Appendix G

Boring Logs

Boring logs for the remaining sample locations in Al Smith Moving 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.

ENICD	AECOM	Client: PPG Industries		BORIN			
ENSR	AECUM	Site: Site 133		133	B-B16		
Start Da	te:	Project: Site Investigation		Page: 1 of 3			
1/24/200)7	Coordinates: X-610876.7 Y-682229	.3	Depth of Borir	ng: 28.00		
End Date	e:	Elevation: 11.53		Geologist: P	. Kelly		
1/24/200		Drill Subcontractor: Terra Probe Incorporat	ed	Driller: Heath	Kneller		
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Parameters		
0_		L: Brown (10YR 4/3) SILT/CLAY, some organics d little brick fragments, no odor		133-B16A (0.0-0.5)	Cr+6, TAL Metals		
_	× × × ×	L: Black (5Y 2.5/1) coarse SAND, some fine Gravel,					
2—		e gravel sized COPR (30%), little Clay, strong MGP	201 ppm				
	× × × × × ×		576 ppm	133-B16B(2.5-2.9) 133-B16BD(2.5-2.9)	Cr+6, TAL Metals Cr+6, TAL Metals		
-	× × × × × ×						
4—	× × × × × ×		265 ppm				
_	× × × × × × ×		301 ppm				
6-	^		192 ppm	133-B16C (5.6-6.0)	Cr+6, TAL Metals		
	X X X	t: No Recovery	-				
	INC	No recovery					
8+		L: Black (5Y 2.5/1) coarse SAND, some fine Gravel, e gravel sized COPR (30%), little Clay, strong MGP or	-				
	× × × × × ×		107 ppm				

ENSR AECON	Client: PPG Industries			NG ID:	
ENSR AECON	Site: Site 133		13	3-B16	
Start Date:	Project: Site Investigation		Page: 2 of 3		
1/24/2007	Coordinates: X-610876.7 Y-682229	9.3	-		
End Date:	Elevation: 11.53		Geologist:	P. Kelly	
1/24/2007	Drill Subcontractor: Terra Probe Incorpora		Driller: Heat	h Kneller	
Debty (41) Tithology	Description	PID (bbw)	Sample ID	Sample Parameters	
10 -					
	LL: Brown (10YR 4/3) dense fine SAND, some Clay	921 ppm			
12 - × × ar	nd Silt, little fine Gravel, no odor		133-B16D (11.5-12.0)	Cr+6, TAL Metals	
× × FI × × lit	LL: Dark Gray (7.5YR 3/1) ASH, some fine Gravel, the brick and ceramic fragments, trace glass agments, no odor				
14 — X X X X X X X X X X X X X X X X X X		0.0 ppm	133-B16E (13.2-13.7)	Cr+6, TAL Metals	
P	EAT: Meadow Mat, Dark Brown (7.5YR 3/3) LAY/Organics, no odor		133-B16F	Cr+6, TAL Metals	
			(14.6-15.0)	OTTO, THE WORLD	
N	R: No Recovery	12.5 ppm			
	EAT: Meadow Mat, Dark Brown (7.5YR 3/3) LAY/Organics, no odor	484 ppm			
				_	
		629 ppm	133-B16G (17.0-17.3)	Cr+6, TAL Metals	
18 —		191 ppm			
			133-B16H	Cr+6, TAL Metals	

ENCD AFCOM	Client: PPG Industries			NG ID:
ENSR AECOM	Site: Site 133		13	3-B16
Start Date:	Project: Site Investigation		Page: 3 of 3	
1/24/2007	Coordinates: X-610876.7 Y-682229	.3	Depth of Bor	ing: 28.00
End Date:	Elevation: 11.53		Geologist: F	P. Kelly
1/24/2007	Drill Subcontractor: Terra Probe Incorporat		Driller: Heatl	h Kneller
Depth (tt) Lithology	Description	PID (bbw)	Sample ID	Sample Sample
			(18.9-19.2)	
		439 ppm		
20 + NR	:: No Recovery			
	AY: Dark Gray (5Y 4/1) CLAY, little roots, medium f, no odor			
		282 ppm		
			133-B16I (21.5-22.0)	Cr+6, TAL Metals
22+		214 ppm		
		229 ppm		
	AY AND SAND: Dark Gray (5Y 4/1) fine SAND and AY, trace organics, no odor			
	: No Recovery			
	AY AND SAND: Dark Gray (5Y 4/1) fine SAND and AY, trace organics, no odor			
5/1)	AY: Dark Reddish Brown (5YR 3/4) to Gray (5YR) CLAY, some Silt, little fine Sand, trace organics, odor			
	: No Recovery			
1 28 \(\tau \) NU	LL: End of Boring			1



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-B16-SA

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610864.5

 Date Started Drilling:
 7/15/2014 8:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682220.3

 Date Finished Drilling:
 7/15/2014 10:10:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 11 ft

 Logged By:
 RK
 Project Manager:
 Scott Mikaelian
 Depth to Water:

ogged by. KN				JF1	roject wariager. Scott wirkaeilan	Deptil to water.	
hysical Location	on: Sm	ith Alley				Alaka	. hara - halam manual amfara)
						(Note	bgs = below ground surface)
Depth Range (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickne	ess:	Sample ID
-1	469.0	moist	FILL		fine to medium SAND, some silt, little ash, gravel, trace concrete, (7.5YR 4/3) brown, slight solvent odor.		133-B16-SA-0.5-1.0
-3	1429.0	wet	FILL		ASH, and cinders, trace coal, trace slag, trace 4/1) dark gray, loose, wet, slight solvent od	ace glass, (7.5YR lor, no staining.	133-B16-SA-2.5-3.0
-5	1226.0	wet	FILL		ASH, and cinders, little slag, trace coal, tra 3/1) very dark gray, loose, wet, strong petro sheen.	ice glass, (7.5YR oleum odor,	133-B16-SA-4.5-5.0
7—	246.0	wet	FILL		ASH, some brick, little glass, little ceramics yellowish brown, loose, wet, moderate petrophose.	s, (10YR 3/4) dark oleum odor,	133-B16-SA-6.5-7.0
	0.0	moist	FILL		sheen.SILT, and fine to medium sand, trace fill, (10BG 6/1)	
0	0.0	moist	FILL		greenish gray, dense, moist, no odor, no st	taining.	
9—	0.0	moist	FILL		SILT, and fine to medium sand, trace fill, ('greenish gray, dense, moist, no odor, no st fine SAND, and silt, little medium to coarse coal, trace ash, (5YR 4/4) reddish brown, r moist, no odor, no staining.	taining. e gravel, trace	133-B16-SA-8.5-9.0
11	0.0	moist	FILL		sandy SILT, trace ash, (7.5YR 4/1) dark gr medium dense, moist, no odor, no staining		133-B16-SA-10.5-11.0

PPG - PPG_LOGS.GDT - 7/29/14 15:44

Comments: 1) 3 attempts were made to obtain best recovery 2) No COPR or GGM present in any interval of this boring.

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 11.55

State Plane X: 682151.3

Coordinates

Drilling Method: HSA/Mud Rotary

Y: 610792.2



133-MW2C

Page: 1 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
-0 -1 -1 -2 -3 -4 -5 -6 -7 -8 -9		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casing 133-2CA (0.5-1.0) Cr+6, TAL Metals 133-2CAD (0.5-1.0) Cr+6, TAL Metals 133-2CB (3.8-4.2) MS/MSD, Cr+6, TAL Metals 135-2CE (5.0-5.5) Cr+6, TAL Metals	N/A N/A N/A 0.0 0.0	2 2 3 2 9 7 4 3	* * * * * * * * * * * * * * * * * * *	Black (5YR 2.5/1) fine GRAVEL, some medium to coarse Gravel, little Sand and Silt, 10% COPR, rootlets, dry, loose. Weak Red (2.5YR 4/2) fine GRAVEL and ASH, some coarse to fine gravel-sized Slag peices, 8% COPR, little ceramic peices. Wet at 4.5 ft bgs. Very Dark Gray (Gley 3N/0) ASH, some Silt, little very fine to coarse Sand and crushed Fill Material (coal, glass, ceramics), wet, very loose, wet. No odor. No Recovery Yellowish Brown (10YR 5/4) SILT, little very fine Sand, moist, loose. No odor. Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor. No Recovery

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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 11.55

State Plane X: 682151.3

Coordinates X:

Drilling Method: HSA/Mud Rotary

Y: 610792.2



133-MW2C

Page: 2 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
- 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18		135-2CG (9.0-9.7) Cr+6, TAL Metals 135-2CGD (9.0-9.7) Cr+6, TAL Metals 135-2CH (13.0-14.0) MS/MSD, Cr+6, TAL Metals	0.0 0.0 172.0 253.0 167.0	1 1 1 1 1	* * * * * * * * * * * * * * * * * * *	Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor. No Recovery Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor. No Recovery Dark Brown (7.5YR 3/2) PEAT, organics, moist, cohesive, very soft. Sulfur odor.

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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 11.55

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 3 of 11

	overy
- 22 - 23 - 23 - 23 - 23 - 24 - 24 - 25 - 26 - 26 - 26 - 27 - 28 - 28 - 28 - 28 - 28 - 28 - 28 - 28 - 28 - 29 - 20	PEAT and some medium to ad Silt, wet, cohesive, very soft. Y 4/1) PEAT, organics, moist, soft. Sulfur odor. Gray (5G 4/1) very fine SAND, very loose. Sulfur odor.

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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

11.55 **Elevation**

State Plane

X: 682151.3 **Coordinates**

Y: 610792.2

Drilling Method: HSA/Mud Rotary



Page: 4 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
- 28 29 30	Diagram	-	0.2	5 6 6 5 7 5		Dark Reddish Gray (5YR 4/2) SILT, some Clay, little medium Sand, cohesive, medium, moist. No odor. Weak Red (2.5YR 5/2) 5/2) very fine SAND, little Silt and Clay, trace medium Gravel, moist, loose. No odor. No Recovery Weak Red (2.5YR 5/2) 5/2) very fine SAND, little Silt and Clay, trace medium Gravel, moist, loose. No odor.
- 31		135-2CO (31.6-32.4) Cr+6, TAL Metals	0.0	6 5 4		Weak Red (10R 4/4) very fine SAND, little to trace Silt, moist, loose. No odor. No Recovery Weak Red (10R 4/4) very fine SAND, some Silt, loose, moist. No odor.
- 32 - - 33			0.0	4 5 5 5		
- 34 35 36			0.0	4 4 1 2		Weak Red (10R 4/4) SILT, little to none very fine Sand, wet, very loose. No odor. Weak Red (10R 4/4) SILT, little very fine Sand, wet, very loose. No odor. No Recovery

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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

11.55 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 5 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
11 1	77 77		ĺ	ا م	1	
				2		
37						
			0.0	2	<u> </u>	Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, very loose. No odor.
				2		This Garla, Wal, Very 18888. No each
38				2		No Recovery
				3		
39			0.0			
			0.0	3	<u> </u>	Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, very loose. No odor.
				3	<u> </u>	
40			0.0	4	<u> </u>	No Recovery
				6		No Necovery
41			0.0	10	••••••	
			0.0			Weak Red (10R 4/4) very fine SAND, some to little Silt, wet, loose. No odor.
				7		
42			0.0	6		
				7		No Recovery
43			0.0	3	• • • • •	Week Ded (40D 4/0) fine to read the CAND Hill
						Weak Red (10R 4/2) fine to medium SAND, little to trace Silt, wet, very loose. No odor.
				4		
44			0.0	4		
				6		No Recovery
45			0.0	4		

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

Site: Site 133

Driller N. Moyer

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

11.55 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 6 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
				3		Weak Red (10R 4/4) SILT and very fine SAND, very loose, wet. No odor.
— 46			0.0	5		
_				4		No Recovery
- 47			0.0	2		Weak Red (10R 4/4) SILT, some very fine Sand, very loose, wet. No odor.
- 48				3	· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,
			0.0	5		No Recovery
— 49			N/A	5 3		
_			IN/A	4		
- 50				5		
_				5		
— 51			0.0	5	· · · · · · · · · · · · · · · · · · ·	Weak Red (10R 4/4) SILT, wet, loose. No odor.
				5	<u></u>	
52			0.0	6		
53				6		No Recovery
			0.0	3		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
- 54				4	· · · · · · · ·	

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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 11.55

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 7 of 11

	1 11. Moyer	Drining .			1157 1/1144	Rotary 1 age. 7 of 11
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
			i	i		
				5		No Recovery
— 55						
			0.0	3		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
				3		oudi.
 56			0.0	3	<u> </u>	
				3		No Recovery
 57			0.0	3		Weak Red (10R 4/4) SILT, little very fine Sand,
-				5		trace Clay, wet, loose. No odor.
- 58			0.0	8	<u> </u>	
					<u>_ · _ · _ ·</u>	No Recovery
				8		•
 59			0.0	6		Weak Red (10R 4/4) SILT, little very fine Sand,
-				8	<u>· · · · · · · · · · · · · · · · · · · </u>	trace Clay, wet, loose. No odor.
- 60			0.0	10		
			0.0			
				9		No Recovery
 61			0.0	8		Weak Red (10R 4/4) SILT, loose, moist. No
				9	<u> </u>	odor.
 62			0.0	9		
			0.0			No Recovery
				9		
- 63			0.0	4		

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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

11.55 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

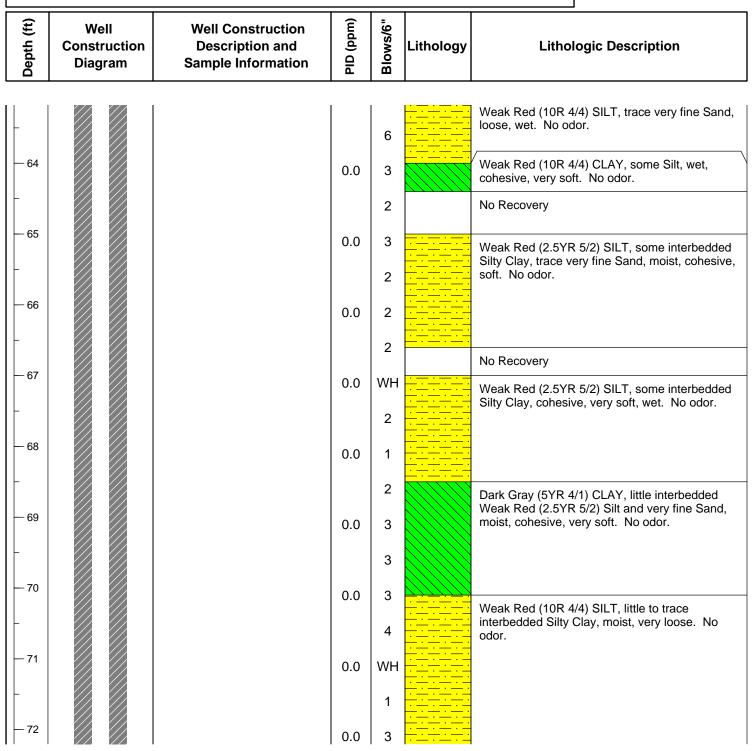
Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 8 of 11



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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

11.55 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

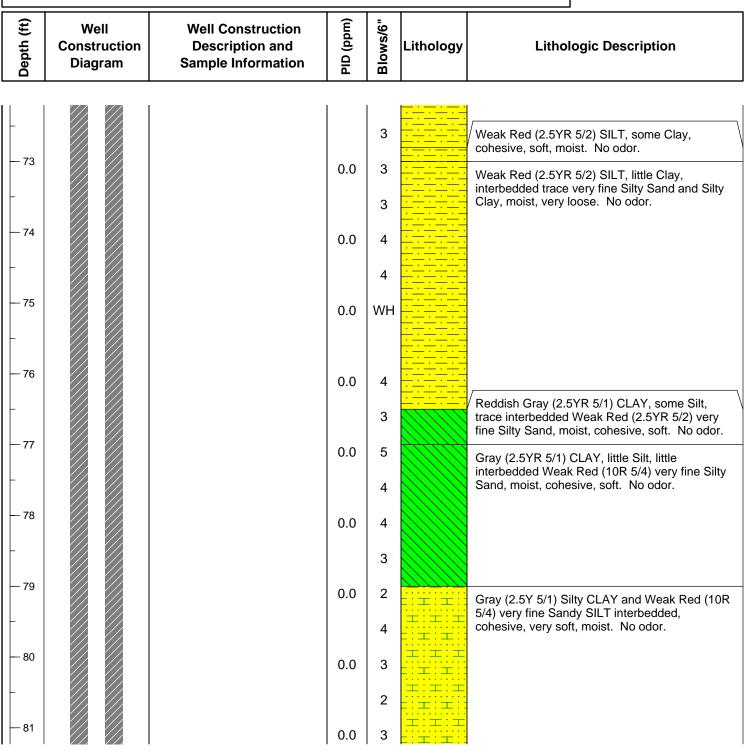
Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 9 of 11



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

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger **Drilling Company:** Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

11.55 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 10 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
			-	•		
				4		
82			0.0	3		
-				4		
83			0.0	4		No Recovery
				4		
84				3		
				3		
— 85			0.0	6		
			0.0			Reddish Brown (2.5YR 5/3) SILT, trace Clay, loose, moist. No odor.
				4	<u> </u>	
86				4		No Recovery
				5		
87			0.0	2		Gray (2.5Y 5/1) Silty CLAY and Reddish Brown
				2		(2.5Y 5/1) very fine Sandy SILT interbedded, cohesive, very soft, moist. No odor.
— 88			0.0	2		
			0.0			
				4	□: 	
			0.0	6		Reddish Brown (2.5YR 5/3) SILT, trace very fine Sand and Clay, interbedded with little Gray
				3		(2.5Y 5/1) Silty Clay, moist, loose. No odor.
90			0.0	4		

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 11.55

State Plane X: 682151.3 **Y:** 610792.2

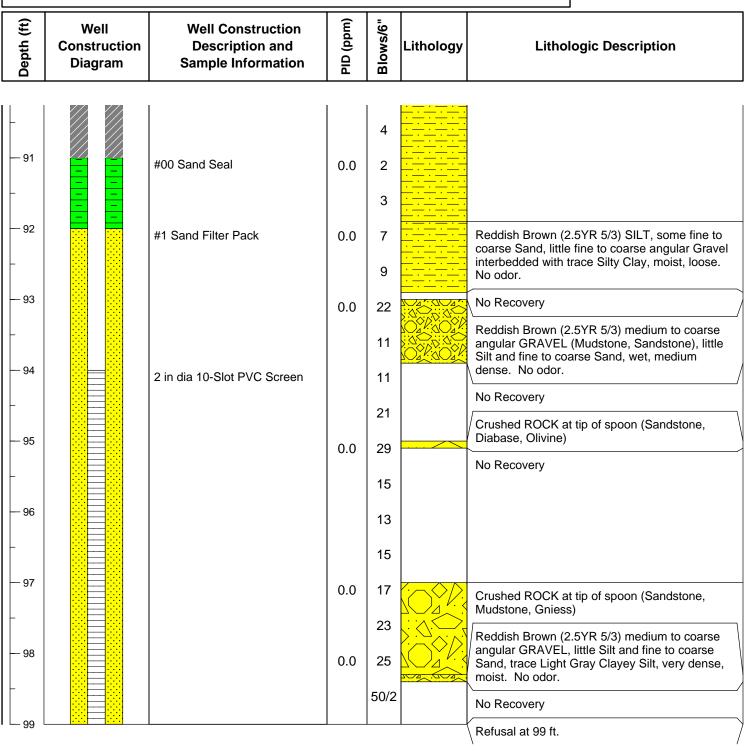
Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 11 of 11



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

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/3/2014 8:30:00 AM

Boring ID: 133-P3C-S48A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610745.081 Rig Type: Coordinates (NJSPNAD83) y: 682118.822

Date Finished Drilling: 4/3/2014 9:30:00 AM Core Size: 2 in Boring Total Depth: 20 ft Project Manager: Chris Martell Depth to Water: NA

Logged By: MI

Depth							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	DA A DA	CONCRETE	
-1 - -2	5	0.0	dry to slight moist	FILL		fine to medium SAND, some cinders, ash, little coal, trace crushed concrete, (7.5YR 2.5/2) very dark brown, loose, dry to slightly moist, no odor, no staining.	133-P3C-S48A-0.5-1.0
-3 -4	3						133-P3C-S48A-2.5-3.0
-5— - -6—		0.0	slightly moist	FILL		fine to medium SAND, some cinders, ash, little fine gravel, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	133-P3C-S48A-4.5-5.0
-7 -8	4						133-P3C-S48A-6.5-7.0
-9-				NR		NO RECOVERY	133-P3C-S48A-8.5-9.0
40							
-10 - -11 - -12		0.0	moist	FILL		ASH, some cinders, little fine gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	133-P3C-S48A-10.5-11
_	4	0.0	moist	FILL		ASH, with cinders, little fine gravel, silt, wood fragments,	133-P3C-S48A-12.2-12
-13 - -14		0.0	moist	OL		fibers, loose, moist, no odor, no staining. UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/3) dark brown, non plastic, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-S48A-12.7-13.
-				NR		NO RECOVERY	
-15 - -16		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	_
-17 -18	5						
-19 19							
20							
						ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inte	

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T46A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North Americ

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x: 610806.131

 Rig Type:
 Coordinates (NJSPNAD83) y: 682151.882

 Date Started Drilling:
 4/16/2014 8:55:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 6821

 Date Finished Drilling:
 4/16/2014 9:55:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

Logged By: ES Project Manager: Chris Martell Depth to Water:

Depth Range	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness:	Sample
ft bgs)	(ft/ft)	(ppm)		0363	Log	Surface Cover and Thickness:	ID
		0.0		CONCRETE	P A A P	CONCRETE	
—1—		0.0	dry	FILL		fine to medium SAND, some fibers, little crushed concrete, (10YR 5/2) grayish brown, medium dense, dry, no odor, no	133-P3C-T46A-1.0-1.5
	5	0.0	dry	FILL		staining. fine to medium SAND, with cinders, some coal, fine gravel, little ash, trace glass, medium dense, dry, no odor, no staining.	
-3 4							133-P3C-T46A-3.0-3.5
 5 6		0.0	moist	FILL		fine to medium silty SAND, some fine to coarse gravel, little wood debris, trace cinders, ash, (10YR 3/1) very dark gray, dense, moist, no odor, no staining.	133-P3C-T46A-5.0-5.5
 -7		0.0		=""		· · · · · · · · · · · · · · · · · · ·	133-P3C-T46A-7.0-7.5
 8	5	0.0	dry	FILL		fine to medium silty SAND, trace fill material, (7.5YR 6/4) light brown, dense, dry, no odor, no staining.	133-P3C-140A-7.U-7.5
-9 							133-P3C-T46A-9.0-9.5
10 11		0.0	saturated to wet	FILL		fine to medium silty SAND, with ash, some fine to medium gravel, little cinders, trace wood debris, ceramics, (10YR 5/1) gray, loose to medium dense, saturated to wet, no odor,	
12 	5					no staining.	133-P3C-T46A-11.0-11.
13 		0.0	dry	FILL		fine silty SAND, some ash, little fibers, (10R 4/2) weak red, dense, dry, no odor, no staining.	133-P3C-T46A-13.0-13.
14 							133-P3C-T46A-14.3-14.
15 		0.0	dry	PT	<u> </u>	→ PEAT (degraded vegetated material), 80% organic fibers, →	133-P3C-T46A-14.8-15.
16		0.0	dry	PT	<u> </u>	20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry,	
17 18	5				1/ 7// 7/ 1/ 7// 7/	strong organic odor, no staining. Soils consistent with MM.	
 19		0.0	moist	OL	<u> </u>	UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
20					<u> </u>	3, 3	
						JND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter-	

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/15/2014 9:55:00 AM

Project Name: PPG Garfield Ave

Project Number: 60240739

Boring ID: 133-P3C-T47A

Page: 1

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe

 Coordinates (NJSPNAD83) x:
 610785.465

 Rig Type:
 Coordinates (NJSPNAD83) y:
 682132.106

Date Finished Drilling:4/15/2014 11:00:00 AMCore Size:2 inBoring Total Depth:15 ft

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

(ft/ft)	(nnm'		USCS		Surface Cover and Thickness:	Sample
` ′	(ppm)	Content		Log		ID
	0.0		CONCRETE	P 4 4 P	CONCRETE	
	0.0	dry	FILL		fine to medium SAND, with coarse gravel, some crushed concrete, (10YR 7/2) light gray, very dense, dry, no odor, no staining.	133-P3C-T47A-0.5-1.0
5	0.0	dry to moist	FILL		fine to medium SAND, with cinders, fine gravel, some ash, little glass, (7.5YR 2.5/1) black, dense, dry to moist, no odor, no staining.	133-P3C-T47A-2.0-2.
	0.0	moist to wet	FILL		fine to medium silty SAND, little cinders, ash, trace glass, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining.	133-P3C-T47A-4.0-4.
	0.0	saturated to wet	FILL		fine silty SAND, with fine to medium gravel, some ash, cinders, little glass, (10YR 3/1) very dark gray, loose, saturated to wet, no odor, no staining.	133-P3C-T47A-6.0-6.
5	0.0	day	EIII		fine to madium silty SAND little cob (EVD 4/2) raddish	100-1 00-1477-0.0-0.
		ury			brown, dense, dry, no odor, no staining.	
	0.0	wet to saturated	FILL		fine to medium silty SAND, and ash, some cinders, little fine gravel, (10YR 5/1) gray, loose to medium dense, wet to saturated, no odor, no staining.	133-P3C-T47A-8.0-8.
	0.0	saturated	FILL		fine silty SAND, with ash, little wood debris, cinders, (10YR 5/1) gray, very loose to medium dense, saturated, no odor, no staining.	133-P3C-T47A-10.0-10
	0.0	moist	FILL		fine silty SAND, trace fibers, (10YR 4/2) dark grayish brown,	133-P3C-T47A-11.7-12
5	0.0	dry		<u> </u>	dense, moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-T47A-12.2-12
	5 5	5 0.0 0.0 0.0 5 0.0 0.0	5 0.0 dry to moist 0.0 moist to wet 0.0 saturated to wet 5 0.0 dry 0.0 wet to saturated 0.0 saturated	5	5 0.0 dry to moist to wet 0.0 saturated to wet 10 saturated to saturated to saturated to saturated to saturated to saturated 5 0.0 saturated 10 satu	concrete, (10YR 7/2) light gray, very dense, dry, no odor, no staining. 0.0 dry to moist to medium SAND, with cinders, fine gravel, some ash, little glass, (7.5YR 2.5/1) black, dense, dry to moist, no odor, no staining. 0.0 moist to wet Saturated Saturate



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Boring ID: 133-P3C-T47AR

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610794.8 Date Started Drilling: 7/14/2014 1:00:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682147.4 Date Finished Drilling: 7/14/2014 2:00:00 PM Core Size: 3.0 in Boring Total Depth: 6.5 ft

-oaaea							Size: 3.0 in	Boring Total Depth: 6	
	By: RK	0 "				Proje	ect Manager: Chris Martell	Depth to Water: NA	
nysica	I Location	i: Smit	n Alley					(Note ha	s = below ground surface)
								(note by	s – below ground surface)
Depth	Recovery	PID	Moisture	GA		Graphic			Sample
Range	(ft/ft)	(ppm)	Content		USCS	Log	Surface Cover and Th	ickness:	ID
t bgs)	(1011)	(ppiii)	Contont	Olabb		Log			1.5
		0.0	moist	3	FILL	XXXXX	fine to medium SAND, some ash, tra	as concrete trace	
_		0.0	moist	3	LILL		gravel, trace glass, (7.5YR 4/3) brown	n loose moist no	133-P3C-SA-T47A-0.5-
- 1							odor, no staining.	1, 10030, 1110131, 110	133-P3C-3A-147A-0.5-
						$\otimes \otimes \otimes \otimes$	eder, no staining.		
•		1.7		3	FILL		WOOD, slight naphthalene odor.		
-2	5	0.0	moist	3	FILL		ASH, and cinders, some coal, (5YR 2	2.5/1) black, loose.	1
_	5						moist, no odor, no staining.	, , , , , , , , , , , , , , , , , , , ,	133-P3C-SA-T47A-2.5-
- 3		0.0	moiat	2	ГПТ			E/1) block loses	1
_			moist	3	FILL	\longrightarrow	ASH, and cinders, some coal, (5YR 2 moist, no odor, no staining.	5/1) black, loose,	-
- 4		0.0	wet	3	FILL		fine to medium SAND, and ash, trace	2 coal (7 5VP 4/3)	
							brown, medium dense, wet, no odor,	no staining	133-P3C-SA-T47A-4.0-
_		0.0	moist	3	FILL		CINDERS, little fine to medium sand,	trace class trace	
- 5		0.0	moist	3	FILL		coal, (7.5YR 2.5/1) black, loose, mois	st no odor no staining	133-P3C-SA-T47A-5.0-
_	1.5	0.0	to	3	FILL		fine SAND, little silt, (5YR 4/3) reddis	h brown. loose, moist	1
6		0.0	wet	3	FILL		\to wet, no odor, no staining.	/	133-P3C-SA-T47A-6.0-
			wet	——		XXXXX	CINDERS, little gravel, trace glass, tr	ace coal, (5YR 2.5/1)	133-F3U-3A-14/A-0.U-
]			black, loose, wet, no odor, no staining		
				l					



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U43A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610871.25Date Started Drilling:6/25/2013 7:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682225.6875Date Finished Drilling:6/25/2013 10:30:00 AMCore Size:3 inBoring Total Depth:16 ft

 Logged By:
 AB
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Physic	al Locatio	n: Site	e 133 - U4	3A	<u>'</u>	Open manager. Onno marten	
						(N:	ote bgs = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
 1 	2	0.0	dry to slightly mois	FILL		fine to medium silty SAND, some gravel, some cinders, (10YR 3/3) dark brown, non plastic, medium dense, dry to slightly moist.	133-P3C-U43A-0.5-1.0
- 3-	2	0.0	moist to wet	FILL		CINDERS, some ash, (10YR 2/1) black, non plastic, medium dense, moist to wet, moderate petroleum odor.	133-P3C-U43A-2.5-3.0
4 5 	1.7	0.0	wet	FILL		CINDERS, some ash, little brick, (10YR 3/1) very dark gray, non plastic, medium dense, wet, slight HC odor.	133-P3C-U43A-4.5-5.0 133-P3C-U43A-4.5-5.0X
 6		0.0	wet	NR	-	NO RECOVERY	_
7-	1.7	0.0	wet	FILL		CINDERS, some ash, some silty fine sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet.	133-P3C-U43A-6.5-7.0
L_8_				NR	*****	NO RECOVERY	
 9	1.7	0.0	moist	FILL		fine silty SAND, little clay, little cinders, trace glass, (5YR 5/3) reddish brown, non plastic, dense, moist.	133-P3C-U43A-8.5-9.0
10-				NR		NO RECOVERY]
11	1.5	0.0	moist	FILL		fine silty SAND, little cinders, little clay, (5YR 4/2) dark reddish gray, non plastic, dense, moist.	133-P3C-U43A-10.5-11.0
				NR		NO RECOVERY	
12 13	1.2	0.0	wet	FILL		CINDERS, some ash, little sand, little gravel, (10YR 2/1) black, non plastic, medium dense, wet.	133-P3C-U43A-12.5-13.0
<u> </u>				NR		NO RECOVERY	
14		0.0	wet	FILL		CINDERS, some ash, (10YR 3/1) very dark gray, non	133-P3C-U43A-14.0-14.5
15 16	2	1.7	moist	PT	\(\frac{1}{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(\frac\	plastic, loose, wet. PEAT (degraded vegetated material), 80% oganic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, moderate sulfur odor. Soils consistent with MM.	133-P3C-U43A-14.5-15.0

PPG - PPG_LOGS.GDT - 7/23/13 08:40

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.

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U44A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610853.448

 Date Started Drilling:
 4/15/2014 9:55:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682198.12

 Date Finished Drilling:
 4/15/2014 10:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

Donth					1		
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	D 4 4 D	CONCRETE	
-1-		0.0	dry	FILL		fine to medium SAND, little cinders, trace coal, (7.5YR 2.5/3) very dark brown, loose, dry, no odor, no staining.	133-P3C-U44A-1.0-1.5
-2-	5	0.0	dry	FILL		fine to medium SAND, some crushed concrete, little cinders, little medium to coarse gravel, (7.5YR 3/4) dark brown, dry,	
-3- -4-	Č	75.0	dry	FILL		no odor, no staining. ASH, some cinders, trace wood fragments, trace coal, (7.5YR 3/1) very dark gray, loose, dry, slight hydrocarbon odor, no staining.	133-P3C-U44A-3.0-3.5
-5-		312.0	dry	FILL		CINDERS, with fine to medium sand, little medium to coarse gravel, trace coal, (7.5YR 2.5/1) black, loose, dry, strong	133-P3C-U44A-5.0-5.
-6 -		28.0	moist to	FILL		hydrocarbon odor, sheen. CINDERS, some fine to medium sand, little coarse gravel, trace glass fragments, (7.5YR 2.5/1) black, loose, moist to	
_7	5		wet			wet, slight hydrocarbon odor, sheen	133-P3C-U44A-7.0-7.
-8 - -9		0.0	dry	FILL		fine to medium SAND, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	133-P3C-U44A-9.0-9.
		0.0	moist	FILL		fine to medium SAND, and ash, little cinders, (7.5YR 3/4)	133-F3C-U44A-9.0-9.3
		0.0	to wet	I ILL		dark brown, loose, moist to wet, no odor, no staining.	133-P3C-U44A-11.0-11
-12-	5	0.0	wet	FILL		SILT, trace fibers, (7.5YR 4/2) brown, non plastic, soft, wet,	
-13						no odor, no staining.	133-P3C-U44A-13.0-13
14 		0.0	moist to	FILL		fine to medium silty SAND, little medium to coarse gravel, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining.	
-15 		0.0	wet moist	FILL		fine silty SAND, trace fibers, trace medium to coarse gravel,	133-P3C-U44A-15.0-15
		0.0	dry	PT	77 77 7 7 77 7	(2.5YR 5/1) reddish gray, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.	133-P3C-U44A-15.5-16
-17 -18	5				1, 11, 11, 1 11, 11, 1		
-19					<u> </u>		
20					<u> </u>		

ENCD	AECOM	Client: PPG Industries		BORIN	
ENSR	AECOM	Site: Site 135		135	5-B4
Start Da	te:	Project: Site Investigation		Page: 1 of 3	
12/12/20	006	Coordinates: X-610811.3 Y-682149	.6	Depth of Bori	ng: 32.00
End Date		Elevation: 11.76			. Kelly, M. Merdinger
12/19/20		Drill Subcontractor: Eichelberger/Terra Pro		ted Driller: Heath	n Kneller
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters
0_	ASI	PHALT: ASPHALT			
-		L: Black medium SAND, some fine to coarse avel, cut wire at 1.5 feet.	0.0 ppm	135-B4A (0.7-1.2)	Cr+6, TAL Metals
2—		L: Black coarse SAND and SILT, some fine Gravel, e coarse Gravel, coal pieces.	0.0 ppm	135-B4B(2.0-2.6) 135-B4BD(2.1-2.6)	Cr+6, TAL Metals Cr+6, TAL Metals
-	× × × × × × × × × × × × × × × × × × ×	L: Gray-Brown SILT and ASH, some fine to coarse	0.0 ppm		
4-	× × Gra	avel, little ceramic pieces. L: Dark Reddish Gray (2.5YR N3/0) SILT and fine	0.0 ppm	135-B4C (4.0-4.5)	Cr+6, TAL Metals
_	$\begin{bmatrix} \times & \times \\ \times & \times \end{bmatrix}$ and	gular Gravel, Fill materials (coal, shells, ash, acrete), dark green staining, wet. No odor.	5.0 ppm		
6-	NR	: No Recovery			
8—		L: Dark Yellowish-Brown (10YR 4/4) SILT, dry, dium dense. No odor.	0.1 ppm		
_	×××		-	135-B4D (8.5-9.0)	Cr+6, TAL Metals
10 —	× × v org.	L: Very dark Grayish Brown (10YR 3/2) SILT, anics, topsoil, dry, loose. No odor. L: Grayish Brown (10 YR 5/2) ASH, COAL, SILT defill materials (ceramics, stone, brick), wet. No or.			

ENCD AECOM	Client: PPG Industries		BORIN	
ENSR AECOM	Site: Site 135		135	5-B4
Start Date:	Project: Site Investigation		Page: 2 of 3	
12/12/2006	Coordinates: X-610811.3 Y-682149	.6	Depth of Borir	ng: 32.00
End Date:	Elevation: 11.76		Geologist: P.	Kelly, M. Merdinger
12/19/2006	Drill Subcontractor: Eichelberger/Terra Pro		Driller: Heath	Kneller
Debty (4) rithology	Description	PID (bbw)	Sample ID	Sample Parameters
NR	: No Recovery			
$\sim \times \sim \times$ and	L: Grayish Brown (10 YR 5/2) ASH, COAL, SILT I Fill materials (ceramics, stone, brick), wet. No	0.0 ppm	135-B4E	Cr+6, TAL Metals
	L: Reddish Brown (5YR 4/4) SILT, some Clay, anices, trace medium Gravel, moist. No odor.	0.1 ppm	(12.5-13.0)	
	AT: PEAT (Meadow Mat), Organics, moist, medium S. Sulfur odor.		35-B4F(13.9-14.4) :5-B4FD(13.9-14.4)	Cr+6, TAL Metals Cr+6, TAL Metals
	: No Recovery			
	AY: Very dark Gray (5Y 3/1) organic CLAY, little anic, moist, medium stiff. Sulfur odor.	29.7 ppm		
		25.0 ppm		
18+		44.8 ppm	135-B4G (18.0-18.5)	Cr+6, TAL Metals
- NR	: No Recovery			
	AY: Very dark Gray (5Y 3/1) organic CLAY, little anic, moist, medium stiff. Sulfur odor.	36.3 ppm		
		13.6 ppm		

ENSR AECOM	Client: PPG Industries		BORIN		
ENSK AECON	Site: Site 135		135	5-B4	
Start Date:	Project: Site Investigation		Page: 3 of 3		
12/12/2006	Coordinates: X-610811.3 Y-682149	.6	Depth of Boring: 32.00		
End Date:	Elevation: 11.76		Geologist: P	. Kelly, M. Merdinger	
12/19/2006	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller	
Debty (4) Tithology	Description	biD (bbw)	Sample ID	Sample Sample	
22+		57.7 ppm			
	AY: Very Dark Gray (5Y 3/1) sandy CLAY, moist, edium stiff. Sulfur odor.		135-B4H (22.3-22.8)	Cr+6, TAL Metals	
NR	R: No Recovery				
	AY: Dark Gray (2.5Y 4/1) silty CLAY, trace very find nd, moist, loose.	8.5 ppm			
	_T: Dark Grayish Brown (2.5Y 4/2) SILT, some Clay, oist, medium stiff. No odor.	1.2 ppm			
26 +		60.3 ppm			
CL	AY: Dark Gray (5Y 4/1) sandy CLAY, sand lenses, tt, soft. No odor.				
	R: No Recovery				
	AY AND SAND: Grayish Brown (10YR 5/2) CLAY d SAND, interbedded, wet, loose. No odor.	0.2 ppm			
-X-X- -X-X- -XX-		0.0 ppm			
	ND: Weak Red (10YR 4/4) fine to coarse SAND, ce Silt, wet, loose. No odor.	0.0 ppm			
		0.0 ppm			
	R: No Recovery				
32 —	JLL: End of Boring at 32 ft.	1			

ENSR	AECON	Client: PPG Industries			NG ID:
ENSK	AECU	Site: Site 135		13	5-B5
Start Da	ite:	Project: Site Investigation		Page: 1 of 2	
3/27/200	07	Coordinates: X-610782.1 Y-682089	9.2	Depth of Box	ring: 20.70
End Dat		Elevation: 15.45		Geologist:	B. Ergezen
3/27/200		Drill Subcontractor: Terra Probe Incorpora		Driller: Hea	th Kneller
Debth (tt)	Lithology	Description	PID (bbw)	Sample ID	th Kneller Sample Parameters
0	× × × × × × × × × × × × × × × × × × ×	ONCRETE: Concrete slab, no staining.			
	X X F	ILL: Yellowish Brown (10YR 5/6) coarse to fine	3.0	135-B5A (0.7-1.1)	Cr+6, TAL Metals
	××××× S	AND, little medium to fine angular Gravel, loose, poist. No odor.		135-B5B (1.1-1.8)	Cr+6, TAL Metals
2—		ONCRETE: White pulverized CONCRETE (Concrete lab), dense, dry. No odor.	0.0	135-B5C (1.8-2.7)	Cr+6, TAL Metals
_	C	ILL: Dark Brown (7.5YR 3/3) SILT, little Clay, little coal, trace medium to fine Gravel, loose, moist. No dor.	0.0		
4—	N	R: No Recovery			
-	× × lit	ILL: Very Dark Gray (10YR 3/1) coarse to fine SAND, tle coarse to fine Gravel, trace plastic, coal, brick, ose, moist. No odor.	0.0	135-B5D (4.7-5.8)	MS/MSD, Cr+6, TAL Metals
6	××	R: No Recovery	0.0		
8—					
-		ILL: Black (10YR 2/1) SILT and fine SAND, little ledium to fine angular Gravel, loose, moist. No odor.	N/A	135-B5E (8.7-9.2) 135-B5F	Cr+6, TAL Metals Cr+6, TAL Metals
10 —		ILL: Gray (5YR 5/1) coarse to fine SAND, little sedium to fine Gravel, little Silt, loose, wet. No odor.		(9.2-9.7)	2.75, 7.72 110000
		R: No Recovery	<u> </u>		

NSR AECOM	Client: PPG Industries			NG ID:		
ENSR AECOM	Site: Site 135		13	5-B5		
Start Date:	Project: Site Investigation	Page: 2 of 2				
3/27/2007	Coordinates: X-610782.1 Y-682089	9.2	Depth of Boo	ring: 20.70		
End Date:	Elevation: 15.45		Geologist: B. Ergezen			
3/27/2007	Drill Subcontractor: Terra Probe Incorpora		Driller: Hea	th Kneller		
Debity (tt) Tithology	Description,	PID (bbw)	Sample ID	Sample		
14 - × × me × × × × × × × × × × × × ×	L: Gray (5YR 5/1) coarse to fine SAND, little dium to fine Gravel, little Silt, loose, wet. No odor. L: Dark Brown (7.5YR 3/3) Clayey SILT, little dium to fine Gravel, trace coal, loose, moist. Slight fur odor.	0.0	135-B5G (12.7-14.1) 135-B5GD (12.7-14.1) 135-B5H (14.1-14.7)	Cr+6, TAL Metals Cr+6, TAL Metals Cr+6, TAL Metals		
18 + CL and	AT: Very Dark Gray Brown (2.5YR 3/2) organic AY, some Peat, little Silt, trace medium to fine sub- gular Gravel, cohesive, soft, moist. Sulfur odor.	0.0	135-B5I (16.7-18.1)	Cr+6, TAL Metals		
PE	AT: Black (5Y 2.5/1) CLAY, trace Silt, shells, nesive, soft, moist. No odor.	0.0				
20+		0.0				
NIC	: No Recovery					

ENSR	AECON	Client: PPG Industries			NG ID:	
EINSK	AECUN	Site: Site 135		13	5-B6	
Start Da	te:	Project: Site Investigation		Page: 1 of 2		
3/26/200	3/26/2007 Coordinates: X-610927.7 Y-682220.9			Depth of Boring: 16.00		
	End Date: Elevation: 10.24			Geologist: B. Ergezen		
3/26/200		Drill Subcontractor: Terra Probe Incorpora		Driller: Hea	th Kneller	
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	th Kneller Sample Parameters	
0	× × × × 3				T	
	××××××× Co	ONCRETE: Concrete slab, no staining.				
	×××××× C	ONCRETE: Second Concrete slab, no staining.				
-	× × NI	R: No Recovery	0.0			
	$ ^{\wedge} \times ^{\wedge} \times $ 2.	LL: Dark Grayish Brown (10YR 4/2) and Black (5YR 5/1) coarse to fine SAND, little Silt, trace fine Gravel, ace Brick, loose, dry. No odor.				
2+	×××	R: No Recovery	816.0	135-B6B (2.0-3.4)	Cr+6, TAL Metals	
	Y Y	LL: Coal ASH, trace glass, plastic, loose, moist. No lor.				
	(1 m	LL: Very Dark Grayish Brown (10YR 3/2) and Black 0YR 2/1) coarse to fine SAND, little Silt, trace edium to fine angular Gravel, trace plastic and ganics, loose, wet. Hydrocarbon odor.	799.0			
4—	^×^× NI	R: No Recovery	403.0			
	× × tra	LL: Black (10YR 2/1) coarse to fine SAND, little Silt, ace medium to fine angular Gravel, trace plastic and ganics, Coal ash, loose, wet. Hydrocarbon odor.				
	NI	R: No Recovery	425.0			
6—	$\times \times \times$ tra	LL: Black (10YR 2/1) coarse to fine SAND, little Silt, ace coarse to fine angular Gravel, loose, wet. Slight adrocarbon odor.	7.2			
_		LL: Black (10YR 2/1) SILT, some medium to fine and, trace Clay, loose, moist. No odor.	6.4	135-B6C (6.7-7.3)	Cr+6, TAL Metals	
	NI	R: No Recovery				
8—	X X EI	LL: Black (10YR 2/1) SILT, some medium to fine	0.1			

NCD AFCO	Client: PPG Industries	BORING ID:				
NSR AECO	Site: Site 135		13	5-B6		
Start Date:	Project: Site Investigation		Page: 2 of 2			
3/26/2007	Coordinates: X-610927.7 Y-682220	Depth of Bo	ring: 16.00			
End Date:	Elevation: 10.24		Geologist:	B. Ergezen		
3/26/2007	Drill Subcontractor: Terra Probe Incorpora		Driller: Hea	th Kneller		
pepth (ft) Lithology	Description	PID (bbw)	Sample ID	Sample Parameters		
x x S	and, trace Clay, loose, moist. No odor.					
- × × × (ILL: Very Dark Gray (10YR 3/1) medium to fine GRAVEL and SAND, some Coal Ash, trace Organics, pose, moist. No odor.	0.1				
10	R: No Recovery	0.0	135-B6D (10.0-11.1)	Cr+6, TAL Metals		
- × × C	ILL: Very Dark Gray (10YR 3/1) medium to fine RAVEL and SAND, some Coal Ash, trace wood and pal, loose, wet. No odor. R: No Recovery	- 0.0 -				
× × v	ILL: Very Dark Gray (2.5YR 3/1) Clayey SILT, trace ery fine Sand, trace medium to fine angular Gravel, ohesive, soft, moist. No odor.	0.3	135-B6E (12.0-12.8)	MS/MSD, Cr+6, TAL Metals		
- LL F	EAT: Very Dark Gray (2.5YR 3/1) PEAT, some rgaincs, trace very fine to fine Sand, cohesive, soft, noist. Sulfur odor.	3.5	135-B6F (12.8-13.4)	Cr+6, TAL Metals		
14 +	R: No Recovery	66.5				
	EAT: Very Dark Grayish Brown (10YR 3/2) PEAT, ome organics, trace fine Sand, cohesive, soft, moist. trong sulfur odor.					
		325.0	135-B6G (15.2-15.8)	Cr+6, TAL Metals		
16	R: No Recovery	<u> </u>				
<u> </u>	ULL: End of boring at 16 ft.	1				

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Date Started Drilling: 4/15/2014 8:35:00 AM

Boring ID: 135-P3C-T48A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610771.951 Rig Type: Coordinates (NJSPNAD83) y: 682105.268

Date Finished Drilling: 4/15/2014 9:45:00 AM Core Size: 2 in Boring Total Depth: 15 ft Logged By: FS Project Manager: Chris Martell Depth to Water: NA

	1: Sm	ith Propert	v		Toject Manager. Offins Warten	Depth to Water.	<u> </u>		
Journal		I TOPCIL	,			(Note	(Note bgs = below ground surface)		
covery ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	ness:	Sample ID		
	0.0		CONCRETE	D 4 4 D	CONCRETE				
	0.0	dry	FILL		concrete, (10YR 7/2) light gray, medium o	, little crushed dense, dry, no odor,	135-P3C-T48A-0.5-1.		
	0.0	dry	FILL		fine to medium SAND, some cinders, ash		135-P3C-T48A-2.0-2.		
5	0.0	moist	FILL		no staining. fine silty SAND, some cinders, ash, little g	glass, (5YR 4/3)	100 1 00 140 (2.0 2.		
							135-P3C-T48A-4.0-4.		
	0.0	wet	FILL		(10YR 4/1) dark gray, medium dense, we	ace fine gravel, et, no odor, no			
4	0.0	wet	FILL		fine to medium silty SAND, and ash, some to medium gravel, (10YR 5/1) gray, mediu		135-P3C-T48A-6.0-6.		
					ouor, no staining.		135-P3C-T48A-8.0-8.		
			NR	XXXXX	NO RECOVERY				
	0.0	saturated to			plasticity, very loose, saturated to wet, no	odor, no staining.	135-P3C-T48A-10.0-1		
		moist			weak red, dense, moist, no odor, no staini	ing.	135-P3C-T48A-11.0-1		
5	0.0	dry	OL PT		20% organic silt, (7.5YR 3/3) dark brown, organic odor, no staining. Soils consistent	, firm, dry, strong t with MM.	135-P3C-T48A-11.5-1		
_	0.0	dry	OL		5/2) grayish brown, low plasticity, medium moderate organic odor, no staining. Soils UNDorg. UNDorg SILT, 90% organic silt, 10% organic si	n stiff, dry, consistent with anic fibers, (10YR			
					organic odor, no staining. Soils consistent	t with UNDorg.			
	covery ft/ft) 5	Covery PID (ppm)	O.0 Wet	Docation: Smith Property Covery (ppm) Moisture Content USCS	Covery (ppm) Moisture Content USCS Graphic Log 0.0	pocestion: Smith Property Covery (ppm) PID (content USCS Graphic Concerte (ppm) Content USCS Graphic Concerte (ppm) Content USCS Concerte (ppm) Content USCS Concerte (ppm) Conce	covery (ppm) Moisture (content) USCS Graphic (Log (Depm) Content) (Log (

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Boring ID: 135-P3C-T48AR

Page: 1

Project	Name: F	PPG Ga	rfield Ave			Drilling Company: SGS North America		Page:															
	Number:					Drilling Method: Direct Push	Coordinates (NJSP	NAD83) x: 610771.463															
				9:00:00 AM		Rig Type:	IAD83) y: 682104.958																
			8/17/2016			Core Size: 3.0 in	Boring Total Depth:																
	By: SP	g.	0/11/2010			Project Manager: Scott Mikaelian	Depth to Water: 7.0																
		n: Act	ual - Smith	PDI		. 15,500 managori Good minadian	Surface Elevation:																
	ai Locatio	7.00	aai Oiliitii	1 51			Ouridoc Licvation.	10.0 1(14/1/200															
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID															
		0.0		CONCRETE	P 4 4	Concrete slab																	
-1-						dry	FILL		medium to coarse SAND, some ash, trac dark gray, medium dense, dry, no odor, r	ce coal, (5YR 4/1) no staining.													
			dry	FILL		fine to medium sandy SILT, little cinders,																	
-2-	4					to	FILL		brown, dense, dry to moist, no odor, no s	staining.	1												
-3	4		moist dry			CINDERS, some fill debris, (5YR 4/3) redry, no odor, no staining.	udisti brown, loose,																
-4				NR	c××××	NO RECOVERY																	
-5		0.0	moist	FILL		CINDERS, little fill debris, trace coal, (5Y loose, moist, no odor, no staining.	'R 4/1) dark gray,																
-6			moist	FILL		medium to coarse SAND, trace ash, coal																	
_			moist	FILL		(7.5YR 4/1) dark gray, dense, moist, no		1															
-7 -8 -9	4.5											to wet			CINDERS, (5YR 6/1) gray, loose, moist to staining, water at 7.0 feet.	io wet, no odor, no							
-9 -10				NR		NO RECOVERY		-															
		0.0	0.0	0.0	0.0	moist	FILL	$\times\!\!\times\!\!\times$	CINDERS, trace coal and ash, (5YR 4/1)) dark gray, loose,													
-11																						dry	SW-SC
-12	5		dry	PT	71 711	i LAT (degraded vegetated material), 00		135-P3C-T48AR-12.0-12.5															
-13 -14 -15	0		dry	SM		40% organic silt, (7.5YR 4/2) brown, memoderate organic odor, no staining. Soils UNDorg. Organic SILT, 10% organic fibers, 90% of 6/1) gray, soft, dry, slight organic odor, no consistent with UNDorg.	consistent with																
-15 -																							
/IM - mea	adow mat		GGM - gree	n grey mud		esidue UNDno - non-organic undisturbed native of UNDorg - organic undisturbed native depotent of this boring.		ufactured gas plant romate chemical production wa															

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Boring ID: 135-P3C-U45A

Page: 1

Drilling Company: SGS North America

Project Name: PPG Garfield Ave Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610839.193 Date Started Drilling: 4/16/2014 8:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682172.087

Date Finished Drilling: 4/16/2014 9:05:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell

Depth Range	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
(ft bgs)	, ,	0.0		CONODETE		OONODETE	
		0.0	slightly	CONCRETE FILL		CONCRETE fine to medium SAND, some brick fragments, little fine to	_
—1—		0.0	moist	''		medium gravel, (5YR 5/2) reddish gray, hard, slightly moist,	135-P3C-U45A-1.0-1.5
- -2		0.0	moist	FILL		no odor, no staining. CINDERS, with ash, some coal, little silt, (7.5YR 2.5/1)	
	4					black, loose, moist, no odor, no staining.	
-3							135-P3C-U45A-3.0-3.5
	-						
-4				NR		NO RECOVERY	
-5		15.7	4	F	XXXXX	OINDEDO with the transfer of the second	135-P3C-U45A-5.0-5.5
-		15.7	wet	FILL		CINDERS, with fine to medium gravel, some fine sand, ash,trace silt, (7.5YR 3/1) very dark gray, loose, wet, slight	135-P3C-U45A-5.0-5.5
-6-	_	0.0	moist	FILL		hydrocarbon odor, slight sheen. CINDERS, with fine to medium gravel, some ash, fine sand,	
						(7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	
· _	5					Starring.	135-P3C-U45A-7.0-7.5
-8-		0.0	slightly	FILL		fine silty SAND, little fine gravel, trace ash, roots, (5YR 4/3)	_
_	_	0.0	moist	'''		reddish brown, dense, slightly moist, no odor, no staining.	
9- 							135-P3C-U45A-9.0-9.5
- 10		0.0		-		A011 : 11 : 1	
-		0.0	moist	FILL		ASH, with cinders, some coal, fine to medium gravel, little fine sand, trace ceramics, wood fragments, (7.5YR 4/1) dark	
 11	_					gray, moist, no odor, no staining.	135-P3C-U45A-11.0-11.
·	4						
 13 	_						135-P3C-U45A-13.0-13.
14 				NR		NO RECOVERY	
 15		0.0	slightly	FILL		fine to medium silty SAND, trace fine to medium gravel,	
	-	0.0	moist			cinders, roots, (5YR 4/3) reddish brown, slightly moist, no	135-P3C-U45A-15.2-15 135-P3C-U45A-15.7.16
16 		0.0		PT	/ ₂ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	odor, no staining. PEAT (degraded vegetated material), 80% organic fibers,	133-130-0434-13.7.10.
-17	_				11, 11,	20% organic silt, (7.5YR 3/2) dark brown, stiff, strong organic odor, no staining. Soils consistent with MM.	
_	5				1, 11, 1	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
 18	-				<u> </u>		
- 19					\(\frac{1}{2} \) \(\fra		
- –	_				7 77 7 7 77 7		
 20							
						ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter	

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Boring ID: 135-P3C-U46A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610824.821

Date Started Drilling: 4/7/2015 8:50:00 AM Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682146.175

Date Finished Drilling: 4/7/2015 8:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SS/ES Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: Site 135 - U46A

Depth Recovery RID Meisture GA Graphic

Depth	Recovery	PID	Moisture	GA		Graphic		Sample
ange t bgs)	(ft/ft)	(ppm)	Content	Class	USCS	Log	Surface Cover and Thickness:	ID
_		0.0	slightly moist	3	FILL		fine organic SAND, some roots, little fine gravel, trace debris, (7.5YR 3/4) dark brown, loose, slightly moist, no	
		0.0	dry	3	FILL		odor, no staining. fine to medium SAND, little fine gravel, little ash, (7.5YR	
2		0.0	wet	3	FILL		\2.5/3) very dark brown, loose, dry, no odor, no staining.	
	. 5						ASH, little coal, little fine sand, trace brick, trace debris, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	
3 –								
4								
5 —		4.8	wet	3	FILL		ASH, little fine to medium sand, little fine gravel, trace coal,,	
6 —							(7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	135-P3C-U46A-6.0-6.5
7 —	5							
8 —	. 5							
_ -9 —		0.0	moist	3	FILL		fine to medium silty SAND, little fine gravel, trace ash,	
_							(7.5YR 4/2) brown, loose, moist, no odor, no staining.	
10		0.0	moist	3	FILL		fine to medium silty SAND, little fine gravel, (7.5YR 4/2)	135-P3C-U46A-10.0-10.
11							brown, loose, moist to wet, no odor, no staining.	
12	_	0.0	wet	3	FILL		ASH, some fine to medium gravel, little fine sand, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	
 13 	5						, , , , , , , , , , , , , , , , , , , ,	
_								135-P3C-U46A-13.4-13.
14								
15—		0.0	wet	3	FILL		ASH, some silt, little roots, (7.5YR 2.5/2) very dark brown, soft, wet, no odor, no staining.	135-P3C-U46A-15.0-15.
16		0.0	moist	7	PT	7 77 7	PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), medium stiff, moist, strong organic odor,	
17						<u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>	no staining. Soils consistent with MM.	
_	5	0.0	moist	9	OL		UND organic SILT, (60% organic silt, 30% organic fibers), (7.5YR 3/3) dark brown, low plasticity soft, moist, slight	
18							organic odor, no staining. Soils consistent with UNDorg.	
_								
19 -								
20								
			l				I I	

Project Number: 60240739

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Date Started Drilling: 3/19/2014 9:15:00 AM

Boring ID: 135-P3C-U48A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610803.249 Coordinates (NJSPNAD83) y: 682095.886

Date Finished Drilling: 3/19/2014 10:15:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Chris Martell Logged By: MI

Physical Location: Smith Property

Rig Type:

Depth	D	חים	Malatori		One called		0
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_		0.0		CONCRETE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONCRETE	
-1-		0.0	dry	FILL		crushed CONCRETE, (9.5/2.5Y_/1) white, loose, dry.	135-P3C-U48A-1.0-1.5
_		0.0	dry to	FILL		fine to medium SAND, little silt, trace coal, fine to coarse gravel, (5YR 4/4) reddish brown, loose to dense, dry to	133-F3C-U40A-1.0-1.0
-2-			slight		>>>>	slightly moist, no odor, no staining.	
_	4		moist		XXX		
-3-					$\times\!\!\times\!\!\times$		405 DOC 11404 0 0 0 1
4					>>>>		135-P3C-U48A-3.0-3.5
-4							
_				NR		NO RECOVERY	
-5-		0.0			~~~~		405 500 11404 5 0 5 5
_		0.0	moist	FILL	>>>>	fine to medium silty SAND, fine to medium gravel, trace coal, (7.5YR 4/3) brown, loose to dense, moist, no odor, no	135-P3C-U48A-5.0-5.5
-6					>>>>>	staining.	
_							
-7-					XXX		
. 7	4.5						135-P3C-U48A-7.0-7.5
-8-					>>>>>		
ا ا							
-9					$\times\!\!\times\!\!\times\!\!\times$		
9 _		0.0	moist	FILL	>>>>	CINDERS, little ash, wood fragments, trace coal, fine to	135-P3C-U48A-9.0-9.5
10				NR		medium gravel, (5YR 2.5/1) black, loose, moist, no odor, no staining.	
-10		0.0	moist	FILL		NO RECOVERY	
			to		>>>>	ASH, some cinders, fine to medium sand, little fine gravel,	
-11			wet		>>>>>	trace wood fragments, ceramics, (7.5YR 5/1) gray, loose, moist to wet, no odor, no staining.	135-P3C-U48A-11.0-11
					XXXX	moist to wet, no odor, no staining.	
-12	3.5				>>>>		
–	5.5				>>>>		
-13					XXXX		135-P3C-U48A-13.0-13
				NR	· × × × ×	NO RECOVERY	
-14							
-							
-15 		0.0	moist	FILL		ASH, some cinders, fine to medium sand, little fine gravel,	
_ +	ŀ	0.0	to	FILL		trace wood fragments, ceramics, (7.5YR 5/1) gray, loose,	135-P3C-U48A-15.7-16
-16		0.0	wet moist		$\underset{\underline{M}}{\underbrace{\otimes}}$	moist to wet, no odor, no staining. fine to medium silty SAND, fine to medium gravel, trace coal,	
\dashv		0.0	slightly	PT		(7.5YR 4/3) brown, loose to dense, moist, no odor, no	135-P3C-U48A-16.2-16
-17	,		moist		<u> </u>	\staining.	
\dashv	4				71/2 71/2	PEAT (degraded vegetated material), 80% organic fibers,20% organic silt, (7.5YR 3/3) dark brown, stiff, slightly	
-18	}	0.0	moist	OL	<u>//</u>	moist, strong organic odor, no staining. Soils consistent with	
\dashv			5100			\MM. /	
-19				NR		UNDorg SILT, 95% organic fibers, 5% organic silt, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist,	
\dashv				141		moderate organic odor, no staining. Soils consistent with	
20						─_\UNDorg. /	
						\NO RECOVERY	

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Boring ID: 135-P3C-V42A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610906.53

 Date Started Drilling:
 4/15/2014 8:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682238.96

 Date Finished Drilling:
 4/15/2014 9:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

Depth							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	P 4 4 P	CONCRETE	
-1		0.0	dry	FILL		crushed CONCRETE, (10YR 8/1) white, loose, dry, no odor, no staining.	
-2 - -3	5	125.0	moist	FILL		ASH, with medium sand, some ash, little coal, trace glass fragments, (7.5YR 2.5/2) very dark brown, loose, moist, moderate hydrocarbon odor, hydrocarbon staining.	135-P3C-V42A-1.5-2.0
-4 - -5							135-P3C-V42A-3.5-4.0
-6		330.0	moist to wet	FILL		fine to medium SAND, with ash, some cinders, little coarse gravel, trace wood fragments, (7.5YR 2.5/1) black, loose, moist to wet, strong hydrocarbon odor, sheen.	135-P3C-V42A-5.5-6.0
-7 - -8	5	20.0	moist to wet	FILL		medium SAND, some ash, little cinders, little glass fragments, (7.5YR 2.5/1) black, loose, moist to wet, moderate hydrocarbon odor, sheen.	135-P3C-V42A-7.5-8.0
-9- -		0.0	dry	FILL		fine to medium SAND, little medium to coarse gravel, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	135-P3C-V42A-9.5-10.
-10 - -11		0.0	dry to moist	FILL		fine to medium silty SAND, little coarse gravel, (7.5YR 4/3) brown, loose, dry to moist, no odor, no staining.	
_ -12	4	0.0	moist	FILL		CINDERS, some ash, little coal, little fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-P3C-V42A-11.5-12
-13		0.0	dry	FILL		fine to medium silty SAND, trace organic fibers, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	
-14 -				NR		NO RECOVERY	135-P3C-V42A-13.5-14
-15		0.0	wet	FILL		fine silty SAND, little coarse gravel, (7.5YR 3/3) dark brown,	135-P3C-V42A-15.0-15
_ -16 - -17		0.0	dry	PT		loose, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, dry, moderate organic odor. Soils consistent with MM.	135-P3C-V42A-15.5-16
-18 18	5						
-19 - -20					<u> </u>		

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30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-V43A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610887.078

 Date Started Drilling:
 3/19/2014 11:05:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682203.879

 Date Finished Drilling:
 3/19/2014 12:00:00 PM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 S
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

Depth	_						
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-		0.0		FILL		CONCRETE	
-1— -2—	5	0.0	dry	FILL		fine to medium SAND, little coarse gravel, (7.5YR 4/4) brown, loose, dry, no odor, no staining.	135-P3C-V43A-1.0-1.5
-3 -4 -							135-P3C-V43A-3.0-3.5
-5-		32.0	dry	FILL		medium SAND, some cinders, little coal, trace glass fragments, (10YR 3/3) dark brown, loose, dry, slight petroleum odor, no staining.	135-P3C-V43A-5.0-5.5
-6 -7		203.0	moist	FILL		CINDERS, with oil-like material, trace wood fragments, (7.5YR 2.5/2) very dark brown, loose, moist, strong petroleum odor, sheen.	
-8	5	723.0	moist to wet	FILL		CINDERS, some ash, little coarse gravel, (7.5YR 2.5/2) very dark brown, loose, moist to wet, strong petroleum odor, sheen.	135-P3C-V43A-7.0-7.
-9							135-P3C-V43A-9.0-9.5
-10 - -11		97.0	wet	FILL		CINDERS, and tar-like material, with oil-like material, some ash, some coal, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor.	
-12	5						135-P3C-V43A-11.0-11
-13							135-P3C-V43A-13.0-13
14-		0.0	moist	FILL		fine to medium silty SAND, little coal, trace coarse gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining.	
-15 - -16 -		12.0	moist	FILL		CINDERS, some sand, little coarse gravel, trace coal, (7.5YR 2.5/2) very dark brown, loose, moist, no odor, no staining.	135-P3C-V43A-15.0-15
-17	5	0.0	moist	FILL		fine to medium silty SAND, little organic fibers, little ash,	135-P3C-V43A-17.0-17
18-	3	0.0	moist	SM		trace cinders, (7.5YR 2.5/2) very dark brown, soft, moist, no odor, no staining. UNDno SILT, trace fine sand, (10YR 5/1) gray, low plasticity, very soft, moist, no odor, no staining. Soils consistent with	135-P3C-V43A-17.5-18
19 -		0.0	dry	PT	<u> </u>	UNDno. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry,	
20						strong organic odor, no staining. Soils consistent with MM.	
						JND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter	

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Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/19/2014 1:30:00 PM

Boring ID: 135-P3C-V44A

Page: 1

732.564.3200 office telephone

Project Name: PPG Garfield Ave Drilling Company: SGS

Drilling Company: SGS North America
Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610884.47 Coordinates (NJSPNAD83) y: 682192.517

Date Finished Drilling: 3/19/2014 2:35:00 PM Core Size: 2.0 in

Boring Total Depth: 25 ft
Depth to Water: NA

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 Number of Num

Rig Type:

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
.		0.0		CONCRETE	A 4 A A	CONCRETE	
-1 - -2	5	0.0	dry	FILL		fine to medium silty SAND, little cinders, (5YR 4/3) reddish brown, medium stiff, dry, no odor, no staining.	135-P3C-V44A-1.0-1.5
-3-	-						135-P3C-V44A-3.0-3.5
-4		0.0	dry	FILL		CINDERS, (5YR 2.5/1) black, dry, no odor, no staining.	
-5-		0.0	dry	FILL		medium to coarse gravelly SAND, (7.5YR 3/2) dark brown, dry, moderate chemical odor, no staining.	135-P3C-V44A-5.0-5.5
-6		9.1	dry	FILL		CINDERS, (5YR 2.5/1) black, dry, slight chemical odor, no	
-7-	5	127	dry	FILL		staining. CINDERS, and ash, some coarse gravel, (5YR 4/1) dark gray, loose, dry, strong petroleum odor, no staining.	135-P3C-V44A-7.0-7.5
-8-	5	465	moist	FILL		CINDERS, (5YR 2.5/1) black, loose, moist, strong petroleum odor, no staining.	
-9							135-P3C-V44A-9.0-9.5
-10		27.2	wet	FILL		CINDERS, (5YR 2.5/1) black, loose, wet, moderate petroleum odor, sheen.	
-12	5						135-P3C-V44A-11.0-11
-13 -14	3	25.1	dry	FILL		fine to medium silty SAND, little cinders, (7.5YR 2.5/1) black, dry, slight petroleum odor, no staining.	135-P3C-V44A-13.0-13
16 -		12.1	wet	FILL		silty SAND, with cinders, (5YR 2.5/1) black, loose, wet, no odor, no staining.	135-P3C-V44A-15.0-15
-17	5	0.0	moist	FILL		fine to medium silty SAND, little cinders, trace coarse gravel,	135-P3C-V44A-17.0-17
18	5	0.0	moist	PT	\(\frac{\fir}}}}}}{\frac	(5YR 3/4) dark reddish brown, moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent	135-P3C-V44A-17.5-18
-19 					V 7V 7	with MM.	
20		0.0		PT	<u> </u>	CLAY, 80% organic fibers, 20% organic silt. Soils consistent	
-21					1/ \(\frac{1}{2}\)	with MM.	
22-	5	0.0	moist	SM		SILT, (7.5YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.	



Boring ID: 135-P3C-V44A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	-
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610884.47
Date Started Drilling: 3/19/2014 1:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682192.517
Date Finished Drilling: 3/19/2014 2:35:00 PM	Core Size: 2.0 in	Boring Total Depth: 25 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Property		

ogged	By: ES			<u> </u>	Projec	t Manager:	Chris Martell		Depth to Water	: NA	
hysica	I Location	n: Sm	ith Propert	У						(Note bas =	below ground surface)
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cove	er and Thickn	ness:		Sample ID
25											
25											
nmen	ts: 1) 3 atte	mpts we	ere made to	obtain best re	covery 2) UND/N	/IM confirmed t	to be 1 ft thick 3) No COPR or	r GGM present in a	ny interval of	f this boring.

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-V46A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610850.626

 Date Started Drilling:
 3/19/2014 10:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y: 682129.363

 Date Finished Drilling:
 3/19/2014 12:00:00 PM
 Core Size: 2.0 in
 Boring Total Depth: 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	D 4 4 D	CONCRETE	
1		0.0		FILL		crushed CONCRETE, (9.5/2.5Y_/1) white.	
-		0.0	dry to slight	FILL		fine to medium SAND, some silt, little fine to coarse gravel, trace coal, (5YR 4/3) reddish brown, loose to dense, dry to slightly moist, no odor, no staining.	135-P3C-V46A-1.0-1.5
	4		moist				
. <u> </u>							135-P3C-V46A-3.0-3.5
-4- <u>-</u>				NR	×××××	NO RECOVERY	
-5-		0.0	dry	FILL		fine to medium SAND, some silt, little fine to coarse gravel,	135-P3C-V46A-5.0-5.5
_		0.0	to slight	FILL		trace coal, (5YR 4/3) reddish brown, loose to dense, dry to slightly moist, no odor, no staining.	
6		0.0	moist	FILL		CINDERS, some coal, little ash, (7.5YR 2.5/1) black, loose, dry to slightly moist, no odor, no staining.	
_7	5		to slight			fine silty SAND, with ash, trace wood fragments, (10YR 6/2) light brownish gray, loose, moist, no odor, no staining.	135-P3C-V46A-7.0-7.5
-8-			moist			ight brownian gray, loose, molet, no oder, no staining.	
 9			1110101				
. –		0.0	moist	FILL		ASH, with cinders, some coal, fine to medium gravel, little wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no	135-P3C-V46A-9.0-9.5
_10		0.0	moist	FILL		staining. ASH, with cinders, some coal, fine to medium gravel, little	
11		0.0	moist	FILL		wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	135-P3C-V46A-11.0-11.
_ 12						fine to medium silty SAND, little fine gravel, (5YR 6/2) pinkish gray, loose to dense, moist, no odor, no staining.	133-130-1404-11.0-11.
	4						
13 							135-P3C-V46A-13.0-13.
14 				NR		NO RECOVERY	
15		0.0		FII I	XXXXX	ACII with sinday come and fine to madium awayal little	135-P3C-V46A-15.0-15.
16 		0.0	moist	FILL		ASH, with cinders, some coal, fine to medium gravel, little wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	135-1 30-140/4-13.0-13.
-17		0.0	moist	FILL		fine to medium silty SAND, little fine gravel, (5YR 6/2)	135-P3C-V46A-17.0-17.
- 10	4	0.0	moisi	FILL		pinkish gray, loose to dense, moist, no odor, no staining.	135-P3C-V46A-17.5-18.
18 		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist,	135-P3C-V46A-18.0-18.
19 				NR		moderate organic odor, no staining. Soils consistent with UNDORS.	
-20						NO RECOVERY	_
				obtain best red			

Date Started Drilling: 3/19/2014 9:31:00 AM

Boring ID: 135-P3C-W43A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 610919.699

Drilling Method: Geoprobe

Rig Type: Coordinates (NJSPNAD83) y: 682198.733 Core Size: 2.0 in Boring Total Depth: 20 ft

Date Finished Drilling: 3/19/2014 10:25:00 AM Depth to Water: NA Logged By: SS Project Manager: Chris Martell

Physical Location: Smith Property (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 0.0 135-P3C-W43A-1.0-1.5 **FILL** fine to medium SAND, little coarse gravel, (5YR 4/3) reddish dry 0.0 brown, loose, dry, no odor, no staining. dry **FILL** fine to medium silty SAND, little coarse gravel, (2.5YR 5/4) reddish brown, loose, dry, no odor, no staining. 5 135-P3C-W43A-3.0-3.5 135-P3C-W43A-5.0-5.5 0.0 dry **FILL** CINDERS, some sand, little wood fragments, little coarse gravel, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. 135-P3C-W43A-7.0-7.5 0.0 **FILL** fine to medium SAND, some cinders, little ash, little coarse dry 5 gravel, little wood fragments, trace concrete, (7.5YR 4/1) dark gray, loose, dry, no odor. 135-P3C-W43A-9.0-9.5 6.4 moist **FILL** CINDERS, little ash, little coal, trace glass fragments, (5YR 4/1) dark gray, loose, moist, slight petroleum odor, no staining. 135-P3C-W43A-11.0-11.5 0.0 FILL fine SAND, little cinders, trace glass fragments, (7.5YR 3/2) moist to dark brown, loose, moist to wet, no odor, no staining. 3.5 wet -13 135-P3C-W43A-13.0-13.5 NR NO RECOVERY 0.0 135-P3C-W43A-15.0-15.5 **FILL** CINDERS, with sand, little coarse gravel, trace wood moist fragments, (2.5Y 3/1) very dark gray, loose, moist, no odor, no staining. -16 135-P3C-W43A-16.5-17.0 0.0 135-P3C-W43A-17.0-17.5 OL UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR moist 5 4/2) brown, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg. -18 19 20 PPG LOGS.GDT - 6/6/14 12:54

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.

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/19/2014 12:15:00 PM

Boring ID: 135-P3C-W45A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610893.679

Rig Type: Coordinates (NJSPNAD83) y: 682145.679

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	D D D D D D D D D D D D D D D D D D D	CONCRETE	
-1-		0.0	dry to slight	FILL		fine to medium SAND, some fine to medium gravel, silt, trace coal, (5YR 5/3) reddish brown, loose, dry to slightly moist, no odor, no staining.	135-P3C-W45A-0.7-1.2
-2 3 	5		moist				135-P3C-W45A-2.0-2.5
-4 5							135-P3C-W45A-4.0-4.5
		0.0	dry to	FILL		fine to medium SAND, some fine to medium gravel, silt, trace coal, (5YR 5/3) reddish brown, loose, dry to slightly	
-6-		0.0	slight moist slightly	FILL		moist, no odor, no staining. fine to medium SAND, some crushed brick, some cinders, (7.5YR 2.5/1) black, loose, slightly moist, no odor, no	135-P3C-W45A-6.0-6.5
-7— - -8—	4	0.0	moist moist	FILL		staining. fine to medium silty SAND, with ash, little wood fragments, silt, (7.5YR 3/1) very dark gray, non plastic, dense, moist, no	
 9				ND		odor, no staining.	135-P3C-W45A-8.0-8.5
-				NR		NO RECOVERY	
-10 -11		0.0	moist	FILL		fine to medium silty SAND, with ash, little wood fragments, silt, (7.5YR 3/1) very dark gray, non plastic, dense, moist, no odor, no staining.	135-P3C-W45A-10.0-10.
 12	5	0.0	dry to slight moist	FILL		fine to medium SAND, some fine to medium gravel, silt, trace coal, (5YR 5/3) reddish brown, loose, dry to slightly moist, no odor, no staining.	135-P3C-W45A-12.0-12.
-13 - -14		0.0	moist	FILL		ASH, some fine sand, little fine to coarse gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	135-P3C-W45A-14.0-14.
- 15		0.0	. ,	-		A011	133-F3C-VV43A-14.0-14.
		0.0	moist	FILL		ASH, some fine sand, little fine to coarse gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	135-P3C-W45A-15.7-16.
 17 	4	0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	135-P3C-W45A-16.2-16.
-18 - -19		0.0	slightly moist		<u> </u>	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with	
20				NR		MM. NO RECOVERY	



Boring ID: 135-X42A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610962.6
Date Started Drilling: 9/9/2015 8:30:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682212.8
Date Finished Drilling: 9/9/2015 9:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 5	1	

Depth	Recovery	PID	Moisture		Graphic		Sample
ange t bgs)	(ft/ft)	(ppm)	Content	USCS	Log	Surface Cover and Thickness:	ID
		0.0		CONCRETE	P & A P A	CONCRETE, (0.8' concrete core recovered, 0.8' of void	
-1-						space).	
-2	1.5	0.0	moist	FILL		CINDERS,with ash,some coal fragments,trace concrete fragments,(10YR 2/2) very dark brown,moist,no odor,iron oxide staining.	135-X42A-1.6-2.1
-3				NR		NO RECOVERY.	135-X42A-2.5-3.0
-4		0.0	moist	FILL		CINDERS, with ash, some coal fragments, trace wood	
-5 -6	3					fragments,trace brick fragments,(5Y 4/1) dark gray,moist,no odor,iron oxide staining.	135-X42A-4.5-5.0
-							135-X42A-6.5-7.0
-7				NR		NO RECOVERY.	
-8 -9	4	0.0	slightly moist	FILL		fine to medium SAND,some cinders,some fine to coarse gravel,trace brick fragments,(10YR 4/3) brown,slightly moist,no odor,no staining, DTW @ 10.0'.	135-X42A-8.5-9.0
-10 — -11 — -12	7						135-X42A-10.5-11.0
-13 -14	3	0.0	wet	FILL		fine to medium SAND,with fine to medium gravel,some cinders,trace wood fragments,(7.5YR 3/1) very dark gray,wet,no odor,no staining.	135-X42A-12.5-13.0
' -							135-X42A-14.5-15.0
-15				NR		NO RECOVERY.	100 7427 14.0 10.0
16		0.0	wet	FILL		SILT, and fine sands,some coarse gravel,trace organic	135-X42A-16.3-16.8
-17		0.0	moist	PT	<u> </u>	material,(2.5YR 6/1) reddish gray,wet,slight organic odor,no staining.	135-X42A-16.8-17.3
_ -18 _ _	4					PEAT (degraded vegetated material), (80% organic fibers, 20% organic silts),(10YR 3/3) dark brown,non plastic stiff,moist,moderate organic odor,no staining. Soils consistent with MM.	
-19					<u> </u>		
20					V 7/V 7		



Boring ID: 135-Y42A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:610991.6Date Started Drilling:9/9/2015 8:20:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682207Date Finished Drilling:9/9/2015 11:50:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10.0Physical Location:Former Narula Property - Bld 51

Physic	al Location	n: For	mer Narul	a Property - I	Bld 51	(News)	hara a halani ananad anafara)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	bgs = below ground surface) Sample ID
 1		0.0		CONCRETE		CONCRETE, (.75' concrete core recovered, 0.6' of void space).	
 -2	1.7	0.0	slightly moist	FILL		CINDERS,some ash,little coal fragments,trace wood fragments,(7.5YR 2.5/1) black,loose, slightly moist, no odor,iron oxide staining.	135-Y42A-1.3-1.8 135-Y42A-2.5-3.0
-3				NR		NO RECOVERY.	100-1427-2.0-0.0
4 5 6	3	0.0	slightly moist	FILL		CINDERS,some ash,little coal fragments,(brick @ 5.1-5.6), (7.5YR 2.5/1) black,loose,slightly moist,no odor,iron oxide staining.	135-Y42A-4.5-5.0
-7				NR		NO RECOVERY.	135-Y42A-6.5-7.0
-8 -9 -10	4	0.0	moist	FILL		ASH, and fine to medium gravel, some cinders, little wood fragments, (7.5YR 5/1) gray, loose, moist to wet, no odor, no staining, DTW @ 10.0'.	135-Y42A-8.5-9.0
11 12							135-Y42A-10.5-11.0
-13		0.0	moist	FILL		fine to medium SAND,some fine to medium gravel, little brick fragments,(7.5YR 5/1) gray,loose,moist,no odor,no staining.	135-Y42A-12.5-13.0
-14	4	0.0	moist	FILL		SILT, and fine sand, some organics, (brown silt with organics @ 13.0-13.7) trace fine gravel, (2.5YR 5/1) reddish gray, soft, moist, no odor, no staining.	
 15 -							135-Y42A-14.5-15.0
-16		0.0	moist	FILL		SILT, and fine sand,some organics,trace fine gravel,	135-Y42A-16.0-16.5
_ -17		1.2	moist	OL		(2.5YR 5/1) reddish gray,soft,moist,no odor,no staining. UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR 4/2) dark grayish brown,soft,moist,slight organic	135-Y42A-16.5-17.0
 _18	2.5	2.6	moist	PT	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	odor,no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/3) dark brown,	
-19 -20				NR		stiff,moist,moderate organic odor,no staining. Soils consistent with MM. NO RECOVERY.	

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: ASM-T47AR2

732.564.3200 office telephone

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610791.3 Date Started Drilling: 9/26/2016 9:30:00 AM Coordinates (NJSPNAD83) y: 682115.7 Rig Type: Date Finished Drilling: 9/26/2016 10:30:00 AM Core Size: 3.0 in Boring Total Depth: 15 ft Project Manager: Scott Mikaelian Depth to Water: 8.5 Logged By: ES Physical Location: ACTUAL - Smith Supplemental PDI Surface Elevation: 14.0 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range Content ΙĎ (ft/ft) (ppm) Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-T47AR2-1.0-1.5 moist FILL fine to coarse SAND, (7.5YR 6/4) light brown, medium dense, moist, no odor, no staining. CONCRETE Concrete slab dry **FILL** fine to medium SAND, some fine to medium gravel, (5Y 5/1) 3.5 gray, medium dense, dry, no odor, no staining. ASM-T47AR2-3.0-3.5 fine to medium SAND, some ash, trace fine gravel, (5YR drv **FILL** 4/4) reddish brown, medium dense, dry, no odor, no NR staining NO RECOVERY ASM-T47AR2-5.0-5.5 fine to medium SAND, little fill debris, trace silt, (2.5Y 4/2) 0.0 dry **FILL** dark grayish brown, medium dense, dry, no odor, no wet **FILL** staining. fine silty SAND, little fine gravel, trace ash, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining. ASM-T47AR2-7.0-7.5 FILL CINDERS, some silty sand, trace fill debris, (5YR 2.5/1) wet 5 black, loose, wet, no odor, no staining, water at 8.5 feet. ASM-T47AR2-9.0-9.5 **FILL** fine to medium SAND, trace ash, (7.5YR 4/3) brown, wet medium dense, wet, no odor, no staining. 0.0 ASH, some fine sand, (5Y 5/1) gray, loose, wet, no odor, no FILL wet staining. ASM-T47AR2-11.0-11.5 12 4.5 **FILL** fine silty SAND, some fine gravel, (5YR 4/3) reddish brown, wet 13 medium dense, wet, no odor, no staining. ASM-T47AR2-13.0-13.5 ASM-T47AR2-13.5-14.0 PT PEAT (degraded vegetated material), 80% organic fibers, dry 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, 1, 11, 1 slight organic odor, no staining. Soils consistent with MM. NR NO RECOVERY 15

2012-09 RA PPG LOGS A.GDT - 11/16/16 09:31

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade MM - meadow mat

MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: ASM-T48AR2

Project	Name: F	60240	739			Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	
				9:00:00 AM		Rig Type: 420 Geoprobe	Coordinates (NJSPN	
		illing:	11/4/2016	8:30:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	IBy: ES					Project Manager: Scott Mikaelian	Depth to Water: 6.0	
hysic	al Locatio	n: Act	ual - Smith	PDI		<u> </u>	Surface Elevation:	10.1 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	ess:	Sample ID
		0.0		CONCRETE	P & 4	Concrete slab		
-1 - -2	5		dry	FILL		fine to medium SAND, little ash, (7.5YR 2 brown, medium dense, dry, no odor, no st		
-3 -4 -			dry	FILL		ASH, little fine to medium sand, (5Y 5/1) odor, no staining.	gray, loose, dry, no	
-5— - -6—		0.0	wet	FILL		fine to medium SAND, little ash, (7.5YR 3 medium dense, wet, no odor, no staining,	3/3) dark brown, water at 6.0 feet.	
-7 -8 -9	4		wet	FILL		ASH, little fill debris, (5Y 4/1) dark gray, lono staining.	oose, wet, no odor,	
_				NR		NO RECOVERY		
-10 — -11— -12—	4	0.0	wet	FILL		ASH, little fill debris, (5Y 4/1) dark gray, lo no staining.	oose, wet, no odor,	ASM-T48AR2-12.0-12.5
- -13	4		wet	SP		fine to medium SAND, some fine gravel, brown, medium dense, wet, no odor, no sconsistent with UNDno.		ASM-T48AR2-12.5-13.0
_ -14 			slightly moist	PT	1 11/2 (1)	PEAT (degraded vegetated material), 80%	prown, stiff, slightly	
15			wet	OL		MM. Organic SILT, 80% organic silt, 20% orga 4/3) brown, soft, wet, no odor, no staining with UNDorg.	nic fibers, (7.5YR	
<u>1M - me</u>	adow mat		GGM - gree	n grey mud		esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	sits CCPW - chr	factured gas plant omate chemical production wa

Boring ID: ASM-T49AR

roject	t Number:		1730			Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (N ISD	NAD83) x: 610775.8	
				8:55:00 AM		Rig Type:		NAD83) x: 610775.8 NAD83) y: 682082.6	
				8:55:00 AIVI 6 9:30:00 AM		Core Size: 3.0 in	Boring Total Depth:		
	inisnea Dr d By : ES	ming:	312112010	J.JU.UU AIVI		Project Manager: Scott Mikaelian	Depth to Water: 9.		
		n· ΔC	TIIAI - Sm	ith Supplemer			Surface Elevation:		
-	ui LUCALIO	ii. AC	10AL - 311	nur Supplemel	ıtal PDI	1	Juliace Elevation:	IT. I ILIVAVDOO	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	iness:	Sample ID	
		0.0		CONCRETE		Concrete floor slab			
-1			dry	FILL		fine to coarse SAND, some fine to mediconcrete, (7.5YR 6/3) light brown, dry, r		ASM-T49AR-0.5-1.0	
-2 - -3	4		dry	FILL		fine SAND, little fill debris, (5YR 4/4) red dense, dry, no odor, no staining.	ddish brown, medium	ASM-T49AR-1.5-2.0	
-4- -				FILL		NO RECOVERY		ASM-T49AR-3.5-4.0	
-5									
5		0.0	dry	FILL	XXX	fine to medium SAND, some fine gravel			
-6			moist	FILL		brown, medium dense, dry. no odor, no CINDERS and ASH, (5Y 3/1) very dark no odor, no staining.		ASM-T49AR-5.5-6.0	
-7— —	5		moist	FILL		ASH, some cinders, little fine sand, (5Yf brown, loose, moist, no odor, no staining			
-8]				XXX			ASM-T49AR-7.5-8.0	
-9—				wet	FILL		ASH, some fine sand, (5Y 5/1) gray, loo staining, water at 9.0 feet.	se, wet, no odor, no	
-1C-			wet	FILL		fine silty SAND, trace ash, (5Y 4/1) dark	gray, medium	ASM-T49AR-9.5-10.0	
10— – 11—		0.0	wet	FILL		dense, wet, no odor, no staining. ASH, some fine sand, (5Y 5/1) gray, loo staining.	se, wet, no odor, no		
_10					\bowtie			ASM-T49AR-11.5-12.0	
12	5		wet	FILL		fine silty SAND, little fine gravel, trace a	sh, (5YR 4/4)		
	1				XXX	reddish brown, medium dense, wet, no o	odor, no staining.	ASM-T49AR-12.5-13.0	
13 -			dry	PT	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	TEAT (degraded vegetated material), od	brown, stiff, dry, no	ASM-T49AR-13.0-13.5	
14 -			moist	OL		Organic SILT, 90% organic silt, 10% organic 4/3) brown, soft, moist, slight organic od	ganic fibers, (7.5YR	1	
15						consistent with UNDorg.			
	low surface				essing re	esidue UNDno - non-organic undisturbed native	deposits MGP - man	ufactured gas plant romate chemical production wa	
ıvı - me	eadow mat		ususivi - aree	n grey mud		UNDorg - organic undisturbed native dep	osiis – CCPW - ch	romate chemical production wa	

Boring ID: ASM-U46A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Project Number: 60240739 Coordinates (NJSPNAD83) x: 610827.6 Drilling Method: Direct Push Date Started Drilling: 8/15/2016 11:00:00 AM Coordinates (NJSPNAD83) y: 682145.4 Rig Type: Date Finished Drilling: 8/15/2016 12:00:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft Project Manager: Scott Mikaelian Depth to Water: 8.0 Logged By: ES Physical Location: Actual - Smith PDI Surface Elevation: 14.1 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-U46A-1.0-1.5 FILL fine to medium SAND, some fine to coarse gravel, (5YR 5/3) dry reddish brown, medium dense, dry to moist, no odor, no moist staining. 3.5 ASM-U46A-3.0-3.5 NR NO RECOVERY ASM-U46A-5.0-5.5 dry 0.0 **FILL** fine to medium SAND, some ash, little fine gravel, (7.5YR 5/2) brown, medium dense, dry to moist, no odor, no to moist staining. ASM-U46A-6.0-6.5 3.5 ASM-U46A-8.0-8.5 **FILL** fine to coarse SAND, some ash, little wood, (5YR 4/1) dark saturated gray, medium dense, saturated, no odor, no staining, water NR at 8.0 feet NO RECOVERY 10 ASM-U46A-10 0-10 5 0.0 FILL saturated fine to coarse SAND, some fine to medium gravel, trace ash, (5YR 6/1) gray, medium dense, saturated, no odor, no saturated **FILL** fine to medium SAND, little fine to medium gravel, trace ash, (5YR 6/4) light reddish brown, medium dense, saturated, no odor, no staining. 12 ASM-U46A-12.0-12.5 4.5 13 saturated FILL ASH, some fine sand, little fill debris, (2.5Y 5/2) grayish brown, medium dense, saturated, no odor, no staining. ASM-U46A-14.0-14.5 NO RECOVERY NR 0.0 CINDERS, little ash, (5YR 6/1) gray, loose, saturated, no FILL saturated odor, no staining. 16 ASM-U46A-16.0-16.5 FILL fine to medium silty SAND, little fine to medium gravel, trace saturated 5 wood and organics, (5YR 5/3) reddish brown, medium dense, saturated, no odor, no staining. ASM-U46A-18.0-18.5 ASM-U46A-18.5-19.0 19 ASM-U46A-19.0-19.5 PT PEAT (degraded vegetated material), 80% organic fibers, dry 20% organic silt, (5YR 3/2) dark reddish brown, dry, 1, 11, moderate organic odor, no staining. Soils consistent with 20 MM. Notes:

A.GDT - 11/16/16 09:

2012-09 RA PPG LOGS

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade MM - meadow mat

MGP - manufactured gas plant CCPW - chromate chemical production waste

nts: 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.

A E C O M

Boring ID: ASM-U47A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Coordinates (NJSPNAD83) x: 610812.1 Project Number: 60240739 Drilling Method: Direct Push Date Started Drilling: 8/11/2016 11:30:00 AM Coordinates (NJSPNAD83) y: 682118.5 Rig Type: Date Finished Drilling: 8/11/2016 12:40:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: HBB Project Manager: Scott Mikaelian Depth to Water: 8.5 Physical Location: Actual - Smith PDI Surface Elevation: 14.2 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE Concrete floor slab CONCRETE Concrete and brick fill debris 4.5 ASM-U47A-2.5-3.0 FILL wet medium to coarse SAND, trace fine to medium gravel, (7.5YR 4/3) brown, loose, wet, no odor, no staining. wet **FILL** fine to coarse GRAVEL, little fine to coarse sand, trace fill **FILL** moist debris, (7.5YR 3/4) dark brown, loose, wet, no odor, no ASM-U47A-4.0-4.5 FILL SILT, (2.5Y 6/3) light yellowish brown, medium dense, NR moist, no odor, no staining.
fine silty SAND, little fine to medium gravel, (5YR 4/3) 0.0 wet FILL reddish brown, medium dense, no odor, no staining. NO RECOVERY ASM-U47A-6.0-6.5 SILT, trace fine to medium sand and gravel, (5YR 4/3) reddish brown, medium stiff, wet, no odor, no staining. FILL CINDERS, some ash, (5Y 5/1) gray, loose, saturated, no saturated 4 odor, no staining, water at 8.5 feet. ASM-U47A-8.0-8.5 NR NO RECOVERY ASM-U47A-10 0-10 5 0.0 FILL CINDERS, trace ash and fill debris, (5Y 5/1) gray, loose, saturated saturated, no odor, no staining. 12 ASM-U47A-12.0-12.5 4.5 13 ASM-U47A-14.0-14.5 NR NO RECOVERY 0.0 FILL CINDERS, trace fill debris, (5Y 5/1) gray, loose, saturated, saturated no odor, no staining. 16 ASM-U47A-16.0-16.5 saturated **FILL** fine silty SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no ASM-U47A-16.5-17.0 staining. PT ASM-U47A-17.0-17.5 PEAT (degraded vegetated material), 90% organic fibers dry 3.5 10% organic silt, (5YR 3/3) dark reddish brown, dry, slight 12 V1 V organic odor, no staining. Soils consistent with MM. 11, 11, NR NO RECOVERY 19 20

Notes

A.GDT - 11/16/16 09:

2012-09 RA PPG LOGS

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-U49AR

Project	t Name: F t Number:	60240	739			Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	NAD83) x: 610789.1
				8:00:00 AM 6 8:50:00 AM		Rig Type: Core Size: 3.0 in	Coordinates (NJSPN Boring Total Depth:	
	d By: ES					Project Manager: Scott Mikaelian	Depth to Water: 9.0	
Pnysica Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	uith Suppleme	Graphic Log		Surface Elevation:	Sample ID
t bgs)		0.0		CONCRETE		Concrete floor slab		
_ _1			dry	FILL		fine to coarse SAND, little fine to medium 6/4) light brown, medium dense, dry, no o		ASM-U49AR-0.7-1.2
-2- -				CONCRETE		Concrete slab		ASM-U49AR-2.0-2.5
-3 -4	5		dry	FILL		fine to medium SAND, little cinders, trace 4/4) reddish brown, medium dense, dry, r staining.		ASM-U49AR-4.0-4.5
-5 		0.0	wet	FILL		fine to medium SAND, some ash, (5YR 4 medium dense, wet, no odor, no staining.		
-6 -7 -	5		moist	FILL		ASH and CINDERS, (2.5Y 3/1) very dark no odor, no staining.		ASM-U49AR-6.0-6.5
-8- - -9			wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, r 9.0 feet.	no staining, water at	ASM-U49AR-8.0-8.5
-10 - -11		0.0	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, r	no staining.	ASM-U49AR-10.0-10.5
-12	5		wet	FILL		fine silty SAND, little fine gravel, trace me 6/3) light reddish brown, medium dense, staining.		ASM-U49AR-12.0-12.5
13			dry moist	PT OL	<u> </u>	PEAT (degraded vegetated material), 80% 20% organic silt, (5YR 3/3) dark reddish		ASM-U49AR-12.5-13.0 ASM-U49AR-13.0-13.5
-14 			wet	ML		moderate organic odor, no staining. Soils MM. Organic SILT, 80% organic silt, 20% orga 4/3) brown, soft, moist, slight organic odd consistent with UNDorg.	consistent with	
-15 <u>-</u>						SILT, (7.5YR 4/3) brown, soft, wet ,no od Soils consistent with UNDno.	or, no staining.	
ĬM - me	eadow mat		GGM - gree	n grey mud		esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring	sits CCPW - chr	ufactured gas plant omate chemical production wa

Boring ID: ASM-V41AR

Project	Name: F	60240	739			Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	
				10:00:00 AM		Rig Type: Geoprobe	Coordinates (NJSPN	
		illing:	11/4/2016	9:30:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	d By: ES					Project Manager: Scott Mikaelian	Depth to Water: 4.0	
hysic	al Locatio	n: Act	ual - Smith	PDI	1	+	Surface Elevation:	10.5 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickn	ess:	Sample ID
-1 -1	5	307	dry	FILL		fine to medium SAND, some ash, (7.5YR medium dense, dry, moderate fuel oil-like		
-3 -4 -			dry to wet	FILL		ASH, some fine to medium sand, (5Y 5/1) wet, moderate fuel oil like-odor and stainir feet.		
-5 -6 -7	. 5	58	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, slight fuel staining.	oil-like odor and	
-8 -9 -			wet	FILL		fine to medium SAND, some ash, little silt brown, medium dense, wet, no odor, no s		ASM-V41AR-8.0-8.5
-10 - -11		2.0	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, n	no staining	ASM-V41AR-10.0-10.5
-12 -	4.5		WCt	1122		7.67 (67 6.7) gray, 16666, well, 116 6661, 11	o otaliing.	ASM-V41AR-12.0-12.5
-13					\bowtie			ASM-V41AR-13.0-13.5
 -14 			dry	PT NR	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	TEAT (degraded vegetated material), 00 /	prown, stiff, dry,	ASM-V41AR-13.5-14.0
- 15								
<u>1M - me</u>	eadow mat		GGM - gree	n grey mud		esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring	sits CCPW - chr	offactured gas plant omate chemical production wa

Boring ID: ASM-V42AR2

Project	Number:	60240	739			Drilling Method: Direct Push	Coordinates (NJSP	NAD83) x: 610908.7	
				9:45:00 AM		Rig Type:	Coordinates (NJSPI		
				3 11:00:00 AM		Core Size: 2.0 in	Boring Total Depth:		
	By: ES	iiiiig.	3/2//2010	3 11.00.00 AIV		Project Manager: Scott Mikaelian	Depth to Water: 9.		
2byoio	allocatio	n. ΛC.	TIIAI Cm	ith Suppleme	atal DDI	Froject Manager. Scott Mikacilan	Surface Elevation:		
TilySic	ai Locatio	II. AC	10AL - 311	itti Suppleme	ilai FDI		Surface Elevation.	14.4 IL NAVD00	
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickr	ness:	Sample ID	
		0.0		CONCRETE	P 1 4	Concrete floor slab			
\vdash				NR	AND THE	VOID SPACE		-	
-1-	1			INIX		VOID SPACE			
			dry	FILL	\bowtie	fine to coarse GRAVEL and concrete, (5)	Y 5/1) gray, loose,		
-2-		0.0	dry	FILL		dry, no odor, no staining.		ASM-V42AR2-2.0-2.5	
-3 -4	4		,			fine to medium SAND, little ash, trace fin 6/4) light brown, medium dense, dry, no o		ASM-V42AR2-4.0-4.5	
-			alas s	F.I. I		AOI first 1941 (5)(A/A)	alando anaco con a albona	-	
-5— —			dry	FILL		ASH, some fine sand, little coal, (5Y 4/1) dense, dry, slight fuel oil-like odor, no sta			
-6-		0.3			\bowtie	×		ASM-V42AR2-6.0-6.5	
\dashv		0.0			\bowtie				
-7					\bowtie			4	
			dry	FILL	\bowtie	CINDERS and ASH, (5Y 2.5/2) black, loc	ose, dry, no odor, no		
	4				\bowtie	staining.			
-8- -	-				\bowtie	×		ASM-V42AR2-8.0-8.5	
\dashv					\bowtie	X			
-9			,,,,,,1	FILL		ACH some fine to medium and /5\/5\/5) grav lassa ···	-	
_			wet	FILL	\bowtie	ASH, some fine to medium sand, (5Y 5/1 no odor, no staining, water at 9.0 feet.) gray, loose, wet,		
-10					\bowtie	x 110 odor, 110 staining, water at 9.0 feet.			
10		85.5	wet	FILL		fine silty SAND, little fine gravel, (2.5Y 5/	2) grayish brown,	ASM-V42AR2-10.0-10.5	
-11 -						medium dense, wet, moderate fuel oil-like staining.	e odor, product		
-12	4							ASM-V42AR2-12.0-12.5	
-13 -			wet	FILL		fine silty SAND, little fill debris, trace fine brown, medium dense, wet, no odor, no s			
-14		0.0			\bowtie			ASM-V42AR2-14.0-14.5	
+		0.0	,,,,,,1	FILL		fine city CAND little fine are all traces are	ood (2 EVD 4/2)	-	
-15			wet	FILL	\bowtie	fine silty SAND, little fine gravel, trace wo weak red, medium dense, wet, no odor, r	ou, (∠.51K 4/∠) no staining	ACM V/40ADO 45 0 45 5	
								ASM-V42AR2-15.0-15.5	
-16	4		dry	PT	<u> </u>	20% organic silt, (5YR 3/3) dark reddish	brown, stiff, dry,	ASM-V42AR2-15.5-16.0	
_17					<u> </u>				
.,					<u> </u>				
,, 7					<u> </u>	:			
-18						1			
otos:								<u> </u>	
otes: as - bel	low surface	grade	COPR - chr	omite ore proc	essina re	esidue UNDno - non-organic undisturbed native d	eposits MGP - man	ufactured gas plant	
ĬM - me	adow mat			en grey mud		UNDorg - organic undisturbed native depo ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring		romate chemical production w	

Boring ID: ASM-V45A

Project	Number:	60240	1739			Drilling Method: Direct Push	Coordinates (NJSPI	NAD83) X: 610866.1
				7:35:00 AM		Rig Type:		IAD83) y: 682158.7
				9:00:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	By: ES					Project Manager: Scott Mikaelian	Depth to Water: 8.0	
		n: Act	ual - Smith	PDI			Surface Elevation:	
Depth			-					
Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thick	iness:	Sample ID
		0.0		CONCRETE		Concrete floor slab		
-1			dry	FILL		fine to medium SAND, some fine gravel	trace cinders (5YR	ASM-V45A-1.0-1.5
-2- -	3.5		u, y	1122		4/4) reddish brown, medium dense, dry, staining.		
-3-								ASM-V45A-3.0-3.5
-4				NR		NO RECOVERY		
-5-		0.0	moist	FILL		fine to coarse SAND, some cinders, little		ASM-V45A-5.0-5.5
-6 -						dark grayish brown, medium dense, moi staining.	si, no odor, no	
-7	5		dry	FILL		ASH, little fill debris, trace coal, (2.5Y 4/dry, no odor, no staining.	1) dark gray, loose,	ASM-V45A-7.0-7.5
-8			wet	FILL		fine to coarse SAND, some ash, little fill dark grayish brown, medium dense, wet		-
-9						staining, water at 8.0 feet.		ASM-V45A-9.0-9.5
10		0.0	saturated	FILL		fine to coarse SAND, some fill debris, to dark gray, medium dense, saturated, no		
11			wet	FILL		fine silty SAND, little fine gravel and fill or reddish brown, medium dense, wet, no		ASM-V45A-11.0-11.5
13	5							ASM-V45A-13.0-13.5
-14			wet	FILL		ASH, some fine to medium sand, little figray, loose, wet, no odor, no staining.	II debris, (5Y 5/1)	ASM-V49A-13.0-13.5
						gray, loose, wet, no odor, no staining.		
15 — — 16 —		5.2	wet	FILL		fine to coarse gravelly SAND, little ash, 4/1) dark gray, medium dense, wet, no o		ASM-V45A-15.0-15.5
17 -	5		wet	FILL		fine silty SAND, little fine gravel, trace fine reddish brown, medium dense, wet, no		ASM-V45A-17.0-17.5 ASM-V45A-17.5-18.0
18			slightly moist	OL	 	Organic SILT, 75% organic silt, 25% org	ganic fibers, (7.5YR	ASM-V45A-18.0-18.5
19			moist 4/2) brown, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.		Jan 3 0001, 110			
20								
otes:								
s - bel	ow surface adow mat			omite ore proce n grey mud	essing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep		ufactured gas plant romate chemical production v

Boring ID: ASM-V47A

Project						Drilling Mothods Direct Duch	Coordinates (NICE	NA D03) v. 610000
	Number:			10.10.00 ***		Drilling Method: Direct Push	Coordinates (NJSP	
				10:40:00 AM		Rig Type:	Coordinates (NJSPN	
			8/15/2016	<u> </u>		Core Size: 3.0 in	Boring Total Depth:	
	By: HBE			DDI		Project Manager: Scott Mikaelian	Depth to Water: 7.	
nysica	a Locatio	n: Act	ual - Smith	וטץ			Surface Elevation:	14.4 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	ness:	Sample ID
		0.0		CONCRETE	P & 4	Concrete floor slab		
1			moist	FILL		fine to coarse SAND, little fine to coarse		ASM-V47A-0.6-1.1
' ₋			moist	FILL		light brown, loose, moist, no odor, no sta fine silty SAND, little fine to medium gra	aining. vel. trace ash.	1
-2 - -3	4.5			(7.5YR 5/3) brown, medium dense, moist, no odor, no staining.		ASM-V47A-2.0-2.5		
-4			moist	FILL		SILT, trace fine sand and fine to mediun reddish brown, medium dense, moist, no		ASM-V47A-4.0-4.5
_ 7				NR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NO RECOVERY		
-6		0.0	moist to wet	FILL		SILT, trace fine sand and fine to mediun reddish brown, medium dense, moist, no		ACM VATA C O C E
-7- -8-	4		wet	FILL		ASH, little cinders, (7.5YR 4/2) brown, n no odor, no staining, water at 7.5 feet.	nedium dense, wet,	ASM-V47A-6.0-6.5 ASM-V47A-8.0-8.5
-9				NR		NO RECOVERY		_
10 -		0.0	saturated	FILL		ASH, some fine to medium sand, trace f gray, loose, saturated, no odor, no staini		ASM-V47A-10.0-10.5
-12 — - -13 — -	5		saturated	FILL		ASH, little fine to medium gravel, trace fi gray, loose, saturated, no odor, no staini		ASM-V47A-12.0-12.5
-14 - - -15 -		0.0						ASM-V47A-14.0-14.5
-16 			saturated	FILL		fine to medium silty SAND, (5YR 4/3) re	ddish brown.	ASM-V47A-16.0-16.5
-17	4				\ggg	medium dense, saturated, no odor, no s	taining.	ASM-V47A-17.0-17.5
-18 	*		dry	PT		25% organic silt, (2.5YR 2.5/3) dark red moderate organic odor, no staining. Soil:	dish brown, dry,	ASM-V47A-17.5-18.0
-19				NR	<u> </u>	MM. NO RECOVERY		-
20								
					essing re	esidue UNDno - non-organic undisturbed native		ufactured gas plant
M - mea	adow mat	_	GGM - gree	en grey mud		UNDorg - organic undisturbed native deprift thick 3) No CCPW (COPR or GGM) present in any interval of this bori	osits CCPW - ch	romate chemical production wa

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: ASM-V48A

732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Project Number: 60240739 Coordinates (NJSPNAD83) x: 610825.6 Drilling Method: Direct Push Date Started Drilling: 8/11/2016 10:15:00 AM Coordinates (NJSPNAD83) y: 682078.2 Rig Type: Date Finished Drilling: 8/11/2016 11:30:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: HBB Project Manager: Scott Mikaelian Depth to Water: 7.5 Surface Elevation: 14.2 ft NAVD88 Physical Location: Actual - Smith PDI Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙD (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-V48A-0.5-1.0 FILL medium to coarse SAND, little fine to medium gravel, (7.5YR moist 4/2) brown, loose, moist, no odor, no staining. FILL SILT, little fine to medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. ASM-V48A-2.0-2.5 4.5 ASM-V48A-4.0-4.5 NR NO RECOVERY SILT, little fine to medium gravel, trace ash and fill debris, 0.0 wet **FILL** (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. ASM-V48A-6.0-6.5 3.5 **FILL** CINDERS, little medium to fine sand, trace ash and fill saturated debris, (7.5YR 4/1) dark gray, loose, saturated, no odor, no ASM-V48A-8.0-8.5 staining, water at 7.5 feet. NR ASM-V48A-10 0-10 5 0.0 CINDERS, little fine sand and silt, trace wood, (7.5YR 4/1) FILL saturated dark gray, loose, saturated, no odor, no staining. 12 ASM-V48A-12.0-12.5 4.5 13 ASM-V48A-14.0-14.5 NR NO RECOVERY 6.5 FILL CINDERS, little fine sand and silt, trace wood, (7.5YR 4/1) saturated dark gray, loose, saturated, no odor, no staining ASM-V48A-15 5-16 0 **FILL** saturated fine silty SAND, trace fine to coarse gravel, (5YR 4/3) 16 ASM-V48A-16.0-16.5 dry PT reddish brown, medium dense, saturated, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers OL saturated 20% organic silt, (5YR 3/3) dark reddish brown, dry, slight 5 organic odor, no staining. Soils consistent with MM. Organic SILT, 90% organic silt 10% organic fibers, (5Y 5/1) gray, medium stiff, saturated, slight organic odor, no staining. Soils consistent with UNDno. 19 20 Notes:

2012-09 RA PPG LOGS

A.GDT - 11/16/16 09:

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade MM - meadow mat nts: 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.

MGP - manufactured gas plant CCPW - chromate chemical production waste

AECOM

Boring ID: ASM-V49A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Project Number: 60240739 Coordinates (NJSPNAD83) x: 610812 Drilling Method: Direct Push Date Started Drilling: 8/12/2016 7:45:00 AM Coordinates (NJSPNAD83) y: 682051.5 Rig Type: Date Finished Drilling: 8/12/2016 10:40:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: HBB Project Manager: Scott Mikaelian Depth to Water: 8.0 Surface Elevation: 14.1 ft NAVD88 Physical Location: Actual - Smith PDI Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-V49A-0.8-1.3 FILL SILT, little fine to medium gravel, trace coal, (5YR 4/3) moist reddish brown, medium dense, moist, no odor, no staining. ASM-V49A-2.0-2.5 4.5 FILL fine to medium SAND, little fine to medium gravel, (7.5YR moist 4/2) brown, loose, moist, no odor, no staining. **FILL** SILT, trace fine sand, fine to medium gravel and brick, moist (7.5YR 4/2) brown, loose, moist, no odor, no staining. ASM-V49A-4.0-4.5 NR NO RECOVERY 0.0 moist FILL SILT, trace fine sand and fine to medium gravel, (7.5YR 4/2) brown, loose, moist, no odor, no staining. FILL moist ASH, some cinders, trace fill debris, (7.5YR 5/2) brown, to ASM-V49A-6.0-6.5 medium dense, moist to wet, no odor, no staining. wet 3.5 **FILL** CINDERS, trace ash and coal, (5YR 5/1) gray, medium dense, wet, no odor, no staining, water at 8.0 feet. ASM-V49A-8.0-8.5 NO RECOVERY NR ASM-V49A-10 0-10 5 0.0 FILL CINDERS, trace ash and fill debris, (5YR 5/1) gray, medium saturated dense, saturated, no odor, no staining. 12 ASM-V49A-12.0-12.5 4.5 13 fine to medium SAND, some silt, (5Y 5/1) gray, soft, saturated FILL saturated, no odor, no staining. ASM-V49A-14.0-14.5 NO RECOVERY NR ASM-V49A-15.0-15.5 0.0 FILL SILT, trace fine to medium gravel, (7.5YR 4/2) brown, very saturated soft, saturated, no odor, no staining. ASM-V49A-15 5-16 0 OL saturated Organic SILT, 90% organic silt 20% organic fibers, (7.5YR 16 4/2) brown, medium stiff, saturated, no odor, no staining. Soils consistent with UNDorg. 3.5 NR NO RECOVERY 19 20

Notes:

A.GDT - 11/16/16 09:

2012-09 RA PPG LOGS

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud 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.

Project Name: PPG Garfield Ave

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-W44A

Page: 1

		the: PPG Garrield Ave Drilling Company: SGS North Arrienca The PPG Garrield Ave Drilling Company: SGS North Arrienca The PPG Garrield Ave Drilling Company: SGS North Arrienca Coordinates (NJSPNAD83) x: 610906.4 Drilling: 8/16/2016 8:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682171.8											
				6.15.00 AM 6 9:30:00 AM		Core Size: 3.0 in	Boring Total Depth:						
	By: ES	ming.	0/10/2010	7 0.00.00 7 WI		Project Manager: Scott Mikaelian	Depth to Water: 8.0						
	al Locatio	n: Act	ual - Smith	PDI			Surface Elevation:						
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thic	kness:	Sample ID					
_		0.0		CONCRETE	, a	Concrete floor slab							
-1— -2— -3—	4		dry to moist	FILL		fine to medium SAND, some fine grave (5YR 4/3) reddish brown, medium dens odor, no staining.		ASM-W44A-1.0-1.5 ASM-W44A-3.0-3.5					
4	-			NR		NO RECOVERY							
5		0.0	dry	FILL		CINDERS, (5YR 2.5/1) black, loose, dr		ASM-W44A-5.0-5.5					
6			moist	FILL		fine to medium SAND, some ash, trace brown, medium dense, moist, no odor,	no staining.	ASM-W44A-6.0-6.5					
7— - 8—	3.5		moist to saturated	FILL		ASH, some fine sand, trace fine gravel, moist to saturated, no odor, no staining		ASM-W44A-8.0-8.5					
9 				NR		NO RECOVERY							
10 <u> </u>		0.0	saturated	FILL		ASH, some fine sand, (5YR 5/1) gray, odor, no staining.	oose, saturated, no	ASM-W44A-10.0-10.5					
12 <u> </u>	4.5							saturated	FILL		fine to medium SAND, little ash, trace f brown, medium dense, saturated, no or		ASM-W44A-12.0-12.5
13 <u> </u>											saturated	ASH, some fine to medium sand, little cinders, trace debris, (5Y 4/1) dark gray, loose, saturated, no odor staining.	cinders, trace fill ated, no odor, no
- 15		0.0		NR	****	NO RECOVERY	2.543						
16—		0.0	saturated	FILL		fine gravelly SAND, little fill debris, (5Yl dense, saturated, no odor, no staining.	≺ 5/1) gray, medium	ASM-W44A-16.0-16.5					
- 17	5		saturated	FILL		fine silty SAND, little fine gravel, trace a reddish brown, medium dense, saturate staining.		ASM-W44A-17.5-18.0					
18-			wet	OL		Organic SILT, 80% organic silt 20% org		ASM-W44A-18.0-18.5					
19 –						5/4) brown, soft, wet, moderate organic Soils consistent with UNDorg.	odor, no staining.						
20—													
	ow surface		COPR - chr GGM - gree		essing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de		lactured gas plant comate chemical production v					

Drilling Company: SGS North America

732.564.3200 office telephone

Boring ID: ASM-W46A

30 Knightsbridge Road, Piscataway, NJ 08854

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Project Number: 60240739 Coordinates (NJSPNAD83) x: 610875.6 Drilling Method: Dierct Push Date Started Drilling: 8/15/2016 9:30:00 AM Coordinates (NJSPNAD83) y: 682126.1 Rig Type: Date Finished Drilling: 8/15/2016 10:30:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: ES Project Manager: Scott Mikaelian Depth to Water: 8.0 Physical Location: Actual - Smith PDI Surface Elevation: 14.1 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-W46A-0.5-1.0 fine to medium SAND, little fine to coarse gravel, trace silt, **FILL** dry (5YR 5/3) reddish brown, medium dense, dry, no odor, no FILL dry CINDERS, trace ash and fine sand, (5Y 2.5/1) black, loose, dry, no odor, no staining. ASM-W46A-2.0-2.5 4.5 fine to medium SAND, little silt, trace fine gravel, (5YR 4/3) FILL moist reddish brown, medium dense, moist, no odor, no staining. ASM-W46A-4.0-4.5 NR NO RECOVERY 0.0 **FILL** CINDERS, trace ash, (5YR 2.5/1) black, loose, dry, no odor, dry no staining. ASH, some cinders, little fill debris, (5YR 5/1) gray, loose, ASM-W46A-6.0-6.5 **FILL** moist moist, no odor, no staining. 3.5 **FILL** ASH, little fine to coarse sand, trace fill debris, (5YR 5/1) wet to gray, wet to saturated, no odor, no staining, water at 8.0 feet. ASM-W46A-8.0-8.5 saturated NO RECOVERY NR 10 ASM-W46A-10 0-10 5 0.0 FILL saturated ASH, some fine to medium sand, trace wood, (5YR 4/1) dark gray, saturated, no odor, no staining. **FILL** fine to medium SAND, trace wood and ash, (5YR 4/3) saturated reddish brown, dense, saturated, no odor, no staining. 12 ASM-W46A-12.0-12.5 5 13 ASM-W46A-14.0-14.5 saturated **FILL** ASH, little fine sand, trace fill debris, (5YR 5/1) gray, loose, saturated, no odor, no staining. 0.0 FILL ASH, some fine to medium gravel, trace fill debris, (5YR 5/1) saturated gray, loose, saturated, no odor, no staining. 16 ASM-W46A-16.0-16.5 5 ASM-W46A-17.5-18.0 FILL saturated SILT. little fill debris. trace organics. (7.5YR 4/2) brown, soft. saturated, no odor, no staining. ASM-W46A-18.0-18.5 moist OL Organic SILT, 80% organic silt 20% organic fibers, (7.5YR 5/3) brown, soft, moist, no odor, no staining. Soils consistent 19 with UNDorg. 20 Notes: bgs - below surface grade MM - meadow mat MGP - manufactured gas plant

2012-09 RA PPG LOGS

A.GDT - 11/16/16 09:

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits nts: 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.

CCPW - chromate chemical production waste

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-W47A

	Name: F					Drilling Method: Direct Buch	Coordinates (NI ICD	NAD83) v. 610965 0
	Number:			0.50.00 444		Drilling Method: Direct Push		NAD83) x: 610865.8
				8:50:00 AM		Rig Type:		NAD83) y: 682091.5
			8/11/2016	6 10:10:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	By: HBE		0 '''	DDI		Project Manager: Scott Mikaelian	Depth to Water: 8.	
nysica	u Locatio	n: Act	ual - Smith	PUI			Surface Elevation:	14.0 π ΝΑΥΔ88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickn	ess:	Sample ID
		0.0		CONCRETE	> 14 A	Concrete floor slab.		
-1		CONCRETE				Concrete and brick fill debris.		-
-2 - -3 -	4							
_4				NR		NO RECOVERY		
-5		0.0		CONCRETE	4 4	Concrete and brick fill debris.		ASM-W47A-5.5-6.0
-6- - -7	3.5		moist to wet	FILL		ASH, some cinders, trace fill debris, (7.5) medium dense, moist to wet, no odor, no		ASM-W47A-6.0-6.5
-8-		saturated FILL CINDERS, some fine to coarse sand, (5Y 5/1) gray, loose,			ASM-W47A-8.0-8.5			
-9-		NR saturated, no odor, no staining, water at 8.0 feet. NO RECOVERY				_		
-10					~~~			
-11		0.0	saturated	FILL		fine to medium SAND, little silt, (7.5YR 4/ dense, saturated, no odor, no staining.		ASM-W47A-10.0-10.5
-12	4.5		saturated	FILL		CINDERS, trace ash and fill debris, (7.5Y loose, saturated, no odor, no staining.	'R 4/1) dark gray,	ASM-W47A-12.0-12.5
	4.5							
-14					XXX			ASM-W47A-14.0-14.5
\dashv				NR	××××	NO RECOVERY		1
-15		18.0			(XXX		(D. 4/4). deals	ASM-W47A-15.0-15.5
-16 		10.0	saturated moist	FILL OL		CINDERS, trace ash and fill debris, (7.5Y loose, saturated, no odor, no staining. Organic SILT, 80% organic silt 20% organ gray, medium stiff, moist, no odor, no stai consistent with UNDorg.	nic fibers, (5Y 5/1)	ASM-W47A-15.5-16.0
-17 - -18	3.5					- - - - -		
-19				NR		NO RECOVERY		
20								
	adow mat	_		en grey mud		esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		ufactured gas plant romate chemical production wa

A E C O M

Boring ID: ASM-W48A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610852.3 Date Started Drilling: 8/19/2016 7:48:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682064.8 Date Finished Drilling: 8/19/2016 8:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Project Manager: Scott Mikaelian Depth to Water: 8.0 Logged By: KW Physical Location: Actual - Smith PDI Surface Elevation: 14.0 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range Content ΙĎ (ft/ft) (ppm) Log (ft bgs) 0.0 CONCRETE Concrete sidewalk and gravel sub-base. NR VOID SPACE ASM-W48A-2.0-2.5 **FILL** fine to medium silty SAND, trace fill debris, (5YR 4/3) dry reddish brown, loose, dry, no odor, no staining. ASM-W48A-4.0-4.5 0.0 **FILL** ASH, little cinders, trace fill debris, (7.5YR 4/3) brown, loose, dry dry to moist, no odor, no staining. to moist ASM-W48A-6.0-6.5 5 **FILL** ASH, some cinders, little fill debris, (5YR 6/1) gray, loose, moist to moist to saturated, no odor, no staining, water at 8.0 feet. ASM-W48A-8.0-8.5 saturated ASM-W48A-10 0-10 5 0.0 FILL ASH, some cinders, little fill debris, (5YR 6/1) gray, loose, saturated saturated, no odor, no staining. 12 ASM-W48A-12.0-12.5 5 13 ASM-W48A-14.0-14.5 saturated **FILL** fine sandy SILT, little fine gravel, trace organics, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining 0.0 FILL saturated fine sandy SILT, little fine gravel, trace organics, (5YR 4/3) ASM-W48A-15 5-16 0 reddish brown, dense, saturated, no odor, no staining. 16 ASM-W48A-16.0-16.5 moist PT PEAT (degraded vegetated material), 60% Organic fibers 40% Organic silt, (5YR 3/3) dark reddish brown, very dense, 1, 11, moist, strong organic odor, no staining. Soils consistent with 11, 11, 5 V VV V 11, 11, 1/ 1/ 1 19 11, 11, 1/ 1/1/ V 20

Notes:

A.GDT - 11/16/16 09:

2012-09 RA PPG LOGS

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: ASM-W49AR

	t Name: _F t Number:		rfield Ave			Drilling Company: SGS North America Drilling Method: DIRECT PUSH	Coordinates (NJSPN	NAD83) v: 610833.1
				9:00:00 AM		Rig Type:	Coordinates (NJSPN	
Date Fi	inished Dr	illing:	9/28/2016	3 10:00:00 AM	1	Core Size: 3.0 in	Boring Total Depth:	
Logged	d By: ES					Project Manager: Scott Mikaelian	Depth to Water: 9.0	
Physic	al Locatio	n: AC	TUAL - Sm	ith Suppleme	ntal PDI	1	Surface Elevation:	14.2 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	ess:	Sample ID
		0.0		CONCRETE	P & 4 P	Concrete floor slab		
_			dry	FILL		fine to coarse SAND, (7.5YR 6/4) light bro	own, medium	ASM-W49AR-0.5-1.0
-1	1			CONCRETE		dense, dry, no odor, no staining. Concrete slab		
	4		dry	FILL		fine to medium SAND, little fine gravel, trace fill debris, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.		ASM-W49AR-1.5-2.0 ASM-W49AR-3.5-4.0
-4- -	-			NR	*****	NO RECOVERY		
-5		0.0	-1	Fu i	XXXXX	ACII limia fire to more firm	- (EVD 4/0) - 1	-
_	-	U.U	dry	FILL	\bowtie	ASH, little fine to medium sand, trace glas reddish gray, loose, dry, no odor, no staini		ASM-W49AR-5.5-6.0
-6 -7 -	5						9	ASM-W49AR-7.5-8.0
-8- -	-		wot	FILL		ACH come fine cond (EV E/1) gray loos	a wat no odor no	
-9	-		wet	FILL	\bowtie	ASH, some fine sand, (5Y 5/1) gray, loose staining, water at 9.0 feet.	e, wet, no odor, no	
		0.0						ASM-W49AR-9.5-10.0
- -12	5							ASM-W49AR-11.5-12.0
-13	_		wet	FILL		fine silty SAND, little coarse gravel, trace	ash and fill dehris	ASM-W49AR-13.0-13.5
-	1		dry	PT	$\underset{\underline{M}}{\times}$	(5YR 4/4) reddish brown, medium dense,	wet, no odor, no	ASM-W49AR-13.5-14.0
-14 - -15			dry		<u> </u>	1 Litt (dogradod vogotatod material), com	prown, stiff, dry,	
	low surface			omite ore procen grey mud	essing re	esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		ufactured gas plant comate chemical production wa
					med to be 1	ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring		

Boring ID: ASM-X43A

Project	torted Date	line: 1	014010040	0.05.00 ^ 4 4		Dig Type:	IAD02) vii 600405 0									
				9:05:00 AM				IAD83) y: 682185.2								
		illing:	8/18/2016	3 12:00:00 PM			Boring Total Depth:									
	IBy: ES						Depth to Water: 9.0									
hysic	al Locatio	n: Act	ual - Smith	PDI		<u> </u>	Surface Elevation:	14.1 ft NAVD88								
Depth Range it bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thicknes	SS:	Sample ID								
_		0.0		CONCRETE		Concrete floor slab										
-1 -2 -3	4		dry FILL fine to medium SAND, some fine gravel, little cinders, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.		ASM-X43A-1.0-1.5 ASM-X43A-3.0-3.5											
						<u> </u>		7.0.11 7.40/1 0.0 0.0								
.			dry	FILL	\bowtie	CINDERS, some fine gravel, (5YR 2.5/1) b	lack, loose, dry,									
-4				NR		no odor, no staining. NO RECOVERY										
-5— - -6—		0.0	dry to moist	FILL		fine to coarse SAND, some fill debris, little gravel, (2.5Y 5/2) grayish brown, medium d moist, no odor, no staining.		ASM-X43A-5.0-5.5								
-7-	5							ASM-X43A-7.0-7.5								
-8- - - -9			moist to wet	FILL		ASH, some fine to medium sand, (5Y 5/1) to wet, no odor, no staining, water at 9.0 fe	gray, loose, moist et.	ASM-X43A-9.0-9.5								
_ -10								AGM-A40A-0.0-0.3								
-		0.0	brown, medium dense, wet, no odor, no staining.													
-11										-	wet	FILL		fine to medium silty SAND, some ash, (5YF brown, medium dense, wet, no odor, no sta	R 4/3) reddish aining.	ASM-X43A-11.0-11.5
-12 -	5		wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, no	staining.									
-13 - -14 -								ASM-X43A-13.0-13.5								
-15		8.0	wet	FILL		fine silty SAND, little fine gravel, (5YR 4/3)	reddish brown	ASM-X43A-15.0-15.5								
-16						medium dense, wet, no odor, no staining.		ASM-X43A-15.5-16.0								
-10 — - -17—	5		dry	PT		20% organic silt, (5YR 3/3) dark reddish bri stiff, dry, slight organic odor, no staining. So with MM.	own, medium	ASM-X43A-16.0-16.5								
18			slightly moist	OL		Organic SILT, 80% organic silt, 20% organic 4/2) brown, soft, slightly moist, moderate or staining. Soils consistent with UNDorg.	ic fibers, (7.5YR rganic odor, no									
-19						staining. Sons consistent with oneony.										
20						=										
	low surface			romite ore proce	essing re	esidue UNDno - non-organic undisturbed native dep UNDorg - organic undisturbed native deposit	oosits MGP - manu	ufactured gas plant								

Boring ID: ASM-X44A

	Name: F					Drilling Company: SGS North America Drilling Method: direct push	Coordinates (NICD	NAD83) x: 610933.1		
				10.00.00 AM			-	<u> </u>		
				10:00:00 AM		Rig Type:	· · · · · · · · · · · · · · · · · · ·	NAD83) y: 682158.4		
		illing:	8/17/2016	3 11:20:00 AM		Core Size: 3.0 in	Boring Total Depth:			
	IBy: ES					Project Manager: Scott Mikaelian	Depth to Water: 7.			
Physica	al Locatio	n: Act	ual - Smith	PDI		1	Surface Elevation:	14.0 ft NAVD88		
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphio Log	Surface Cover and Thick	kness:	Sample ID		
-		0.0		CONCRETE		Concrete floor slab				
-1			dry	FILL		fine to medium SAND, little fine gravel, t	trace coal (7.5YR	ASM-X44A-1.0-1.5		
-2 -3	3.5		dry	FILL		3/3) dark brown, medium dense, dry, no fine to medium SAND, little fine gravel, t 3/3) dark reddish brown, medium dense staining.	o odor, no staining. trace fill debris, (5YR	ASM-X44A-3.0-3.5		
-					$\times\!\!\times\!\!\times\!\!\times$			4		
_ 4				CONCRETE	4.4	Concrete slab				
-				NR		NO RECOVERY				
-5-		0.0	dry	FILL		fine to medium SAND, (7.5YR 4/2) brow	vn, medium dense,	ASM-X44A-5.0-5.5		
-6-			moist	FILL		dry, no odor, no staining. ASH, some fine to medium sand, little or gravish brown, loose, moist, no odor, no		ASM-X44A-6.0-6.5		
-7	3.5		wet	FILL		ASH, little fill debris, (5Y 5/1) gray, loose oil-like odor, no staining, light sheen, wa	e, wet, slight fuel	-		
-8-				NR		NO RECOVERY		ASM-X44A-8.0-8.5		
-9 - -10		0.0	wet	FILL	XXX	ASH, some fine to medium sand, little fil	II debris, (5Y 5/1)	ASM-X44A-10.0-10.5		
-11 - -12	4.5	0.0	0.0	0.0				gray, loose, wet, no odor, no staining.		ASM-X44A-12.0-12.5
-13 			moist	FILL		fine silty SAND, little fill debris, trace fine reddish brown, medium dense, moist, no		ASM-X44A-13.5-14.0		
-14			p	6:		· · · · · · · · · · · · · · · · · · ·		ASM-X44A-14.0-14.5		
			slightly	OL		Organic SILT, 80% organic silt, 20% org		AGIVI-A44A-14.U-14.5		
,_			moist	NR		4/2) brown, soft, slightly moist, no odor, consistent with UNDorg.	110 Stalling. SOIIS			
15 — -16 — -17 —	3.5	3.0	dry			NO RECOVERY PEAT (degraded vegetated material), 80 20% organic silt, (5YR 3/3) dark reddish stiff, dry, moderate organic odor, no stai consistent with MM.	brown, medium			
-18	5.5		slightly moist	OL		Organic SILT, 80% organic silt, 20% organic silt				
-19				NR		consistent with UNDorg. NO RECOVERY		1		
					essing re	esidue UNDno - non-organic undisturbed native	deposits MGP - man	ufactured gas plant		
M - me	adow mat		GGM - gree	en grey mud		UNDorg - organic undisturbed native dep	osits CCPW - ch	romate chemical production w		
	1) 3 attempts we	re made to	obtain best recov	ery 2) MM/LIND confin	med to he 1	ft thick 3) No CCPW (COPR or GGM) present in any interval of this bori	ina			

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: ASM-X45A

732.564.3200 office telephone

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610919.5 Date Started Drilling: 8/17/2016 8:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682131.4 Date Finished Drilling: 8/17/2016 9:50:00 AM Core Size: 3.0 in Boring Total Depth: 25 ft Depth to Water: 7.0 Logged By: ES Project Manager: Scott Mikaelian Physical Location: Actual - Smith PDI Surface Elevation: 14.3 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range Content ΙĎ (ft/ft) (ppm) Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-X45A-0.7-1.2 **FILL** fine to coarse SAND, some medium gravel, trace brick, dry (7.5YR 6/3) light brown, medium dense, dry, no odor, no ASM-X45A-2.0-2.5 **FILL** fine to medium SAND, some fine to medium gravel, little dry 4.5 asphalt, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining. CONCRETE Concrete slab **FILL** fine to coarse SAND, little ash, trace coal, (7.5YR 3/3) dark dry to brown, medium dense, dry to moist, no odor, no staining. ASM-X45A-4.0-4.5 moist NR NO RECOVERY 0.0 **FILL** fine to coarse SAND, little ash, trace coal, (7.5YR 3/3) dark dry brown, medium dense, dry to moist, no odor, no staining. to moist ASM-X45A-6.0-6.5 FILL ASH, little coal and fill debris (5Y 5/1) gray, loose, wet, no wet 3.5 odor, no staining, water at 7.0 feet. ASM-X45A-8.0-8.5 NO RECOVERY NR 10 ASM-X45A-10 0-10 5 0.0 FILL ASH, some fine to medium sand, (5Y 5/1) gray, loose, wet, wet no odor, no staining. 12 ASM-X45A-12.0-12.5 **FILL** fine silty SAND, little fine gravel, (5YR 4/3) reddish brown, wet 4.5 medium dense, wet, no odor, no staining. 13 ASM-X45A-14.0-14.5 NR NO RECOVERY 0.0 FILL fine silty SAND, little fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. 16 ASM-X45A-16.0-16.5 5 ASM-X45A-18.0-18.5 19 ASM-X45A-19.5-20.0 ASM-X45A-20.0-20.5 0.0 slightly PT PEAT, 75% organic fibers, 25% organic silt, (5YR 3/2) dark reddish brown, medium stiff, slightly moist, slight organic moist 11/ odor, no staining. Soils consistent with MM. 11/ 11/ 1/ 1/1/ V

Notes:

A.GDT - 11/16/16 09:

RA PPG LOGS

2012-09

UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue GGM - green grey mud

MGP - manufactured gas plant CCPW - chromate chemical production waste

nts: 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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/16/16 09:31

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-X45A

Page: 2

	t Name: F t Number:					Orilling Company: SGS North America Orilling Method: Direct Push	Coordinates (NISDI	NAD83) x: 610919.5
				8:10:00 AM		Rig Type:		IAD83) y: 682131.4
				6 9:50:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	d By: ES	iiiiig.	0/11/2010	9.50.00 AIVI		Project Manager: Scott Mikaelian	Depth to Water: 7.0	
	al Locatio	n: Act	ual Smith	DDI	ļr	Toject Manager. Scott Mikaelian	Surface Elevation:	
_	ai Localio	II. ACI	uai - Siliilii	PDI			Surface Elevation.	14.5 IL NAVD66
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	ness:	Sample ID
 -23 - 	4		moist	OL		Organic SILT, 80% organic silt, 20% orga gray, soft, moist, slight organic odor, no s consistent with UNDorg.	anic fibers, (5Y 5/1) taining. Soils	
24 	1			NR		NO RECOVERY		
25								
Notes:								

MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

A E C O M

A.GDT - 11/16/16 09:

2012-09 RA PPG LOGS

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-X46AR

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610900.4 Date Started Drilling: 9/26/2016 8:20:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682119.8 Date Finished Drilling: 9/26/2016 9:30:00 AM Core Size: 3.0 in Boring Total Depth: 21 ft Depth to Water: 9.0 Logged By: ES Project Manager: Scott Mikaelian Physical Location: ACTUAL - Smith Supplemental PDI Surface Elevation: 14.2 ft NAVD88 Depth PID Recovery Moisture Graphic Sample USCS Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-X46AR-1.5-2.0 FILL fine to medium SAND, some fill debris, (5YR 4/4) reddish dry brown, medium dense, dry, no odor, no staining. **FILL** dry fine to medium SAND, some fill debris, little ash, (2.5Y 4/2) dark grayish brown, medium dense, dry, no odor, no staining. ASM-X46AR-3.5-4.0 NO RECOVERY NR 0.0 CONCRETE Concrete slab ASM-X46AR-5.5-6.0 FILL ASH, some fill debris, (5Y 5/1) gray, loose, dry, no odor, no dry staining. FILL fine to coarse SAND, some ash, little fill debris, (5YR 3/3) moist 5 dark reddish brown, medium dense, moist, no odor, no ASM-X46AR-7.5-8.0 staining. ASH, some fine sand, trace fill debris, (5Y 5/1) gray, loose, wet **FILL** wet, no odor, no staining, water at 9.0 feet. ASM-X46AR-9.5-10.0 0.0 fine to coarse gravelly SAND, (5Y 5/1) gray, medium dense, FILL wet wet, no odor, no staining. **FILL** ASH, little fill debris, trace silt, (5Y 5/1) gray, loose, wet, no wet odor, no staining. ASM-X46AR-11.5-12.0 12 5 **FILL** fine silty SAND, little to trace fine gravel, (5YR 4/4) reddish wet 13 brown, medium dense, wet, no odor, no staining. ASM-X46AR-13.5-14.0 0.0 FILL fine silty SAND, little fine gravel, (5YR 6/3) light reddish wet brown, medium dense, wet, no odor, no staining. ASM-X46AR-15 5-16 0 16 5 ASM-X46AR-17.5-18.0 19 ASM-X46AR-19.0-19.5 ASM-X46AR-19.5-20.0 dry PT PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt, (5YR 4/4) reddish brown, stiff, dry, slight 0.0 1/ 1/1/ 1 1 organic odor, no staining. Soils consistent with MM. 11, 11, -21 Notes: bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste ents: 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.



Boring ID: T46AR/ MW2C-SA

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610803.9
Date Started Drilling: 7/14/2014 2:05:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682154.8
Date Finished Drilling: 7/14/2014 2:25:00 PM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: RK	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Alloy		

Logged By: RK					Proje	ct Manager: Chris Martell	Depth to Water: NA	Α			
Physical Locatio	n: Smi	th Alley					(Note bo	ış = below ground surface)			
Depth Range (ft bgs)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th		Sample ID			
	2.7	moist	3	FILL		fine to coarse SAND, little gravel, little wood, trace glass, (7.5YR 4/3) brown	le ash, cinders, trace n, loose, moist, no	133-MW2C-SA-0.5-1.0			
-1- 2- 3- 	9.4	moist	3	FILL		odor, no staining. ASH, and cinders, little fine to mediu slag, trace gravel, (7.5YR 3/1) very c slight petroleum odor, no staining.	im sand, trace coal dark gray, loose, moist,	133-MW2C-SA-2.5-3.			
4 5	420.0	wet	3	FILL		ASH, and cinders, trace brick, trace (7.5YR 4/1) dark gray, loose, wet, m odor, no staining.	coal slag, trace metals, oderate petroleum	133-MW2C-SA-4.5-5.			