATE COMPLETED															
Advanced Drilling, Inc.		Roger Logel		11/29/06		11/29/06															
DRILLING EQUIPMENT				COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)															
GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers				36		not encountered															
TYPE BIT		Hollow-stem auger		SIZE AND TYPE CORE BARREL		NO. SAMPLES		DIST.		16		UNDIST.		N/A		CORE		N/A			
CASING		N/A		N/A		WATER DEPTH		FIRST		COMPL.		N/A		24HR		N/A					
CASING HAMMER		WEIGHT		N/A		DROP		N/A		BORING LOCATION: West side of Forrest Street, 273 ft NW from the western corner of the Halladay Street / Forrest Street intersection.											
SAMPLER						2" diameter, 2' long split-spoon															
SAMPLER HAMMER		WEIGHT		140 lbs.		DROP		30"		INSPECTOR										Eric Gaulin	

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
20.0-22.7 TILL: Reddish brown (2.5YR4/4) consisting of 75% gravel, large cobble pieces, trace silt, some fine sand; gravel consists of black siltstone, green and white sandstone (GW)		- 20 -		9	1.0	7	1425	0.0	0.0	1425	N/A	N/A	No odors this spoon
		- -				9		0.0	0.0				
		- 21 -				12							
		- -				15							
22.7-24.1 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)		- 22 -		10	1.2	13	1433	0.0	0.0	1433	N/A	N/A	No odors this spoon
		- -				15		0.0	0.0				
		- 23 -				17		0.0	0.0				
		- -				18							
24.1-24.3 Fragments of a white sandstone cobbles		- 24 -		11	1.2	12	1436	0.0	0.0	1436	N/A	N/A	No odors this spoon
		- -				13		0.0	0.0				
	24.3-30.0 Reddish brown (2.5YR4/4) fine SANDY SILT (ML), trace clay	- 25 -				13		0.0	0.0				
		- -				15							
		- 26 -		12	1.8	11	1444	0.0	0.0	1444	N/A	N/A	No odors; green water observed in this spoon
		- -				12		0.0	0.0				
		- 27 -				12		0.0	0.0				Sample SB-47(26.0-26.5) for TCL VOC, TCL VOC, TAL Metals, Total and Amenable CN
		- -				13		0.0	0.0				
28.9-29.1 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)		- 28 -		13	1.3	10	1450	0.0	0.0	1450	N/A	N/A	Faint naphthalene-like odors noted throughout this spoon
		- -				10		0.0	0.0				
	- 29 -				11		0.0	0.0					
	- -				12								
		- 30 -											

LOG OF SOIL BORING SB-47

AECOM Note: Ground Surface Elevation = 9.90 ft NAVD88

PROJECT LOCATION			GROUND ELEVATION (FT. MSL)		PROJECT NUMBER																
Halladay Street , Jersey City, NJ			11.13		020667601																
DRILLING CONTRACTOR		FOREMAN		DATE STARTED		DATE COMPLETED															
Advanced Drilling, Inc.		Roger Logel		11/29/06		11/29/06															
DRILLING EQUIPMENT				COMPLETION DEPTH (FT BGS)		ROCK DEPTH (FT)															
GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers				36		not encountered															
TYPE BIT		Hollow-stem auger		SIZE AND TYPE CORE BARREL		NO. SAMPLES		DIST.		16		UNDIST.		N/A		CORE		N/A			
CASING		N/A		N/A		WATER DEPTH		FIRST		COMPL.		N/A		24HR		N/A					
CASING HAMMER		WEIGHT		N/A		DROP		N/A		BORING LOCATION: West side of Forrest Street, 273 ft NW from the western corner of the Halladay Street / Forrest Street intersection.											
SAMPLER						2" diameter, 2' long split-spoon															
SAMPLER HAMMER		WEIGHT		140 lbs.		DROP		30"		INSPECTOR										Eric Gaulin	

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
30.0-30.2 Reddish brown (2.5YR4/4) fine to medium SAND (SW)		- 30 -										No odors; green ground water noted in this spoon	
30.2-30.3 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)			14	1.4	10	1510	0.0	0.0	1510	N/A	N/A		
30.3-30.7 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)			- 31 -										
30.7-32.6 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)			- -										
		- 32 -										No odors this spoon	
			15	1.8	10	1513	0.0	0.0	1513	N/A	N/A		
			- -										
32.6-33.0 Reddish brown (2.5YR4/4) SILT (ML) and SILTY CLAY (CL)		- 33 -										Sample SB-47(34.5-35.0) collected at 1517 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN	
33.0-35.1 Reddish brown (5YR5/4) fine SANDY SILT (ML)		- -										No odors this spoon	
			- 34 -										
		- 35 -										No odors this spoon	
END OF BORING AT 36'		- 36 -											
		- 37 -											
		- 38 -											
		- 39 -											
		- 40 -											

Note that PPG Cr+6 samples collected as part of this boring are not included in this boring log.

PSEG SC Former Halladay Street Gas Works Interim Data Submittal No.4						SCHOOR DEPALMA Page 1 of 4							
LOG OF SOIL BORING SB-48													
AECOM Note: Ground Surface Elevation = 10.90 ft NAVD88													
PROJECT LOCATION Halladay Street , Jersey City, NJ					GROUND ELEVATION (FT. MSL) 12.13		PROJECT NUMBER 020667601						
DRILLING CONTRACTOR Advanced Drilling, Inc.			FOREMAN Roger Logel		DATE STARTED 11/28/06		DATE COMPLETED 11/29/06						
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers					COMPLETION DEPTH (FT BGS) 40		ROCK DEPTH (FT) not encountered						
TYPE BIT Hollow-stem auger			SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 18		DIST. 18		UNDIST. N/A		CORE N/A		
CASING N/A			N/A		WATER DEPTH FIRST 4		COMPL. N/A		24HR N/A				
CASING HAMMER			WEIGHT N/A		DROP N/A		BORING LOCATION: West side of Forrest Street, 158 ft NW from the western corner of the Halladay Street / Forrest Street intersection.						
SAMPLER 2" diameter, 2' long split-spoon													
SAMPLER HAMMER			WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin						
DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
Cleared via hand digging to 4'; boring through asphalt; Fill consisted of reddish brown sand, gravel	- 0 -												
	- -												
	- 1 -												
	- -												
	- 2 -												
	- -												
	- 3 -												
	- -												
	- 4 -												
	- -												
4.0-4.8 Dark grayish brown (10YR4/2) fine SAND (SP), trace silt		1	0.9	2	1342	0.0	0.0	1342	N/A	N/A			
4.8-6.8 Yellowish brown (10YR5/4) fine SANDY SILT (ML), trace clay	- 5 -			1		0.0	0.0						
	- -												
	- 6 -			2		0.0	0.0						
6.8-8.8 Yellowish red (5YR4/6) fine SILTY SAND (SM), with some bands of greenish gray (GLE Y1 6/1 10Y)	- -			2		0.0	0.0						
	- 7 -			1		0.0	0.0						
	- -			1		0.0	0.0						
	- 8 -			2									
8.8-12.5 Yellowish red (5YR4/6) fine to medium SAND (SW), trace silt	- -			3	2.0	2	1355	0.0	0.0	1355	N/A	N/A	Faint burnt odors noted on groundwater
	- 9 -												
	- -			2		0.0	0.0						
	- 10 -			1		0.0	0.0						
				2		0.0	0.0						

LOG OF SOIL BORING SB-48
AECOM Note: Ground Surface Elevation = 10.90 ft NAVD88

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 12.13		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/29/06	
DATE STARTED 11/28/06		COMPLETION DEPTH (FT BGS) 40		ROCK DEPTH (FT) not encountered	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A	
NO. SAMPLES 18		DIST. 18		UNDIST. N/A	
CASING N/A		WATER DEPTH FIRST 4		COMPL. N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		BORING LOCATION: West side of Forrest Street, 158 ft NW from the western corner of the Halladay Street / Forrest Street intersection.	
SAMPLER 2" diameter, 2' long split-spoon		INSPECTOR Eric Gaulin			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
				Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
8.8-12.5 Yellowish red (5YR4/6) fine to medium SAND (SW), trace silt		- 10 -		4	1.5	2	1400	0.0	0.0	1400	N/A	N/A	Sample SB-48(10.0-10.5) collected at 1405 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN Strong, burnt odors this spoon
		- -				2		0.0	0.0				
		- 11 -				2		0.0	0.0				
		- -				2							
12.5-14.4 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)		- 12 -		5	1.3	2	1410	0.0	0.0	1410	N/A	N/A	Strong, burnt odors this spoon
		- -				2		0.0	0.0				
		- 13 -				2		0.0	0.0				
		- -				2							
14.4-16.0 GRAVEL, consisting of fine grained black angular rock fragments (1/4"), with streaks of grayish green throughout (GW)		- 14 -		6	0.7	2	1415	0.0	0.0	1415	N/A	N/A	
		- -				2		0.0	0.0				
		- 15 -				3							
		- -				5							
16.0-16.3 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)		- 16 -		7	1.1	5	1415	0.0	0.0	1415	N/A	N/A	Faint unidentifiable odors
16.3-16.8 Reddish brown (2.5YR4/4) fine SANDY SILT (ML), with some black silt and 2" fragments of white fine grained sand stone, exhibiting some black weathering		- -				5		0.0	0.0				
16.8-18.0 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)		- 17 -				7							
		- -				7							
18.0-21.6 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)		- 18 -		8	1.4	4	1422	0.0	0.0	1422	N/A	N/A	
		- -				3		0.0	0.0				
		- 19 -				2		0.0	0.0				
		- -				3							
		- 20 -											

LOG OF SOIL BORING SB-48
AECOM Note: Ground Surface Elevation = 10.90 ft NAVD88


PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 12.13		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE STARTED 11/28/06	
DATE COMPLETED 11/29/06		COMPLETION DEPTH (FT BGS) 40		ROCK DEPTH (FT) not encountered	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A	
NO. SAMPLES 18		DIST. 4		UNDIST. N/A	
CORKING N/A		WATER DEPTH FIRST 4		COMPL. N/A	
CORKING HAMMER N/A		WEIGHT N/A		DROP N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: West side of Forrest Street, 158 ft NW from the western corner of the Halladay Street / Forrest Street intersection.		INSPECTOR Eric Gaulin	
SAMPLER HAMMER N/A		WEIGHT 140 lbs.		DROP 30"	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
18.0-21.6 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)	- 20 -		9	2.0	3	1436	0.0	0.0	1436	N/A	N/A	Drilling ended here 11-28-06
	- -				3		0.0	0.0				
	- 21 -				2		0.0	0.0				
21.6-22.0 Reddish brown (2.5YR4/4) fine SANDY SILT (ML)	- -				2		0.0	0.0				Drilling resumed here 11-29-06
22.0-27.2 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)	- 22 -		10	0.9	3	0904	0.0	0.0	0904	N/A	N/A	
	- -				5		0.0	0.0				
	- 23 -				5							No odors this spoon
	- -				6							
	- 24 -		11	1.0	5	0915	0.0	0.0	0915	N/A	N/A	
	- -				5		0.0	0.0				No odors this spoon
	- 25 -				7							
	- -				10							
	- 26 -		12	1.6	6	0916	0.0	0.0	0916	N/A	N/A	No odors this spoon
	- -				6		0.0	0.0				
27.2-27.3 Reddish brown (5YR5/4) SILTY CLAY (CL)	- 27 -				7		0.0	0.0				
	- -				7		0.0	0.0				Sample SB-48(26.5-27.0) for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
27.3-28.5 Reddish brown (5YR5/4) fine SILTY SAND (SM)	- 28 -				7		0.0	0.0				
	- -		13	1.3	5	0930	0.0	0.0	0930	N/A	N/A	
28.5-28.6 Reddish brown (5YR5/4) SILTY CLAY (CL)	- -				6		0.0	0.0				No odors this spoon
	- 29 -				6		0.0	0.0				
28.6-30.3 Reddish brown (5YR5/4) fine SANDY SILT (ML)	- -				7		0.0	0.0				
	- 30 -											

LOG OF SOIL BORING SB-48

AECOM Note: Ground Surface Elevation = 10.90 ft NAVD88

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 12.13		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE STARTED 11/28/06	
DATE COMPLETED 11/29/06		COMPLETION DEPTH (FT BGS) 40		ROCK DEPTH (FT) not encountered	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A	
NO. SAMPLES 18		DIST. 18		UNDIST. N/A	
CORE N/A		WATER DEPTH FIRST 4		COMPL. N/A	
24HR N/A		CASING HAMMER N/A		WEIGHT N/A	
DROP N/A		BORING LOCATION: West side of Forrest Street, 158 ft NW from the western corner of the Halladay Street / Forrest Street intersection.		SAMPLER 2" diameter, 2' long split-spoon	
SAMPLER HAMMER N/A		WEIGHT 140 lbs.		DROP 30"	
INSPECTOR Eric Gaulin					

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS	
				Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date		
28.6-30.3 Reddish brown (5YR5/4) fine SANDY SILT (ML)		- 30 -												
		14	1.2	6	0931	0.0	0.0	0931	N/A	N/A	No odors this spoon			
30.3-36.6 Reddish brown (5YR5/4) fine SILTY SAND (SM)		- -			7		0.0	0.0						
		- 31 -			6		0.0	0.0						
		- -			6									
		- 32 -												
		- -			15	1.3	6	0940	0.0	0.0	0940	N/A	N/A	No odors this spoon
		- -			6		0.0	0.0						
		- 33 -			5		0.0	0.0						
		- -			6									
		- 34 -			16	2.0	6	0955	0.0	0.0	0955	N/A	N/A	Sample SB-48(34.0-34.5.0) collected at 1001 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
		- -			7		0.0	0.0						
	- 35 -			7		0.0	0.0							
	- -			7		0.0	0.0					No odors this spoon		
36.6-38.0 Reddish brown (5YR5/4) fine SANDY SILT (ML)		- 36 -		17	2.0	6	1000	0.0	0.0	1000	N/A	N/A	No odors this spoon	
		- -				8		0.0	0.0					
38.0-38.8 Reddish brown (5YR5/4) fine SANDY SILT (ML), with some weak grey silty clay lenses, less than 1/4" thick		- 37 -				9		0.0	0.0					
		- -				10		0.0	0.0					
		- 38 -												
38.8-38.9 Reddish brown (5YR5/4) SILTY CLAY (CL)		- -		18	1.5	6	1012	0.0	0.0	1012	N/A	N/A	No odors this spoon	
		- -				7		0.0	0.0				Sample SB-48(39.0-39.5) collected at 1015 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN	
38.9-39.5 Reddish brown (5YR5/4) fine SANDY SILT (ML), trace clay		- 39 -				7		0.0	0.0					
		- -				8								
END OF BORING AT 40'		- 40 -												