ENCD	FCOM	Client: PPG Industries		NG ID:				
ENSR A	\ECOM	Site: Site 114			114-	114-MW19C		
Start Date:		Project: Site Investigation			Page: 1 of 13			
10/11/2006		Coordinates: X-611263.5 Y-682737.	4		Depth of Bori	ng: 101.20		
End Date:					Geologist: M.	Merdinger		
11/3/2006		Drill Subcontractor: ADI		I == I	Driller:			
Depth (th)	nology	Desc _{libitou}	PID	Blows/6	Sample ID	Sample Parameters		
0_	ASF	PHALT: Asphalt	N/A					
×	X NR:	No Sample						
	Bric	L: Grayish Brown (10YR 5/2) Fill Material (Ash, ck, Slag, Concrete, coarse Sand and Silt, Ceramics, dstones)						
2—	NR:	No Sample						
4- **		L: Light Brownish Gray (10YR 6/2) CLAY, some Silt Gravel, Fill Material (Ash, Brick, Rock Fragments, g)						
- × × × × ×	× med	L: Light Gray (5Y7/2) coarse to medium SAND and dium to fine GRAVEL, some Silt and Wood Chips, pieces, wet.	0.0 ppm	3				
6+	NR:	No Recovery		2				
				3				
× , , , , , , , , , , , , , , , , , , ,	\times \times med	L: Light Gray (5Y7/2) coarse to medium SAND and dium to fine GRAVEL, some Silt and Wood Chips, pieces, trace Clay(-), wet.	0.0 ppm	2				

ENCD AFO	Client: PPG Industries	Client: PPG Industries				
ENSR AEC	Site: Site 114					
Start Date:	Project: Site Investigation			Page: 2 of 13		
10/11/2006	Coordinates: X-611263.5 Y-68273	7.4		Depth of Bor	ing: 101.20	
End Date:	Elevation: 11.78			Geologist: M.	Merdinger	
11/3/2006	Drill Subcontractor: ADI			Driller:		
Depth (th) Litholog	Describtion	PID	Blows/6	Sample ID	Sample Parameters	
8+ ××:			2			
	NR: No Recovery		2			
× × ×	FILL: Light Gray (5Y7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips,	0.0 ppm	1			
10 +	Tile pieces, trace Clay(-), wet. NR: No Recovery		5 5			
			7			
× × ×	FILL: Brown (7.5YR4/2) fine to very fine SAND, some	0.0	4			
12 × ×	Silt, little fine Gravel, trace Clay(-), wet.	ppm	6			
	NR: No Recovery		6			
			4			
× × × × × × × × × × × × × × × × × × ×	FILL: Brown (7.5YR4/2) medium to fine SAND, some Silt, little medium to coarse Gravel, trace Clay, wet.	0.0 ppm	4			
14 —			5			
	NR: No Recovery		7			
			5			
× × × ×	FILL: Brown (7.5YR4/2) medium to fine SAND, some Silt, little medium to coarse Gravel, trace Clay, wet.	0.0 ppm	2			
		1	2			

ENSR AECO	Client: PPG Industries	Client: PPG Industries					
ENSR AECO	Site: Site 114			114-	114-MW19C		
Start Date:	Project: Site Investigation		Page: 3 of 13				
10/11/2006	Coordinates: X-611263.5 Y-68273	7.4		Depth of Boring: 101.20			
End Date:	Elevation: 11.78				Merdinger		
11/3/2006	Drill Subcontractor: ADI		1 == 1	Driller:			
Depth (th) Lithology	Déacub _{tion}	PID	Blows/6	Sample ID	Sample Parameters		
16 + 44	PEAT: PEAT		1				
	NR: No Recovery		1				
-	PEAT: PEAT, Set steel casing at 17.5 ft bgs	0.0 ppm	3				
			2				
18 +			3				
			3				
		0.2 ppm	4				
			3				
20 —			3				
			7				
	SILTY SAND: Gray (Gley1 N5) silty SAND, some Clay, trace Peat, wet.	N/A	4				
	SILTY SAND: Gray (Gley1 N5) silty SAND, some Clay, trace Peat and fine Gravel, wet.		7				
22 +			7				
-X-X-X -X-X-X	CLAY AND SAND: Gray (Gley1 N5) silty SAND and CLAY, some medium Sand, wet.	NI/A	8				
-/-/-/		N/A	6 4				

ENCD AFC	Client: PPG Industries				NG ID:		
ENSR AECO	Site: Site 114			114	114-MW19C		
Start Date:	Project: Site Investigation			Page: 4 of 13			
10/11/2006	Coordinates: X-611263.5 Y-682737	Depth of Bor	ing: 101.20				
End Date:	Elevation: 11.78	Geologist: M.	Merdinger				
11/3/2006	Drill Subcontractor: ADI			Driller:			
Depth (th) Lithology	Déac _{libtion}	PID	Blows/6	Sample ID	Sample Parameters		
24\[-\] -\[-\]		0.0 ppm	5 9 10				
26 —	SAND: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet. NR: No Recovery		21 28				
28 —	SAND: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet.	0.0 ppm	16 19 21				
	SAND AND SILT: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet.	0.0	20				
30 —	NR: No Recovery SAND AND SILT: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet. NR: No Recovery	ppm	11 11 11				
	SAND AND SILT: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-	0.0 ppm	7				

ENICD	ECO14	Client: PPG Indus	tries				NG ID:	
ENSR A	ECOM	Site: Site 114				114-MW19C		
Start Date:		Project: Site Investig	gation			Page: 5 of 13		
10/11/2006		Coordinates: X-611263.	5 Y-682737	7.4		Depth of Bori		
End Date:	End Date: Elevation: 11.78			Geologist: M.	Merdinger			
11/3/2006		Drill Subcontractor: AD				Driller:		
Depth (th)	lology	Descripti	0N	PID	Blows/6	Sample ID	Sample Parameters	
), w	ret.			8			
32 —		TY SAND: Dusk Red (10R 3/3 y(-), wet.	s) silty SAND, trace		11			
	7	J()) #50			11			
1 FFFFF				0.0 ppm	4			
34 + + + + +					8			
					11			
- FFF				0.0 ppm	10			
				ppiii	10			
36 + ====	NR:	: No Recovery			10			
	1414				10			
		TY SAND: Dusk Red (10R 3/3 y(-), wet.	s) silty SAND, trace	0.0 ppm	7			
					5			
38 + + + + + + + + + + + + + + + + + + +					8			
	NR:	: No Recovery			9			
	SIL	TY SAND: Dusk Red (10R 3/3	s) silty SAND, trace	0.0 ppm	4			

ENCD	A FCON	Client: PPG Industries				NG ID:	
ENSR	AECON	Site: Site 114			114	-MW19C	
Start Da	ate:	Project: Site Investigation			Page: 6 of 13	}	
10/11/20	006	Coordinates: X-611263.5 Y-6827	37.4		Depth of Boring: 101.20		
End Dat	te:	Elevation: 11.78			Geologist: M.	Merdinger	
11/3/200		Drill Subcontractor: ADI			Driller:		
Depth (#1)	Lithology	Description	PID	Blows/6'	Sample ID	Sample Parameters	
		lay(-), wet.		4			
40 +				5			
	S	ILTY CLAY: Dark Reddish Brown (5YR 3/3) silty LAY, some very fine Sand, wet.		6			
		R: No Recovery	0.0 ppm	6			
		ILTY CLAY: Dark Reddish Brown (5YR 3/3) silty LAY, some very fine Sand, wet.		5			
42 —				5			
	-/-/-			6			
	- <u></u>		0.0 ppm	5			
44 —	-7-7-7 -7-7-7			6			
44 —	-7-7-7 -7-7-7			6			
	N	R: No Recovery		8			
		ILTY CLAY: Dark Reddish Brown (5YR 3/3) silty LAY, some very fine Sand, wet.	0.0 ppm	8			
46 —	-7-7-			8			
	N	R: No Recovery		8			
	<u></u>	ILTY CLAY: Dark Reddish Brown (5YR 3/3) silty		7			

ENCD	1 4 5 6 6	Client: PPG Industries				ING ID:
ENSR	AECO	Site: Site 114			114	-MW19C
Start Da	ate:	Project: Site Investigation	Project: Site Investigation			
10/11/20	006	Coordinates: X-611263.5 Y-6827	37.4		Page: 7 of 1: Depth of Bor	
End Dat	End Date: Elevation: 11.78				Geologist: M	. Merdinger
11/3/200		Drill Subcontractor: ADI			Driller:	
Depth (tt)	Lithology	Describtion	PID	Blows/6'	Sample ID	Sample Parameters
48 —	-Z-Z-; -Z-Z-; -Z-Z-;	CLAY, some very fine Sand, wet.		11		
	//-	NR: No Recovery		16		
		,				
			0.0 ppm	NA		
				NA		
50 —		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, little Clay, wet. No odor.	0.0 ppm	27	114-MW19CA (50.0-51.0)	Cr+6, TAL Metals
				10	114-MW19CAD (50.0-51.0)	
-		NR: No Recovery	0.0 ppm	15		
				15		
52 —		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, little Clay, wet. No odor.	0.0 ppm	12		
		Grave, inde ordy, wed. 140 oddr.		16		
			0.0 ppm	10		
				10		
54 —		NR: No Recovery	0.0	15	114-MW19CB	MS/MSD, Cr+6, TAL Metals
		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, moist. No odor.	ppm	12	(54.0-55.0)	
-	T. ' T. T. T.		── N/A	12		

ENCD	A E COM	Client: PPG Industries	Client: PPG Industries			NG ID:
ENSR	AECOM	Site: Site 114			114-	MW19C
Start Da	ite:	Project: Site Investigation			Page: 8 of 13	
10/11/20	006	Coordinates: X-611263.5 Y-682737	.4		Depth of Borir	ng: 101.20
End Dat	d Date: Elevation: 11.78				Geologist: M.	Merdinger
11/3/2006 Drill Subcontractor: ADI					Driller:	
Depth (tt)	Lithology	Description .	PID	Blows/6'	Sample ID	Sample Parameters
		R: No Recovery		12		
56 —		_TY SAND: Weak Red (2.5YR 5/2) very fine silty .ND, moist. No odor.	N/A	13		
_				15		
58 —	<u> </u>	R: No Recovery	N/A	7	114-MW19CC (58.0-58.5)	Cr+6, TAL Metals
		ND: Weak Red (2.5YR 5/2) very fine SAND, some t, moist. No odor.		9		
				13		
60 —		_TY SAND: Weak Red (2.5YR 5/2) very fine silty .ND, moist. No odor.	N/A	10		
	NF THE THE	R: No Recovery		16		
		-		12		
62 —		_TY SAND: Weak Red (2.5YR 5/2) very fine silty .ND, moist. No odor.	N/A	10	114-MW19CD (62.0-62.5)	Cr+6, TAL Metals
				13		

ENSR	AECOM	Client: PPG Industries				NG ID:	
LIVSIX	ALCON	Site: Site 114			114	-MW19C	
Start Da	ate:	Project: Site Investigation			Page: 9 of 13		
10/11/20	10/11/2006 Coordinates: X-611263.5 Y-682737.4			Depth of Bori	ing: 101.20		
	End Date: Elevation: 11.78		Geologist: M.	Merdinger			
11/3/200		Drill Subcontractor: ADI			Driller:		
Depth (41)	Lithology	Description	PID	Blows/6'	Sample ID	Sample Parameters	
1	<u> </u>		-	22			
		LT: Weak Red (2.5YR 5/2) SILT, trace very fine and, moist. No odor.		10			
64 —	-\\\ SII	R: No Recovery LTY CLAY: Brown (7.5YR 4/3) silty CLAY, loose,	0.0 ppm	7	114-MW19CE (64.0-64.5)	Cr+6, TAL Metals	
	we	et. No odor.		9			
-		AY: Brown (7.5YR 4/3) CLAY, little Silt, medium ff, wet. No odor.	0.0 ppm	10			
			' '	9			
66 —		LTY CLAY: Brown (7.5YR 4/3) silty CLAY, medium ff, wet. No odor.	0.0 ppm	5			
	-7-7-7 -7-7-7			7			
	-7 <u>-</u> 7-7		0.0 ppm	5			
	-/-/-, -//-,			4			
68 —	-/-/- <u>/</u>		0.0 ppm	7	114-MW19CF (68.0-68.5)	Cr+6, TAL Metals	
	-/-/- <u>/</u> -			6			
		LAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) CLAY, le Silt, medium stiff, moist. No odor.	0.0 ppm	6			
		as any modulin stary moist. The educt.		6			
70 +		LTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ottled silty CLAY, wet, medium stiff. No odor.	0.0 ppm	4			
		Succe Sing OLAT, well, medium sun. Two odor.		3			

ENCD	AECOM	Client: P	PG Industries			BORII			
ENSR AECOM		Site: Site 114				114-	114-MW19C		
Start Da	te:	Project: Sit	e Investigation			Page: 10 of 13			
10/11/20	10/11/2006 Coordinates: X-611263.5 Y-682737.4				Depth of Borir				
End Date	e:	Elevation: 11.	78			Geologist: M.	<u> </u>		
11/3/200		Drill Subcontra				Driller:			
Depth (ft)	Lithology		Deactibtion	PID	Blows/6	Sample ID	Sample Parameters		
-	-7-7-			0.0 ppm	4				
	-/-/- -/-/-/- -/-/-/-				4				
72 —	-Z-Z-J			0.0 ppm	4	114-MW19CG (72.0-72.5)	Cr+6, TAL Metals		
	-Z-Z- <u>)</u>				4				
-	-7-7-7 -7-7-7			0.0 ppm	5				
74	NF	: No Recovery			5				
74+		ttled silty CLAY, m	7.5YR 4/3) and Gray (7.5YR oist to wet, medium stiff. No	5/1) 0.0 ppm	3 4				
_	-Z-Z-, -Z-Z-,			0.0 ppm	6				
	-/-/- -/-/-/-				5				
76 —	-7-7-7 -7-7-7-7			0.0 ppm	3				
	- <u></u>	TV SAND: Brown	(7.5YR 4/3) and Gray (7.5YR	,	4				
	5/1) very fine silty SAI	ND, trace Clay, moist. No od	or. ppm	3	114-MW19CH (77.0-77.5)	Cr+6, TAL Metals		
78 —			le interbedded very fine silty		5				
	-7-7-7			ppm					
	-7-7-)				7				

ENCD	AECOM	Client: PPG Industries				NG ID:	
ENSR	AECOM	Site: Site 114			114-	MW19C	
Start Da	te:	Project: Site Investigation			Page: 11 of 13		
10/11/20	006	Coordinates: X-611263.5 Y-682737	.4		Depth of Bori	ng: 101.20	
End Dat	End Date: Elevation: 11.78			Geologist: M.	Merdinger		
	11/3/2006 Drill Subcontractor: ADI		Driller:				
Depth (ft)	Lithology	Description	PID	Blows/6'	Sample ID	Sample Parameters	
80 —	-\\\ -\\\ -\\\ -\\\ -\\\	TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ottled silty CLAY, little interbedded very fine silty	0.0 ppm 0.0 ppm	10 7 5	114-MW19CI (80.0-80.5)	Cr+6, TAL Metals	
_		nd, wet. No odor.	0.0 ppm	5 6			
82 —		TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) attled silty CLAY, medium stiff, wet. No odor.	0.0 ppm	5			
	-X-X- -X-X-		0.0 ppm	6			
84 —	-\\\ -\\\ -\\\		0.0 ppm	3	114-MW19CJ (84.0-84.5)	Cr+6, TAL Metals	
	-Z-Z-			4			
	-Z-Z-Z -Z-Z-Z -Z-Z-Z		0.0 ppm	3 4			
86 —	__ SIL	2: No Recovery TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ttled silty CLAY, medium stiff, wet. No odor.	N/A	7			

ENICD	AECOM	Client: PPG Industries	Client: PPG Industries			BORING ID: 114-MW19C		
ENSR	AECON	Site: Site 114	114-					
Start Da	te:	Project: Site Investigation			Page: 12 of 13			
10/11/20	006	Coordinates: X-611263.5 Y-682737	.4		Depth of Bori	ng: 101.20		
End Date: Elevation: 11.78				Geologist: M.	Merdinger			
11/3/200		Drill Subcontractor: ADI			Driller:			
Depth (tt)	Lithology	Description	PID	Blows/6	Sample ID	Sample Parameters		
				7				
+	-/-/- <u>/</u> -			7				
				9	114-MW19CK	Cr+6, TAL Metals		
	-7-7-7			9	(87.5-88.0)	CITO, TAL INICIAIS		
88 —	NF	R: No Recovery	N/A	4				
				5				
				5				
				5				
90 🕂		TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1)	0.0 ppm	6				
	<u></u> Sa	ottled silty CLAY, interbedded with very fine silty nd (Reddish Brown (2.5YR 4/3)), medium stiff, wet. odor.	ββ	7				
	-7-7-7		0.0 ppm	7				
	-/-/- <u>/</u>		PP	7				
92 —	NF	2: No Recovery	0.0	9				
	mc Sa	TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ottled silty CLAY, interbedded with very fine silty nd (Reddish Brown (2.5YR 4/3)), medium stiff, wet. odor.	ppm	7				
	<u>-/-/-</u> _// SII	TY CLAY: Reddish Brown (2.5YR 4/3) silty CLAY, me very fine Sand, little small to medium Gravel,	0.0 ppm	13	114-MW19CL (93.0-93.5)	Cr+6, TAL Metals		
		t. No odor.		14				
94 —		RAVEL AND SAND: Reddish Brown (2.5YR 4/3) ry fine silty SAND and small to medium GRAVEL,	0.0 ppm	19				

ENCD	A F C O A	Client: PPG Industries				NG ID:
ENSR AECO		Site: Site 114	114	114-MW19C		
Start Date:		Project: Site Investigation	Project: Site Investigation			3
10/11/20	06	Coordinates: X-611263.5 Y-682737	.4		Depth of Bori	ng: 101.20
End Date	e:	Elevation: 11.78			Geologist: M.	Merdinger
11/3/2006		Drill Subcontractor: ADI			Driller:	_
Depth (ft)	Lithology	De _{cubtiou}	PID	Blows/6'	Sample ID	Sample Parameters
	tr	ace Clay, wet. No odor.		22		
-	N	R: No Recovery		27		
				20		
96 —	V	RAVEL AND SAND: Reddish Brown (2.5YR 4/3) ery fine silty SAND and graded GRAVEL from large	0.0 ppm	21	114-MW19CM (96.0-96.5)	Cr+6, TAL Metals
	0.90.95 to 0.90.95 0.90.95	small, trace Clay, wet. No odor.		23		
	N	R: No Recovery	0.0 ppm	26		
				28		
98 +	<mark>∓÷∓÷∄</mark> ∨	RAVEL AND SAND: Reddish Brown (2.5YR 4/3) ery fine silty SAND and large to small GRAVEL, trace	0.0 ppm	28		
	C	lay, wet. No odor.		34		
-		ILTY SAND: Reddish Brown (2.5YR 4/3) very fine Ity SAND, wet. No odor.		30		
		ILT: Reddish Brown (2.5YR 4/3) SILT, trace Clay, nedium dense, moist. No odor.		32		
100 +	<u> </u>	R: No Recovery	0.0	37	114-MW19CN	Cr+6, TAL Metals
		ILT: Reddish Brown (2.5YR 4/3) SILT, little Clay, nedium dense, wet. No odor.	ppm	50	(100.0-101.0)	
		AND: Reddish Brown (2.5YR 4/3) very fine SAND, ace Silt, wet. No odor.	0.0 ppm	100 /2"		
		LAY: Reddish Brown (2.5YR 4/3) CLAY and /eathered Bedrock, moist, medium stiff. No odor.				
	N	ULL: Refusal due to Bedrock at 101.2 ft.				

ENCD	AECOM	Client: PPG Industries		BORIN	
ENSR	AECOM	Site: Site 133		133	3-B1
Start Da	te:	Project: Site Investigation		Page: 1 of 3	
12/6/200	06	Coordinates: X-611151.6 Y-682630	0.2	Depth of Borin	ng: 32.00
End Date	e:	Elevation: 13.15			Kelly, R. Firely
12/8/200		Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller:	
Depth (ft)	Lithology	Description	PID (PPm)	Sample ID	Sample Parameters
0_					
	FILI	L: Street level ASPHALT	0.0 ppm		
	× × FILI	L: Coarse GRAVEL Rock (Macadam sub-suface),	0.0 ppm		
2—	××× FILI dry.	L: Dark Brown SAND, some fine to coarse Gravel,	0.0 ppm		
	× × × FILI fine	L: Gray-green SILT (ASH), some fine Gravel, little gravel-sized Slag, dry.			
4—		L: Green-gray fine to coarse SAND, some fine ovel and Ash, wet. (WASTE MUD)	0.0 ppm		
_		L: Gray-green fine GRAVEL and fine SAND, some very loose, wet.	0.0 ppm 0.2 ppm		
6—		L: Grayish green SILT, little Clay, trace coarse ivel, cohesive, wet. (WASTE MUD)		133-B1E (5.4-6.4)	MS/MSD, Cr+6, TAL Metals
	× × × × × × × ×				
	××× FILI	L: No Recovery			
8—		L: Grayish green SILT, little Clay, trace coarse ivel, cohesive, wet. (WASTE MUD)	0.0 ppm		
	× × × ×				
10	× × × ×			133-B1F (9.4-9.9)	Cr+6, TAL Metals
10+	× × × × × ×				

ENSR AECOM	Client: PPG Industries		BORIN	
LINSK ALCOM	Site: Site 133		133	3-B1
Start Date:	Project: Site Investigation		Page: 2 of 3	
12/6/2006	Coordinates: X-611151.6 Y-682630).2	Depth of Borin	ng: 32.00
End Date:	Elevation: 13.15		<u> </u>	Kelly, R. Firely
12/8/2006	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller:	
Depth (ti) Lithology	Description	PID (PPM)	Sample ID	Sample Parameters
NR.	AT: PEAT (10YR 2/1) : No Recovery : Wash T: Very Dark Gray (10YR 3/2) SILT, some Clay, nesive, wet. AT: Black (10YR 2/1) PEAT	0.0-1.2 ppm	133-B1G (13.8-14.3)	Cr+6, TAL Metals
16—	: No Recovery	0.0 ppm	133-B1H	Cr+6, TAL Metals
18 + 11 PE	AT: Black (10YR 2/1) PEAT		(16.0-16.5)	Cr+6, TAL Metals
NR.	: No Recovery		(18.0-18.5)	STO, THE MODE
20 + PE	AT: Black (10YR 2/1) PEAT	0.0 ppm	133-B1J (20.0-20.5)	Cr+6, TAL Metals

ENSR AECOM	Client: PPG Industries		BORIN	
LIVSK / ALCOM	Site: Site 133		133	8-B1 │
Start Date:	Project: Site Investigation		Page: 3 of 3	
12/6/2006	Coordinates: X-611151.6 Y-682630.	2	Depth of Borir	ng: 32.00
End Date:	Elevation: 13.15		Geologist: P.	. Kelly, R. Firely
12/8/2006	Drill Subcontractor: Eichelberger/Terra Prol	pe Incorporated	Driller:	
Debty (41) Tityology	Description	PID (PPm)	Sample ID	Sample Parameters
	T: Dark Gray (10YR 4/1) CLAY and SILT becoming SAND, SILT and CLAY, cohesive, wet.		133-B1K (22.0-22.5)	Cr+6, TAL Metals
24 — NR:	: No Recovery	0.0 ppm		
26 —				
Red med wet,	ND AND SILT: Dark Gray (10YR 4/1) to Dark ddish Brown (5YR 3/3) fine SAND and SILT, some dium to coarse Sand, little fine to coarse Gravel, , loose. ND: Dark Reddish Brown (5YR 3/3) fine to medium	0.0 ppm		
SAN grad	ND, some coarse Sand and fine to medium Gravel ding to fine Sand, wet, loose.			
30 — NR:	: No Recovery			
32 NUL	LL: End of Boring at 32 ft.			

ENSR	AECOM	Client: PPG Industries		BORIN	
EINSK	AECOM	Site: Site 133		133	-B2
Start Da	te:	Project: Site Investigation		Page: 1 of 3	
12/6/200)6	Coordinates: X-611036.5 Y-682515.9	9	Depth of Borin	g: 32.00
End Dat		Elevation: 13.49			Kelly, M. Merdinger
12/11/20		Drill Subcontractor: Eichelberger/Terra Prob	e Incorporated	Driller: Heath	Kneller
Depth (ft)	Lithology	Description	blD (bbw)	Sample ID	Kneller Sample Parameters
0_					
	× × ASI	PHALT: Street level ASPHALT			
_	×^× × × dry	L: Coarse GRAVEL Rock (Macadam sub-suface),	0.0 ppm	133-B2A (0.6-1.1)	Cr+6, TAL Metals
2—		L: Dark Brown coarse SAND, some Silt and fine to arse Gravel, little fine Cobbles, dry.			
-	× × FIL	L: Blocky coarse to medium cobble-sized SLAG			
4—		L: Dark Brown medium SAND and SILT, some PPR, little fine Gravel, dry.	0.0 ppm	133-B2B (3.3-3.8)	Cr+6, TAL Metals
	X X Bla	L: Dark Brown medium GRAVEL, some woody ck Organics, little White-gray fragmented Chert, y loose, wet.		133-B2C (4.5-5.0)	Cr+6, TAL Metals
6-		L: Very Dark Gray (5YR 3/1) SILT, little fine Sand, e angular small Gravel, wet. No odor.			
_	NR	: No Recovery			
8—		L: Very Dark Gray (5YR 3/1) GRAVEL, some Silt,	0.9 ppm	133-B2D (8.0-8.5)	Cr+6, TAL Metals
_		e fine Sand and woody Organics, Ceramics, wet. wage odor.			
10 —	NR	: No Recovery			

ENCD	AFCOM	Client: PPG Industries			NG ID:
ENSR AECOM		Site: Site 133	133-B2		
Start Da	te:	Project: Site Investigation		Page: 2 of 3	
12/6/200	06	Coordinates: X-611036.5 Y-682	2515.9	Depth of Bor	ing: 32.00
End Dat	e:	Elevation: 13.49		Geologist: F	P. Kelly, M. Merdinger
12/11/20		Drill Subcontractor: Eichelberger/Terra	Probe Incorporated	Driller: Heat	h Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
12 —	× × Woo	L: Black (5YR 2.5/1) SILT, some Organics and bod, trace Gravel and fine Sand, wet. No odor. L: Dark Gray (5YR 5/1) fine SAND, some Fill aterial (wood peices, ceramics, shell material), we odor. L: Brown (7.5YR 4/2) silty CLAY, trace Organics t. Mothball odor. L: No Recovery		133-B2E (12.0-13.0) 133-B2ED (12.0-13.0)	Cr+6, TAL Metals Cr+6, TAL Metals
16—	\ med	L: Reddish Brown (5YR 4/3) silty CLAY, some edium to fine Sand, wet. No odor.	0.0 ppm	133-B2F (16.3-17.3)	MS/MSD, Cr+6, TAL Metals
		AT: PEAT (Meadow Mat), some Organics, moist edium stiff. Sulfur odor.	495.0 ppm		
18 —	# # # # # #				
20 —		R: No Recovery		400 500	One Tal Mill
		AT: PEAT (Meadow Mat), some Organics, moist edium stiff. Sulfur odor.	2.3 ppm	133-B2G (20.0-20.5)	Cr+6, TAL Metals
	PEA	AT: Dark Gray (Gley N4/0) organic CLAY, moist,			

ENSR AECOM				NG ID: 3-B2
I	Site: Site 133			
Start Date:	Project: Site Investigation		Page: 3 of 3	
12/6/2006	Coordinates: X-611036.5 Y-682515	5.9	Depth of Bor	
End Date: 12/11/2006	Elevation: 13.49	h - l		P. Kelly, M. Merdinger
	Drill Subcontractor: Eichelberger/Terra Pro		d Driller: Heat	n Knellel
Depth (tt)	Description	PID (PPM)	Sample ID	h Kneller Sample Parameters
22 — me	dium stiff. Sulfur odor.	<u> </u>	133-B2H	Cr+6, TAL Metals
			(22.0-22.5)	
	AY: Dark Gray (Gley N4/0) silty CLAY, little fine			
	nd, moist, soft. No odor. AY: Black CLAY, moist, medium stiff. No odor.		133-B2I (23.2-23.7)	Cr+6, TAL Metals
	AY: Reddish Gray (10R 5/1) silty CLAY, moist, edium stiff. No odor.	0.1 ppm		
	TY SAND: Dark Reddish Gray (10R 4/1) very fine fine silty SAND, wet, loose. No odor.			
	RAVEL: Brown (7.5YR 5/2) GRAVEL, some Silt and ay, wet. No odor.			
	TY SAND: Dark Reddish Brown (10R 4/1) very fine fine silty SAND, wet, loose. No odor.			
	ND: Weak Red (10R 4/4) coarse SAND and dium rounded GRAVEL, little Silt, moist. No odor.			
28 - NF	2: No Recovery	0.0 ppm		
me	ND: Weak Red (10R 4/4) coarse SAND and dium rounded GRAVEL, graded, little Silt, moist. odor.			
30 —				
	T: Red (2.5YR 4/6) SILT, moist, medium dense. odor.			
	2: No Recovery			
32 — NI	ILL: End of Boring at 32 ft.			1

ENCD	AECOM	Client: PPG Industries			NG ID:
ENSR AECOM		Site: Site 133	133-B4		
Start Da	te:	Project: Site Investigation		Page: 1 of 3	
12/6/200)6	Coordinates: X-610904.0 Y-682399	.9	Depth of Bori	ng: 32.00
End Date	e:	Elevation: 12.72		Geologist: P	. Kelly, M. Merdinger
12/12/20		Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Sample
0_	4.0	DUALT, Charalless LACDUALT			
	AS	PHALT: Street level ASPHALT			
-	××× FIL dry	L: Coarse GRAVEL Rock (Macadam sub-suface),	0.0 ppm	133-B4A (0.7-1.2)	Cr+6, TAL Metals
2+	× × FIL mo	L: Dark Brown SILT, some Clay and fine Gravel, ist.	0.0 ppm	133-B4B (1.5-2.0)	Cr+6, TAL Metals
2+	x x ma	L: Black medium GRAVEL with cohesive tar-like tter, some fine Sand and Silt, moist. No odor.	0.0 ppm		
	× × FIL	L: Blocky cobble-sized SLAG, some fine Sand. L: Grayish Brown (10YR 5/2) SILT with Bright een lenses, moist. Naphthalene odor. (WASTE	0.0 ppm	133-B4C (3.3-3.8)	Cr+6, TAL Metals
4—	× × × MU		5.2 ppm		
	× × × × × × × × × ×		2.0 ppm	114-WC6 (4.6-5.6)	TCLP Metals, TCLP Cr+6
6+	×××		F 2 ppm	133-B4D	Cr+6, TAL Metals
		L: Very Dark Brown (10YR 2/2) SILT and coarse ND, wet. Naphthalene odor.	5.2 ppm	(6.0-6.5)	OTTO, TAE Motals
_	NR	: No Recovery			
8-		L: Black SILT and medium angular GRAVEL, little dium Sand, wet. Naphthalene odor.	0.0 ppm		
		L: Reddish Brown (2.5YR 4/3) silty CLAY with een lenses, trace medium angular Gravel, wet. No or.	0.3 ppm	133-B4E (9.0-9.5)	Cr+6, TAL Metals
10 —	Ma	L: Black medium angular GRAVEL, some Silt, Fill terial (ceramics, wood peices), wet. Slight odor.			
	NR	: No Recovery			

ENCD AECOM	Client: PPG Industries		BORIN		
ENSR AECOM	Site: Site 133	133	133-B4		
Start Date:	Project: Site Investigation		Page: 2 of 3		
12/6/2006	Coordinates: X-610904.0 Y-682399	.9	Depth of Borir	ng: 32.00	
End Date:	Elevation: 12.72			Kelly, M. Merdinger	
12/12/2006	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporate	ed Driller: Heath	Kneller	
Debu (4) Tituology	Description	PID (bbw)	Sample ID	Sample Parameters	
12 - X X FIL Sar X X X X X X X X X X X X X X X X X X X	L: Dark Brown (7.5YR 3/2) SILT, some very fine nd, trace small rounded Gravel, moist. No odor. L: Dark Reddish Gray (5YR 4/2) very fine SAND, e Silt, trace large Gravel, moist. No odor. L: Reddish Brown (2.5YR 4/4) CLAY and SILT, little arse Sand, Green staining, moist. No odor. AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor.	0.1 ppm 1 0.0 ppm 0.0 ppm	133-B4F(12.5-13.0) 33-B4FD(12.5-13.0) 133-B4G (14.3-14.8)	Cr+6, TAL Metals Cr+6, TAL Metals Cr+6, TAL Metals	
	AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor.	0.1 ppm 0.0 ppm			
18 — — — — — — — — — — — — — — — — — — —	: No Recovery	0.3 ppm	133-B4H (18.3-18.8)	Cr+6, TAL Metals	
	AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor.	16.0 ppm			

ENSR AECOM	Client: PPG Industries			NG ID:
	Site: Site 133		13	3-B4
Start Date:	Project: Site Investigation		Page: 3 of 3	
12/6/2006	Coordinates: X-610904.0 Y-682399	9.9	Depth of Bor	ring: 32.00
End Date:	Elevation: 12.72		Geologist: F	P. Kelly, M. Merdinger
12/12/2006	Drill Subcontractor: Eichelberger/Terra Pro	bbe Incorporated	Driller: Heat	th Kneller
Debty (41) Tityology	Description	PID (ppm)	Sample ID	Sample Parameters
	ND: Gray (Gley N5/0) very fine SAND, some Silt, . No odor.	4.8 ppm	133-B4I (21.8-22.3)	Cr+6, TAL Metals
- NR.	: No Recovery			
	ND: Gray (Gley N5/0) very fine SAND, some Silt, No odor.	0.0 ppm		
		0.2 ppm		
26 —		0.1 ppm		
No	AY: Gray (Gley N5/0) CLAY, medium stiff, moist. odor.	0.1 ppm		
roul	T AND GRAVEL: Red (10R 5/6) SILT and medium nded GRAVEL, some fine to medium Sand, wet. odor.	0.0 ppm		
	ND: Weak Red (10R 4/3) fine to medium SAND, e Silt, loose, wet. No odor.	0.0 ppm		
little	ND: Weak Red (10R 4/3) fine to medium SAND, e medium rounded Gravel, little Silt, trace Clay, se, wet. No odor.	0.0 ppm		
roul	ND: Weak Red (10R 4/3) medium SAND, little nded small Gravel, medium stiff, wet. No odor.	0.0 ppm		
32	LL: End of Boring at 32 ft.			

Site: Site 133 Start Date: 1/5/2007	ENSR	AECOM	Client: PPG Industries			ING ID:
1/5/2007 Coordinates; X-610880.6 Y-682252.5 Depth of Boring: 16.00	ENSK AECOM			133-B9		
End Date: 1/5/2007 Drill Subcontractor: Terra Probe Incorporated Driller: Heath Kneller	Start Date:		Project: Site Investigation		Page: 1 of 2	
Depth (N) Umbods CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample Pill: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor.	1/5/2007		Coordinates: X-610880.6 Y-682252	2.5	Depth of Bo	ring: 16.00
Depth (III) Litrology CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. N/A FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.	End Date:	:	Elevation: 12.1		Geologist:	M. Merdinger
CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Bark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.			Drill Subcontractor: Terra Probe Incorpora		Driller: Hea	th Kneller
CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample O.0 ppm O.0 ppm O.0 ppm NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Bark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.	Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	th Kneller Sample Parameters
Water used in concrete coring was stained yellow/green. Value Val	0	×^x^x^x ×××××× CO	NCRETE: Concrete floor with yellow staining.			
fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample NR: No Sample NR: No Sample N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.	× ×	××××× Wa	nter used in concrete coring was stained	0.0 ppm		Cr+6, TAL Metals
NR: No Sample NR: No Sample NR: No Sample O.0 ppm O.0 ppm N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.		\times $^{\sim}$ fine	e to medium Sand, 100% COPR, loose, dry. No			
NR: No Sample NR: No Sample N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.	2	× × × × × ×		0.0 ppm		
FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.		× × NR:	t: No Sample	0.0 ppm		
FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.						
FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.	4					
FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.	4—	× 、× ↓	e to medium Sand, 100% COPR, loose, dry. No	N/A	133-B9B	Cr+6, TAL Metals
6— × × wet. Paint thinner odor.		× × × FILI	L: Brown (7.5YR 5/2) to stained-Black SILT and fine			5.15, 1/12 Motalo
X X						
- INK. NO RECOVERY	6+	X X	P. No Pocovory			
		INK:	IND RECOVERY			
	1					
8 X X FILL: Dusky Red (2.5YR 3/2) fine rounded GRAVEL, 420.0 133-B9C Cr+6, TAL I	8+					Cr+6, TAL Metals

ENSR	AECOM	Client: PPG Industries			NG ID:
ENSK AECOM		Site: Site 133	133-B9		
Start Da	te:	Project: Site Investigation		Page: 2 of 2	
1/5/2007	•	Coordinates: X-610880.6 Y-682252	.5	Depth of Bor	ring: 16.00
End Date	e:	Elevation: 13.33		Geologist: I	M. Merdinger
1/5/2007		Drill Subcontractor: Terra Probe Incorporat		Driller: Heat	th Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Sample
	×××	e Silt, 100% COPR, loose, wet. Paint thinner odor.	ppm	(8.0-8.5)	
-		L: Black SILT and medium angular GRAVEL, loose, t. Naphthalene odor.	100.0 ppm		
10 —	× × Gra	L: Dark Reddish Brown (5YR 3/2) SILT, trace fine avel and medium to coarse Sand, medium dense, t. No odor.	77.0 ppm		
-					
12 —		L: Black stained SILT, little very fine Sand, loose, t. No odor.	11.7 ppm	133-B9D (12.0-12.5)	Cr+6, TAL Metals
-	^ x ^ x		4.0 ppm		
14—		L: Construction and Demolition FILL Material (ash, g, concrete, nails), loose, wet. No odor.	4.5 ppm	133-B9E (14.0-14.5)	Cr+6, TAL Metals
_	NR	t: No Recovery			
16					
10		ILL: End of Boring at 16 ft.			

ENSR AECOM		Client: PPG Industries		BORING ID:		
ENSK	AECOM	Site: Site 133		133	3-B11	
Start Da	te:	Project: Site Investigation		Page: 1 of 2		
4/17/200)7	Coordinates: X-611036.0 Y-68245	Depth of Bor	ing: 16.50		
End Dat		Elevation: 14.36		Geologist: E		
4/17/200		Drill Subcontractor: Terra Probe Incorpora		Driller: Heat	h Kneller	
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Parameters	
0	****** CO	NCRETE: Concrete slab, no staining.	0.7	133-B11A	Cr+6, TAL Metals	
_	× × SAI	L: Very Dark Brown (7.5YR 2.5/2) coarse to fine ND, some medium to fine Gravel, little coal, ash, ss, brick, loose, moist. No odor.	0.7	(0.5-2.0)	CITO, IAL Metals	
2—	× × × × × × × ×		1.9			
	NR	: No Recovery	3.0			
4—	$^{\sim} \times ^{\sim} \times$ SAI	L: Very Dark Brown (7.5YR 2.5/2) coarse to fine ND, some medium to fine Gravel, little coal, ash, ss, brick, loose, moist. No odor.	0.5	133-B11B	Cr+6, TAL Metals	
6—	$ ^{} \times ^{} \times $ and	L: Very Dark Gray (10YR 3/1) coarse to fine SAND d medium to fine GRAVEL, trace Silt, ash, coal and ells, loose, wet. Slight odor.	1.5	(5.2-7.2)		
-	XXX XXX XXX	: No Recovery	4.1			
8—						

ENSR AECOM	Client: PPG Industries			NG ID:
ALCOM	Site: Site 133		13	3-B11
Start Date:	Project: Site Investigation	Page: 2 of 2		
4/17/2007	Coordinates: X-611036.0 Y-682457	.2	Depth of Bor	ring: 16.50
End Date:	Elevation: 14.36		Geologist: I	B. Ergezen
4/17/2007	Drill Subcontractor: Terra Probe Incorporate		Driller: Heat	th Kneller
Debity (41) Tithology	Description	PID (bbw)	Sample ID	Sample Parameters
	L: Very Dark Gray (10YR 3/1) coarse to fine SAND d medium to fine GRAVEL, trace Silt, interbedded	1.7	133-B11C (8.7-10.5)	Cr+6, TAL Metals
× × witl × × Slig	h Dark Brown (10YR 3/3) medium Sand and edium to fine Gravel, plastic peices, loose, wet. ght odor.	6.0	(6.7 16.6)	
10 — X X X X X X X X X X X X X X X X X X	2: No Recovery	10.1		
12 —				
$\left \begin{array}{c} \times \times \\ \end{array} \right $ me	L: Black (10YR 2/1) coarse to fine SAND, some dium to fine Gravel, little organics, shells, ceramics, se, moist. Odor.	5.5		
	AT: Black (10YR 2/1) organic CLAY, some Peat, nesive, soft, moist. Sulfur odor.	6.3	133-B11D (13.5-14.2)	Cr+6, TAL Metals
	2: No Recovery			
16—				
<u> </u>	ILL: End of boring at 16.5 ft.			

ENSR	AECOM			BORIN 133	ig id: 8-B12
		Site: Site 133		130	-D12
Start Da	ate:	Project: Site Investigation		Page: 1 of 2	
4/17/20	007	Coordinates: X-611114.7 Y-682515	.1	Depth of Bori	ng: 16.60
End Da		Elevation: 14.44		Geologist: B	
4/17/20	-	Drill Subcontractor: Terra Probe Incorporate		Driller: Heath	Kneller
Depth (ft)	Lithology	Description	PID (bpm)	Sample ID	Sample Sample
0	× × × × × × × × × × × × × × × × × × ×	DNCRETE: Concrete slab, no staining. L: Dark Brown (7.5Y 3/3) fine to very fine SAND,	28.0	133-B12A (0.6-1.1)	Cr+6, TAL Metals
-	× × soi	me medium to fine sub-angular Gravel, little erbedded Clayey Silt, brick, coal, loose, moist. No	-	133-B12B(1.1-1.4)	MS/MSD, Cr+6, TAL Metals
2—	× × × FIL × × × and	L: Reddish Brown (5YR 4/4) fine to very fine SAND d SILT, little Clay and medium to fine Gravel, brick, n, glass, loose, moist. No odor.	22.0		
4-	× × × × × × × × × × × × × × × × × × ×		50.0		
	NF	R: No Recovery	-		
	an	L: Reddish Brown (5YR 4/4) fine to very fine SAND d SILT, little Clay and medium to fine Gravel, brick, n, glass, loose, moist. No odor.	4.2	133-B12C(4.8-5.0) 133-B12D (5.0-6.0)	Cr+6, TAL Metals Cr+6, TAL Metals
6	× × × CCC	ONCRETE: Light Gray (10YR 7/1) pulverized ONCRETE (Concrete slab), dense, dry. No odor. L: Black (2.5YR 2.5/1) coarse to fine SAND, some edium to fine angular Gravel, little Silt, rubber, listic, glass, loose, wet. Impacted with Coal Tar. GP odor.	8.9		
8—	NF	R: No Recovery			

ENSR AECOM	Client: PPG Industries			NG ID:
ENSR AECOM	Site: Site 133		13	3-B12
Start Date:	Project: Site Investigation		Page: 2 of 2	
4/17/2007	Coordinates: X-611114.7 Y-682515	.1	Depth of Bor	ing: 16.60
End Date:	Elevation: 14.44		Geologist: I	3. Ergezen
4/17/2007	Drill Subcontractor: Terra Probe Incorporate	ed	Driller: Heat	h Kneller
Debu (4) Tithology	Description	PID (bbw)	Sample ID	Sample
	L: Very Dark Gray (2.5YR 3/1) coarse to fine ND, some medium to fine angular Gravel, little Silt,	0.2	133-B12E (8.6-9.6)	Cr+6, TAL Metals
	bber, plastic, glass, loose, wet. MGP odor.	0.4	133-B12ED (8.6-9.6)	Cr+6, TAL Metals
10 -		J.7		
_ × × NF	R: No Recovery	- 0.8		
12—				
- ^x^x me	L: Black (2.5YR 2.5/1) coarse to fine SAND, some edium to fine angular Gravel, little Silt, rubber, astic, glass, loose, wet. MGP odor.	0.4	133-B12F	Cr+6, TAL Metals
14 — wit	EAT: Black-stained (2.5YR 2.5/1) PEAT, interbedded th Dark Brown (10YR 3/3) fine to very fine SAND, ce medium to fine Gravel and Organics, cohesive, ft, moist. MGP odor.	4.7	(13.3-14.3)	
- TT		14.6		
16 — NR	R: No Recovery			
	JLL: End of boring at 16.6 ft.			

ENSR AECO		Client: PPG Industries		NG ID:	
EINOR	AECOM	Site: Site 133	133-B13		
Start Da	te:	Project: Site Investigation	Page: 1 of 2		
4/16/200	07	Coordinates: X-611148.7 Y-682572	5	Depth of Bor	ing: 16.40
End Dat		Elevation: 13.98		Geologist: E	
4/16/200		Drill Subcontractor: Terra Probe Incorporate		Driller: Heat	h Kneller
Depth (ft)	Lithology	Description	biD (bbw)	Sample ID	Sample Parameters
0_	x x x x >				
	××××××× CO	NCRETE: Concrete slab, no staining.			
	XXXX SAI	L: Brownish Yellow (10YR 6/6) fine to very fine ND, little Silt, trace Clay and medium to fine sub- jular Gravel, loose, moist. No odor.	0.3	133-B13A (0.4-1.6)	MS/MSD, Cr+6, TAL Metals
	×××		17.6		
2—		NCRETE: Light Gray (10YR 7/1) pulverized NCRETE (Concrete slab), dense, dry. No odor.		133-B13B (1.6-2.4)	Cr+6, TAL Metals
-	× × son	L: Dark Brown (10Y 3/3) coarse to fine SAND, ne medium to fine angular Gravel, little coal, trace anics, loose, moist. No odor.	2.1	133-B13C (2.4-3.2)	Cr+6, TAL Metals
4-	NR	: No Recovery			
_		L: Very Dark Gray (10YR 3/1) coarse to fine SAND I GRAVEL, little Silt, brick, coal, ash, loose, wet. No or.	0.1		
	× × × ×		0.1		
6—	× × × × ×			133-B13D (5.8-6.8)	Cr+6, TAL Metals
	××××		0.1		
-	NR	: No Recovery			
8-					

Start Date: 4/16/2007 End Date: 4/16/2007 Depth (ti) Lithology	Site: Site 133 Project: Site Investigation Coordinates: X-611148.7 Y-682572 Elevation: 13.98 Drill Subcontractor: Terra Probe Incorpora		Page: 2 of 2 Depth of Bor Geologist: For the priller: Heat	ring: 16.40 B. Ergezen
4/16/2007 End Date: 4/16/2007	Coordinates: X-611148.7 Y-682572 Elevation: 13.98 Drill Subcontractor: Terra Probe Incorpora	ted	Depth of Bor Geologist: I	ring: 16.40 B. Ergezen
End Date: 4/16/2007	Elevation: 13.98 Drill Subcontractor: Terra Probe Incorpora	ted	Geologist: E	B. Ergezen
4/16/2007	Drill Subcontractor: Terra Probe Incorpora		Driller: Heat	
	Drill Subcontractor: Terra Probe Incorpora		Driller: Heat	
Deby (4) Tithology	Description	2 (bbw)	ν,Ω	h Kneller
		PID "	Sample ID	Sample Parameters
× × GR	L: Dark Gray (2.5Y 4/1) coarse to fine SAND and AVEL, little Silt, brick, coal, ash, slag, loose, wet. pht sulfur odor.	0.1		
10 -		0.0	133-B13E (9.4-10.4)	Cr+6, TAL Metals
× × NR	: No Recovery	0.2		
12 — × × FII	L: Dark Gray (2.5Y 4/1) coarse to fine SAND and	0.2		
GR	AVEL, little Silt, brick, coal, ash, slag, loose, wet. yht sulfur odor.		133-B13F (12.7-14.4)	Cr+6, TAL Metals
CLA	AT: Very Dark Grayish Brown (10YR 3/2) organic AY, some Peat, trace fine Gravel, cohesive, soft, ist. Sulfur odor.	0.7	133-B13FD (12.7-14.4)	Cr+6, TAL Metals
	: No Recovery	0.4		
16 —	LL: End of boring at 16.4 ft.			

ENSR	AECOM	Client: PPG Industries			NG ID:
		Site: Site 133		13	3-B14
Start D	ate:	Project: Site Investigation		Page: 1 of 2	
4/18/20	007	Coordinates: X-611187.7 Y-682628	.8	Depth of Bor	ing: 16.50
End Da	ate:	Elevation: 14.57		Geologist: I	B. Ergezen
4/18/20	-	Drill Subcontractor: Terra Probe Incorporat		Driller: Heat	h Kneller
Depth (ft)	Lithology	Description	PID (PPm)	Sample ID	sh Kneller Sample Parameters
0_	× * × * × * × * >	NCRETE: Concrete slab, slight Green staining.			
	××× NR	2: No Recovery	5.3	133-B14A (0.5-1.1)	Cr+6, TAL Metals
		L: Dark Brown (7.5YR 3/3) coarse to fine SAND, e Silt, trace medium to fine Gravel, loose, moist. No			
2—	× × FIL × ×	L: Very Dark Gray (10YR 3/1) coarse to fine SAND d medium to fine GRAVEL, little coal, brick, Green ining at bottom of sample, loose, moist. No odor.	4.4	133-B14B (1.5-2.5)	Cr+6, TAL Metals
_	NR	2: No Recovery	2.8		
4—					
-	× × sor	L: Dark Brown (10YR 3/3) coarse to fine SAND, me medium to fine Gravel, trace Clay and coal, se, moist. No odor.	0.2	133-B14C (4.5-5.3)	MS/MSD, Cr+6, TAL Metals
6—	^x^x SIL	L: Pale Olive (5Y 6/3) fine to very fine SAND and T, some Clay, trace medium to fine Gravel, nesive, soft, moist. No odor. (100% Waste Mud)	1.0	133-B14D (5.3-6.0)	Cr+6, TAL Metals
0—		L: Black (5Y 2.5/1) coarse to fine SAND, some		133-B14E (6.0-6.5)	Cr+6, TAL Metals
		dium to fine Gravel, organics, brick, coal, loose, ist. No odor.	1.4	133-B14F (6.5-7.4)	Cr+6, TAL Metals
	× × ver	L: Olive Gray (5Y 4/2) Clayey SILT, some fine to ry fine Sand, trace fine Gravel, trace Green staining,		133-B14G	Cr+6, TAL Metals
	× × × \	nesive, soft, moist. No odor. (50% Waste Mud)		(7.4-8.5)	CI+O, IAL IVICIAIS
8+	× × and	d medium to fine GRAVEL, little coal, trace ganics, loose, moist. No odor.		133-B14GD (7.4-8.5)	Cr+6, TAL Metals

ENCD	AFCOM	Client: PPG Industries			NG ID:
ENSR	AECOM	Site: Site 133	133-B14		
Start Da	ate:	Project: Site Investigation	Page: 2 of 2		
4/18/20	07	Coordinates: X-611187.7 Y-682628	3.8	Depth of Bor	ring: 16.50
End Dat	te:	Elevation: 14.57		Geologist: I	B. Ergezen
4/18/200		Drill Subcontractor: Terra Probe Incorporate		Driller: Heat	th Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
	× × FIII	L: Dark Olive Gray (5YR 3/2) Silty CLAY, little very	3.6		
-	×××× fine	Sand, trace fine Gravel, cohesive, soft, moist. No r. (100% Waste Mud)		133-B14H (8.7-9.7)	Cr+6, TAL Metals
10 —	×^×^ × × × ×		2.1		
	× × × × × × × × × × × × × × × × × × ×	L: Black (5Y 2.5/1) coarse to fine SAND and	3.4	133-B14l (10.6-11.5)	Cr+6, TAL Metals
_		dium to fine GRAVEL, little Clay, loose, wet. No		(10.0-11.3)	
12 —	NR	No Recovery	6.5		
-	x x x med	L: Black (5Y 2.5/1) coarse to fine SAND and dium to fine GRAVEL, little Clay, trace Green ning, loose, wet. No odor. (50% Mud Waste)	1.1		
14 —	× × × × × ×		2.7	133-B14J	Cr+6, TAL Metals
14	× × × × × × × × × × × × × × × × × × ×		7.4	(13.9-14.9)	0.70, 7.12
-	som moi	AT: Very Dark Brown (10YR 2/2) Organic CLAY, ne Peat, trace fine Gravel, cohesive, medium, st. Strong sulfur odor.	'	133-B14K (14.9-15.8)	Cr+6, TAL Metals
16 —	NR:	: No Recovery	-		
	NUI	LL: End of boring at 16.5 ft.			

ENSR	AECOM	Client: PPG Industries		BORIN	
ENSK	AECOM	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		Driller: Heath	Kneller
Depth (ft)	Lithology	Description	PID (bpm)	Sample ID	Sample Parameters
		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,	201 ppm		
2—	× × × fine odd	e gravel sized COPR (30%), little Clay, strong MGP or	201 μριτι		
_	× × × × × ×		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
	××× NR	2: 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 AECOM Client:	PPG Industries			NG ID:
ENSR AECOM Site:	Site 133		13	3-B16
Start Date: Project:	Site Investigation		Page: 2 of 3	
1/24/2007 Coordina	9.3	Depth of Bor	ing: 28.00	
End Date: Elevation	: 11.53		Geologist: F	P. Kelly
	ontractor:Terra Probe Incorpora		Driller: Heat	h Kneller
Debty (4) Tityology	Description	PID (bbw)	Sample ID	Sample Parameters
10 —		921 ppm		
	YR 4/3) dense fine SAND, some Clay e Gravel, no odor		133-B16D (11.5-12.0)	Cr+6, TAL Metals
× × FILL: Dark Gray	(7.5YR 3/1) ASH, some fine Gravel, cramic fragments, trace glass dor			
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
	Mat, Dark Brown (7.5YR 3/3) no odor		133-B16F (14.6-15.0)	Cr+6, TAL Metals
NR: No Recover	у	12.5 ppm		
CLAY/Organics,	Mat, Dark Brown (7.5YR 3/3) no odor	484 ppm		
		629 ppm	133-B16G (17.0-17.3)	Cr+6, TAL Metals
18 —		. от ррпп		
-			133-B16H	Cr+6, TAL Metals

ENSR AECOM	Client: PPG Industries			NG ID:	
LINSK	Site: Site 133		133	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		
1/24/2007	Drill Subcontractor: Terra Probe Incorporat		Driller: Heatl	n Kneller	
Debty (41)	Description	biD (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 , no odor				
-		282 ppm			
			133-B16I (21.5-22.0)	Cr+6, TAL Metals	
22+		214 ppm			
		220 nnm			
		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				
-					
28 NR:	No Recovery				
	LL: End of Boring				



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.

ENSR AECOM		Client: PPG Industries	BORING ID:		
LINSK	ALCON	Site: Site 133	133-B17		
Start Date: Project: Site Investigation				Page: 1 of 3	
12/14/20	006	Coordinates: X-611129.2 Y-68246	1.7	Depth of Borir	ng: 32.00
End Date		Elevation: 11.47			. Kelly, M. Merdinger
1/3/2007		Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
_ 0	<u>у</u> у 1 то	DPSOIL: Black Topsoil, dry.			
	x^x^	LL: WOOD Planks and Roots, dry			
_	× × FI	LL: Gray ASH and coarse SAND, little fine Gravel, ass fragments, Rootlets, dry.	0.0 ppm	133-B17A (1.1-1.6)	Cr+6, TAL Metals
2—	× × × × × × × × × × × × × × × × × × ×				
		LL: Black-stained ASH, some Rootlets, Glass, ebris, dry.	20.4 ppm	133-B17B (3.3-3.8)	Cr+6, TAL Metals
4-		LL: Black-stained ASH, some Rootlets, Glass, ebris, wet.	0.0 ppm	133-B17C (4.0-4.5)	Cr+6, TAL Metals
6-	Si	LL: Black-stained ASH and medium GRAVEL, little lt, Fill Material (glass, ceramics, tile, coal), loose, et. Impacted with viscous MGP Tar. Strong MGP lor.	0.0 ppm		
-	NI	R: No Recovery			
8-	× × litt	LL: Gray (Gley N6/0) ASH and medium GRAVEL, le Silt, Fill Material (glass, ceramics, tile, coal), loose, et. No odor.	0.0 ppm	133-B17D (8.0-8.5)	Cr+6, TAL Metals
10 —	NI	R: No Recovery	0.0 ppm		

ENCD AFCON	Client: PPG Industries	BORING ID:		
ENSR AECOM	Site: Site 133	133-B17		
Start Date:	Project: Site Investigation		Page: 2 of 3	
12/14/2006	Coordinates: X-611129.2 Y-682461	.7	Depth of Borir	ng: 32.00
End Date:	Elevation: 11.47		Geologist: P	. Kelly, M. Merdinger
1/3/2007	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	Kneller
Depth (ft) Lithology	Description	PID (bbw)	Sample ID	Kneller Sample Parameters
	.L: Gray (Gley N6/0) ASH and medium GRAVEL, e Silt, Fill Material (glass, ceramics, tile, coal), loose, /	0.0 ppm	133-B17E (12.2-13.2)	Cr+6, TAL Metals
× × we	t. No odor.	0.0 ppm	133-B17ED (12.2-13.2)	Cr+6, TAL Metals
	L: Black organic CLAY, trace orgaincs, medium f, moist. Slight naphthalene odor.		133-B17F (13.4-13.9)	Cr+6, TAL Metals
14 + FIL odd	L: Dark Gray (10YR 4/1) silty CLAY, soft, moist. No or.	3.8 ppm		
	AT: PEAT (Meadow Mat), some Organics, moist, edium stiff. Sulfur odor.	0.5 ppm		
16 — NR	2: No Recovery	1.7 nom		
	AT: Very Dark Gray (5Y 3/1) organic CLAY, little to ce Organics/Peat, shells, medium stiff, moist. Sulfur or.	1.7 ppm		
		0.9 ppm	133-B17G	MS/MSD, Cr+6, TAL
18 —		17.4 ppm	(17.5-18.5)	Metals
- NR	2: No Recovery	1.0 ppm		
	AT: Very Dark Gray (5Y 3/1) organic CLAY, little to ce Organics/Peat, shells, medium stiff, moist. Sulfur or.	2.4 ppm		
	- -	1.9 ppm	133-B17H	Cr+6, TAL Metals

ENCD	Client: PPG Industries			ING ID:
ENSR AEC	Site: Site 133	133-B17		
Start Date:	Project: Site Investigation		Page: 3 of 3	
12/14/2006	Coordinates: X-611129.2 Y-68246	1.7	Depth of Bo	ring: 32.00
End Date:	Elevation: 11.47		Geologist:	P. Kelly, M. Merdinger
1/3/2007	Drill Subcontractor: Eichelberger/Terra Pro	obe Incorporated	Driller: Hea	th Kneller
Debth (tt)	Description	PID (bbw)	Sample ID	th Kneller Sample Parameters
	CLAY: Dark Gray (10YR 4/1) fine to coarse sandy	1 1	(21.5-22.0)	1
22+	CLAY, trace Silt, soft, moist. No odor.	0.4 ppm		
	SAND: Dark Gray (10YR 4/1) fine to coarse SAND,			
<u> </u>	little Silt, trace Clay, loose, wet. No odor.			
		29.7 ppm		
24	NR: No Recovery	0.0 ppm		
	SILTY SAND: Dark Gray (10YR 4/1) fine to coarse silty	7 0.0 ppiii		
	SAND, little Clay, loose, wet. No odor.			
		0.0 ppm		
	SILTY SAND: Dark Gray (10YR 4/1) very fine silty SAND, trace Clay, wet. No odor.			
26+	CLAY: Dark Grayish Brown (10YR 4/2) medium to coarse sandy CLAY, trace Silt, soft, moist. No odor.	0.0 ppm		
	Course suring GEAT, trace Sitt, sort, moist. Two odor.			
		0.0 ppm		
	NR: No Recovery			
28 +	,	0.0 ppm		
	SANDY SILT: Dark Reddish Gray (5YR 4/2) fine to	О.О РРП		
<u> </u>	medium sandy SILT, trace Clay, medium stiff, moist. No odor.			
-		0.0 ppm		
	SAND AND SILT: Dark Reddish Gray (5YR 4/2) SAND and SILT, some Clay, loose, moist to wet. No odor.			
	and 5.21, 30mb old j, 10030, most to wet. 140 odd.			
30 +		0.0 ppm		
	NR: No Recovery	7		
		0.0 ppm		
32 \				
02	NULL: End of Boring at 32 ft.			

ENSR AECOM		Client: PPG Industries			BORING ID:		
		Site: Site 133	133	133-B18			
Start Da	te:	Project: Site Investigation		Page: 1 of 3			
12/14/20	006	Coordinates: X-611256.0 Y-682581	.1	Depth of Borir	ng: 32.00		
End Date	e:	Elevation: 11.50		Geologist: P	. Kelly, M. Merdinger		
1/4/2007		Drill Subcontractor: Eichelberger/Terra Pro		ted Driller: Heath	Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters		
$_{I}$ $^{0}_{ op}$							
	<u>√</u> 10	PSOIL: Black Topsoil, dry.	00000	133-B18A	Cr+6, TAL Metals		
		L: Dark Brown medium SAND and SILT, some fine	0.0 ppm	(0.4-0.9)	CITO, TAL IVIETAIS		
	$\times \times \times \times Gra$	avel, little Rootlets, dry.	0.0 ppm				
		L: Gray and little Red-orange ASH, some fine avel, little woody Organics, dry.		133-B18B(1.5-2.0) 133-B18BD(1.5-2.0)	Cr+6, TAL Metals Cr+6, TAL Metals		
2—	× × × × × ×						
-	× × FIL	L: Black-gray ASH, some fine to coarse Gravel,	1.2 ppm				
	trace woody Organics, Sand and Glass, dry.	ce woody Organics, Sand and Glass, dry.		133-B18C (3.4-3.9)	Cr+6, TAL Metals		
4+	× × × ×		0.0 ppm				
-	× × coa	L: Gray to Black-stained fine GRAVEL, some arse Gravel and coarse Sand, trace Glass and ramic pieces, wet. Slight petroleum odor.	0.0 ppm	133-B18D (4.5-5.0)	Cr+6, TAL Metals		
6-	$^{\sim} \times ^{\sim} \times$ cru	L: Dark Gray (2.5Y 4/1) ASH, little Silt and Sand, shed Fill Material (ceramics, glass, rocks, coal, od), loose, wet. No odor.					
-	× × × × × × × × × × × × × × × × × × ×	od), loose, wet. No odor.					
8—	×××						
	NR	t: No Recovery	0.0 ppm				
				133-B18E (8.5-9.0)	Cr+6, TAL Metals		
			0.0 ppm				
10 —			0.0 ppm				
	× × × FIL	L: Black-stained ASH, little Silt and Sand, crushed					

ENSR AECOM				NG ID: 3-B18
	Site: Site 133		15.	J-D 10
Start Date:	Project: Site Investigation		Page: 2 of 3	
12/14/2006	Coordinates: X-611256.0 Y-682581	.1	Depth of Bori	
End Date:	Elevation: 11.50			P. Kelly, M. Merdinger
1/4/2007	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heat	n Kneller
Depth (ft) Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
× × rub × × Co	Material (ceramics, glass, rocks, coal, wood, ober, oyster shells, metal), loose, wet. Impacted with al Tar. Naphthalene odor.			
× × 7/1	L: Pale Brown (10YR 6/3) and Light Gray (10YR) mottled SILT, little Clay, some Gray-Mint Greenish ining, soft, moist. No odor.	0.0 ppm	133-B18F (12.0-13.0)	Cr+6, TAL Metals
NR	t: No Recovery	0.0 ppm		
14 —				
	AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor.	5.7 ppm	133-B18G (16.0-17.0) 133-B18GD	Cr+6, TAL Metals Cr+6, TAL Metals
TT TT		6.9 ppm	(16.0-17.0)	OTTO, TAL INICIAIS
18 —		13.0 ppm		
- TT		13.5 ppm		
20 + SA	ND: Dark Gray (5Y 4/1) very fine to fine SAND, ce Silt, loose, wet. Slight sulfur odor.	. 18.2 ppm	133-B18H (20.2-20.7)	Cr+6, TAL Metals
- lua	oo om, 10036, wet. Slight suhu 0001.	6.7 ppm		

ENCD AECOM	Client: PPG Industries		BORIN	
ENSR AECOM	Site: Site 133	133-B18		
Start Date:	Project: Site Investigation		Page: 3 of 3	
12/14/2006	Coordinates: X-611256.0 Y-682581.	1	Depth of Bori	ng: 32.00
End Date:	Elevation: 11.50		Geologist: P	. Kelly, M. Merdinger
1/4/2007	Drill Subcontractor: Eichelberger/Terra Prol	pe Incorporated	Driller: Heath	Kneller
Debth (tt) Lithology	Description	PID (PPM)	Sample ID	Sample Parameters
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	T AND CLAY: Greenish (5GY 5/1) SILT and CLAY, e medium rounded Gravel, some mottling of Grayish een (5G 5/2) very fine Sand, medium stiff, moist. No	4.2 ppm		
	T AND GRAVEL: Brown (7.5YR 4/2) SILT and	0.0 ppm		
24 — Bro	arse medium GRAVEL, mottled with Light Olive own (2.5Y 5/4) and Dark Red (2.5YR 3/6), medium ase, moist. No odor.	0.0 ppm		
SIL'	T AND GRAVEL: Brown (7.5YR 4/2) SILT and arse medium GRAVEL, mottled with Light Olive own (2.5Y 5/4) and Dark Red (2.5YR 3/6), medium	0.0 ppm		
26 + den	ND: Reddish Brown (2.5YR 4/3) fine to coarse ND, trace Silt, loose, wet. No odor.	0.0 ppm		
NR	: No Recovery	0.0 ppm		
	ND: Reddish Brown (2.5YR 4/4) fine to medium ded SAND, trace Silt, loose, wet. No odor.	0.0 ppm		
		0.0 ppm		
30 +		0.0 ppm		
	TY SAND: Red (2.5YR 4/6) very fine silty SAND, ce interbedded fine to medium Sand, medium nse, wet. No odor.	0.0 ppm		
32 NR	: No Recovery			
	LL: End of Boring at 32 ft.			

ENCD	AECOM	Client: PPG Industries		BORIN	
ENSR	AECOM	Site: Site 133	133-B24		
Start Da	ite:	Project: Site Investigation		Page: 1 of 4	
12/14/20	006	Coordinates: X- 611215.8 Y-682685	.3	Depth of Bori	ng: 32.00
End Dat	e:	Elevation: 12.99		Geologist: P	. Kelly, M. Merdinger
12/18/20		Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
0_	×^×^	PHALT: Street level ASPHALT			
_		L: Gray coarse GRAVEL Rock (Macadam subace), dry.	0.0 ppm	133-B24A (0.5-1.0)	MS/MSD, Cr+6, TAL Metals
	× × Gra	L: Brown coarse SAND, some fine to coarse avel, little fine gravel-sized Slag, and trace fine vel-sized COPR (5%), dry.	0.0 ppm	133-B24B (1.4-1.9)	Cr+6, TAL Metals
2—		L: Gray ASH, some woody Organics, little Coal and ramic pieces, dry.			
_		L: Red-gray ASH, some fine Gravel, little Glass and al fragments, dry.	0.0 ppm	133-B24C (2.8-3.3)	Cr+6, TAL Metals
4—	X X Iittle	L: Dark Brown fine GRAVEL, some coarse Sand, e Brick fragments and medium Gravel, trace fine vel-sized COPR (5%), dry.	0.0 ppm	133-B24D	Cr+6, TAL Metals
_	× × FIL	L: Olive Gray (5Y 5/3) SILT, little Clay and jagged avel/Concrete pieces, chalky texture, 20% COPR, dium dense, moist. No odor. (WASTE MUD)	0.0 ppm	(4.5-5.0)	
6—		L: Black SILT and fine coarse GRAVEL, loose, wet. odor.	0.1 ppm		
	× × Gra	L: Olive Gray (5Y 5/3) SILT, little Clay and jagged avel/Concrete pieces, Bright Green lenses, White d Red-orange lenses, chalky texture, 20% COPR, dium dense, moist. No odor. (WASTE MUD)			
	NR	: No Recovery			
8+	хх		0.1 ppm	133-B24E	Cr+6, TAL Metals

ENSR AECON	Client: PPG Industries			NG ID:
ENSK AECON	Site: Site 133	133-B24		
Start Date:	Project: Site Investigation		Page: 2 of 4	
12/14/2006	Coordinates: X-611215.8 Y-682685	.3	Depth of Bori	ng: 32.00
End Date:	Elevation: 12.99		Geologist: P	. Kelly, M. Merdinger
12/18/2006	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Debty (41) Tityology	Description	PID (bbw)	Sample ID	Sample Sample Parameters
× × GI	LL: Olive Gray (5Y 5/3) SILT, little Clay and jagged ravel/Concrete pieces, Bright Green lenses, White and Red-orange lenses, chalky texture, 20% COPR, edium dense, moist. No odor. (WASTE MUD)		(8.0-8.5)	
× × × FI	LL: BRICK and SLAG	0.1 ppm		
$10 + \times \times \bigcirc CI$	LL: Pinkish Gray (5YR 6/2) and Brown SILT, some ay, little very fine to fine Sand, 5% COPR. (WASTE UD)	0.2 ppm		
ve	LL: Dark Brown (7.5YR 3/2) SILT and CLAY, little ery fine Sand, 5% COPR, loose, wet. Impacted with il. Sewage and Naphthalene odors.			
12 — NI	R: No Recovery			
× × FI × × ro	LL: Brown (7.5YR 4/3) SILT, some Clay, trace fine unded Gravel, Olive-Green staining, loose, wet. pacted with Yellow oil. Naphthalene odor.	1.8 ppm	133-B24F (12.0-12.5)	Cr+6, TAL Metals
- × × × × × × × ×		1.0 ppm		
	EAT: PEAT (Meadow Mat), some Organics, moist, edium stiff. Sulfur odor.	0.6 ppm	133-B24G (13.8-14.3)	Cr+6, TAL Metals
	R: No Recovery	0.8 ppm		
16 - PI	EAT: Very Dark Gray (5Y 3/1) organic CLAY, little	1.0 ppm		

ENCD AFCON	Client: PPG Industries	BORING ID: 133-B24		
ENSR AECOM	Site: Site 133			
Start Date:	Project: Site Investigation		Page: 3 of 4	
12/14/2006	Coordinates: X-611215.8 Y-682685	5.3	Depth of Borin	ng: 32.00
End Date:	Elevation: 12.99			. Kelly, M. Merdinger
12/18/2006	Drill Subcontractor: Eichelberger/Terra Pro	bbe Incorporated	Driller: Heath	Kneller
Depth (ft) Lithology	Description	PID (PPM)	Sample ID	Sample Parameters
-	ganics/Peat, medium stiff, moist. Sulfur odor.	2.8 ppm	133-B24H	Cr+6, TAL Metals
18 —		8.4 ppm	(17.5-18.0)	
<u> </u>	≳: No Recovery	10.4 ppm		
20 — PE	AT: Very Dark Gray (5Y 3/1) organic CLAY, some ganics/Peat, trace rounded small Gravel, medium f, moist. Sulfur odor.	0.1 ppm		
- TT		4.3 ppm		
22 — SIL fine	T: Dark Greenish Gray (5GY 4/1) SILT, some very e Sand, trace Clay, micaceous, moist. No odor.	2.3 ppm	133-B24I (21.7-22.2)	Cr+6, TAL Metals
		1.9 ppm		
NR NR	R: No Recovery			
24 +	.ND: Dark Reddish Gray (10R 4/1) very fine to	0.0 ppm		

ENCD AECOM	Client: PPG Industries			NG ID:
ENSR AECOM	Site: Site 133	133-B24		
Start Date:	Project: Site Investigation		Page: 4 of 4	
12/14/2006	Coordinates: X-611215.8 Y-682685	.3	Depth of Bori	ng: 32.00
End Date:	Elevation: 12.99			P. Kelly, M. Merdinger
12/18/2006	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Depth (ft) Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
med	dium SAND, trace Silt, loose, wet. No odor.	0.2 ppm		
	T: Dark Greenish Gray (5GY 4/1) SILT, trace Clay, lium dense, moist. No odor.	0.0 ppm		
	ND: Weak Red (10R 4/4) fine to coarse SAND, e Silt, loose, wet. No odor.	0.1 ppm		
28 —		0.0 ppm		
		0.0 ppm		
30 +		0.0 ppm		
		0.0 ppm		
NUL 32 — NUL	L: End of Boring at 32 ft.			

Site: Site 133

Driller N. Moyer

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

State Plane

Elevation

Drilling Date:

X: 682151.3

Y: 610792.2

1/19/2007

Coordinates

Drilling Method: HSA/Mud Rotary

Well Completion Date: 4/10/2007

10.4



Page: 1 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
-0 -1 -2 -3 -4 -5 -6 -7 -8 -8		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 0.0 0.0	2 2 3 2 9 7 4 3	X X X X X X X X X X X X X X X X X X X	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 10.4

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

Coordinates

Drilling Method: HSA/Mud Rotary



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 N/A	1 1 2 1 1 1 1 1 1 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 10.4

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

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 3 of 11

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
				1		
— 19			2.7	1 WH		Fall-in, no Recovery
-		135-2CI (19.2-19.3) Cr+6, TAL Metals	2.7	WH		Gray (5BG 5/1) PEAT and some medium to coarse Sand and Silt, wet, cohesive, very soft. Sulfur odor.
- 20				WH		No Recovery
- 21				2		
-		135-2CJ (21.0-22.0) MS/MSD, Cr+6, TAL Metals	3.4	2		Dark Gray (2.5Y 4/1) PEAT, organics, moist, cohesive, very soft. Sulfur odor.
- 22		135-2CK (22.0-22.5) Cr+6, TAL Metals	5.7	2		Dark Greenish Gray (5G 4/1) very fine SAND, some Silt, wet, very loose. Sulfur odor.
-				2	······	No Recovery
- 23 -		135-2CL (23.0-23.6) Cr+6, TAL Metals 135-2CLD (23.0-23.6) Cr+6, TAL Metals	3.7	2		Dark Gray (2.5Y 4/1) PEAT, organics, moist, cohesive, soft. Sulfur odor.
- 24		135-2CM (23.6-24.1) Cr+6, TAL Metals	37.9	3		Dark Greenish Gray (5G 4/1) very fine SAND and SILT, wet, very loose. Sulfur odor.
				4	-7-7-7-7	Gray (10YR 5/1) fine to coarse SAND and CLAY, little Silt, moist, cohesive, soft. No odor.
 25			37.9	4	//- <u>-</u>	No Recovery Gray (10YR 5/1) fine to coarse SAND and
- - 26				4		CLAY, little Silt, moist, cohesive, soft. No odor. Dark Reddish Gray (5YR 4/2) SILT, some Clay,
-				3		cohesive, soft, moist. Sulfur odor. Reddish Gray (2.5YR 5/1) SILT, little very fine
 27						Sand, moist, 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

Elevation 10.4

State Plane X: 682151.3

Coordinates X: 682

Drilling Method: HSA/Mud Rotary

Y: 610792.2



133-MW2C

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Drine	r N. Moyer		Memo	u:	nsA/Muu	Rotary	rage. 4 of 11
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithol	logic Description
- - - 28		135-2CN (27.6-28.1) Cr+6, TAL Metals	0.2	5 6			ay (5YR 4/2) SILT, some Clay, d, cohesive, medium, moist.
_				5	• • • • •		8 5/2) 5/2) very fine SAND, little e medium Gravel, moist,
_ 29			0.0	7	••••••	No Recovery	
				5			R 5/2) 5/2) very fine SAND, little e medium Gravel, moist,
30				6		Weak Red (10R 4	4/4) very fine SAND, little to
				6		No Recovery]
31			0.0	5	••••••		4/4) very fine SAND, some Silt,
		135-2CO (31.6-32.4)	0.0	4		loose, moist. No	odor.
32		Cr+6, TAL Metals	0.0	4			
-			_	5			
33			0.0	5			
				5			
34			0.0	4			4/4) SILT, little to none very fine
				4		Sand, wet, very lo	JUSE. INU UUUI.
- 35			0.0	1		Weak Red (10R 4 wet, very loose. N	4/4) SILT, little very fine Sand, No odor.
				2		No Recovery	
 36 							

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

10.4 **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
II I			I	2	1	
				2		
_ 37			0.0	2		W. I.B. 1440B 440 0HT 4
			0.0			Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, very loose. No odor.
38				2	<u></u>	No Recovery
				2		no necessity
				3		
39			0.0	3	· · · · · ·	Weak Red (10R 4/4) SILT, trace to none very
				3		fine Sand, wet, very loose. No odor.
- 40			0.0	4		
				6		No Recovery
41			0.0	10	······	W
			0.0			Weak Red (10R 4/4) very fine SAND, some to little Silt, wet, loose. No odor.
42				7		
			0.0	6		
				7		No Recovery
43			0.0	3		Weak Red (10R 4/2) fine to medium SAND, little
				4		to trace Silt, wet, very loose. No odor.
— 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

10.4 **Elevation**

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

Coordinates

Drilling Method: HSA/Mud Rotary



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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	<u> </u>	,
			0.0	5		No Recovery
— 49			N/A	5 3		
_			IN//-X	4		
50				5		
_				5		
<u> </u>			0.0	5	<u> </u>	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				3 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

1/19/2007 **Drilling Date:**

Well Completion Date: 4/10/2007

10.4 **Elevation**

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

Coordinates

Drilling Method: HSA/Mud Rotary



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Drine	er IN. Moyer		Metho	u	nsa/www.	Rotary Fage. 7 of 11
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
			ī	i	1	l Na Danner
				5		No Recovery
— 55						
			0.0	3		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
				3		
<u> </u>			0.0	3		
				3		
— 57						No Recovery
			0.0	3		Weak Red (10R 4/4) SILT, little very fine Sand, trace Clay, wet, loose. No odor.
				5	<u> </u>	
— 58			0.0	8	<u></u>	
				8		No Recovery
— 59						
			0.0	6	<u> </u>	Weak Red (10R 4/4) SILT, little very fine Sand, trace Clay, wet, loose. No odor.
				8	<u></u>	
- 60			0.0	10		
				9	<u>_ · _ · _ ·</u>	No Recovery
— 61						,
			0.0	8		Weak Red (10R 4/4) SILT, loose, moist. No odor.
				9	<u> </u>	
- 62			0.0	9	<u> </u>	No Recovery
				9		
— 63			0.0			
"			0.0	4	 -	l

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 10.4

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

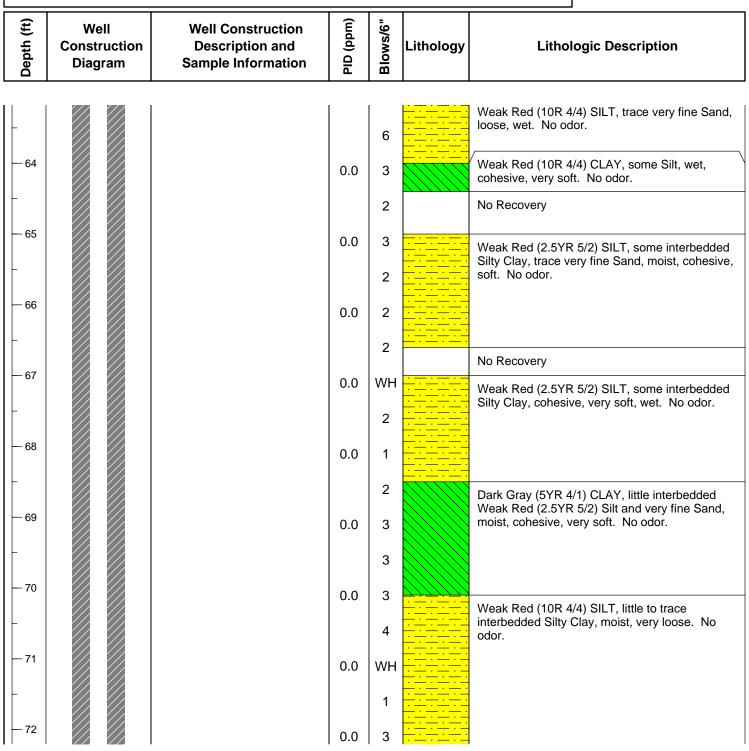
Coordinates

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

State Plane X: 682151.3

Coordinates

Elevation

Drilling Date:

Drilling Method: HSA/Mud Rotary

Well Completion Date: 4/10/2007

10.4

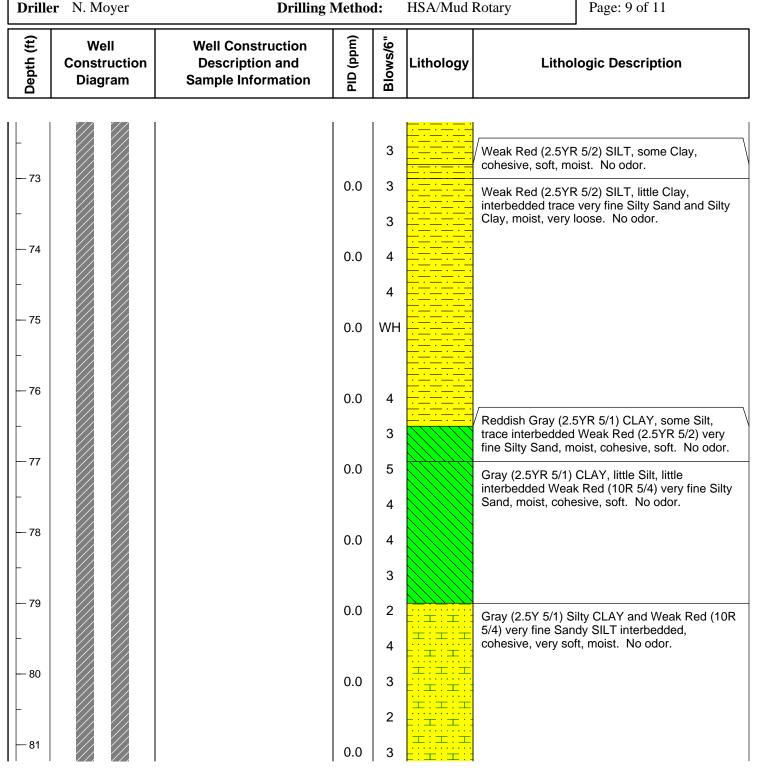
1/19/2007

Y: 610792.2



133-MW2C

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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

10.4 **Elevation**

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

Coordinates

Drilling Method: HSA/Mud Rotary



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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		Reddish Brown (2.5YR 5/3) SILT, trace Clay,
				4		loose, moist. No odor.
— 86				4	<u></u>	No Recovery
				4		No Noovery
				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			
			0.0	2		
				4		
89			0.0	6		Reddish Brown (2.5YR 5/3) SILT, trace very fine
				3		Sand and Clay, interbedded with little Gray (2.5Y 5/1) Silty Clay, moist, loose. No odor.
90			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

Elevation 10.4

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

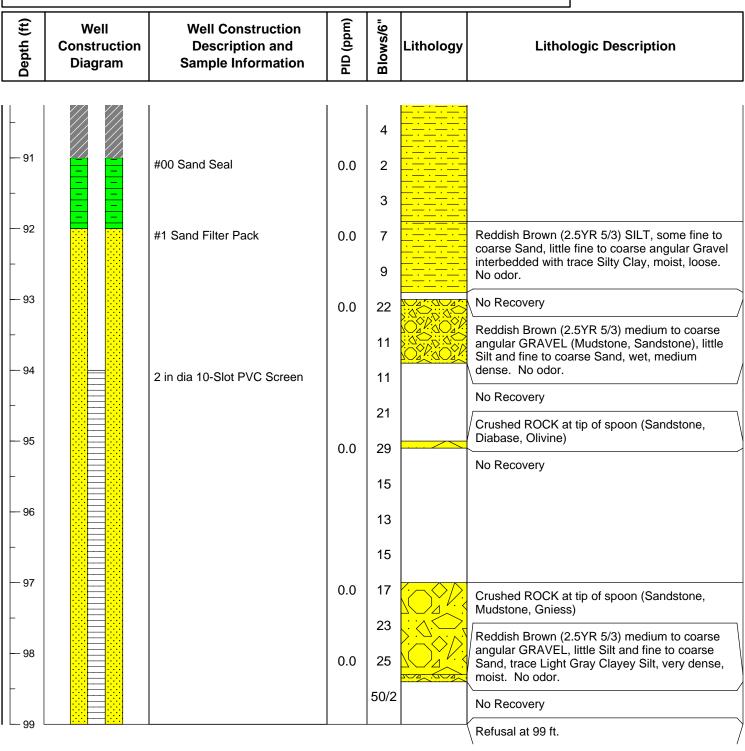
Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

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



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-AA21A

Page: 1

Project Name: PPG Garfield Ave
Project Number: 60240739
Date Started Drilling: 7/19/2013 9:30:00 AM
Date Finished Drilling: 7/19/2013 10:45:00 AM
Logged By: MI
Physical Location: Site 133 - AA21A

Drilling Company: SGS North America
Geoprobe
Coordinates (NJSPNAD83) x: 611319.125
Coordinates (NJSPNAD83) y: 682734
Core Size: 3 in
Boring Total Depth: 18 ft
Depth to Water: NA

						(No	te bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
-1-	2	0.0	dry	FILL		fine to medium SAND, some cinders, coal, trace coarse gravel, crushed, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, no odor, no staining.	
-2-		0.0	dry	FILL		fine to medium SAND, some cinders, coal, trace coarse	
-3	2	0.0	dry	FILL		gravel, crushed, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, no odor, no staining. ASH, and cinders, with coal, (10YR 6/2) light brownish gray, non plastic, loose to hard, dry, no odor, no staining.	
-5	2	0.0	dry	FILL		ASH, and cinders, with coal, little ceramics, fine sand, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining.	133-P3C-AA21A-5.0-5.
-6- - - -7	1.6	0.0	dry	FILL		ASH, and cinders, with coal, little ceramics, fine sand, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining.	133-P3C-AA21A-7.0-7.
4						NO DECOMEDY	100 1 00-7472 17-1.0-1.
-8-		0.0	alus i	NR	XXXXX	NO RECOVERY ASH, and cinders, with coal, little ceramics, fine sand,	
-		0.0	dry	FILL		(7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor,	133-P3C-AA21A-8.5-9
-9 -10	1		moist	FILL NR		\(\text{no staining.}\) \(\text{SILT, some fine sand, little ash, trace roots, (7.5YR 5/1)}\) \(\text{gray, low plasticity, soft, moist, no odor, no staining.}\)	133-F3C-AA21A-0.5-9
11—	1.2	0.0	moist	FILL		NO RECOVERY SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic soft, moist, no odor, no staining.	133-P3C-AA21A-10.5-1
				NR		NO RECOVERY	
-12 - -13 -	2	0.0	moist	FILL		SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining.	133-P3C-AA21A-12.5-1
-14 - -15	2	0.0	moist	FILL		SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining.	133-P3C-AA21A-14.5-1
–							133-P3C-AA21A-15.5-1
-16 - -17	2	2.3	dry	PT		PEAT (degraded vegetated material), 80% organics fibers, 20% organics silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-AA21A-16.0-1
-18							
ommen	nts: 1) 3 atte	mpts we	ere made to	obtain best reco	very 2) MN	M/UND confirmed to be 1 ft thick.	

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-AA22A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611310.504
Date Started Drilling: 11/13/2014 10:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682707.172
Date Finished Drilling: 11/13/2014 11:00:00 AM Core Size: 3.0 in Boring Total Depth: 25 ft
Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA
Physical Location: P3C - AA22A

epth ange bgs)	Recovery (ft/ft)	P I D (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_		0.0		1 C	ONCRET		CONCRETE	
-1 -		0.0	dry	3	FILL		ASH, little fine to medium sand, little fine to medium gravel, (7.5YR 3/3) dark brown, loose, dry, no odor, no	133-P3C-AA22A-1.0-1.
	5						staining.	133-P3C-AA22A-2.0-2.
3		0.0	dry	3	FILL		fine to medium SAND, some ash, trace debris, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	133-P3C-AA22A-4.0-4.
_ -5		0.0						133-F3C-AA22A-4.U-4.
- -6		0.0	moist to wet	3	FILL		CINDERS, little fine to medium silty sand, little wood fragments, trace debris, (10YR 5/2) grayish brown, loose, moist to wet, no odor, no staining.	400 000 44004 0 0 0
7 —	5						is see, more to mer, no easi, no etalling	133-P3C-AA22A-6.0-6.
8 — 9 —								133-P3C-AA22A-8.0-8.
-								
10— — 11—		0.0	wet	4C	FILL		ASH, little fine to medium gravel, little debris, (10YR 4/2) dark grayish brown, loose, wet, no odor, green staining.	133-P3C-AA22A-10.0-10
12— — 13—	5							133-P3C-AA22A-12.0-1
- 14 -		0.0	moist to wet	5	FILL		GGM, little ash, (5GY 4/4) olive green, soft, moist to wet, no odor, no staining.	
15— 16— 17— 18—	5	0.0	moist to wet	5	FILL		GGM, little ash, (5GY 5/2) grayish green, loose, moist to wet, no odor, no staining.	
19 <u> </u>		0.0	slightly	3	FILL		fine to medium silty SAND, trace ash, trace fine gravel,	133-P3C-AA22A-19.0-19
20 <u> </u>		0.0	moist slightly moist	7	PT		trace organic fibers, (7.5YR 2.5/1) black, soft to loose, slightly moist, no odor, no staining. PEAT (degraded vegetated material), 50% organic silt,	133-P3C-AA22A-19.5-20 133-P3C-AA22A-20.0-20
21— - 22—							50% organic fibers, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	
_	5					<u> </u>		
23— - 24—		0.0	slightly moist	9	OL		UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft,	
<u> </u>		0.0	dry	8	SP-SM		slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
25—			to sl moist				UND SAND, (7.5YR 5/1) gray, medium dense, dry to slightly moist, slight organic odor, no staining. Soils consistent with UNDno.	

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-AA25A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611270.135

 Date Started Drilling:
 3/17/2014 9:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682626.986

 Date Finished Drilling:
 3/17/2014 9:50:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

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

 Physical Location:
 P3C - AA25A

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 -2 -3	4	0.0		FILL		fine to medium SAND, some cinders, trace coal, wood fragments, (10YR 4/6) dark yellowish brown, loose.	
-4				NR		NO RECOVERY	
-5 -6 -7 -8 -9 -10	5	0.0	moist	FILL		GGM, some fine sand, little fine gravel, cinders, (5GY 5/2) grayish green, non plastic, soft, moist, no odor, green staining.	
-10 -11 -12 -13 -	5	0.0	moist	FILL		ASH, with cinders, some coal, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-AA25A-10.0-10
-14 							133-P3C-AA25A-14.0-14
-15		0.0	moist	FILL		ASH, with cinders, some coal, trace wood fragments, (7.5YR	133-P3C-AA25A-15.0-15
-16 -17 -	2	0.0		OL		3/1) very dark gray, loose, moist, no odor, no staining. UNDorg SILT, 90% organic fibers, 20% organic silt, (10YR 5/2) grayish brown, low plasticity, soft, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-AA25A-15.5-16
-18 -19 -20				NR		NO RECOVERY	

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Boring ID: 133-P3C-AA26A

Coordinates (NJSPNAD83) y: 682598.92

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611257.479

Date Started Drilling: 4/9/2014 11:20:00 AM Date Finished Drilling: 4/9/2014 12:30:00 PM Boring Total Depth: 20 ft Core Size: 2 in

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

Rig Type:

	I By: ES I al Locatio		^ ^^26^		,-	roject Manager:		Depth to Water: NA	•
riiysica	ai Locatio	II. F30	5 - AAZOA					(No:	tę bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cover and Thickn	ess:	Sample ID
		0.0	dry	FILL			SAND, with coarse gravel,		
-1 - -2 -	5	0.0	dry to moist	FILL		staining. fine to medium cement, trace of	rk gray, medium dense, dry SAND, with cinders, some glass, (10YR 5/2) grayish b noist, no odor, no staining.	e ash, little broken	133-P3C-AA26A-1.0-1.
-3 -4 -5									133-P3C-AA26A-3.0-3.
-6 -7		0.0	moist to wet	FILL		trace wood deb	silty SAND, some ash, littl vris, (10YR 4/1) dark gray, l o odor, no staining.	e medium gravel, medium dense,	133-P3C-AA26A-5.0-5.
-8 -9	5								133-P3C-AA26A-7.0-7
-10									133-P3C-AA26A-9.0-9
11		0.0	wet to saturated	FILL		(10YR 4/1) dar	 with wood debris, some of k gray, loose to medium de dor, no staining. 	coarse gravel, ense, wet to	133-P3C-AA26A-11.0-1
12-	5								
-13		0.0	moist	FILL			(1) very dark gray, low plas	sticity, soft, moist,	133-P3C-AA26A-13.0-1
-14		0.0	moist	FILL		no odor, no sta	ining. e silt, trace organics, (5YR	4/3) reddish	133-P3C-AA26A-13.5-1
15		0.0	dry	PT	7 77 7 77 77	brown, low plast PEAT (degrade	sticity, soft, moist, no odor, ed vegetated material), 80%	no staining. 6 organic fibers,	133-P3C-AA26A-14.0-1
'		0.0	moist	OL		\strong organic	lt, (7.5YR 2.5/3) very dark odor, no staining. Soils cor	nsistent with MM.	
16 -		0.0	moist	OL		5/1) gray, low point from the staining. So	70% organic silt, 30% orga blasticity, soft, moist, mode ils consistent with UNDorg	rate organic odor,	_
17—	5					5/1) gray, low p	90% organic silt, 10% orga plasticity, soft, moist, slight consistent with UNDorg.		
-18 - -19									
20									
	nts: 1) 3 atte				I				



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-AA27A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611243.125
Date Started Drilling: 5/22/2013 10:20:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682573.3125
Date Finished Drilling: 5/22/2013 2:35:00 PM Core Size: 3 in Boring Total Depth: 16 ft

Date Finished Drilling: 5/22/2013 2:35:00 PM Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - AA27A (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 **ASPHALT ASPHALT** 0.0 FILL fine to medium silty SAND, with fine to coarse gravel, dry 2 little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining. 0.0 FILL fine to medium silty SAND, with fine to coarse grave, little dry coal, ash, trace brick, (5YR 3/2) dark reddish brown, non 0.0 dry FILL 1.8 slightly FILL plastic, loose to dense, dry, no odor, no staining 0.0 ASH, some cinders, coal, wood fragments, (10YR 7/2) moist light gray, non plastic, loose, dry, no odor, no staining fine SAND, trace silt, (7.5YR 3/4) dark brown, non NR 63.4 moist FILL plastic, loose, slightly moist, no odor, no staining NO RÉCOVÉRY 1.1 ASH, with tar-like material and cinders, coal, little fine to NR coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, moist, moderate tar odor, sheen. 10.6 **FILL** NO RECOVERY moist ASH, some fine to medium sand, coal, cinders, wood 133-P3C-AA27A-6.5-7.0 1.3 fragments tar-like material, little glass, tar-like material, (7.5YR 4/1) dark gray, non plastic, loose, moist, moderate tar odor, sheen, sheen in spilt spoon. NR NO RECOVERY 0.0 moist **FILL** ASH, some fine to medium sand, coal, cinders, wood 133-P3C-AA27A-8.5-9.0 fragments, tar-like material, little glass, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no NR staining, sheen in spilt spoon. NO RECOVERY 0.0 moist **FILL** ASH, some fine to medium sand, coal, cinders, wood fragments, ceramics, tar-like material little glass, (7.5YR 133-P3C-AA27A-10.5-11.0 1.2 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon. NO RECOVERY NR NR NO RECOVERY 0 -13 0.0 **FILL** ASH, some fine sand, coal, cinders, wood fragments, moist 133-P3C-AA27A-14.2-14.7 ceramics tar-like material, little glass, (7.5YR 3/1) very 133-P3C-AA27A-14.7-15.2 2 2.9 PT dry dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon. 0.0 MH moist PEAT (degraded vegetated material), 80% organic fibers, -16 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong petroleum odor, no staining. Soils consistent with MM. UNDno SILT, with roots, little organics, (10YR 4/2) dark grayish brown, medium plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-AA27A-ME

Project Project	Number:					Drilli	ing Method: Direct Push	Coordinates (NJSPNA	AD83) x: 611243.362
	arted Drill			00:00	PM		Гуре:	Coordinates (NJSPNA	<u> </u>
Date Fi	nished Dri	lling:	6/8/2015 7	7:00:00	PM	Core	Size: 3 in	Boring Total Depth:	10 ft
Logged	By: ES					Proje	ect Manager: Scott Mikaelian	Depth to Water: 6.0	
Physica	al Location	: P3C	-AA27A					Surface Elevation: 1	1.675 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
		0.0	dry	3	FILL		ASPHALT, (7.5YR 2.5/1) black, dry.	no odor, no staining.	
 1		0.0	dry	3	FILL		fine to medium SAND, little brick, tra 4/2) dark grayish brown, medium de staining.	ace wood debris, (10YR	133-P3C-AA27A-0.5-1.0
_									
-2-		0.0	dry	3	FILL		ASH, little coal fragments, (10YR 5/	1) gray, loose, dry, no	133-P3C-AA27A-2.0-2.5
-3-	4	0.0	moist	3	FILL		odor, no staining. fine to medium SAND, trace ash,(7. medium dense, moist, no odor, no s	5YR 3/3) dark brown,	
		0.0	moist	3	FILL		fine to medium, little coal fragments		133-P3C-AA27A-3.5-4.
4 		0.0	moist	3	NR	*****	medium dense, moist, no odor, shee NO RECOVERY.		
5 6 		0.0	wet	3	FILL		Incinerator ASH, little wood debris, t dark grayish brown, loose, DTW @ bgs color gray.		133-P3C-AA27A-5.0-5.
7 	3								133-P3C-AA27A-7.0-7.
8 9				3	NR		NO RECOVERY.		
-									
	ow surface o	grade (COPR - chro	mite o	e process	ina residue	e UNDno - non-organic undisturbed native	deposits MGP - manufa	actured gas plant

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Test Pit ID: 133-P3C-BB21A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611340.211Date Started Drilling:11/13/2014 9:00:00 AMRig Type:Coordinates (NJSPNAD83) y:682710.279Date Finished Drilling:11/13/2014 9:50:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:SPProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:P3C - BB21A

Depth Range ft bgs)	Recovery (ft/ft)	P I D (ppm)	Moisture Content	Class		Graphic Log	Surface Cover and Thickness.	Sample ID
		0.0		1 C	ONCRET	Pa A Pa	CONCRETE. Some green staining.	
-1-		0.5	dry	3	FILL		fine to medium SAND, trace gravel, (10YR 3/6) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-BB21A-0.5-1.0
2-	5	0.9	dry	3	FILL		fine to medium SAND, some ash, trace coal, trace debris, trace gravel, (10YR 4/4) dark yellowish brown,	133-P3C-BB21A-2.0-2.
-3 -4		0.7	slightly moist	3	FILL		medium dense, dry, no odor, no staining. ASH, trace fine to medium sand, trace gravel, trace glass, trace debris, (10YR 5/1) gray, loose, slightly moist, no odor, no staining.	133-P3C-BB21A-4.0-4.
- 5 		0.0	moist	3	FILL		ASH, trace gravel, trace coal, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, moist, no odor,	
-6— - -7—	4						no staining.	133-P3C-BB21A-6.0-6.
8 —								133-P3C-BB21A-8.0-8.
9				NR	NR		NO RECOVERY	
-10 - -11		0.0	wet	3	FILL		ASH, trace debris, trace gravel, trace coal, trace crushed shell fragments, (10YR 5/1) gray, loose, wet, no odor, no staining.	133-P3C-BB21A-10.0-10
12	4							133-P3C-BB21A-12.0-1
14—				NR	NR	*****	NO RECOVERY	133-P3C-BB21A-14.0-1
15		0.0	moist moist	3	FILL FILL		ASH, trace gravel, trace debris, trace fine to medium sand, (10YR 6/1) gray, loose, moist, no odor, no staining.	400 000 000
17—		0.0					fine to medium silty SAND, trace gravel, trace ash, trace organic fibers, trace wood fragments, (10YR 4/3) brown.	133-P3C-BB21A-16.0-16 133-P3C-BB21A-16.5-17 133-P3C-BB21A-17.0-17
-18 -19 	5	0.0	slightly moist	7	PT		low plasticity, medium dense, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-F30-BB21A-17.0-17
-20								
	ts : 1) 3 atter							

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/12/2014 9:15:00 AM

Boring ID: 133-P3C-BB22A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611337.545 Rig Type: Coordinates (NJSPNAD83) y: 682693.591

Date Finished Drilling: 3/12/2014 9:50:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA

Project Manager: Chris Martell Logged By: MI

Depth Range	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness:	Sample
t bgs)	(ft/ft)	(ppm)	Content	0303	Log	Surface Cover and Thickness.	ID
		0.0		FILL		CONCRETE	
-1 - -2		0.0	dry	FILL		fine to medium SAND, with fill material (cinders, ash, concrete, glass, brick), medium dense, dry, no odor, no staining.	133-P3C-BB22A-1.0-1.5
-3 -4	5						133-P3C-BB22A-3.0-3.5
-5-		0.0		FILL		fine to coarse SAND, with coarse gravel, some fill material.	133-P3C-BB22A-5.0-5.
-6 -7							
-8	5	0.0	wet	FILL		fine to coarse SAND, with cinders and fill material, (7.5YR	133-P3C-BB22A-7.0-7.
-9						4/1) dark gray, medium stiff, wet, no odor, no staining.	400 B00 BB004 0 0
		0.0		E		for the condition OANID areas fill and with / violate and	133-P3C-BB22A-9.0-9.
_ -11		0.0	wet	FILL		fine to medium SAND, some fill material (cinders, ash, concrete), little gravel, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3C-BB22A-11.0-11
-12 -	5						
-13 - - -14 -		0.0	wet	FILL		fine to coarse SAND, with coarse gravel, some fill material, (7.5YR 4/1) dark gray, stiff, wet, no odor, no staining.	133-P3C-BB22A-13.0-13
		0.0	wet	FILL		fine to medium silty SAND, some fill material, (7.5YR 5/1)	
-15		0.0	wet	FILL		gray, medium dense, wet, no odor, no staining.	133-P3C-BB22A-15.0-15
-16 - -17	5	0.0	moist to wet	PT		fine to medium silty SAND, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, medium stiff to stiff, moist to wet, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-BB22A-15.5-16
-18 -	O				<u> </u>		
-19 -					1/ 7/1/ 7/ 7/1/ 7/1/		
20					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		

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Boring ID: 133-P3C-BB24A

.

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611310.407 Date Started Drilling: 4/8/2014 8:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682640.177 Date Finished Drilling: 4/8/2014 9:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: SS Project Manager: Chris Martell Physical Location: P3C - BB24A

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1		0.0	dry to moist	FILL		fine to medium SAND, some ash, little coarse gravel, trace coal, trace brick, (7.5YR 3/3) dark brown, loose, dry to moist, no odor, sheen.	
-3 - 3 4	5	0.0	moist	FILL		CINDERS, little wood fragments, little coal, trace ceramics, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	
		0.0	moist	FILL		GGM, some fine sand, little salt precipitate, (7.5YR 5/1)	
-5		0.0	moist	FILL		gray, (5GY 5/2) grayish green, non plastic, soft, moist, no odor, green staining. GGM, some fine sand, little salt precipitate, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining.	
	5						
-10 -11 -12 -13 -14	5	0.0	moist	FILL		GGM, some fine sand, little salt precipitate, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining.	
-15		0.0		F		0014	
_ _16		0.0	moist moist	FILL PT	\(\frac{\frac}\firi}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac	GGM, some fine sand, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, moist,	133-P3C-BB24A-15.5-16 133-P3C-BB24A-16.0-16
-17 -18 -19	5	0.0	moist	OL		moderate organic odor, no staining. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/1) dark gray, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
\dashv		0.0	moist	PT	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	PEAT (degraded vegetated material), 80% organic fibers,	
20		0.0	moist	ri_		20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	

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Boring ID: 133-P3C-MW101I

Page: 1

Drainat Nam	an DDC C	orfiold Avo			Drilling Company Advanced Drilling Inc		Page:
	ne: PPG Ga nber: 6024				Drilling Company: Advanced Drilling Inc. Drilling Method: HSA/Mud Rotary	Coordinates (N ISD	NAD83) x: 611148.2
	d Drilling:		1:15:00 AM		Rig Type:		IAD83) y: 682630.9
	ed Drilling:				Core Size: 6.0 in	Boring Total Depth:	
Logged By:		1/2//2010	11.00.00 /1		Project Manager: Scott Mikaelian	Depth to Water: 5.0	
Physical Lo					110jeut manager. Cook windonari	Surface Elevation:	
	, cation.					Ouridee Elevation.	0.4 10 10 10 00
Depth Range ft bgs)	overy PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickn	ess:	Sample ID
	0.0	wet	FILL		Amended DGA, (7.5YR 5/1) gray, wet no wet at 5.0 ft bgs. Organic SILT, 80% organic silt, 20% organic		
	.8	wet	SP		5/2) grayish brown, soft, moist slight orga staining. Soils consistent with UNDorg. fine to medium SAND, little silt, (7.5YR 5.	nic odor no /1) gray, medium	
			NR		dense, wet no odor no staining. Soils con UNDno. NO RECOVERY	sistent with	-
-22-					NO NEGOVERT		
	1						
_23							
· 🕇							
-25	0.0	wet	SP		fine to coarse SAND, with gravel, (5YR 4)	/3) reddish brown	-
	0.0	wet	32		medium dense, wet no odor no staining.	Soile consistent	
					medium dense, wel no odor no staining.	JUIIS CUI ISISTEITE	
lotes:		0000			added INDeed and an in the first of the		fortunal control of
oas - below su	urtace grade	COPR - chro	omite ore prod	cessing r	esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	eposits MGP - mani	ufactured gas plant
MM - meadow	/ mat	GGM - green	arev mud	-	UNDorg - organic undisturbed native depor	sits CCDM - chi	omate chemical production was

Project Number: 60240739

Project Name: PPG Garfield Ave

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-MW101I

Page: 2 Drilling Company: Advanced Drilling Inc. Coordinates (NJSPNAD83) x: 611148.2 Coordinates (NJSPNAD83) y: 682630.9

Date Started Drilling: 1/22/2016 11:15:00 AM Rig Type: Core Size: 60 in Date Finished Drilling: 1/27/2016 11:00:00 AM Boring Total Depth: 46 ft

Drilling Method: HSA/Mud Rotary

		illing:	1/27/2016	3 11:00:00 A		Core Size: 6.0 in	Boring Total Depth:	
	By: ES					Project Manager: Scott Mikaelian	Depth to Water: 5.0	
Physica	al Locatio	n:					Surface Elevation:	9.4 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thi	ckness:	Sample ID
				NR		with UNDno.		
-27						NO RECOVERY		
-2/	1							
-28								
-29								
30								
30		0.0	wet	SP		fine to medium SAND, (5YR 4/3) redd	lish brown, medium	
-31						dense, wet no odor no staining. Soils	consistent with	
٦' _				NR		UNDno. NO RECOVERY		
32						NO NESOVEIXI		
JZ _	1							
-33								
-34								
· 4								
35								133-P3C-MW101I-35.0-35.5
		0.0	wet	SP		fine to medium SAND, (5YR 4/3) redd dense, wet no odor no staining. Soils of	lish brown, medium	133-P3C-MW 1011-35.0-35.5
36						UNDno.	JOHSISTEHT WITH	
4				NR		NO RECOVERY		
-37								
-	1							
-38								
\dashv								
39-								
-								
40		0.0	wet	SP	23.55	fine to medium SAND, (5YR 4/3) redd	lish brown medium	133-P3C-MW101I-40.0-40.5
\dashv	1.3	0.0	, wet	O.		dense, wet no odor no staining. Soils of	consistent with	
41	1.3					UNDno.		
40				NR		NO RECOVERY		
42		0.0	wet	SP		fine SAND, (5YR 4/3) reddish brown,	medium dense, wet no	
43-	1					odor no staining. Soils consistent with	UNDno.	
- 3				NR		NO RECOVERY		
-44								
		0.0	wet	SM		fine SAND, little silt, (5YR 4/3) reddish	n brown, medium	133-P3C-MW101I-44.0-44.5
45	1.5					dense, wet no odor no staining. Soils of UNDno.	JOHSISTEHT WITH	
4				N.D.				-
46				NR	-	NO RECOVERY		
- 1								
			1		1			
otes:					<u> </u>			
gs - bel	low surface		COPR - chr		cessing re	sidue UNDno - non-organic undisturbed nativ UNDorg - organic undisturbed native de	re deposits MGP - manu	l ufactured gas plant omate chemical production wa

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Project Name: PPG Garfield Ave

Date Started Drilling: 7/18/2013

Project Number: 60240739

Boring ID: 133-P3C-S40A/133-S40A

Coordinates (NJSPNAD83) x: 610851.222 **Coordinates (NJSPNAD83) y:** 682338.143

Page: 1

Rig Type: Geoprobe

Drilling Company: SGS North America

Drilling Method: Direct Push

	By: MI/I		4/22/2015	,		Core Size: 3.0 in Project Manager: Scott Mikaelian	Boring Total Depth: Depth to Water: NA	
			e 133 - S40	0A	1	Tojou manageri Cook Minadian	•	
							(Not	e bgs = below ground surface)
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
		0.0	dry	ASPHALT		ASPHALT		
-1	2	0.0	uly	FILL		COPR, trace fine to medium sand, dusky red, non plastic, loose, dry, i		
-2-		0.0	moist	FILL		GGM, trace ash, non plastic, loose	e, moist, no odor, green /	
-3-	1.5	0.0	dry	FILL		\staining. CINDERS, little ash, little coal, (5R plastic, loose, dry, no odor, no stai		
_ 4				NR		NO RECOVERY		
-5	1.8	0.0	moist	FILL		fine to medium SAND, with ash, cin fragments, ceramics, (7.5YR 3/1) of plastic, loose, moist, no odor, gree	very dark gray, non	133-P3C-S40A-5.0-5.5
\dashv								
-6-		0.0	moist	NR_		NO RECOVERY		
	1.7	0.0		FILL		fine to medium SAND, with ash, cited fragments, ceramics, (7.5YR 3/1) v		
-7-	1.7	0.0	moist	FILL		\plastic, loose, moist, no odor, gree fine silty SAND, with wood fragmer	n staining.	133-P3C-S40A-7.0-7.5
-8-				NR	XXXXX	gravel, (5YR 5/2) reddish gray, nor		
-9	2	0.0	moist	FILL		\moist, no odor, no staining. \NO RECOVERY fine silty SAND, with wood fragmer		133-P3C-S40A-9.0-9.5
10						gravel, little ash, (10YR 5/4) yellow loose to soft, moist, no odor, no sta		133-1 30-040/4-3.0-3.3
	4.5	0.0	moist to	FILL		SILT, some fine sand, little coarse yellowish brown, low plasticity, soft		
-11	1.5		wet			odor, no staining.		133-P3C-S40A-11.0-11.5
-12		0.0		NR		NO RECOVERY		
13	2	0.0	moist to wet	FILL		SILT, some fine sand, little coarse yellowish brown, low plasticity, soft odor, no staining.		133-P3C-S40A-13.0-13.5
4					\bowtie			133-P3C-S40A-13.5-14.0
14		2.1	aliabtly	PT	XY	PEAT (degraded vegetated materia	al) 70% organia fibora	133-P3C-S40A-14.0-14.5
-15	1.6	0.0	slightly moist moist	OL	<u></u>	20% organic silt, (7.5YR 3/2) dark	brown, non plastic,	
-				NR	===	consistent with MM. UNDno SILT, 80% inorganic silt, 20		133-S40A-15.2-15.7
-16				IVIX		5/2) grayish brown, low plasticity, s organic odor, no staining. Soils cor NO RECOVERY	soft, moist, slight //	
						(10 NESSVEIN)		



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Boring ID: 133-P3C-S41A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 610839.625
Date Started Drilling: 6/25/2013 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682306.25
Date Finished Drilling: 6/25/2013 12:40:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Dhysical Leasting City 122 C41A		

D 41-							bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
 1	1.1	0.0	dry	FILL		CINDERS, some fine to medium sand, little COPR, little gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, dry to slightly moist.	133-P3C-S41A-0.5-1.0
				NR		NO RECOVERY	
-3	2	0.0	slightly moist	FILL		CINDERS, some ash, little fine silty sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist to moist.	133-P3C-S41A-2.5-3.(
-4		0.0	moist	FILL		CINDERS, some ash, (10YR 3/2) very dark grayish	133-P3C-S41A-4.0-4.5
-5- -	0.5		to wet	NR		brown, non plastic, loose, moist to wet. NO RECOVERY	
-6 -7	1.2	0.0	wet	FILL		CINDERS, some ash, little fine to medium sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet, moderate petroleum odor. NO RECOVERY	133-P3C-S41A-6.0-6.5
-8- - -9	1.5	0.0	wet	FILL		CINDERS, some ash, little gravel, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet, moderate petroleum odor, sheen.	133-P3C-S41A-8.0-8.9
				NR	XXXXX	NO RECOVERY	
-10		0.0	moist	FILL		fine to medium silty SAND, some cinders, (10YR 3/2)	133-P3C-S41A-10.0-10
-11	1.5	0.0	to wet moist	FILL		very dark grayish brown, non plastic, medium dense, moist to wet. fine to medium silty SAND, little ceramics, (5YR 5/3)	
-12 -	0.8	0.0	wet	NR FILL		reddish brown, non plastic, medium dense, moist. NO RECOVERY CINDERS, some ash, some fine to medium sand, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-S41A-12.0-12
-13 -	0.0			NR		NO RECOVERY	
-14		0.0	wet	FILL		CINDERS, some ash, little silt, (10YR 3/1) very dark	133-P3C-S41A-14.0-14
-15 -16	2	1.9	moist	PT	\(\lambda \lambda \lambd	gray, non plastic, loose, wet. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, soft, moist, moderate sulfur odor. Soils consistent with	133-P3C-S41A-14.5-15
						MM.	

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Boring ID: 133-P3C-S42A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Coordinates (NJSPNAD83) x: 610826.301 Project Number: 60240739 Drilling Method: Geoprobe
 Date Started Drilling:
 4/2/2014 9:55:00 AM

 Date Finished Drilling:
 4/2/2014 9:00:00 AM
 Rig Type: Coordinates (NJSPNAD83) y: 682279.471

Boring Total Depth: 20 ft Core Size: 2.0 in

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

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 - -2	4	0.0	dry	FILL		fine to medium SAND, little coarse gravel, trace brick, trace COPR nodules, (5YR 4/3) reddish brown, loose, dry, no odor, green staining.	133-P3C-S42A-0.5-1.0
-3-							133-P3C-S42A-2.5-3.0
4		0.0	dry	FILL		fine to medium SAND, little coarse gravel, little cinders, (5YR	
` _		0.0	dry	FILL		4/1) dark gray, (7.5YR 3/2) dark brown, loose, dry, no odor, //no staining.	
5		0.0	dry	FILL		_\ fine to medium silty SAND, little cinders, trace brick, (7.5YR /	133-P3C-S42A-4.5-5.0
-6 -7	4	90.0	dry to moist	FILL		\(\sigma_2.5/2\)\ very dark brown, loose, dry, no odor, no staining. \(\text{crushed CONCRETE}\), little coarse gravel, (10YR 7/1) light \(\text{gray}\), loose, dry, no odor, no staining. \(\text{fine to medium SAND}\), some ash, some cinders, trace wood \(\text{fragments}\), (7.5YR 2.5/3) very dark brown, loose, dry to \(\text{moist}\), slight hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-6.5-7.0
-8 -9 -10	4	320.0	wet	FILL		CINDERS, some coarse gravel, trace glass fragments, (7.5YR 3/1) very dark gray, loose, wet, moderate hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-8.5-9.0
-11 -12		0.0					133-P3C-S42A-10.5-11
_ _13 _ _14	4		wet	FILL		fine to medium SAND, some cinders, little coarse gravel, little ash, loose, wet, slight hydrocarbon odor, no staining.	133-P3C-S42A-12.5-13
		0.0	moist	FILL		CINDERS, some fine to medium sand, little ash, little coarse gravel, (7.5YR 4/1) dark gray, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-14.5-15
10		28.6	moist	FILL		CINDERS, some fine to medium sand, little ash, trace	133-P3C-S42A-16.0-16.
-17 		0.0	to wet	PT	<u> </u>	ceramics, (7.5YR 4/1) dark gray, loose, moist to wet, slight //hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-16.5-17
_ -18 -	4		dry			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, low plasticity, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
-19 - -20		0.0	dry	OL		UNDorg organic SILT, some organics, little roots, (5YR 4/1) dark gray, low plasticity, medium dense, dry, strong organic odor, no staining. Soils consistent with UNDorg.	

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Boring ID: 133-P3C-S44A

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

 Project Number:
 60240739
 Drilling Method:
 Coordinates (NJSPNAD83) x:
 610799.156

 Date Started Drilling:
 4/4/2014 8:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682225.996

Date Finished Drilling: 4/4/2014 9:55:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: FM 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	0 4 4 0	CONCRETE	
-1 - -2	5	0.0	slightly moist	FILL		ASH, with cinders, some fine sand, trace glass fragments, trace fine gravel, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining.	133-P3C-S44A-0.5-1.0
-3							133-P3C-S44A-2.5-3.0
-4- -		0.0	slightly moist	FILL		fine to medium sandy ASH, some fine sand, little glass, trace wood fragments, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	133-P3C-S44A-4.5-5.0
-5— - -6—		0.0	moist	FILL		ASH, some cinders, some fine gray sand, trace silt, trace fill debris, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-130-34474.3-3.0
-7 -0	5						133-P3C-S44A-6.5-7.0
-8 -9 -		0.0	moist to wet	FILL		fine to medium silty SAND, some medium gravel, trace mixed fill debris, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S44A-8.5-9.0
-10 -11 -12		0.0	slightly moist	FILL		fine to medium silty SAND, some fine gravel, slightly firm, (7.5YR 4/3) brown, loose, slightly moist, no odor, no staining.	133-P3C-S44A-10.5-11
-13 	5	0.0	wet	FILL		ASH, some fine to medium gravel, trace medium to coarse	133-P3C-S44A-12.5-13.
-14 - -15						sand, trace coal, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-S44A-14.5-15
-		0.0	moist to	FILL		ASH, some cinders, some medium sand, trace fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist to wet,	133-P3C-S44A-15.5-16.
-16 — -17— -18— -19—	. 5	0.0	wet slightly moist	PT		no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-S44A-16.0-16.
20 —					1, \(\), \(\)		

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Boring ID: 133-P3C-S45A

Page: 1

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

Drilling Company: SGS North America
Drilling Method:

 Project Number:
 60240739
 Drilling Method:
 Coordinates (NJSPNAD83) x:
 610785.669

 Date Started Drilling:
 4/4/2014 10:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682199.155

 Date Finished Drilling:
 4/4/2014 10:55:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Physical Location: P3C - S45A (Note bgs = below ground surface

Depth Range	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness:	Sample
t bgs)	(ft/ft)	(ppm)	Content		Log		ID
		0.0		CONCRETE	0 4 4 0	CONCRETE	
-1 -		0.0	moist to wet	FILL		ASH, some fine sand, some cinders, trace fine gravel, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S45A-0.5-1.0
-2	5						
-3							133-P3C-S45A-2.5-3.0
-4							133-P3C-S45A-4.5-5.0
-5		0.0	wet	FILL		ASH, some cinders, some fine sand, trace coal, trace fine	133-F3C-343A-4.3-3.0
-6- -						gravel, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	
							133-P3C-S45A-6.5-7.0
-7	5						
-8							
_ -9							133-P3C-S45A-8.5-9.0
_							
-10		0.0	moist	FILL		fine to medium silty SAND, trace fine gravel, (7.5YR 6/3)	
-11						light brown, firm, moist, no odor, no staining.	133-P3C-S45A-10.5-11.
- -12	5	0.0	wet	FILL		ASH, some medium sand, some medium gravel, trace silt, (7.5YR 6/4) light brown, loose, wet, no odor, no staining.	_
-13 	3						133-P3C-S45A-12.5-13.
-14 -							133-P3C-S45A-14.5-15
-15 — —		0.0	wet	FILL		ASH, some medium sand, some silt, trace fine gravel, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	
-16 -							133-P3C-S45A-16.0-16
-17	_	0.0	moist	PT	7 77 7 77 77 7	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/2) brown, stiff, moist, strong	133-P3C-S45A-16.5-17
 -18	5				<u> </u>	organic odor, no staining. Soils consistent with MM.	
-					77 77 7		
-19 -		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR	1
20						5/1) gray, stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
						ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any into	

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

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

Boring ID: 133-P3C-S46A

Page: 1

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

Drilling Method: Coordinates (NJSPNAD83) x: 610771.987
Rig Type: Coordinates (NJSPNAD83) y: 682172.433

Date Finished Drilling: 4/4/2014 9:30:00 AM Core Size: 2 in Boring Total Depth: 20 ft

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

 Physical Location:
 P3C - S46A

Depth	D	חום	Maiatona		Carabia		Camania
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-		0.0	slightly moist	FILL		ASH, with cinders, some coal, little wood fragments, (10YR 4/6) dark yellowish brown, loose, slightly moist, no odor, no	133-P3C-S46A-0.5-1.0
						staining.	
-2	5						133-P3C-S46A-2.0-2.5
-3							
-4-							100 500 0101 10 11
-							133-P3C-S46A-4.0-4.
-5-		0.0	moist	FILL		CINDERS, with ash, coal, some fine gravel, little fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	
-6							133-P3C-S46A-6.0-6.5
-7-							
\dashv	4						
-8-							133-P3C-S46A-8.0-8.5
-9				NR		NO RECOVERY	
-10		0.0			XXXXX	A011 711 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	133-P3C-S46A-10.0-10
_ _11		0.0	moist	FILL		ASH, with cinders, little wood fragments, fill material, (7.5YR 6/1) gray, loose, moist, no odor, no staining.	133-P3C-346A-10.0-10
-							
-12	5						133-P3C-S46A-12.0-12
-13							
' -							133-P3C-S46A-14.0-14
-15		0.0	moist	FILL		medium GRAVEL, some cinders, little silt, fine sand, (7.5YR	133-P3C-S46A-15.0-15
-16 		0.0	to wet	PT	<u> </u>	4/1) dark gray, loose, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers,	133-P3C-S46A-15.5-16
			moist		<u>\1, \1,</u>	20% organic silt, (7.5YR 3/2) dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	
'' _	5				1, 11, 1		
-18					<u> </u>		
					11, 11,		
+		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, non plastic, soft, moist, moderate	
20						organic odor, no staining. Soils consistent with UNDorg.	
			ere made to				

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/3/2014 9:40:00 AM

Boring ID: 133-P3C-S47A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610758.705

Rig Type: Coordinates (NJSPNAD83) y: 682145.53

Date Finished Drilling: 4/3/2014 10:28:00 AM Core Size: 2 in Boring Total Depth: 20 ft

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

 Physical Location:
 P3C - S47A

Depth							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
İ		0.0		CONCRETE	P & 4 P 4	CONCRETE	
-1 - -2	5	0.0	dry	FILL		fine to medium SAND, some cinders, coal, ash, little trace ceramics, fill material, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	133-P3C-S47A-0.5-1.0
-3	3						133-P3C-S47A-2.5-3.0
-5— -6—		0.0	moist	FILL		CINDERS, with ash, some coal, little fine gravel, trace wood fragments, silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-S47A-4.5-5.0
-7— -8—	4						133-P3C-S47A-6.5-7.0
-							133-P3C-S47A-8.5-9.0
-9				NR		NO RECOVERY	-
-10 - -11		0.0	moist	FILL		ASH, with cinders, little coal, fine gravel, (7.5YR 6/1) gray, loose, moist, no odor, no staining.	133-P3C-S47A-10.5-11
12	5	0.0	moist to sl.	FILL		ASH, with cinders, little silt, fine gravel, trace wood fragments, fibers, loose, moist to slightly moist, no odor, no staining.	133-P3C-S47A-12.5-13
-13 - -14 -		0.0	moist moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg.	133-P3C-S47A-13.0-13
15		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 3/2) very dark grayish brown, non plastic, soft, moist, no	
-16 - -17	5	0.0	moist	OL		odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg.	
-18							
19 -							

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 							
20							
						ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inte	



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-T37A

Project Date St		60240 ing: 6	0739 6/25/2013	10:30:00 AM 3 8:00:00 AM	Di Ri	rilling Company: SGS North America rilling Method: Geoprobe ig Type: ore Size: 3 in		PNAD83) x: 610925.5 PNAD83) y: 682394.875 h: 16 ft
	By: MI	iiiig.	0/20/2010	7 0.00.00 7 HVI		roject Manager: Chris Martell	Depth to Water:	
		n: Site	e 133 - T3	7A	'			
								(Note bgs = below ground surface)
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
		0.0		ASPHALT		ASPHALT		
\exists	1.6	0.0	dry	FILL		COPR, some fine to medium sand, littl	e silt, (2.5YR 3/4)	133-P3C-T37A-0.5-1.0
-1-	1.0	0.0	dry	FILL		 dark reddish brown, non plastic, loose, 	dry, no odor, no	
\dashv		0.0	dry	FILL	$\times\!\!\times\!\!\times\!\!\times$	∖staining. √ fine to medium SAND, with cinders, co	al (7 EVD 2 E/1)	Д
-2-				NR		black, non plastic, loose, dry, no odor,	al, (7.51R 2.5/1)	
		0.0	dry	FILL		COPR, some fine to medium sand, littl	e silt (2 5YR 3/4)	
_ 7	2					dark reddish brown, non plastic, loose,	dry no odor no	133-P3C-T37A-2.5-3.0
-3	_	0.0	dry	FILL		staining.		\sqcap
\dashv		•	J		\bowtie	NO RECOVERY		/
-4						\neg fine to medium SAND, with cinders, co	al, trace brick,	\dashv
.		0.0	dry	FILL		(10YR 3/4) dark yellowish brown, non	olastic, loose, dry,	/
_ 7	2	0.0	dry	FILL		∖no odor, no staining.		133-P3C-T37A-4.5-5.0
-5			. ,	_		GGM, little fine to medium gravel, (10)	6/2) light grayish	
_					\bowtie	olive, low plasticity, soft to stiff, dry, no	odor, green	
-6-						staining.	(40)(0(0) :: : :	
·]		0.0	dry	FILL		GGM, some COPR, little coal, cinders,	(10Y 6/2) light	/
\dashv						grayish olive, low plasticity, soft to stiff green staining.	ury, no odor,	133-P3C-T37A-6.5-7.0
-7	2					GGM, little fine to medium sand, trace	glace coal (10V	
4		0.0	dry	FILL		\\ \(\(\) 6/2 \) light grayish olive, low plasticity, se	off to stiff dry no	
-8-			φ. <i>y</i>			$\neg \mid 0/2 $ light grayish blive, low plasticity, so $\neg \mid 0/2 $ light petroleum of		/
0		0.0	moist	FILL		GGM, little fine to medium sand, trace	glass, coal (10Y	/
\dashv						(6/2) light grayish olive, low plasticity, se		133-P3C-T37A-8.5-9.0
-9	1.4					odor, green staining, slight petroleum o	ordor.	
\Box		0.0	moist	FILL	XXXXX	GGM, with oil-like material some coal,	cinders, (10Y 6/2)	\Box
_10				NR		light grayish olive (5GY 5/2) grayish gr	een, low plasticity,	
-10		0.0	moist	FILL		soft to stiff, dry, moderate petroleum of	dor, green	133-P3C-T37A-10.0-10
\dashv						staining.		
-11	0.7			NR		ASH, some silt, some cinders, ceramic		
\perp						4/1) dark gray, non plastic, hard to soft	, moist, no odor,	
-12						ino staining. in	some cinders	
14		0.0	moist	FILL		ceramics, coal, (5YR 4/3) reddish brow		133-P3C-T37A-12.0-12
\dashv						hard to soft, moist, no odor, no staining		
-13	2	0.0	moist	FILL		NO RECOVERY	·	1
\exists						fine to medium silty SAND, some ash,	some cinders.	
_1,						ceramics, coal, (5YR 4/3) reddish brow		133-P3C-T37A-13.7-14
-14		0.0	moist	FILL	XXXXX	hard to soft, moist, no odor, no staining		133-P3C-T37A-14.2-14
\dashv	_	0.0	moist	OL		NO RECOVERY		133-F3C-137A-14.2-14
-15	2				\vdash	ASH, some silt, some cinders, ceramic		
					[, ,]	fragments, (7.5YR 4/1) dark gray, non	plastic, hard to	
16		1.6	dry	PT	11/ 11/	soft, moist, no odor, no staining.	EVD 4/2) roddiob	
-16						SILT, little roots, fine sand, trace ash, (
						brown (7.5YR 4/1) dark gray, non plast moist, no odor, no staining.	ic, riaru to soft,	1
						SILT, little roots, fine sand, trace ash, (5YR 4/3) reddish	
						brown (7.5YR 4/1) dark gray, non plast		
						moist, no odor, no staining.	10, 11414 10 3011,	
						UNDorg SILT, 90% organics silt, 10%	organic fibers	
						(7.5YR 4/2) brown, low plasticity, soft,		
						organic odor, no staining. Soils consist	ent with UNDorg.	
						PEAT (degraded vegetated material), 8	30% organic fibers,	
						20% organic silt, (7.5YR 3/4) dark brov	vn, non plastic,	
						stiff, dry, strong organic odor, no staini	ng. Soils	
						consistent with MM.		
								1
					<u></u>	//UND confirmed to be 1 ft thick.		

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-T38A

Page: 1

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610907,033

Date Started Drilling: 11/19/2014 10:55:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682373,238

Date Finished Drilling: 11/19/2014 12:00:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C - T38A

							(Note bgs	= below ground surface)
Depth Range t bgs)	Recovery (ft/ft)	P I D (ppm)	Moisture Content	Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1 C	ONCRET		CONCRETE	
_1		0.0	dry	3	FILL		ASH, trace coal, trace gravel, (10YR 4/1) dark gray,	133-P3C-T38A-0.5-1.0
		0.0	slightly moist	3	FILL		loose, dry, no odor, no staining. fine to medium SAND, trace ash, trace gravel, (7.5YR 4/6) strong brown, loose to medium dense, slightly	
-3	5	0.0	slightly moist	4C	FILL		moist, no odor, no staining. fine silty SAND, trace trace gravel, trace coal, (10Y 5/2) grayish olive, soft to medium dense, slightly moist, no odor, green staining.	133-P3C-T38A-2.0-2.5
5		0.0	moist to	3	FILL		ASH, trace debris, trace metal, trace glass, trace coal, (10YR 4/2) dark grayish brown, loose, moist to wet, no	133-1 30-130/
6 — - 7 — -	5		wet				odor, no staining.	133-P3C-T38A-6.0-6.
9 —		4.5	wet to saturated	3	FILL		ASH, trace gravel, trace coal, trace debris, (10YR 2/1) black, loose, wet to saturated, no odor, no staining.	133-P3C-T38A-8.0-8.
11—		0.0	moist	3	FILL		fine to medium SAND, some ash, little fine gravel, trace wood, (7.5YR 2.5/3) very dark brown, loose, moist, slight petroleum odor, no staining.	133-P3C-T38A-10.0-1(
13—	5	0.0	wet to saturated	3	FILL		fine silty SAND, little fine to medium gravel, (7.5YR 3/3) dark brown, loose, wet to saturated, no odor, no staining.	133-P3C-T38A-12.0-12
15 - 16		0.0	moist to wet	3	FILL		fine silty SAND, (7.5YR 3/2) dark brown, loose, moist to wet, no odor, no staining.	100 700 700 100 100
			WCt					133-P3C-T38A-16.0-16
17—								133-P3C-T38A-16.5-17
18— 19— 20—	5	0.0	moist	9	OL		UND organic SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/1) dark gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-T38A-17.0-17
mments	s: 1) 3 atter	npts wer	e made to o	btain be	st recovery	/ 2) UND/M	M confirmed to be 1 ft thick.	

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T39A

Page: 1

732.304.3200 onice telephone

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610893.453Date Started Drilling:3/24/2014 11:15:00 AMRig Type:Coordinates (NJSPNAD83) y:682346.259

Date Finished Drilling: 3/24/2014 12:15:00 PM Core Size: 2 in Boring Total Depth: 20 ft

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

Depth	Recovery	PID	Moisture		Graphic		Sample
Range t bgs)	(ft/ft)	(ppm)	Content	USCS	Log	Surface Cover and Thickness:	ID
		0.0		CONCRETE	PAAP	CONCRETE	
-1— - -2—		0.0	dry	FILL		CINDERS, and ash, some fine to medium sand, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-T39A-0.5-1.0
-3 -4	5						133-P3C-T39A-2.5-3.0
-5		0.0	moist	FILL		fine to medium silty SAND, little cinders, ash, trace coarse gravel, (10YR 5/2) grayish brown, medium dense, moist, no	133-P3C-T39A-4.5-5.(
-6 - -7	5	74.0	moist to wet	FILL		odor, no staining. fine to coarse SAND, with ash, cinders, some coarse gravel, little silt, wood debris, trace glass fragments, (7.5YR 3/1) very dark gray, medium dense, moist to wet, strong solvent odor, hydrocarbon staining.	133-P3C-T39A-6.5-7.0
-8 -9 -							133-P3C-T39A-8.5-9.0
-10 - -11		0.0	moist	FILL		fine to medium silty SAND, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining.	133-P3C-T39A-10.5-11
-12 -13	5	0.0	moist to wet	FILL		CINDERS, and ash, with fine to coarse sand, little gravel, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining.	133-P3C-T39A-12.5-13
-14		0.0	moist	FILL		SILT, (10YR 5/2) grayish brown, low plasticity, moist, no	133-P3C-T39A-13.5-14
-		0.0	dry	PT	1/2 1/2 N	odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium	133-P3C-T39A-14.0-14
15		0.0	moist	OL		\ stiff, dry, strong organic odor, no staining. Soils consistent \ /	
16		0.0	moist	OL		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
-17 -18 -19	5	0.0	moist	SM		odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDno SILT, (7.5YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDno.	

Project Number: 60240739

Physical Location: P3C - T40A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/25/2014 8:50:00 AM

Boring ID: 133-P3C-T40A

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

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610879.301 Coordinates (NJSPNAD83) y: 682321.481

Page: 1

Date Finished Drilling: 3/25/2014 9:50:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Project Manager: Chris Martell Logged By: ES

Rig Type:

Depth to Water: NA

Depth							
lange t 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 -2		0.0	dry	FILL		CINDERS, some ash, little coarse gravel, (5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-T40A-0.5-1.0
-3 -4	5						133-P3C-T40A-2.5-3.0
-5-		0.0					133-P3C-T40A-4.5-5.0
		0.0	moist	FILL		fine to medium SAND, with cinders, ash, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining.	
-6 -7 -	5	368	moist to wet	FILL		CINDERS, with ash, some coarse gravel, (7.5YR 2.5/1) black, loose, moist to wet, strong petroleum odor, hydrocarbon staining.	133-P3C-T40A-6.5-7.0
9							133-P3C-T40A-8.5-9.0
		21.5	wet	FILL		CINDERS, with ash, some coarse gravel, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon	133-P3C-T40A-10.5-11
11	5	0.0	dry to moist	FILL		staining. fine to medium SAND, some silt, (5YR 4/4) reddish brown, medium dense, dry to moist, no odor, no staining.	
13-	Ū	0.0	wet	FILL		fine to medium silty SAND, little coarse gravel, (5YR 4/3)	133-P3C-T40A-12.5-13
14		8.9	moist to wet	FILL		reddish brown, medium dense, wet, no odor. CINDERS, with ash, (5YR 3/1) very dark gray, loose, moist to wet, slight petroleum odor, no staining.	133-P3C-T40A-14.5-15
15 <u> </u>		0.0	dry	PT	\(\frac{\lambda}{\lambda}\) \(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-T40A-15.0-15
\dashv		0.0	moist	OL	<u> </u>	UNDorg SILT, 50% organic fibers, 50% organic silt, (10YR	
17— 18— -	5	0.0	moist	OL		5/1) gray, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDorg.	
19		0.0	moist	SM		UNDno SILT, (10YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDno.	
-20							

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T41A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610866.432

 Date Started Drilling:
 3/27/2014 9:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682292.81

 Date Finished Drilling:
 3/27/2014 12:10:00 PM
 Core Size: 2 in
 Boring Total Depth:
 22 ft

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

Depth	Recovery	PID	Moioturo		Cropbio		Cample
Range ft bgs)	(ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0	dry	CONCRETE		CONCRETE	
1		0.0 420	dry	FILL FILL		fine to coarse SAND, little concrete, (10YR 7/1) loose, dry, no odor, no staining.	/
' _		420				CINDERS, with wood debris, little ash, little fine	to coarse 133-P3C-T41A-1.0-1.
-2-	4					sand, (5YR 2.5/1) black, dry, strong petroleum of staining.	dor, no
						Stairing.	
-3							
_							133-P3C-T41A-3.0-3.
-4		0.0		CONCRETE		CONCRETE	
_		352		FILL		CINDERS, with wood debris, some coal, little as 2.5/1) black, loose, strong petroleum odor, shee	h, (5YR
-5-						2.3/1) black, loose, strong petroleum odor, snee	
_		07		COMODETE		CONODETE	133-P3C-T41A-5.0-5.
-6	4	27		CONCRETE	4 4 4 4 4 4 4 4	CONCRETE	
-					4 4 4 4		
-7					0 4 4 0		133-P3C-T41A-7.0-7.
-							133-1 30-14 14-7:0-7:
-8-		180	moist	FILL		CINDERS, with ash, some concrete, little cobble	os traca
-		131	to	FILL		wood debris, (5YR 3/1) very dark gray, medium	
-9		275	wet	FILL		\to wet, strong petroleum odor, no staining.	/ HOO DOO TIII OO O
-			wet to	1122		fine silty SAND, (7.5YR 4/1) dark gray, low plast loose, wet to saturated, strong petroleum odor, h	icity, very /
-10	4	275	saturated	FILL		∖staining.	
-			wet wet			fine to medium SAND, some coarse gravel, little 3/1) very dark gray, wet, strong petroleum odor,	
-11			WCt			\staining.	133-P3C-T41A-11.0-11
_		12.6	wet	FILL		GRAVEL, oil-like material, (5YR 2.5/1) black, loc	ose, wet,
-12		49.5	saturated	FILL		\strong solvent odor, hydrocarbon staining. CINDERS, with coarse sand, some gravel, (7.5)	(R 3/1) very
–						dark gray, wet, moderate petroleum odor, sheen	. ' ' /
-13						fine to coarse silty SAND, with cinders, (5YR 3/gray, medium dense, saturated, strong petroleur	1) very dark n odor 133-P3C-T41A-13.0-13
	4	12.6	wet	FILL		\sheen.	. /]
-14						fine to medium silty SAND, some gravel, (10YR gray, wet, moderate petroleum odor, sheen.	4/1) dark
-15						gray, wet, moderate petroleum odor, oneon.	
13							133-P3C-T41A-15.0-15
-16		0.0	wet	FILL		SILT, little fine to medium sand, (10YR 4/3) brown	vn, low
			wet	NR		plasticity, very soft, wet, no odor, no staining. NO RECOVERY	
-17							
4							
-18	1						
4							
-19 		0.0	wet	FILL		CINDERS, with ash, (10YR 3/1) very dark gray,	loose, wet. 133-P3C-T41A-19.0-19
-		0.0	wet	FILL		moderate hydrocarbon odor, hydrocarbon stainir	,,
20-		189	wet	FILL		CINDERS, with fine to coarse sand, little ash, (5	YR 3/1) very 133-P3C-T41A-20.0-20
\dashv		417	moist	PT	<u> </u>	dark gray, loose, wet, strong petroleum odor, she	een. 133-P3C-T41A-20.5-2
-21	2	0.0	moist	OL		PEAT (degraded vegetated material), 70% organ 30% organic silt, (7.5YR 2.5/2) very dark brown	nic fibers,
-					\vdash	stiff, moist, strong organic odor, no staining. Soi	
-22						\with MM.	
						UNDorg SILT, 50% organic fibers, 50% organic 5/1) gray, low plasticity, soft, moist, slight organic	
						staining. Soils consistent with UNDorg.	<u></u>

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T42A

Page: 1

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

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe

 Coordinates (NJSPNAD83) x:
 610852.924

 Rig Type:
 Coordinates (NJSPNAD83) y:
 682265.998

 Date Started Drilling:
 3/27/2014 11:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y: 68/2

 Date Finished Drilling:
 3/27/2014 1:10:00 PM
 Core Size: 2 in
 Boring Total Depth: 20 ft

Logged By: ES 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 Thick	ness:	Sample ID
		0.0		CONCRETE	P P P P	CONCRETE		
-1 -2 -3	3.5	82.2	dry	FILL		COPR, with fine to medium sand, some medium dense, dry, no odor, no staining		
_4				NR		NO RECOVERY		
· 4		0.0	moist	FILL		fine to medium silty SAND, (10YR 4/1) of moderate petroleum odor, no staining.	dark gray, moist,	
-5-		46.0	moist	FILL		fine to medium SAND, with COPR, some (5YR 3/2) dark reddish brown, moist, mo		
-6 -	4	144	moist	FILL		odor, no staining. CINDERS, with ash, some coarse grave dark gray, loose, moist, strong petroleum	I, (7.5YR 3/1) very n odor, sheen.	
								133-P3C-T42A-7.0-7.5
-9 		161	saturated	FILL		fine to medium silty SAND, with cinders, grayish brown, loose, saturated, strong p sheen.		
-9								133-P3C-T42A-9.0-9.5
-10 - -11	4	18	saturated	FILL		CINDERS, with ash, some coarse grave black, loose, saturated, moderate petrole		
-		50	dry	FILL		fine silty SAND, (10YR 4/3) brown, medi strong petroleum odor, no staining.	ium dense, dry,	133-P3C-T42A-11.0-11
-12		45	wet	FILL		fine to medium silty SAND, some cinders		
-13		44.7	saturated	FILL		gray, loose, wet, moderate petroleum od CINDERS, with coarse gravel, (5YR 2.5/ saturated, moderate petroleum odor, she	/1) black, very loose,	133-P3C-T42A-13.0-13
-14 -	4	2.5	wet	FILL		fine to medium silty SAND, with coarse of dark grayish brown, medium dense, wet,		
-15 -		0.0	wet	FILL		fine to medium silty SAND, little gravel fr 5/2) grayish brown, medium dense, wet,	ragments, (10YR no odor, sheen.	133-P3C-T42A-15.0-15
-16		98.9	wet	FILL		CINDERS, with coarse gravel, some coa		133-P3C-T42A-16.2-16
_17 		98	moist	PT	<u> </u>	fragments, (5YR 3/1) very dark gray, loo petroleum odor, sheen.		133-P3C-T42A-16.7-17
_ _18 _	4					PEAT (degraded vegetated material), 80 20% organic silt, (7.5YR 2.5/2) very dark strong organic odor, no staining. Soils co	k brown, firm, moist,	
-19 - -20		121	moist	OL		UNDorg SILT, 50% organic fibers, 50% 5/1) gray, low plasticity, soft, moist, stror staining. Soils consistent with UNDorg.		
						<u> </u>		

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T43A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610842.488

 Date Started Drilling:
 4/1/2014 11:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682239.038

 Date Finished Drilling:
 4/1/2014 12:10:00 PM
 Core Size: 2.0 in
 Boring Total Depth:
 20 ft

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

Depth	D	חוח	NA=:=4:=		0			Camania
t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:		Sample ID
		0.0		CONCRETE	0 4 4 A	CONCRETE		
-1-	4	0.0	moist	FILL		fine silty SAND, little fine gravel, (5YR 3/2) dark brown, loose, moist, no odor, no staining.	c reddish	133-P3C-T43A-0.5-1.0
-2-	-	0.0	dry	FILL		coarse GRAVEL, little brick, (10Y 6/2) light gray	yish olive,	
-3		0.0	dry	FILL		(5GY 6/2) light grayish green, loose, dry, no odd staining. ASH, with fine to medium sand, little cinders, tr. (7.5YR 2.5/2) very dark brown, loose, dry, no od	or, green ace brick,	133-P3C-T43A-2.5-3.0
-4		0.0	dry	FILL		staining.		
-5-	4		a.,			fine to medium SAND, with cinders, some ash, gravel, (5YR 3/1) very dark gray, loose, dry, no staining.		133-P3C-T43A-4.5-5.0
-6	4	0.0	moist	FILL		CINDERS, ash, little coarse gravel, little wood fi	ragments.	
-7-			to wet			(5YR 4/1) dark gray, loose, moist to wet, no odd staining.	or, no	133-P3C-T43A-6.5-7.0
-8-		17.0	wet	FILL		CINDERS, with ash, little medium to coarse gra	avel, (7.5YR	
-9 -10	4					4/1) dark gray, loose, wet, slight hydrocarbon of hydrocarbon staining.	dor, `	133-P3C-T43A-8.5-9.0
11							_	133-P3C-T43A-10.5-11
12		0.0				011 15 TO 111 1 1111		
-13 -14	4	0.0	wet to saturated	FILL		CINDERS, with ash, little coarse gravel, trace w fragments, (7.5YR 4/1) dark gray, loose, wet to odor, no staining.	vood saturated, no	133-P3C-T43A-12.5-13
-15 -16								133-P3C-T43A-14.5-15
, ,		0.0	moist	FILL		CINDERS, with ash, little coarse gravel, (7.5YR	R 4/1) dark	
-17						gray, loose, moist, no odor, no staining.		133-P3C-T43A-16.5-17
-18 -19	4	0.0	dry	PT	77 77 77 77 77 77 77 77	PEAT (degraded vegetated material), 80% orga 20% organic silt, (7.5YR 3/3) dark brown, stiff, organic odor, no staining. Soils consistent with	dry, strong	133-P3C-T43A-17.0-17
\dashv		0.0	dry	OL		UNDorg organic SILT, some roots, (7.5YR 4/1)	dark gray	
20		0.0	ury	<u>OL</u>		low plasticity, soft, dry, strong organic odor, no: Soils consistent with UNDorg.		

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/1/2014 10:05:00 AM

Boring ID: 133-P3C-T44A

Page: 1

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

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610824.231 Coordinates (NJSPNAD83) y: 682215.966

Date Finished Drilling: 4/1/2014 11:05:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: SS Project Manager: Chris Martell

Depth to Water: NA Physical Location: P3C - T44A

Rig Type:

Depth	Recovery	PID	Maiatura		Cropbic		Samula
Range ft bgs)	(ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	P A A P	CONCRETE	
1		0.0	dry	FILL		GRAVEL, with crushed concrete, little sand, (5Y 4/2) olive	133-P3C-T44A-0.5-1.0
_ _		0.0	dry	FILL		gray, loose, dry, no odor, green staining. fine to medium SAND, some cinders, little brick fragments,	
2	4					little coal, (7.5YR 4/1) dark gray, loose, dry, no odor, no	
-2						staining.	
_							133-P3C-T44A-2.5-3.0
-3							
4							
-4		0.0	dry	FILL		fine to medium GRAVEL, with crushed concrete, some fine	
-5-						to medium sand, (2.5Y 7/1) light gray, (10Y 6/2) light grayish olive, loose, dry, no odor, green staining.	133-P3C-T44A-4.5-5.0
-5		144.0	dry	FILL		fine to medium SAND, with ash, some cinders, trace wood	
6	4		to moist			fragments, (7.5YR 4/1) dark gray, loose, dry to moist, strong	
-6			moist			hydrocarbon odor, hydrocarbon staining.	
_7							133-P3C-T44A-6.5-7.0
-8							
-0		142.0	moist	FILL		CINDERS, with ash, little coarse gravel, trace wood	
-9			to wet			fragments, trace glass fragments, (5YR 3/1) very dark gray, loose, moist to wet, strong hydrocarbon odor, hydrocarbon	133-P3C-T44A-8.5-9.0
9			WEL			staining.	
-10	4						
-10		0.0	dry	FILL		fine silty SAND, some ash, little coarse gravel, (7.5YR 3/3)	
_11						dark brown, medium dense, dry, no odor, hydrocarbon staining.	133-P3C-T44A-10.5-11
						staining.	
-12							
		0.0	moist	FILL		CINDERS, with ash, little coarse gravel, little wood	
-13			to wet			fragments, trace brick, (5YR 4/1) dark gray, moist to wet, no odor, green staining, green water.	133-P3C-T44A-12.5-13
						out, g. con cummig, g. con mann	
-14	4						
-15 							133-P3C-T44A-14.5-15
_							
-16							
-		0.0	moist	FILL		CINDERS, with fine to medium sand, some ash, trace coarse gravel, (7.5YR 4/1) dark gray, loose, moist, no odor,	400 000 7444 40 7 17
-17						no staining.	133-P3C-T44A-16.5-17
_						-	400 000 7444 47 7 10
-18 	4			01		LINDary Oll Thomas and A 77 57/D 07/D 11/1	133-P3C-T44A-17.5-18
-		0.0	dry	OL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	UNDorg SILT, some roots, (7.5YR 3/4) dark brown, low plasticity, soft to stiff, dry, slight organic odor, no staining.	133-P3C-T44A-18.0-18
- 19		0.0	dry	PT		Soils consistent with UNDorg.	
_		0.0	. سالم	01	<u> </u>	PEAT (degraded vegetated material), 80% organic fibers,	
20-		0.0	dry	OL		20% organic silt, (7.5YR 4/3) brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
						UNDorg SILT, little roots, (7.5YR 5/1) gray, low plasticity,	
						soft, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	
						เอาเอเลน พนา อาจออเฐ.	
	1				l		

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T45A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610810.83 Date Started Drilling: 4/2/2014 10:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682181.933

Date Finished Drilling: 4/2/2014 11:05:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

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

Depth	D	חים	Mainton		0		0
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0	dry	CONCRETE	PA A PA	CONCRETE, (10YR 7/1) light gray, loose, dry, no odor, no	
-1 2	5	0.0	dry	FILL		staining. fine to medium SAND, with cinders, little ash, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.	133-P3C-T45A-0.5-1.0
-3 -3	3						133-P3C-T45A-2.5-3.0
-5- -6-		0.0	dry to moist	FILL		medium SAND, with cinders, little coarse gravel, trace glass fragments, trace wood fragments, (7.5YR 3/2) dark brown, loose, dry to moist, no odor, no staining.	133-P3C-T45A-4.5-5.0
-7 -8	5	0.0	moist	FILL		CINDERS, some fine to medium sand, little coarse gravel, trace ceramics, (5YR 3/1) very dark gray, (7.5YR 2.5/1) black, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	133-P3C-T45A-6.5-7.0
-							133-P3C-T45A-8.5-9.0
-9- -		0.0	dry	FILL		fine silty SAND, little ash, trace coarse gravel, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	
_10		0.0	moist	FILL		fine to medium SAND, with cinders, little coarse gravel, little	
11 12			to wet			glass fragments, trace ceramics, trace brick, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-T45A-10.5-11
-13 - -14 - -14	5						133-P3C-T45A-12.5-13
-15 - -		0.0	dry to	FILL		CINDERS, some fine to medium sand, little glass fragments, little coarse gravel, (7.5YR 3/1) very dark gray, loose, dry to	133-P3C-T45A-14.5-15
-16			moist			moist, no odor, no staining.	
47							133-P3C-T45A-16.5-17
-17 -18 -19 	5	0.0	dry	РТ		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry, strong organic odor. Soils consistent with MM.	133-P3C-T45A-17.0-17
- 20 							

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)	Content	0303	Log	Surface Cover and Thickness.	ID
		0.0		CONCRETE	P 4 4 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
-2	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 		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
6 7						· · · · · · · · · · · · · · · · · · ·	
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-T46A-7.0-7.5
-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,	100 000 7101 110 11
 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	XXXX XX, XX,	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				7 77 7 77 77 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>		
						JND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter-	

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

Depth Range	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness:	Sample
t bgs)	(ft/ft)	(ppm)	Content		Log		ID
		0.0		CONCRETE	0 0 0 0	CONCRETE	
-1		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
-2 - -3	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.
-4 -5		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.
-6		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.
-7- -	5	0.0	day	FILL		fine to madium cilty SAND little cab (EVD 4/2) raddish	133-1 30-1477-0.0-0.
$ \neg $	5		dry			fine to medium silty SAND, little ash, (5YR 4/3) reddish brown, dense, dry, no odor, no staining.	
-8 -9 -		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.
11		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
-12		0.0	moist	FILL		fine silty SAND, trace fibers, (10YR 4/2) dark grayish brown,	133-P3C-T47A-11.7-12
-13 -14 -15	5	0.0	dry		77 77 7 77 77 7 77 77	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



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Boring ID: 133-P3C-T47AR

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610778.4

 Date Started Drilling:
 7/14/2014 1:00:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y: 682132.5

 Date Finished Drilling:
 7/14/2014 2:00:00 PM
 Core Size: 3.0 in
 Boring Total Depth: 6.5 ft

Logged By: RK Physical Locatior	ı: Smit	th Allev			rroje	ct Manager: Chris Martell	Depth to Water: NA	
, <u></u>	J.1111						(Note bg	s = below ground surface)
Depth Range ft bgs) Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover a	nd Thickness:	Sample ID
_ - 1 —	0.0	moist	3	FILL		fine to medium SAND, some as gravel, trace glass, (7.5YR 4/3) odor, no staining.		133-P3C-SA-T47A-0.5-
-2	1.7		3	FILL		WOOD, slight naphthalene odo	r.	-
5	0.0	moist	3	FILL		ASH, and cinders, some coal, (smoist, no odor, no staining.	,	133-P3C-SA-T47A-2.5-
_	0.0	moist	3	FILL		ASH, and cinders, some coal, (some coal, (some coal), (so	5YR 2.5/1) black, loose,	
4 —	0.0	wet	3	FILL		fine to medium SAND, and ash, brown, medium dense, wet, no	odor, no staining.	133-P3C-SA-T47A-4.0-
5 —	0.0	moist moist	3	FILL		CINDERS, little fine to medium coal, (7.5YR 2.5/1) black, loose	sand, trace glass, trace	133-P3C-SA-T47A-5.0-
1.5	0.0	to wet	3	FILL		fine SAND, little silt, (5YR 4/3) to wet, no odor, no staining.	reddish brown, loose, moist	-
		wet	-			CINDERS, little gravel, trace glablack, loose, wet, no odor, no st	ass, trace coal, (5YR 2.5/1)	133-P3C-SA-T47A-6.0-



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Boring ID: 133-P3C-U34A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe **Coordinates (NJSPNAD83) x:** 610986.1875 Date Started Drilling: 6/26/2013 8:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682465 Date Finished Drilling: 6/24/2013 10:30:00 AM Core Size: 3 in Boring Total Depth: 18.5 ft Depth to Water: NA Logged By: AB Project Manager: Chris Martell Physical Location: Site 133 - U34A

)onth							
		PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1	1.7	0.0 35.9	dry dry	ASPHALT FILL		ASPHALT, (10YR 2/1) black, non plastic, dense, dry. fine silty SAND, some gravel, little COPR, (10YR 4/3) brown, non plastic, medium dense, dry to slightly moist.	133-P3C-U34A-0.5-1.
-3-	1.5	0.0	slightly moist	NR FILL		NO RECOVERY CINDERS, some fine to medium sand, some ash, little brick, (10YR 4/2) dark grayish brown, non plastic, medium dense, slightly moist.	133-P3C-U34A-2.5-3.
-4				NR		NO RECOVERY	
-5-	1.4	2.4	moist	FILL		CINDERS, some ash, little wood, (10YR 3/1) very dark gray, non plastic, medium dense, moist.	133-P3C-U34A-4.5-5.
				NR		NO RECOVERY	
6		0.0		FILL		CINDERS, some ash, little fine silty sand, little gravel.	133-P3C-U34A-6.5-7.
7—	1.6						133-P3C-U34A-6.5-7.
8		0.0	14/54	NR	XXXXX	NO RECOVERY	-
9-	1.3	0.0	wet	FILL		CINDERS, some ash, little glass, (10YR 3/1) very dark gray, non plastic, medium dense, wet.	133-P3C-U34A-8.5-9.
-				NR		NO RECOVERY	
10	1	0.0	wet	FILL		CINDERS, some ash, little glass, little gravel, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-U34A-10.5-1
11—	.			NR		NO RECOVERY	
12	1.5	0.0	wet	FILL		CINDERS, some ash, little glass, trace ceramics, (10YR 3/1) very dark gray, non plastic, medium dense, wet.	133-P3C-U34A-12.5-13
14				NR		NO RECOVERY	
4	1.5	0.0	wet	FILL		CINDERS, some ash, little gravel, (10YR 4/1) dark gray, non plastic, medium dense, wet.	133-P3C-U34A-14.5-1
16				NR	××××	NO RECOVERY	
16		0.0	wet	FILL		CINDERS, some ash, little fine silty sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet.	133-P3C-U34A-16.5-1
17—	2.5						133-P3C-U34A-17.0-17
18		12.4	moist	PT	1, 1, 1, 1	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, moderate sulfur odor. Soils consistent with MM.	133-P3C-U34A-17.5-18
comments:	1) 3 atter	npts we	ere made to d	obtain best reco	very 2) MN	I/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in ar	ny interval of this boring.

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Boring ID: 133-P3C-U36A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610960.998

 Date Started Drilling:
 11/11/2014 9:40:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682415.363

Date Finished Drilling: 11/11/2014 10:45:00 AM Core Size: 3.0 in Boring Total Depth: 25 ft

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

Depth	_	DID					
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	0 4 4 P	CONCRETE	
-1- 2-		0.0	dry	FILL		fine to medium SAND, little (20%) COPR, trace gla- fragments, (5YR 3/4) dark reddish brown, loose, dry odor, no staining.	/, no
-3-	5						133-P3C-U36A-2.0-2.5
_4		0.0	dry	FILL		ASH, little debris, (7.5YR 3/1) very dark gray, loose no odor, no staining.	, dry, 133-P3C-U36A-4.0-4.5
-5		1.7	moist to	FILL		fine to medium SAND, little ash, little fine gravel, traglass, trace coal, (7.5YR 3/1) very dark gray, loose,	ace
-6 -			wet			moist to wet, slight petroleum odor.	133-P3C-U36A-6.0-6.
	5	275.0	wet	FILL		ASH, little sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor, hydrocarbon staining.	
-8						nydrocarbon staining.	133-P3C-U36A-8.0-8.
-9		223.0	wet	FILL		fine to medium silty SAND, little fine to medium gra trace ash, trace glass fragments, (7.5YR 3/1) very of	vel, dark
-10 - -11		70.7	wet	FILL		gray, loose, wet, strong petroleum odor, sheen. fine to medium silty SAND, some ash, little coal, (7 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon staining.	5YR 133-P3C-U36A-10.0-10
-12 - -13 -	5	22.7	moist	FILL		ASH, little fine to medium sand, little fine to medium gravel, (7.5YR 2.5/3) very dark brown, loose, moist, petroleum odor, hydrocarbon staining.	
-14 - -15							133-P3C-U36A-14.0-14
-16		0.0	wet	FILL		ASH, little fine to medium sand, trace organic fibers (7.5YR 3/1) very dark gray, loose, wet, no odor, hydrocarbon staining.	
-17						nyarosarosn stanling.	133-P3C-U36A-16.0-16
-18 —	4						133-P3C-U36A-18.0-18
-19				NR		NO RECOVERY	
20		0.0	moist	FILL		ASH, trace fine gravel, trace organic fibers, (7.5YR	3/1)
		0.0	slightly moist	PT	1, 11, 1	very dark gray, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic 40% organic fibers, (7.5YR 3/4) dark brown, mediui	silt, 133-P3C-U36A-20.3-20
-22-	5				7 7 7 7 V	stiff, slightly moist, moderate organic odor, no stain Soils consistent with MM.	ing.
	3				7 7 1/2 1		
\dashv					11, 11,		



PPG - PPG_LOGS.GDT - 1/9/15 10:39

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Boring ID: 133-P3C-U36A

Page: 2

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610960.998
Date Started Drilling: 11/11/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682415.363
Date Finished Drilling: 11/11/2014 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C- U36A	-	

nysical Location: P3C- U36A (Note bgs = below ground surface)									
						(NOTE DGS = Delow ground surface)			
Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID			
				<u> </u>					
				1/ 1/1/ 1					
1						I			

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Boring ID: 133-P3C-U37A

Page: 1

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

Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 610947.267 Date Started Drilling: 11/7/2014 10:50:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682386.396

Date Finished Drilling: 11/7/2014 11:35:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian

Depth	_	515					
Range ft bgs)	Recovery (ft/ft)	(1-1-)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	P 4 4 P	CONCRETE	
-1-		0.0	dry	FILL		medium SAND, some ash, little debris, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	133-P3C-U37A-0.5-1.0
-2- -3- 	5						133-P3C-U37A-2.0-2.5
-4-		0.0	moist to	FILL		GGM, (5GY 4/4) olive green, soft, moist to wet, no odor, no staining.	
-5- 6- 7-		690.0	wet moist to wet	FILL		medium SAND, some ash, little glass, little fine gravel, (5YR 4/1) dark gray, loose, moist to wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U37A-5.0-5.5
	5	356.0	wet	FILL		ASH, little fine to medium gravel, trace coal, trace ceramics, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon staining.	133-P3C-U37A-7.0-7.5
 10		0.0	wet	FILL		ASH, little brick, (7.5YR 2.5/1) black, loose, wet to	133-P3C-U37A-9.0-9.9
-11 -12			to saturated			saturated, slight HC odor, no staining.	133-P3C-U37A-11.0-11
 13 - 	4						133-P3C-U37A-13.0-13
-14				NR		NO RECOVERY	
-15		0.0	moist	FILL		ASH, little fine to medium gravel, (7.5YR 3/1) very dark	133-P3C-U37A-15.0-15
_16 17		0.0	moist	PT	\(\frac{1}{2}\)\(\fra	gray, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with MM.	133-P3C-U37A-15.5-16
- ' _ 18 19	5	0.0	moist	OL		UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
-20							

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Boring ID: 133-P3C-U38A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610933.679Date Started Drilling:11/7/2014 9:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682359.608Date Finished Drilling:11/7/2014 10:40:00 AMCore Size:3.0 inBoring Total Depth:15 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C- U38A (Note bgs = below ground surface) Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE A SA CONCRETE 133-P3C-U38A-0.5-1.0 0.0 slightly FILL medium to coarse SAND, trace gravel, trace coal, trace wood fragments, (10YR 4/6) dark yellowish brown, loose moist to medium dense, slightly moist, no odor, no staining. 133-P3C-U38A-2.0-2.5 5 0.0 slightly FILL fine to medium silty SAND, some GGM, trace gravel, (10Y 6/4) pale olive, slightly moist, no odor, green moist 133-P3C-U38A-4.0-4.5 91.1 slightly **FILL** fine to medium SAND, trace ash, trace coal, trace gravel, (10YR 4/3) brown, loose, slightly moist, moderate moist chemical odor, hydrocarbon staining. 133-P3C-U38A-6.0-6.5 5 0.0 FILL fine to medium SAND, trace gravel, trace GGM, (10Y slightly 6/2) light grayish olive, medium dense, slightly moist, no moist 133-P3C-U38A-8.0-8.5 odor, green staining.
ASH, trace gravel, trace shell fragments, trace glass, trace wood fragments, (10YR 3/1) very dark gray, loose, 1.7 moist **FILL** moist, no odor, no staining. 133-P3C-U38A-10.0-10.5 0.0 wet **FILL** ASH, trace gravel, trace glass, trace coal, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. fine to medium silty SAND, trace ash, (10YR 3/4) dark 133-P3C-U38A-12.0-12.5 0.0 **FILL** moist 5 vellowish brown, medium dense, moist, no odor, no staining. -13 133-P3C-U38A-13.5-14.0 0.0 РТ 133-P3C-U38A-14.0-14.5 slightly PEAT (degraded vegetated material), 50% organic silt, moist 50% organic fibers, (10YR 3/3) dark brown, low plasticity, 1/ 1/1/ 1 medium dense, slightly moist, moderate organic odor, no -15 staining. Soils consistent with MM. PPG LOGS.GDT - 1/9/15 10:39

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick.

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Boring ID: 133-P3C-U39A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610920.247 Date Started Drilling: 3/26/2014 10:27:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682332.84 Date Finished Drilling: 3/26/2014 11:15:00 AM Core Size: 2 in Boring Total Depth: 20 ft Project Manager: Chris Martell Depth to Water: NA Logged By: ES Physical Location: P3C - U39A

ft bgs)	(ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	4 4 4 4	CONCRETE	
-1 -2	5	6.0	dry	FILL		CINDERS, with ash, little coarse gravel, (7.5YR 2.5/1) black, loose, dry, slight petroleum odor, no staining.	133-P3C-U39A-1.0-1.5
-3							133-P3C-U39A-3.0-3.5
-4 -		0.0	dry	FILL		CINDERS, with concrete, little fine to coarse sand, trace glass fragments, (10R 5/1) reddish gray, very dense, dry, no odor, no staining.	
-5— - -6—		13.0	moist to wet	FILL		fine to medium SAND, some silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, slight petroleum odor, sheen.	133-P3C-U39A-5.0-5.5
-7- -8- -9-	5	192.0	wet	FILL		CINDERS, with ash, some coarse gravel, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U39A-7.0-7.5
		4.5					
_ -11		4.5	moist	FILL		fine to medium silty SAND, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining	133-P3C-U39A-11.0-11
		0.0	wet	FILL		fine to coarse silty SAND, some cinders, ash, little coarse	
-12 -	5	0.0	wet	FILL		gravel, trace glass, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining. fine to medium silty SAND, (5YR 4/1) dark gray, medium	
-13		0.0	wet	FILL		dense, wet, no odor, no staining.	133-P3C-U39A-13.0-13
		0.0	moist	FILL		fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	133-P3C-U39A-13.5-14
-14 -		0.0	moist	PT	1 11 11	SILT, (10YR 4/2) dark grayish brown, low plasticity, moist, no odor, no staining.	133-P3C-U39A-14.0-14
-15		0.0	moist	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, moist,	
-16		0.0	moist	OL		\strong organic odor, no staining. Soils consistent with MM. /	
-17 -18 -19	5	0.0	moist	OL		UNDorg SILT, 50% organic fibers, 50% organic silt, (7.5YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg.	
20							

Project Number: 60240739

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Date Started Drilling: 3/26/2014 8:55:00 AM

Boring ID: 133-P3C-U40A

Page: 1

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

Drilling Company: SGS North America

Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 610906.693

 Coordinates (NJSPNAD83) y:
 682306.086

Date Finished Drilling: 3/26/2014 10:20:00 AM Core Size: 2 in Boring Total Depth: 20 ft

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

 Physical Location:
 P3C - U40A

Rig Type:

epth	D	חים	Mainten		0		0
ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	D A A D	CONCRETE	
-1	5	0.0	dry	FILL		CINDERS, with ash, some coarse gravel, little fine to coarse sand, trace concrete, (5YR 3/1) very dark gray, loose, dry, no odor, no staining.	133-P3C-U40A-1.0-1.
-3							133-P3C-U40A-3.0-3.
6		224	wet	FILL		CINDERS, with ash, some coarse gravel, trace ceramics, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U40A-5.0-5.
-7— -8— -9—	5						133-P3C-U40A-7.0-7.
10		7.3		===		ONDERO III I (E)(E)(I)	133-P3C-U40A-9.0-9.
\dashv		0.0	wet wet	FILL FILL		CINDERS, with ash, some coarse gravel, (5YR 3/1) very dark gray, loose, wet, slight petroleum odor, sheen.	
11						fine to medium silty SAND, (10YR 4/3) brown, medium dense, wet, no odor, no staining.	133-P3C-U40A-11.0-11
12-	5	10.9	saturated	FILL		ASH, with cinders, gravel, (10YR 5/1) gray, loose, saturated, no odor, sheen.	
13-							133-P3C-U40A-13.0-13
14-		0.0	moist	FILL		SILT, little ash and cinders, trace fibers, (5YR 4/1) dark gray, low plasticity, moist, no odor, no staining.	133-P3C-U40A-14.0-14
4.		0.0	dry	PT	<u> </u>	PEAT (degraded vegetated material), 80% organic fibers,	133-P3C-U40A-14.5-1
15		0.0	moist	PT	71/2/1/	20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent	
16-		0.0	moist	OL		with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist,	
-17 	5					strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
19							
20							

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Date Started Drilling: 3/25/2014 9:55:00 AM

Boring ID: 133-P3C-U41A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610891.202
Rig Type: Coordinates (NJSPNAD83) y: 682280.879

Date Finished Drilling: 3/25/2014 11:35:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

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

variac i	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
ft bgs)	()		Contont				
4		0.0		CONCRETE	P 6 4 P 4	CONCRETE	422 D2C 1144A 0 5 4 0
-1 - -2	5	8.5	dry	FILL		CINDERS, with ash, some fine to coarse sand, (7.5YR 3/4) dark brown, low plasticity, medium dense, dry, no odor, no staining.	133-P3C-U41A-0.5-1.0
-3 -4	-						133-P3C-U41A-2.5-3.0
-5-							133-P3C-U41A-4.5-5.0
-6		110.0	wet	FILL		CINDERS, with ash, some coarse gravel, (10YR 4/1) dark gray, loose, wet, strong petroleum odor, hydrocarbon staining.	
-7 - -8	5						133-P3C-U41A-6.5-7.0
-9- -							133-P3C-U41A-8.5-9.0
-10 <u> </u>		13.5	wet	FILL		CINDERS, with ash and coarse gravel, (10YR 4/1) dark gray, loose, wet, moderate petroleum odor, hydrocarbon staining.	133-P3C-U41A-10.5-11
_11		10.6	moist	FILL		fine to medium SAND, some cinders, some ash, (10YR 4/2)	
-12	5	0.0	moist	FILL		dark grayish brown, loose to medium dense, moist, slight petroleum odor, no staining. fine to medium SAND, (5YR 4/3) reddish brown, medium	
-13 - -14		0.0	dry	FILL		\dense, moist, no odor, no staining. CINDERS, with ash, some gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-U41A-12.5-13
7							133-P3C-U41A-14.5-15
-15 -		0.0	saturated	FILL		CINDERS, with ash, little fine to medium sand, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining.	133-P3C-U41A-15.5-16
-16		0.0	dry	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR	133-P3C-U41A-16.0-16
-17 -	5					4/1) dark gray, low plasticity, firm, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-U41A-16.5-17
-18							
 _19							133-P3C-U41A-18.5-19
20					<u> </u>		133-P3C-U41A-19.5-20.

Project Number: 60240739

PPG LOGS.GDT - 6/24/14 16:7

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U42A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610877.819

 Date Started Drilling:
 3/26/2014 9:01:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682251.706

 Date Finished Drilling:
 3/26/2014 9:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Physical Location: P3C - U42A (Note bgs = below ground surface) Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 0.0 fine to medium silty SAND, reddish-brown, trace fine gravel, damp FILL loose, damp to moist, no noticeable odor or COPR. to moist 0.0 FILL moist medium silty SAND, gray-brown, some medium gravel, moist to wet, loose, no noticeable odor. to wet 0.0 FILL medium silty SAND, gray-brown, some gravel, loose, moist moist to damp, no noticeable odor. to damp 85.0 **FILL** fine sandy CINDERS, dark gray, some ash and slag wet fragments, some medium gravel, wet, loose, slight solvent odor, no staining. 120.0 wet FILL coarse sandy CINDERS, with ash, some medium gravel, wet, furnace oil odor, staining. 50.0 **FILL** medium gravelly CINDERS, some medium sand, trace moist mixed debris, moist to wet, hydrocarbon odor, black staining. to wet -13 -16 10 FILL medium gravelly CINDERS, gray, ash, some medium sand, 133-P3C-U42A-16.0-16.5 moist moist to wet, slight oil odor. wet 0.0 133-P3C-U42A-17.5-18.0 damp SM SILT, dark gray, firm-slightly firm, damp to moist, no -18 noticeable odor. Soils consistent with UNDno. to 0.0 133-P3C-U42A-18.0-18.5 PT fine to coarse organic PEAT (degraded vegetated material), moist 1<u>/2 31/2 3</u> damp brown, 80% organic fibers, 20% organic silt, damp, organic 19 11, 11, odor. Soils consistent with MM. 20 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.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U42AR

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGSProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610877.128Date Started Drilling:11/24/2014 11:10:00 AMRig Type:Coordinates (NJSPNAD83) y:682252.458Date Finished Drilling:11/24/2014 11:30:00 AMCore Size:3.0 inBoring Total Depth:15 ftLogged By:SPProject Manager:Scott MikaelianDepth to Water:NA

Logged By: SP | Project Manager: Scott Mikaelian | Depth to Water: NA |
Physical Location: P3C - U42AR

Depth	_						_
Range ft bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		FILL		DGA	
-1		0.0		CONCRETE		crushed CONCRETE, trace green staining.	
-2	5	0.0	slightly moist	FILL		fine SAND, trace gravel, (2.5YR 3/4) dark reddish brown, medium dense, slightly moist, no odor, no staining.	
-3		0.0	slightly moist	FILL		fine SAND, some COPR (40% COPR), (2.5YR 3/4) dark reddish brown, loose, slightly moist, no odor, no staining.	
-4- 		0.0	slightly moist	FILL		ASH, trace coal, (10YR 2/1) black, loose, slightly moist, no odor, no staining.	
-5	5	235.0	moist	FILL		ASH, trace gravel, trace debris, trace silty fine sand, (10YR 3/1) very dark gray, medium dense, moist, moderate petroleum odor, no staining.	
-9 -9		27.0	moist	FILL		fine to medium silty SAND, trace ash, (10YR 3/1) very dark gray, low plasticity, soft to medium dense, moist, slight petroleum odor, no staining.	133-P3C-U42AR-8.5-9
-10	5	0	moist	FILL		fine to medium silty SAND, trace ash, trace gravel, (10YR 4/1) dark gray, low plasticity, soft to medium dense, moist, no odor, no staining.	133-P3C-U42AR-10.5-1

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U43A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610863.6

 Date Started Drilling:
 6/25/2013 7:45:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682219.6

 Date Finished Drilling:
 6/25/2013 10:30:00 AM
 Core Size:
 3 in
 Boring Total Depth:
 16 ft

 Logged By:
 AB
 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
-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.(
-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-4.5-5.0
-6 -7 -	1.7	0.0	wet	NR FILL		NO RECOVERY 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.
-8	1.7	0.0	moist	NR FILL		NO RECOVERY fine silty SAND, little clay, little cinders, trace glass, (5YR 5/3) reddish brown, non plastic, dense, moist.	133-P3C-U43A-8.5-9.
10	1.5	0.0	moist	NR FILL		NO RECOVERY fine silty SAND, little cinders, little clay, (5YR 4/2) dark reddish gray, non plastic, dense, moist.	133-P3C-U43A-10.5-11
12	1.2	0.0	wet	NR FILL		NO RECOVERY CINDERS, some ash, little sand, little gravel, (10YR 2/1) black, non plastic, medium dense, wet.	133-P3C-U43A-12.5-13
14		0.0		NR		NO RECOVERY	400 000 1400 440 44
15—	2	1.7	wet moist	FILL PT	1, 1, 1, 1 1, 1, 1, 1	CINDERS, some ash, (10YR 3/1) very dark gray, non 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-14.0-14 133-P3C-U43A-14.5-15
Comment	ts: 1) 3 atte	mpts we	re made to o	btain best red	covery 2) MM	/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in an	y interval of this boring.

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							
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	1166		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 	5				<u></u>		
-19					<u> </u>		
20					<u> </u>		



Boring ID: 133-P3C-V32A

Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611055.375 Date Started Drilling: 7/18/2013 8:05:00 AM Coordinates (NJSPNAD83) y: 682530.6875 Rig Type: Date Finished Drilling: 7/18/2013 9:05:00 AM Core Size: 3 in Boring Total Depth: 18 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - V32A (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 dry **ASPHALT** ASPHALT, (5Y 4/1) dark gray, non plastic, loose, dry, no odor, no staining. fine to medium SAND, with ash, some cinders, trace 0.0 FILL dry 1.6 coal, (5YR 3/2) dark reddish brown, non plastic loose, dry, no odor, no staining. NR NO RECOVERY 0.0 FILL dry fine to medium SAND, with ash, some cinders, trace coal, (5YR 3/2) dark reddish brown, non plastic, loose, 1.2 dry, no odor, no staining. NR **NO RECOVERY** 0.0 dry fine to medium SAND, with ash, some cinders, trace **FILL** coal, (5YR 3/2) dark reddish brown, non plastic, loose, 0.0 moist FILL 1.4 dry, no odor, no staining. ASH, with cinders, trace coal, (10YR 7/1) light gray, non NR plastic, loose, moist, no odor, no staining. NO RECOVERY 0.0 **FILL** moist ASH, with cinders, trace coal, trace ceramics, (5Y 4/1) dark gray, non plastic, loose, moist, no odor, no staining. 1.1 NR NO RECOVERY 0.0 wet **FILL** CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic 1.3 loose, wet, no odor, no staining. NO RECOVERY NR 0.0 moist **FILL** CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic, 1.4 loose, moist, no odor, no staining. NR NO RECOVERY 0.0 **FILL** SILT, trace roots, (7.5YR 2.5/2) very dark brown, medium slightly moist plasticity, soft to stiff, slightly moist, no odor, no staining. 0.0 **FILL** 1 1 fine silty SILT, trace fine to medium gravel, (5YR 5/3) slightly -13 133-P3C-V32A-13.0-13.5 moist NR reddish brown, low plasticity, soft to stiff, slightly moist, no odor, no staining. NO RECOVERY 0.0 **FILL** slightly fine silty SILT, trace fine to medium gravel, (5YR 5/3) moist reddish brown, low plasticity, soft to stiff, slightly moist, 17 133-P3C-V32A-14.7-15.2 no odor, no staining. 133-P3C-V32A-15.2-15.7 0.0 MH moist UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, NR -16 0.0 moist slight organic odor. Soils consistent with UNDno. MH NO RECOVERY 2 UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno. -18

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.

AECOM

PPG LOGS GDT - 1/8/15 15:37

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-V33A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611028.163

 Date Started Drilling:
 11/12/2014 10:45:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682480.158

 Date Finished Drilling:
 11/12/2014 11:35:00 AM
 Core Size: 3.0 in
 Boring Total Depth:
 20 ft

Date Finished Drilling:11/12/2014 11:35:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:SSProject Manager:Scott MikaelianDepth to Water:NA

Physical Location: P3C - V33A (Note bgs = below ground surface) Depth Recovery PID Moisture GA Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log ID (ft bgs) 0.0 1 CONCRETE: CONCRETE 0.0 133-P3C-V33A-0.5-1.0 ASH, little brick, trace coal, (7.5YR 3/2) dark brown, dry 3 FILL loose, dry, no odor, no staining. 133-P3C-V33A-2.0-2.5 5 133-P3C-V33A-3.0-3.5 0.0 133-P3C-V33A-5.0-5.5 3 FILL CINDERS, little debris, (7.5YR 4/1) dark gray, loose, moist to moist to wet, no odor, no staining. wet 133-P3C-V33A-7.0-7.5 4 133-P3C-V33A-8.0-8.5 NR NO RECOVERY NR 133-P3C-V33A-10.0-10.5 0.0 3 **FILL** CINDERS, little fine to medium sand, little fine to wet medium gravel, (7.5YR 3/1) very dark gray, loose, wet to to saturated saturated, no odor, no staining. 133-P3C-V33A-12.0-12.5 5 133-P3C-V33A-14.0-14.5 133-P3C-V33A-14.5-15.0 15 133-P3C-V33A-15.0-15.5 0.0 moist 9 OL UND organic SILT, 70% organic silt, 30% organic fibers, (7.5YR 4/1) dark gray, low plasticity, soft, moist, slight 16 organic odor, no staining. Soils consistent with UNDorg. 5 19 -20

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.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-V34A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611013.086
Date Started Drilling: 11/12/2014 9:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682453.528
Date Finished Drilling: 11/12/2014 10:35:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - V34A	<u> </u>	

epth _											
ange bgs)	tecovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID				
_		0.0		CONCRETE	A P A A A A A A A A A A A A A A A A A A	CONCRETE					
		0.0	dry	FILL		fine to medium SAND, some ash, little fine to medium gravel, (7.5YR 3/4) dark brown, loose, dry, no odor,	133-P3C-V34A-1.0-1.				
3—	5	0.0	dry	FILL		green staining. ASH, little ceramics, trace wood fragments, trace fine gravel, trace coal, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	133-P3C-V34A-2.0-2.				
5—		0.0	moist	FILL		ASIJ little fine to medium ciltu cond. trace briek, trace	133-P3C-V34A-4.0-4.				
5—		0.0	to wet	FILL		ASH, little fine to medium silty sand, trace brick, trace debris, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining.					
7—	5						133-P3C-V34A-6.0-6.				
9-											133-P3C-V34A-8.0-8.
1—		0.0	saturated	FILL		ASH, little fine silty sand, (7.5YR 2.5/1) black, loose, saturated, no odor, no staining.	133-P3C-V34A-10.0-10				
3—	4						133-P3C-V34A-12.0-1				
_							133-P3C-V34A-13.0-1				
4				NR		NO RECOVERY					
5		0.0	saturated	FILL		ASH, little fine to medium silty sand, trace organic fibers, (7.5YR 2.5/1) black, loose, saturated, no odor, no staining.	133-P3C-V34A-15.0-1				
_ 🕇							133-P3C-V34A-16.5-1				
8	5	0.0	saturated		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 2.5/2) very dark brown, soft to medium stiff, saturated, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-V34A-17.0-1				
20											
- 1											

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-V35A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611001.277 Date Started Drilling: 3/25/2014 9:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682426.527

Date Finished Drilling: 3/25/2014 10:10:00 AM Core Size: 2.0 in Boring Total Depth: 22 ft Logged By: SS Depth to Water: NA

Project Manager: Chris Martell Physical Location: P3C - V35A

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	4	0.0	dry	FILL		silty SAND, some COPR, little coarse gravel, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	
-3		0.0	moist	FILL		fine to medium silty SAND, some cinders, little fine to coarse gravel, trace wood fragments, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining.	133-P3C-V35A-2.5-3.0
-5 -6	4	0.0	wet	FILL		CINDERS, some ash, little wood fragments, trace ceramics, (5Y 5/1) gray, loose, wet, no odor, no staining. Soils consistent with MM.	133-P3C-V35A-4.5-5.0
-7							133-P3C-V35A-6.5-7.0
-8 9 -10	4	0.0	moist	FILL		CINDERS, some ash, little coal, trace glass fragments, (5YR 4/1) dark gray, loose, moist, moderate solvent odor, no staining.	133-P3C-V35A-8.5-9.0
-11 -12		0.0	dny	FILL		CINDERS, some fine to coarse gravel, little ceramics, trace	133-P3C-V35A-10.5-11
-13 -14	4		dry			wood fragments, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-V35A-12.5-13
-15 -16		5.0	wet	FILL		CINDERS, some fine to medium sand, little fine to coarse gravel, trace glass fragments, (7.5YR 3/1) very dark gray, loose, wet, strong solvent odor, no staining.	133-P3C-V35A-14.5-15
17		0.0	dry to moist	FILL		CINDERS, some fine to coarse gravel, little ash, little glass fragments, trace wood fragments, (7.5YR 3/1) very dark gray, loose, dry to moist, no odor, no staining.	133-P3C-V35A-16.5-17
-18	4	0.0					133-P3C-V35A-17.5-18.
_ -19		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, moderate organic odor. Soils consistent with MM.	133-P3C-V35A-18.0-18
20 — — —21——	2	0.0		PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, moderate organic odor. Soils consistent with MM.	
22							

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 11/11/2014 10:55:00 AM

Boring ID: 133-P3C-V36A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610987.484 Rig Type: **Coordinates (NJSPNAD83) y:** 682399.703

Date Finished Drilling: 11/11/2014 11:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Scott Mikaelian

Logged By: SS

Depth	Recovery	חום	Maicture		Cropbic		Campla
Range ft bgs)	(ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	4 4 4 A	CONCRETE	
1					1 4 7 8		133-P3C-V36A-1.0-1.5
		0.0	dry	FILL		fine to medium SAND, some (40%) COPR, little ash, little fine gravel, (5YR 3/2) dark reddish brown, loose, dry, no	
-2-						odor, no staining.	100 500 1/001 0 0
	5						133-P3C-V36A-2.0-2.
-3							
-							
-4							133-P3C-V36A-4.0-4.
-		0.0	dry	FILL		ASH, little brick, trace debris, (7.5YR 4/1) dark gray,	100-1 00-1 00-4.0-4.
-5-		450.0	wet	FILL		loose, dry, no odor, no staining.	_
\dashv		100.0	Wet	I ILL		ASH, little crushed concrete, trace wood fragments, trace	
-6-						debris, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-V36A-6.0-6.
-						, .younusg.	
-7-	_						
	5						
-8-							133-P3C-V36A-8.0-8.
-9-							
10							
_10		9.1	wet	FILL		ASH, little debris, little fine to medium gravel, trace wood	133-P3C-V36A-10.0-10
_11						fragments, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor.	
. ' ' _						policicalii caci.	
-12							100 700 1/004 10 0 10
	5						133-P3C-V36A-12.0-12
_13							
- 4							
-14							133-P3C-V36A-14.0-14
\dashv							100100 0007 14.0 1-
-15 		0.0	wet	FILL		ASH, trace wood, trace organic fibers, (7.5YR 3/1) very	133-P3C-V36A-15.0-15
46		0.0	slightly	PT	<u> </u>	dark gray, loose, wet, no odor, no staining.	133-P3C-V36A-15.5-16
-16			moist		1 7 1 V	PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/3) dark brown, medium	
_1-					<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	stiff, slightly moist, moderate organic odor, no staining.	
_17	5				1, 11, 1	Soils consistent with MM.	
-18					<u> </u>		
					1/ 1/1/ 1		
- 19					<u> </u>		
					1 11 1		
20					11/1/1/		
			1		1		

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Boring ID: 133-P3C-V37A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610974.016 Date Started Drilling: 10/27/2014 10:00:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682372.822

Date Finished Drilling: 10/27/2014 11:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: SP Depth to Water: NA

Project Manager: Scott Mikaelian

						(N	ote bgs = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		FILL		CONCRETE	
-1 2	5	0.0	dry	FILL		ASH, trace coal, trace debris, trace glass, trace wood fragments, (10YR 4/6) dark yellowish brown, loose to medium dense, dry, no odor, no staining.	133-P3C-V37A-0.5-1.0
-3 	·						133-P3C-V37A-2.5-3.0
 5		0.0	dry	FILL		ASH, trace coal, trace debris, trace wood fragments, (10YR 5/1) gray, loose to medium dense, dry, no odor, no staining.	133-P3C-V37A-4.5-5.0
5 6		0.0	moist	FILL		ASH, trace coal, trace debris, trace wood fragments, (10YR 5/2) grayish brown, loose to medium dense, moist, moderate petroleum odor, no staining.	
		150.0	moist	FILL		ASH, trace coal, trace wood fragments, trace ceramics,	
7		76.0	moist	FILL		\ (10YR 2/1) black, loose, moist, slight petroleum odor, no /	133-P3C-V37A-6.5-7.0
 8	4	203.0	wet	FILL		\staining. fine to medium silty SAND, trace coal, trace wood fragments, trace debris, (10YR 3/1) very dark gray, low plasticity, medium dense, moist, slight petroleum odor, no staining.	133-P3C-V37A-8.5-9.0
—9— - –				NR		CINDERS, trace debris, trace coal, (10YR 3/1) very dark gray, loose, wet, moderate petroleum odor, no staining. NO RECOVERY	133-F3C-V37A-0.3-9.0
_10		128.0	wet	FILL		CINDERS, trace debris, trace coal, (10YR 3/1) very dark	_
 11 			to saturated			gray, loose, wet to saturated, slight petroleum odor, no staining.	133-P3C-V37A-10.5-11
 12							
 13	4						133-P3C-V37A-12.5-13
—14— - –				NR		NO RECOVERY	_
—15 —		0.0	moist	FILL		CINDERS, trace debris, trace coal, (10YR 4/1) dark gray,	133-P3C-V37A-15.0-15
		0.0	moist	ML	<u> </u>	loose to medium dense, moist, no odor, no staining.	-
 16						SILT, (10YR 4/1) dark gray, low plasticity, medium dense, moist, no odor, no staining. Soils consistent with	133-P3C-V37A-16.0-16
17 18	5	0.0	moist	PT		UNDno. PEAT (degraded vegetated material), 70% organic silt, 30% organic fibers, (10YR 3/4) dark yellowish brown, low plasticity, soft to medium dense, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-V37A-16.5-17
 19 		0.0	moist	OL		organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/3) brown, low plasticity, medium dense, moist, slight organic odor. Soils consistent with UNDorg.	
20							

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-V38A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610960.629 Date Started Drilling: 10/27/2014 11:15:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682346.116

Date Finished Drilling: 10/27/2014 12:10:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian Physical Location: P3C - V38A

Depth							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	P & 0 P 0	CONCRETE	
-1 -2	_	0.0	moist to wet	FILL		ASH, trace coal, trace ceramics, trace fine to medium gravel, (10YR 4/2) dark grayish brown, loose, moist to wet, no odor, no staining.	133-P3C-V38A-0.5-1.0
-3 -4	5						133-P3C-V38A-2.5-3.0
_							133-P3C-V38A-4.5-5.0
-5 -6		200.0	wet to saturated	FILL		ASH, trace coal, trace brick, trace fine gravel, (10YR 3/2) very dark grayish brown, loose, wet to saturated, slight petroleum odor and staining.	
	5						133-P3C-V38A-6.5-7.0
_ _9 							133-P3C-V38A-8.5-9.0
-10		0.0	wet	FILL		ASH, trace debris, trace fine to medium gravel, trace	
 _11 _ _12						coal, (10YR 3/2) very dark grayish brown, loose, wet, slight petroleum odor and staining.	133-P3C-V38A-10.5-11
 _13 _ _14	5						133-P3C-V38A-12.5-13
-		0.0	moist	FILL		fine silty SAND, trace ash, (10YR 2/2) very dark brown,	133-P3C-V38A-14.5-15
-15		0.0	moist	FILL		loose, moist, no odor, petroleum staining. fine silty SAND, trace ash, (7.5YR 2.5/3) very dark	1
_16 						brown, loose, moist, no odor, no staining.	133-P3C-V38A-15.5-16
_ -17 -	5	0.0	moist	PT	7 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/2) dark brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with MM.	133-P3C-V38A-16.0-16
-18 - -19 -		0.0	slightly moist	OL		UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
-20							

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/22/2014 7:50:00 AM

Boring ID: 133-P3C-V39A

Page: 1

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

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 610949.692

 Coordinates (NJSPNAD83) y:
 682314.688

 Date Finished Drilling:
 4/22/2014 9:05:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

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

Logged By: ES | Project Manager: Chris Martell | Depth to Water: NA |
Physical Location: P3C - V39A

Rig Type:

Depth	_		l l				
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0	dry	FILL		fine to coarse SAND, with fine to coarse gravel, (10YR 3/1)	
-1-		0.0	dry	FILL		very dark gray, very loose, dry, no odor, no staining. fine to medium silty SAND, some ash, fine to medium gravel, little cinders, trace glass, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.	133-P3C-V39A-0.5-1.0
-3	5						133-P3C-V39A-2.0-2.9
-4		0.0	dry	FILL		CINDERS, some ash, little fine gravel, coal, trace brick, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-V39A-4.0-4.
-5		13.4	dry	FILL		CINDERS, with ash, trace coal, (5YR 2.5/1) black, loose, dry, slight hydrocarbon odor, no staining.	
-6 -7 -8	4	558	wet	FILL		fine to medium silty SAND, and ash, with cinders, little fine gravel, trace glass, (10YR 4/1) dark gray, dense, wet, strong hydrocarbon odor, hydrocarbon staining.	133-P3C-V39A-6.0-6.
-							133-P3C-V39A-8.0-8.9
-9				NR		NO RECOVERY	
11—		55.1	saturated to wet	FILL		fine to medium silty SAND, and ash, with cinders, some fine to coarse gravel, (10YR 4/1) dark gray, saturated to wet, moderate hydrocarbon odor, sheen.	133-P3C-V39A-10.0-10
12	5						133-P3C-V39A-12.0-12
13		0.0	moist	FILL		SILT, little to trace fine sand, trace organics, (7.5YR 3/2) dark brown, low plasticity, soft, moist, no odor, no staining.	
14—							133-P3C-V39A-14.0-14
15							133-P3C-V39A-14.5-15
+		0.0	moist	PT	1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	133-P3C-V39A-15.0-15
16 —		0.0	moist	OL		with MM. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR	
-17 -	5					5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
18 -		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
20							

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-V40A

732.564.3200 office telephon

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Project Number: 60240739 Coordinates (NJSPNAD83) x: 610933.54 Drilling Method: Geoprobe Date Started Drilling: 4/21/2014 7:45:00 AM Coordinates (NJSPNAD83) y: 682292.54 Rig Type: Date Finished Drilling: 4/21/2014 8:40:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: ES Project Manager: Chris Martell Depth to Water: NA

Physical Location: P3C - V40A (Note bgs = below ground surface) Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 dry FILL fine to medium GRAVEL, some asphalt, little wood debris, 0.0 dry FILL trace organics, (10YR 4/2) dark grayish brown, loose, dry, 133-P3C-V40A-0.5-1.0 no odor, no staining.
fine to medium SAND, with asphalt, some fine to medium 0.0 **FILL** dry 0.0 FILL dry gravel, little wood debris, (10YR 4/2) dark grayish brown, 0.0 dry FILL loose, dry, no odor, no staining. 133-P3C-V40A-2.0-2.5 fine to medium SAND, some asphalt, trace glass, brick 5 fragments, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining. fine to coarse SAND, with fine to medium gravel, some brick, (10YR 4/1) dark gray, medium dense to loose, dry, no 133-P3C-V40A-4.0-4.5 odor, no staining. fine to medium silty SAND, with debris, some ash, cinders, 0.0 dry FILL little brick, glass, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining. **FILL** 0.0 dry fine to medium silty SAND, and ash, with cinders, (10YR 246.0 moist **FILL** (4/1) dark gray, loose, dry, no odor, no staining. 133-P3C-V40A-6.0-6.5 to fine to coarse SAND, with cinders, some wood debris, little wet coarse gravel, trace coal, glass fragments, (10YR 3/1) very 103.0 **FILL** dark gray, medium dense, dry, no odor, no staining. 133-P3C-V40A-7.0-7.5 wet 3.5 fine to medium silty SAND, some ash, cinders, wood debris, 135.0 FILL moist glass, (10YR 4/2) dark grayish brown, dense, moist to wet, 133-P3C-V40A-8.0-8.5 strong hydrocarbon odor, sheen. CINDERS, some fine to medium gravel, (7.5YR 2.5/1) black, NR loose, wet, strong hydrocarbon odor, hydrocarbon staining, fine to medium silty SAND, with cinders, some debris, trace glass, (10YR 3/1) very dark gray, loose, moist, strong 74.5 133-P3C-V40A-10.0-10.5 **FILL** hydrocarbon odor, sheen. NO RECOVERY 19 0 fine to medium silty SAND, some ash, little cinders, trace **FILL** wet wood debris, (7.5YR 2.5/1) black, medium dense, wet, to moderate hydrocarbon odor, no staining moist 12 133-P3C-V40A-12.0-12.5 fine to medium silty SAND, with wood debris, (10YR 4/2) 4.5 dark grayish brown, dense, wet to moist, slight hydrocarbon -13 odor, no staining. 0.0 moist FILL fine to medium silty SAND, with ash, cinders, some wood 14 debris, (10YR 4/2) dark grayish brown, loose, moist, no 133-P3C-V40A-14.0-14.5 odor, no staining. NR NO RECOVERY FILL 0.0 fine to medium silty SAND, some debris, glass, (7.5YR moist 133-P3C-V40A-15.3-15.8 0.0 dry FILL 2.5/1) black, medium dense, moist, no odor, no staining. SILT, some fibers, trace glass, (10YR 3/3) dark brown, low 133-P3C-V40A-15.8-16.3 -16 0.0 dry PT plasticity, soft, dry, no odor, no staining. 0.0 OL moist PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium 5 stiff, dry, strong organic odor, no staining. Soils consistent with MM -18 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. 19 20

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.



Boring ID: 133-P3C-W28A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	_
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611125.75
Date Started Drilling: 7/17/2013 1:15:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682601.0625
Date Finished Drilling: 7/17/2013 2:35:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - W28A		

Depth	_	DID					
Range ft bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Trilckness.	Sample ID
	2	0.0	dry	ASPHALT FILL		ASPHALT fine to medium SAND, and cinders, ash, little coal, fine gravel, (10YR 5/4) yellowish brown, non plastic, loose, dry, no odor, no staining.	
-3-	2	0.0	dry	FILL NR		fine to medium SAND, and cinders, ash, little coal, fine gravel, (10YR 5/4) yellowish brown, non plastic, loose, dry, no odor, slight green staining. NO RECOVERY	
-4 -5	1	0.0	moist	FILL		GGM, with cinders, some wood fragments, ash, little salt precipitate, (5GY 4/4) olive green, moist, no odor, green staining.	
-6 -7 7	2	0.0	moist	FILL		NO RECOVERY ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	133-P3C-W28A-6.5-7.
-8 9 	2	0.0	moist	FILL		ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	133-P3C-W28A-8.5-9.
-10 - -11	1.4	0.0	moist moist to wet	FILL FILL NR		ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining. SILT, some little coarse gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no	133-P3C-W28A-10.5-1
-12 - -13 -	2	0.0	moist to wet	FILL		odor, no staining. NO RECOVERY SILT, some little coarse, gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining.	133-P3C-W28A-12.5-1
-14 - -15 -	2	0.0	moist to wet slightly moist	FILL		SILT, some little coarse gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic,	133-P3C-W28A-14.5-1
16						loose, slightly moist, no odor, no staining. Soils consistent with MM.	
Commen							



Boring ID: 133-P3C-W29A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611108.9375

 Date Started Drilling:
 6/25/2013 8:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682573.6875

Date Finished Drilling: 6/25/2013 10:05:00 AM Core Size: 3 in Boring Total Depth: 16 ft

ed By: MI cal Location	n: Site	133 \//2			Project Manager: Chris Martell	Depth to Water: NA	
		- 133 - 112	29A			_	
						(No	te bgs = below ground surface)
	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
1.7	0.0	dry	ASPHALT FILL				133-P3C-W29A-0.5-1.0
1.5	0.0	dry	NR FILL		fine to medium gravel, (10YR 4/2) dark	grayish brown,	133-P3C-W29A-2.5-3.0
			NR	~~~~	NO RECOVERY		
1.8	0.0	dry	FILL		trace silt, fine to medium gravel, (7.5YF	R 4/1) dark gray,	133-P3C-W29A-4.5-5.0
2	0.0	dry	NR FILL		trace silt, fine to medium gravel, (7.5YF	R 4/1) dark gray,	133-P3C-W29A-6.5-7.0
1.4	0.0	dry	FILL		trace silt, fine to medium gravel, (7.5YF	R 4/1) dark gray,	133-P3C-W29A-8.5-9.0
1			NR		NO RECOVERY		
1.3	0.0	moist	FILL				133-P3C-W29A-10.5-11.0
+			NR	* * * * *	NO RECOVERY		
1	0.0	moist	FILL		yellowish brown, non plastic, loose to s		133-P3C-W29A-12.5-13.0
			NR		NO RECOVERY		
	0.0	moist	FILL		fine silty SAND little fine gravel trace i	nots (10YR 5/8)	133-P3C-W29A-14.0-14.5
2	0.0	moist	MH		yellowish brown, non plastic, loose to s odor, no staining. UNDno SILT, 90% inorganic silt, 10% o (10YR 5/2) grayish brown, low plasticity	off, moist, no organic fibers, or, soft to stiff,	133-P3C-W29A-14.5-15.0 133-P3C-W29A-14.5-15.0X
					WITH UNDNO.		
	1.7	(ft/ft) (ppm) 0.0 1.7 0.0 1.5 0.0 1.8 0.0 1.4 0.0 1.3 0.0 1.3 0.0 1.3	(ft/ft) (ppm) Content 0.0	(ft/ft) (ppm) Content USCS	1.7 0.0 dry ASPHALT FILL	trace sit, fine to medium gravel, (7.5YF non plastic, loose, dry, no odor, no stain 1.3 1.4 0.0 dry FILL ASHALT fine to medium LEAN CLAY, some ash little coarse gravel, (7.5YR 3/4) dark bridge to medium gravel, (10YR 4/2) dark non plastic, loose, dry, no odor, no staining. 1.5 0.0 dry FILL	Content Cont

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-W30A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611095.454

 Date Started Drilling:
 11/17/2014 9:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682547.027

 Date Finished Drilling:
 11/17/2014 10:20:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Date Finished Drilling:
 11/17/2014 10:20:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SP
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: P3C - W30A

Depth Range (ff/ft) (npm) Content USCS Graphic Surface Cover and Thickness: Sample

De Rai (ft b	nge	Recovery (ft/ft)	(ppm)		0303	Graphic Log	Surface Cover and Thickness:	Sample ID
			0.0		CONCRETE	0 4 4 0	CONCRETE	
 - -	1-		0.0	dry	FILL		fine to medium SAND, some ash, trace gravel, trace coal, trace brick, (10YR 4/4) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-W30A-0.5-1.0
-3 -3 -	3	5						133-P3C-W30A-2.0-2.5
L								133-P3C-W30A-4.0-4.5
L			0.0	dry	FILL		ASH, trace debris, trace glass, trace coal, (10YR 4/6)	
- 6 - 7	5 — 5 — 7 —	4	0.0	dry	FILL		dark yellowish brown, loose, dry, no odor, no staining. ASH, trace gravel, trace debris, trace glass, trace coal, trace wood fragments, (10YR 4/6) dark yellowish brown, dry, no odor, no staining.	133-P3C-W30A-6.0-6.5
<u></u> ⊢8	3—							100 000 14/004 0 0 0 5
	9—		0.0	moist to wet	FILL NR		ASH, trace debris, trace gravel, trace glass, (10YR 2/1) black, moist to wet, slight petroleum odor, hydrocarbon staining.	133-P3C-W30A-8.0-8.5
L	0						NO RECOVERY	
- ' 1 -	1—		0.0	moist	FILL		ASH, trace debris, trace coal, trace glass, trace shell fragments, (10YR 3/1) very dark gray, loose, moist, slight petroleum odor, hydrocarbon staining.	133-P3C-W30A-10.0-10.5
—1 - —1 -	3—	5						133-P3C-W30A-12.0-12.5
\vdash	-							100-1 00-1/00/14.0-14.0
<u> </u> -1	5		0.0		Fu I		fine to modify a city CAND trace place trace ask (40VD	
\vdash	\dashv		0.0	moist	FILL		fine to medium silty SAND, trace glass, trace ash, (10YR \(\frac{4}{1} \) dark gray, low plasticity, soft to medium dense,	133-P3C-W30A-15.5-16.0
<u> </u>	6		0.0	moist	ML		moist, no odor, no staining.	133-P3C-W30A-15.5-16.0 133-P3C-W30A-16.0-16.5
\vdash	4		0.0			\bot	UNDno, fine sandy SILT, trace shell fragments, (10YR	
.	8— 9—	5	0.0	slightly moist	OL		3/1) very dark gray, low plasticity, medium dense, moist, no odor, no staining. Soils consistent with UNDno. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 3/3) dark brown, medium plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-W30A-16.5-17.0
	-							
- 1/9/15 10:39								
1/9/1								
. 1								
G_LOGS.GDT								
ő								
<u>်</u>								
G Con							D/MM confirmed to be 1 ff thick 2) No CODD or CCM present in any interval	

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.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-W31A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611081.839
Date Started Drilling: 11/18/2014 9:55:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682520.26

Date Finished Drilling: 11/18/2014 10:55:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft
Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C - W31A

Recovery (ft/ft)	(ppm)	Moisture Content			Graphic Log	Surface Cover and Thickness:	Sample ID
	0.0		1 C	ONCRET	E 4 4 P 4	CONCRETE	
	0.0	dry	3	FILL		fine to medium SAND, some ash, trace glass fragents, trace fine gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-W31A-0.5-1.
5							133-P3C-W31A-2.0-2.
	0.0	dmi	2	EII I		fine to madium CANID little cab trace brick (7.5VD 4/2)	133-P3C-W31A-4.0-4.
		-				brown loose dry no odor no staining	
5	0.0	to		FILL		ASH, little ceramics, trace debris, (7.5YR 4/1) dark gray, loose, wet to saturated, no odor, no staining.	133-P3C-W31A-6.0-6.
							133-P3C-W31A-8.0-8.
	0.0	wet	2	FILL		ASH little fine to medium sand trace wood fragments	133-P3C-W31A-10.0-10
	0.0	wet	3	FILL		(7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	
5							133-P3C-W31A-12.0-1;
	0.0	moist	3	FILL		fine to medium silty SAND, trace fine gravel, trace roots, (7.5YR 2.5/3) very dark brown, loose, moist, no odor, no	133-P3C-W31A-14.0-1
	0.0	moist	3	FILL		fine to medium silty SAND, little roots, trace ceramics,	400 B00 111044 45 5 111
	0.0	dry	7	PT		(7.5YR 4/2) brown, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic silt,	133-P3C-W31A-15.5-16 133-P3C-W31A-16.0-16
5	0.0	sl moist slightly moist	9	OL		stiff, dry to slightly moist, slight organic odor, no staining. Soils consistent with MM. UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/1) dark gray, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with	
						onborg.	
	5 5 5	(ft/ft) (ppm) 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 5 0.0 0.0	(ft/ft) (ppm) Content 0.0 0.0 dry 5 0.0 dry 0.0 wet to saturated 5 0.0 wet 0.0 moist 0.0 dry to sl moist slightly	(ft/ft) (ppm) Content Class 0.0 1 0 0.0 dry 3 5 0.0 wet to saturated 3 5 0.0 wet 3 0.0 moist 3 0.0 moist 3 0.0 dry to sl moist 7 0.0 moist 9 5 3 9	(ft/ft) (ppm) Content Class OSCS 0.0 1 CONCRET 0.0 dry 3 FILL 0.0 wet to saturated 3 FILL 5 0.0 wet 3 FILL 5 0.0 moist 3 FILL 0.0 moist 3 FILL 0.0 dry 7 PT 0.0 moist slightly 9 OL	Content Class Cl	Content Class Concert Class Concert Concert

AECOM

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Test Pit ID: 133-P3C-W32A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611068,387

Date Started Drilling: 11/18/2014 8:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682493,339

Date Finished Drilling: 11/18/2014 9:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C - W32A

0.0 0.0 0.0 0.0 0.0 0.0 to satur	isture GAntent Class 1 3 dry 3 wet 3 to urated wet 3 to urated	GONCRET FILL FILL FILL FILL	Graphic Log	Surface Cover and Thickness: CONCRETE ASH, trace gravel, trace brick, trace coal, trace glass, trace debris, (10YR 3/6) dark yellowish brown, loose, no odor, no staining. fine to medium SAND, trace ash, trace gravel, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining.	Sample ID 133-P3C-W32A-0.5-1. 133-P3C-W32A-2.0-2. 133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-10.0-10 133-P3C-W32A-10.0-10
0.0 di 0.0 di 0.0 www.tt satur	dry 3 dry 3 wet 3 to urated wet 3	FILL FILL FILL		ASH, trace gravel, trace brick, trace coal, trace glass, trace debris, (10YR 3/6) dark yellowish brown, loose, no odor, no staining. fine to medium SAND, trace ash, trace gravel, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor,	133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8.
0.0 dr 0.0 www.tr satur	dry 3 dry 3 wet 3 to urated wet 3	FILL FILL		trace debris, (10YR 3/6) dark yellowish brown, loose, no odor, no staining. fine to medium SAND, trace ash, trace gravel, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor,	133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8.
0.0 di 0.0 wite satur	dry 3 wet 3 to urated wet 3	3 FILL 3 FILL		5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor,	133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8.
0.0 di 0.0 wite satur	dry 3 wet 3 to urated wet 3	3 FILL 3 FILL		5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor,	133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8. 133-P3C-W32A-10.0-10
0.0 with satur	wet 3 to wet to	3 FILL		5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor,	133-P3C-W32A-8.0-8.
0.0 we to satur	to urated wet 3 to			ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor,	133-P3C-W32A-8.0-8.
to satur	to	3 FILL		(10YR 4/1) dark gray, loose, wet to saturated, no odor,	133-P3C-W32A-10.0-1(
to satur	to	3 FILL		(10YR 4/1) dark gray, loose, wet to saturated, no odor,	
0.0					133-P3C-W32A-12.0-1
0.0			KXXXXX		133-P3C-W32A-14.0-1
	wet 3	B FILL		ASH, trace debris, trace coal, trace metal, trace wood fragments, (10YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-W32A-16.0-1
0.0 mc	noist 3	B FILL		silty SAND, trace gravel, trace organic fibers, trace	133-1 30-10327-10:0-10
	ghtly 9 noist	OL		ceramics, trace brick, (10YR 3/3) dark brown, low plasticity, medium dense, moist, no odor, no staining. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-W32A-17.0-17

Project Number: 60240739

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Date Started Drilling: 3/5/2014 11:05:00 AM

Boring ID: 133-P3C-W33A

Page: 1

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

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe

 Coordinates (NJSPNAD83) x:
 611054.856

 Rig Type:
 Coordinates (NJSPNAD83) y:
 682466.545

Date Finished Drilling: 3/5/2014 11:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: A. Grossman Project Manager: Chris Martell Depth to Water: NA

Physic	al Locatio	n: P30	C - W33A			au.	the file of the second
						(Not	e bgs = below ground surface)
Depth Range It bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
- -1—		0.0		CONCRETE		CONCRETE	
2— —	5	0.0	moist to	FILL		fine to medium silty SAND, some fine gravel, trace glass, trace coarse gravel, (10YR 4/4) dark yellowish brown,	
3— - 4— -			wet			medium dense, moist to wet, iron oxide staining.	
5— - 6— -		0.0	wet	FILL		ASH, some cinders, trace coarse gravel, (10YR 4/1) dark gray, medium dense, wet.	133-P3C-W33A-5.0-5.5
7— - 8— -	5						133-P3C-W33A-7.0-7.5
9— – 10—		0.0		FILE		A011	133-P3C-W33A-9.0-9.5
- 1 		0.0	wet to saturated	FILL		ASH, some cinders, (10YR 2/2) very dark brown, medium dense, wet to saturated.	133-P3C-W33A-11.0-11.
12 <u> </u>	5	0.0	moist to	FILL		ASH, some cinders, little silt, trace wood, (10YR 3/1) very dark gray, medium dense, moist to wet.	133-P3C-W33A-13.0-13.
- 14 		0.0	wet	FILL			
15 <u> </u>		0.0	wet moist to wet	FILL PT		SILT, little fine gravel, trace coarse gravel, (10YR 5/6) yellowish brown, soft, wet. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 2/2) very dark brown, low plasticity, soft, moist to wet, slight sulfur odor. Soil consistent with MM.	133-P3C-W33A-14.5-15. 133-P3C-W33A-15.0-15.
17 <u> </u>	5						
19 <u> </u>					\(\frac{1}{2} \) \(\fra		
mmei	nts: 1) 3 atte	empts w	ere made to	obtain best red	covery 2) U	ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter	val of this boring.

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Boring ID: 133-P3C-W34A

Page: 1

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

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x: 611041.271

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611041.271

 Date Started Drilling:
 3/5/2014 10:04:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682439.679

 Date Finished Drilling:
 3/5/2014 10:45:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 A. Grossman
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Depth	Recovery	PID	Moisture		Graphic		Sample
Range ft bgs)	(ft/ft)	(ppm)	Content	USCS	Log	Surface Cover and Thickness:	ID
		0.0		CONCRETE	D 4 4 D	CONCRETE	
		0.0	dry	FILL		fine to medium silty SAND, and cinders, little ash, little fine	
-1						gravel, (10YR 5/8) yellowish brown, dense, dry.	
, –							
	5						
-3-							
Ŭ _							
-4							
4		0.0		FILL		fine to see discoverity OAND, and sind one little and (40MD)	
-5-		0.0	moist	FILL		fine to medium silty SAND, and cinders, little ash, (10YR 4/1) dark gray, medium dense, moist.	_
\dashv		0.0	wet wet	FILL		fine to medium silty SAND, some cinders, (10YR 6/6)	_
-6		0.0	WEL	I ILL		brownish yellow, medium dense, wet. ASH, some cinders, little fine to medium sand, trace	
-						ceramics, (10YR 3/1) very dark gray, medium dense, wet.	
-7-	5						133-P3C-W34A-7.0-7.
	5						
-8-							
-9-							133-P3C-W34A-9.0-9.
-10							
10		0.0	wet	FILL		ASH, some cinders, some silt, little gravel, trace wood,	
_11						(10YR 2/1) black, non plastic, medium dense, wet, slight chemical odor.	100 500 1110 1110 111
							133-P3C-W34A-11.0-11
-12							
-	5						
-13							133-P3C-W34A-13.0-13
\dashv							100100110111111111111111111111111111111
-14							
🕇							
-15		0.0	moist	FILL		SILT, trace coarse gravel, trace ceramics, (10YR 3/1) very	133-P3C-W34A-15.0-15
16						dark gray, low plasticity, soft, moist.	
-16							
-17							
·· 4	5	0.0					133-P3C-W34A-17.0-17
-18		0.0	dry to	PT	1, 11, 1	PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, 10YR5/2 grayish brown, low plasticity, soft,	133-P3C-W34A-17.5-18
4			moist		71, 11,	dry to moist. Soil consistent with MM.	
-19					\(\triangle \) \(\triangle \		
\dashv							
20					<u> </u>		

Boring ID: 133-P3C-W35A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611027.942 Date Started Drilling: 3/26/2014 10:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682412.849 Date Finished Drilling: 3/26/2014 11:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: SS Project Manager: Chris Martell Physical Location: P3C - W35A

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	4	0.0	damp to moist	FILL		fine to coarse silty SAND, brown-gray, some fine to medium gravel, damp to moist.	
-2 -3	4	0.0	damp	FILL		fine silty SAND, reddish-brown, trace medium gravel, 10% COPR nodules, loose, damp.	
-4		0.0	damp to moist	FILL		fine gravelly ASH, gray, some cinders and trace slag, some fine gravel and mixed debris, damp to moist, no noticeable odor.	
-5 -6	4	0.0	moist	FILL		fine gravelly ASH, gray-brown, some concrete fragments, mixed debris, moist, no noticeable odor.	
-7-		0.0	wet	FILL		GGM, olive green, some fine gravelly sand, some silt,	
-		0.0	wet	FILL		\loose-slightly loose, wet.	133-P3C-W35A-7.5-8.0
-8-		20.0	moist	FILL		fine silty SAND, brown-gray, some fine gravel, soft, loose, wet. fine silty SAND, brown-dark gray, trace fine gravel, loose,	
-9 -10 -11	4	22.0		FILL		moist. fine to coarse gravelly SAND, dark gray, mixed fill debris, hydrocarbon odor and visible dark staining.	133-P3C-W35A-9.5-10
-12 -1		1.0	wet	FILL		fine to medium gravelly SAND, dark gray, coarse sands, some ash and cinders, loose, wet.	133-P3C-W35A-11.5-12
-13 -14 -15	4					Some ash and dinders, loose, wet.	133-P3C-W35A-13.5-14
16		0.0	wet	FILL		fine to coarse sandy CINDERS, dark gray, some medium sand, some ash, loose, wet.	133-P3C-W35A-15.5-16
-17		0.0					133-P3C-W35A-17.0-17
-18 -19 -20	4	0.0	moist damp	FILL PT		fine organic SILT, dark gray, firm, pliable, moist, 10% organic fibers and silts. fine silty PEAT (degraded vegetated material), brown, 80% organic fibers, 20% organic silts, firm, hard, damp. Soils consistent with MM.	133-P3C-W35A-17.5-18
20							

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Boring ID: 133-P3C-W36A

Page: 1

732.564.3200 office telephone

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

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611014.436

 Date Started Drilling:
 3/25/2014 10:20:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682386.23

 Date Finished Drilling:
 3/25/2014 11:15:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Depth	Recovery	PID	Moisture		Graphic		Sample
Range ft bgs)	(ft/ft)	(ppm)	Content	USCS	Log	Surface Cover and Thickness:	ID
		0.0		FILL		CONCRETE	
-1 -2	4	0.0	dry	FILL		fine to medium SAND, little cinders, little brick fragments, (5YR 4/4) reddish brown, loose, dry, no odor, no staining.	133-P3C-W36A-0.5-1.
-3 -4		0.0	de	- FILL		fine to modify a CAND come sind on little fine to come	133-P3C-W36A-2.5-3.
-5 -6	4	0.0	dry to moist	FILL		fine to medium SAND, some cinders, little fine to coarse gravel, (7.5YR 4/1) dark gray, loose, dry to moist, moderate hydrocarbon odor, no staining.	133-P3C-W36A-4.5-5.0
-7 -8							133-P3C-W36A-6.5-7.
-9 10	4	350.0	moist to wet	FILL		CINDERS, some fine to coarse gravel, little fine to medium sand, trace ceramics, (5Y 3/1) very dark gray, loose, moist to wet, strong hydrocarbon odor, hydrocarbon staining.	133-P3C-W36A-8.5-9.
11		80.0	moist	FILL		fine to medium SAND, some cinders, little fine to coarse	133-P3C-W36A-10.5-1
13	4	8.4	moist	FILL		gravel, trace ceramics, (7.5YR 3/1) very dark gray, soft, moist, strong hydrocarbon odor, no staining. CINDERS, some medium sand, little fine to coarse gravel, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-W36A-12.5-13
15 - - 16 -							133-P3C-W36A-14.5-15
_ -17 -	4	0.0	dry to moist dry	OL PT	\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1	UNDorg organic SILT, little roots, (7.5YR 2.5/2) very dark brown, medium plasticity, soft, dry to moist, slight organic odor. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, low plasticity, stiff,	133-P3C-W36A-16.0-16 133-P3C-W36A-16.5-17
-18 - -19	+					dry, strong organic odor. Soils consistent with MM.	
20					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
						ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter	

Boring ID: 133-P3C-W37AR

Page: 1 Drilling Company: SGS North America Project Name: PPG Garfield Ave Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611003.17 Date Started Drilling: 4/22/2014 9:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682357.687

Date Finished Drilling: 4/22/2014 10:40:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Chris Martell Logged By: ES

_	al Location	11. 1 5	0 1107711			(Notice of the control of the contro	e bgs = below ground surface)
D 41-						(non	e bys – below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1 -2	5	0.0	dry	FILL		fine to medium SAND, some fine to coarse gravel, little asphalt, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining.	133-P3C-W37AR-1.0-1.5
_		0.0	dry	CONCRETE	4440	crushed CONCRETE, (9.5/2.5Y_/1) white, very dense, dry,	
-3 -4 -		0.0	dry	FILL		no odor, no staining. CINDERS, and ash, with fine to medium silty sand, little coal, glass, (10YR 4/2) dark grayish brown, dense, dry, no odor, no staining.	133-P3C-W37AR-3.0-3.5
-5— —		8.1	moist	FILL		CINDERS, and ash, (10YR 3/1) very dark gray, medium dense, moist, slight hydrocarbon odor, no staining.	133-P3C-W37AR-5.0-5.5
-6- -		20 185	moist wet	FILL FILL		fine to medium silty SAND, (10R 4/2) weak red, medium dense, moist, slight hydrocarbon odor, no staining.	
-7— -8— -9—	5					fine to medium silty SAND, with ash, wood debris, some fine to medium gravel, trace brick, (10YR 3/1) very dark gray, medium dense, wet, strong hydrocarbon odor, sheen.	133-P3C-W37AR-7.0-7.5
-9 <i></i> -10		0.0		FILL			133-P3C-W37AR-9.0-9.5
- 11 - - 12	5		saturated			fine to medium silty SAND, with ash, little wood debris, (10YR 4/1) dark gray, loose, saturated, no odor, no staining.	133-P3C-W37AR-11.0-11.
13— 14— -		0.0	wet	FILL		ASH, some fine to medium silty sand, (10YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3C-W37AR-13.0-13.
15—		0.0	moist	FILL		fine to medium silty SAND, some fine to medium gravel,	133-P3C-W37AR-15.0-15.
16		0.0	slightly	FILL		trace debris, glass, (2.5YR 3/2) dusky red, medium dense, moist, no odor, no staining.	133-P3C-W37AR-15.6-16.
-17 -18 -19	5	0.0	- moist dry	РТ		SILT, (7.5YR 6/3) light brown, low plasticity, soft, slightly 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-W37AR-16.1-16.
-20 		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-X29A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611135.772

 Date Started Drilling:
 3/10/2014 12:15:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682560.151

 Date Finished Drilling:
 3/10/2014 1:15:00 PM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

 Physical Location:
 P3C - X29A

epth 📙		DID	N 4 - 1 - 1				
nge K	ecovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-		0.0		CONCRETE	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CONCRETE	
2	5	0.0	dry	FILL		medium SAND, some ash, some cinders, little coal, little brick, (5YR 5/3) reddish brown, medium dense, dry, no odor, no staining	133-P3C-X29A-1.5-2.(
4		0.0	dry	FILL		fine to medium silty SAND, some cinders, some ash, little coal, trace glass fragments, (7.5YR 4/2) brown, medium dense to loose, dry, no odor, no staining.	133-P3C-X29A-3.5-4.
6—		0.0	dry	FILL		fine to medium SAND, some ash, some cinders, little ceramics, trace coal, trace glass fragments, (7.5YR 2.5/2) very dark brown, loose to medium dense, dry, no odor, no staining.	133-P3C-X29A-5.5-6.
8	5						133-P3C-X29A-7.5-8.
10	5	0.0	moist	FILL		fine to coarse SAND, some ash, some cinders, trace wood fragments, (7.5YR 3/3) dark brown, loose, moist, no odor, no staining.	133-P3C-X29A-11.5-12
3— 4—	J	0.0	dry	FILL		fine silty SAND, little trace ash, (7.5YR 4/3) brown, low plasticity, dry, no odor, no staining.	133-P3C-X29A-13.5-14
5 - 6 - 7		0.0	moist	SM	****	fine silty SAND, (7.5YR 4/3) brown, low plasticity, soft to medium dense, moist, no odor, no staining. Soils consistent with UNDno.	133-P3C-X29A-15.5-16
8 - 9 -	5						133-P3C-X29A-17.5-18
20		0.0	moist	PT	<u> </u>	PEAT, 100% organic silt, 10YR/2 dark brown, low plasticity, soft, moist. Soils consistent with MM.	133-P3C-X29A-19.5-20

Boring ID: 133-P3C-X29A-ME

Page: 1

	Name: F					rilling Company: SGS North America		Page:
	Number:					rilling Method: Direct Push		IAD83) x: 611135.122
				:00:00 PM		ig Type:	•	AD83) y: 682560.232
		illing:	6/4/2015	5:50:00 PM		ore Size: 3 in	Boring Total Depth:	
	IBy: ES al Locatio	n D2/	C V204		IΡ	roject Manager: Scott Mikaelian	Depth to Water: 6.0	
	ai Lucatio	i. P30	y-∧∠9A				Surface Elevation:	13. 170 IL INAVDOO
oth ige gs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
_		0.0	dry	CONCRETE		CONCRETE.		
_		0.0	dry	FILL		fine to medium SAND, some coal fragme (5YR 3/2) dark reddish brown, medium on no staining.	ents, trace ash, lense, dry, no odor,	133-P3C-X29A-ME-0.8-1.3
_	3.7	43.0	dry	FILL		Coal ASH, some fine sand, little glass,(7 loose, dry, slight petroleum odor, no stair		133-P3C-X29A-ME-2.3-2.8
_		0.0	dry	FILL		fine SAND, trace ash, (7.5YR 6/3) light be dense, dry, no odor, no staining.	prown, medium	133-P3C-X29A-ME-2.8-3.3
		0.0	dry	FILL		Coal ASH, little glass,(7.5YR 2.5/1) black	k, loose, dry, no	
_				NR		odor, no staining. NO RECOVERY.		
_		0.0	moist to	FILL		ASH, some coal fragments, trace glass a (10YR 5/1) gray, loose, moist to wet, no	odor, purple residue	133-P3C-X29A-ME-5.0-5.5
_	3.5		wet			and staining from 6.0-7.0' bgs, DTW @ 6	b.0' bgs	133-P3C-X29A-ME-6.0-6.5
4								133-P3C-X29A-ME-8.0-8.5
_				NR		NO RECOVERY.		
s:	ow surface	nrade	COPR - chr	romite ore proc	essing res	idue UNDno - non-organic undisturbed native o	lenosits MGP - manu	factured gas plant

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/5/17 19:45

UNDorg - organic undisturbed native deposits GGM - green grey mud MM - meadow mat

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Boring ID: 133-P3C-X30A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611122.248

 Date Started Drilling:
 11/17/2014 10:25:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682533.449

 Date Finished Drilling:
 11/17/2014 12:15:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

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

)onth							
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	0 0 0 0	CONCRETE	
-1 -2		0.0	dry to sl moist	FILL		fine to medium silty SAND, little ash, little fine gravel, trace coal, trace brick, (7.5YR 3/3) dark brown, loose, dry to slightly moist, slight petroleum odor, no staining.	133-P3C-X30A-0.5-1.0
\dashv	5	0.0	dry	FILL		ASH, little ceramics, trace debris, trace fine to medium	100 1 00 7007 2.0 2.0
-3		0.0	to sl	FILL		sand, (7.5YR 2.5/1) black, loose, dry to slightly moist, no odor, no staining. fine silty SAND, trace fine to medium gravel, (10YR 6/2)	
-4		0.0	moist slightly moist	FILL		light brownish gray, loose, slightly moist, no odor, no staining.	133-P3C-X30A-4.0-4.
-5		0.0	moist moist	FILL		ASH, trace glass fragments, trace coal, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. ASH, little coal, trace wood fragments, trace debris,	
-6 -7	4					(7.5YR 2.5/1) black, loose, moist, moderate petroleum odor, hydrocarbon staining.	133-P3C-X30A-6.0-6.
-8-	·						133-P3C-X30A-8.0-8.
-9-				NR		NO RECOVERY	
10		0.0					100 500 1004 10 0 10
-11 		0.0	moist to wet	FILL		ASH, little debris, trace coal, (7.5YR 2.5/1) black, loose, moist to wet, moderate petroleum odor, hydrocarbon staining.	133-P3C-X30A-10.0-10
-12 - -13 -	5						133-P3C-X30A-12.0-12
-14 		0.0	moist	FILL		fine silty SAND, trace ash, trace organic fibers, (7.5YR 2.5/1) black, loose, moist, slight petroleum odor, no	133-P3C-X30A-14.0-14
15 -		0.0	moist	FILL		staining. fine to medium silty SAND, trace ceramics, trace roots, (7.5YR 3/2) dark brown, loose, moist, no odor, no	
16						staining.	133-P3C-X30A-16.0-16
-17 	5	0.0	moist	PT	77 77 1 7 27 27	PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (7.5YR 3/2) dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-X30A-16.5-17
18		0.0	slightly moist	OL		UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
-20							

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Boring ID: 133-P3C-X31A

Page: 1

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

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611108.88

 Date Started Drilling:
 3/24/2014 9:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682506.699

 Date Finished Drilling:
 3/24/2014 10:45:00 AM
 Core Size: 2 in
 Boring Total Depth:
 20 ft

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

Physical Location: P3C - X31A (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 133-P3C-X31A-0.5-1.0 0.0 fine to medium SAND, some cinders, little coarse gravel, FILL dry (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining. 5.7 FILL CINDERS, some fine to medium sand, little ash, coarse dry 5 gravel, (5YR 2.5/1) black, loose, dry, no odor, no staining. 133-P3C-X31A-2.5-3.0 130.0 ASH, with cinders, some fine to medium sand, (7.5YR 4/1) **FILL** dry dark gray, loose, dry, strong petroleum odor, no staining. 133-P3C-X31A-4.5-5.0 178 5 wet **FILL** ASH, with cinders, some fine to coarse sand, little coarse gravel, trace silt, (7.5YR 5/1) gray, loose, wet, strong petroleum odor, no staining. 133-P3C-X31A-6.5-7.0 5 133-P3C-X31A-8.5-9.0 4.1 saturated **FILL** CINDERS, with ash, some coarse gravel, little fine to medium silty sand, trace wood debris, glass fragments, (5YR 133-P3C-X31A-10.5-11.0 2.5/1) black, loose, saturated, slight petroleum odor, hydrocarbon staining. 0.0 **FILL** SILT, little ash, cinders, trace gravel, (10YR 4/2) dark moist 5 grayish brown, low plasticity, very soft, moist to wet, no odor, to 0.0 133-P3C-X31A-12.5-13.0 **FILL** no staining. wet -13 SILT, (10YR 5/2) grayish brown, low plasticity, very soft, moist moist, no odor, no staining. 133-P3C-X31A-14.5-15.0 0.0 **FILL** fine to medium SAND, little coarse gravel, trace silt, (10YR moist 5/2) grayish brown, medium dense, moist, no odor, no 133-P3C-X31A-15.5-16.0 staining. -16 0.0 PT 133-P3C-X31A-16.0-16.5 dry PEAT (degraded vegetated material), 80% organic fibers, 1, 11, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry to moist moist, strong organic odor, no staining. Soils consistent with 11/ 5 0.0 moist OL UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR -18 5/1) gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg. 19 0.0 moist SM UNDno SILT, (10YR 5/1) gray, low plasticity, moist, no odor, 20 no staining. Soils consistent with UNDno. PPG LOGS.GDT - 6/24/14 16:7

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.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-X32A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611095.133

 Date Started Drilling:
 3/10/2014 10:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682479.99

 Date Finished Drilling:
 3/10/2014 11:25:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

 Physical Location:
 P3C - X32A

Depth	Recovery	PID	Moisture		Graphic		Cample
t bgs)	(ft/ft)	(ppm)	Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	D P P D	CONCRETE	
-1— -2— -	5	0.0	dry	FILL		fine to medium SAND, some ash, some cinders, little coal, trace brick, (5YR 4/3) reddish brown, dense, dry, no odor, no staining.	133-P3C-X32A-1.0-1.
-3-							133-P3C-X32A-3.0-3.
-4		0.0	dry	FILL		fine to medium SAND, some ash, some cinders, little ceramics, trace wood fragments, (10YR 5/1) gray, medium dense, dry, no odor, no staining.	
-5 -6		0.0	wet	FILL		fine to medium SAND, some ash, some cinders, little glass fragments, trace ceramics, (10YR 4/1) dark gray, loose to medium dense, wet, no odor, no staining.	133-P3C-X32A-5.0-5.
-7— -8— -	5						133-P3C-X32A-7.0-7.
10		0.0	wet	FILL		fine to medium SAND, some cinders, some ash, trace glass	133-P3C-X32A-9.0-9.
11— 12—	5	0.0	wet	I ILL		fragments, trace ceramics, (7.5YR 2.5/3) very dark brown, medium dense to loose, wet, slight organic odor.	133-P3C-X32A-11.0-1
13— — 14—		0.0	dry	OL		fine silty SAND, little roots, (7.5YR 3/2) dark brown, low plasticity, soft to medium dense, dry, no odor, no staining. Soils consistent with UNDno.	133-P3C-X32A-13.0-13
15		0.0	moist	SM		fine silty SAND, little roots, (7.5YR 3/3) dark brown, low	133-P3C-X32A-15.0-15
16— 17—	5	0.0		SM		plasticity, soft to medium dense, moist, no odor, no staining. Soils consistent with UNDno. PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers. Soils consistent with MM.	133-P3C-X32A-15.5-16
18 — 19 —		0.0		OL		fine silty SAND, little roots, (2.5Y 4/2) dark grayish brown. Soils consistent with UNDorg.	
20							
mmen	i ts: 1) 3 atte	empts we	ere made to	obtain best rec	coverv 2) U	IND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter	val of this horing

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Boring ID: 133-P3C-X33A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611081.827Date Started Drilling:3/5/2014 11:50:00 AMRig Type:Coordinates (NJSPNAD83) y:682452.937Date Finished Drilling:3/5/2014 12:50:00 PMCore Size:2.0 inBoring Total Depth:20 ftLogged By:A. Grossman/A. BoguckiProject Manager:Chris MartellDepth to Water:NAPhysical Location:P3C - X33A

onth							
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1		0.0		CONCRETE		CONCRETE	
3-4	5	0.0	slightly moist	FILL		fine to medium silty SAND, some cinders, little brick, (10YR 3/2) very dark grayish brown, dense, slightly moist.	
5—6—		0.0	moist to wet	FILL		ASH, some wood fragments, little silt, (10YR 3/1) very dark gray, medium dense, moist to wet.	133-P3C-X33A-5.0-5.6
7— - 8— -	5						133-P3C-X33A-7.0-7.5
9							133-P3C-X33A-9.0-9.
- 11 - 12	5	0.0	wet	FILL		CINDERS, some ash, some silt, little ceramics, (10YR 2/1) black, non plastic, dense, wet.	133-P3C-X33A-11.0-11
13— — 14—		0.0	wet	FILL		sandy SILT, little ash, little roots, (10YR 4/4) dark yellowish	133-P3C-X33A-13.0-13
5						brown, medium plasticity, soft, wet.	133-P3C-X33A-14.5-15
5 	5	2.7	moist			PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soil consistent with MM.	133-P3C-X33A-15.0-15
	. 1) 2 - 11					ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any into	



Boring ID: 133-P3C-X34A

Project	Name: F	PPG Ga	arfield Ave		ll.	Orilling Company: SGS North America		
	Number:					Orilling Method: Geoprobe	Coordinates (NJSP)	NAD83) x: 611068.1875
				10:22:00 AM		Rig Type:		AD83) y: 682426.25
Date Fi	nished Dri	illing:	5/21/2013	11:45:00 AM	Л	Core Size: 3 in	Boring Total Depth:	16 ft
Logged	By: MI				l	Project Manager: Chris Martell	Depth to Water: NA	
Physica	al Location	n: Site	e 133 - X34	IA.				
							(Not	e bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thic	kness:	Sample ID
		0.0	slightly	ASPHALT	XXXXX	ASPHALT		
. –	1.7	0.0	moist	FILL	\bowtie	fine to medium SAND, little fine to co		
-1	1.7	0.0	slightly	FILL		2.5/1) black, non plastic, loose, slightlestaining.	y moist, no odor, no	
_			moist		\bowtie	fine silty SAND, little cinders, coal, tra	ice brick. (5YR 4/3)	
-2-		0.0	slightly	NR		reddish brown, non plastic, loose to s		
-		0.0	moist	FILL	\bowtie	\no odor, no staining.		
-3	1.5		1110101		\bowtie	NO RECOVERY		
_					\bowtie	fine silty SAND, little cinders, coal, tra wood fragments, (7.5YR 4/3) brown, r		
1				NR		stiff, slightly moist, no odor, no stainir	ig.	
7		0.0	slightly	FILL		NO RECOVERY	/	
_ ٦	2		moist			fine silty SAND, some cinders, coal, li		
-5	_					wood fragments, (7.5YR 3/4) dark bro loose to soft, slightly moist, no odor, r		133-P3C-X34A-5.0-5.5
-						10056 to soit, slightly moist, no odor, r	io stairiiriy.	
-6		0.0	moist	FILL	\bowtie	ASH, with fine sand, some cinders, co	nal wood	
-		0.0	IIIOISt	1166	\bowtie	fragments, little medium gravel, cerar		
-7-	1.5				\bowtie	dark gray, non plastic, loose, moist, n		133-P3C-X34A-7.0-7.5
_					XXXX			133-P3C-X34A-7.0-7.5
-8				NR		NO RECOVERY		
		0.0	moist	FILL		ASH, with fine sand, some cinders, co		
_	1.2					fragments, little medium gravel, cerar dark gray, non plastic, loose, moist, n	nics, (7.5YR 4/1)	133-P3C-X34A-8.5-9.0
-9				NR	XXXXX	NO RECOVERY	o odor, no staining.	
				INIX		NO RECOVERT		
-10		0.0	moist	FILL	XXXX	ASH, with fine sand, some cinders, co	nal wood	
-			1110101		\bowtie	fragments, little medium gravel, cerar		133-P3C-X34A-10.5-11.0
-11	1			NR	<u> </u>	4/1) dark gray, non plastic, loose, mo	st, no odor, no	100 1 00 7.0 17 10.0 11.0
-				INIX		\staining. NO RECOVERY		
-12		0.0						
		0.0	moist	FILL	\bowtie	ASH, with fine sand, some cinders, co		
-13	1	0.0	moist	FILL		fragments, little medium gravel, cerar	ist no odor no	133-P3C-X34A-12.5-13.0
15				NR		\staining.	// //	
\Box						SILT, little clay, little roots, (10YR 5/4		
-14		0.0	moist	FILL		medium plasticity, soft, moist, no odo	r, no staining.	133-P3C-X34A-14.2-14.7
	,	2.4			$\underset{1}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset$	NO RECOVERY SILT, little clay, little roots, trace fine	gravel (10YR 5/4)	
-15	2	2.4	dry	PT		vellowish brown medium plasticity so		133-P3C-X34A-14.7-15.2
\dashv		1.0	!t	N 41 1		∖no staining.		
-16 		1.0	moist	MH		PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, dry	80% organic fibers,	
						\odor, no staining. Soils consistent with	h MM.	
						UNDno SILT, with roots, little organics	s, (10YR 5/2)	
						grayish brown, low plasticity, soft, mo		
						odor, no staining. Soils consistent wit	NUNUNO.	



Road, Piscataway, NJ 08854

Boring ID: 133-P3C-X35A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611054.6875 Date Started Drilling: 5/20/2013 2:00:00 PM Coordinates (NJSPNAD83) y: 682399.5 Rig Type: **Date Finished Drilling:** 5/21/2013 10:20:00 AM Core Size: 3 in Boring Total Depth: 17 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - X35A (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 **ASPHALT ASPHALT** fine to medium silty SAND, some medium to coarse 0.0 FILL 1.6 gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft. NR NO RECOVERY 0.0 FILL fine silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish 0.0 **FILL** 1.7 brown, non plastic, loose to soft. fine silty SAND, some medium to coarse gravel, little coal, cinders, trace wood fragments, (5YR 4/4) reddish NR brown, non plastic, loose to soft. 0.0 slightly FILL NO RECOVERY moist 133-P3C-X35A-4.5-5.0 ASH, some fine sand, some wood fragments, coal, little 1.4 glass, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, slightly moist, no odor, no staining. NR 0.0 **FILL** moist ASH, some fine to medium sand, some wood fragments. coal, little ceramics, coarse gravel, silt, (10YR 3/2) very 133-P3C-X35A-6.5-7.0 1.3 dark grayish brown, non plastic, loose, moist, no odor, no 133-P3C-X35A-6.5-7.0X staining. NR NO RECOVERY 0.0 moist FILL ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark 133-P3C-X35A-8.5-9.0 gray, non plastic, loose, moist, no odor, no staining. NR NO RECOVERY 0.0 moist **FILL** ASH, some fine sand fine to medium sand, some wood fragments, coal, cinders, little ceramics, coarse gravel, 133-P3C-X35A-10.5-11.0 1.1 silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no NR odor, no staining NO RECOVERY 0.0 **FILL** ASH, some fine sand fine to medium sand some wood moist fragments, coal, cinders, little ceramics coarse gravel, silt, 133-P3C-X35A-12.5-13.0 13 (7.5YR 4/1) dark gray, non plastic loose, moist no odor -13 no staining NO RECOVERY NR 0.0 **FILL** slightly ASH, some fine sand, fine to medium sand, some coal, cinders, ceramics, little ceramics, (7.5YR 5/1) gray, non moist 133-P3C-X35A-14.5-15.0 2 0.0 FILL plastic, loose, slightly moist, no odor, no staining. moist SILT, some roots, little fine sand, (7.5YR 3/2) dark 133-P3C-X35A-15.5-16.0 brown, low plasticity, soft, moist, no odor, no staining. -16 UNDorg SILT, 90% organic silt, 10% organic fibers, 1.2 OL 133-P3C-X35A-16.0-16.5 moist (7.5YR 2.5/1) black, medium plasticity soft, moist, 1.2 moist OL moderate organic odor, no staining. Soils consistent with UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.



Boring ID: 133-P3C-X35A-ME

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611243.362

Date Started Drilling: Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682399.904

Date Finished Drilling: Core Size: 2 in Boring Total Depth: 10 ft

Logged By: ES Project Manager: Scott Mikaelian 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	dry	2	FILL		ASPHALT, (10YR 5/1) gray, dry, no odor, no staining.	
- 1 		0.0	dry	3	FILL		fine to medium SAND, and asphalt, (10YR 2/1) black,	133-P3C-X35A-ME-1.0-1.5
-2		0.0	dry	2	FILL		loose, dry, no odor, no staining. ASPHALT, some fine to medium sand, little coal fragments,	133-P3C-X35A-ME-1.5-2.0
	4.5	0.0	dry	1	FILL		(5YR 3/2) dark reddish brown, loose, dry, no odor, no staining.	
-3		0.0	dry	3	FILL		CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining.	133-P3C-X35A-ME-3.0-3.5 133-P3C-X35A-ME-3.0-3.5
-4		0.0	dry	4B	FILL		fine to medium SAND, some fine to medium gravel, little ash, trace asphalt, (7.5YR 4/2) brown, medium dense, dry,	
_		0.0	moist	3	FILL		∖\no odor, no staining. //	
- 5		0.0	moist	3	FILL		ASH, some to little fine to medium sand, little COPR, trace glass, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-X35A-ME-5.0-5.5
_ -6		0.0	moist	3	FILL		Incinerator ASH, little glass, (10YR 6/1) gray, loose, moist, no odor, no staining.	
_							NO RECOVERY.	133-P3C-X35A-ME-6.5-7.0
-7 <i>-</i>	4						Incinerator Ash, little glass and wood debris, (10YR 3/1) very dark gray, moist to wet, no odor, no staining, water table at 6.5 ft bgs.	100 1 00 X00/ (ME 0.0 7.0
-8							table at 6.5 ft bgs.	
-9-				3	NR		NO RECOVERY.	133-P3C-X35A-ME-8.5-9.0



PPG LOGS.GDT - 7/9/13 13:07

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Boring ID: 133-P3C-Y22A

Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611264.0625 Date Started Drilling: 6/27/2013 8:30:00 AM Coordinates (NJSPNAD83) y: 682723.25 Rig Type: Date Finished Drilling: 6/27/2013 10:00:00 AM Core Size: 3 in Boring Total Depth: 16 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - Y22A (Note bgs = below ground surface) Depth Recovery PID Moisture GA Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log ID (ft bgs) 0.0 1 ASPHALT ASPHALT dry fine to medium SAND, with ash, some cinders, little 0.0 3 FILL 133-P3C-Y22A-0.5-1.0 1.4 wood fragments, trace coal, fine to medium gravel, (10YR 3/6) dark yellowish brown, non plastic, loose, dry, NR NR no odor, no staining. NO RECOVERY 0.0 3 FILL dry fine to medium SAND, with ash, some cinders, little 133-P3C-Y22A-2.5-3.0 wood fragments, trace coal, fine to medium gravel, 1.3 (10YR 3/6) dark yellowish brown, non plastic, loose, dry, NR NR no odor, no staining NO REĆOVERY 0.0 fine to medium SAND, with ash, some cinders, little 3 **FILL** dry 6 FILL wood fragments, trace coal, fine to medium gravel, 0.0 moist 133-P3C-Y22A-4.5-5.0 1.6 (10YR 3/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining. ASH, with fine silty sand, some cinders, coal, ceramics. NR NR little wood fragments, (10YR 5/1) gray, non plastic, 0.0 moist 6 FILL loose, moist, no odor, no staining. 0.0 133-P3C-Y22A-6.5-7.0 moist 5 **FILL** NO RECOVERY 2 ASH, with fine silty sand, some cinders, coal, ceramics, 0.0 slightly 5 **FILL** little wood fragments, (10YR 5/1) gray, non plastic, moist loose, moist, no odor, no staining 0.0 slightly 5 FILL ASH, with fine silty sand, some cinders, coal, ceramics, moist little wood fragments, coarse gravel, GGM, (10YR 5/1) 133-P3C-Y22A-8.5-9.0 2 gray, non plastic, loose, moist, no odor, no staining, slight green staining. GGM, some fine sand, little medium gravel, calcium leachate, (5GY 5/2) grayish green, non plastic, soft to 0.0 slightly 5 FILL stiff, slightly moist, no odor, green staining.

GGM, with cinders, some COPR, little gravel, trace calcium leachate, (5GY 5/2) grayish green, non plastic, moist 0.0 3 **FILL** 133-P3C-Y22A-10.5-11.0 2 moist FILL 0.0 moist soft to stiff, slightly moist, no odor, green staining. GGM, some COPR, little gravel, (5GY 5/2) gravish 0.0 **FILL** moist 3 green, non plastic, soft to stiff, slightly moist, no odor, green staining. WOOD FRAGMENTS, with silt, some roots, (7.5YR 133-P3C-Y22A-12.5-13.0 18 13 2.5/3) very dark brown, non plastic, loose to dense, moist, no odor, no staining. NR NR fine silty SAND, trace fine gravel, (5YR 4/4) reddish 0.0 moist 133-P3C-Y22A-14.1-14.6 FILL 3 brown, non plastic, loose to soft, moist, no odor, no 133-P3C-Y22A-14.1-14.6X 2.3 2 dry 7 PT staining 133-P3C-Y22A-14.6-15.1 fine silty SAND, trace fine gravel, (5YR 4/4) reddish 1.2 9 МН moist brown, non plastic, loose to soft, moist, no odor, no staining. NO RECOVERY 16 fine silty SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, moist, no odor, no staining PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM. UNDno SILT, 80% inorganic silt, 20% organic fibers, low plasticity, soft to stiff, moist, no odor, no staining. Soils consistent with UNDno.



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-Y23A

Date St		60240 ing: 7	0739 7/17/2013 8	3:10:00 AM		Drilling Company: SGS North America Drilling Method: Geoprobe Rig Type:	Coordinates (NJSPN	AD83) x: 611238.75 AD83) y: 682705.4375
		illing:	7/17/2013	9:35:00 AM		Core Size: 3 in	Boring Total Depth:	
	By: MI	C:t	e 133 - Y23) A		Project Manager: Chris Martell	Depth to Water: NA	<u> </u>
nysica	ai Locatioi	n: Site	e 133 - YZ	SA .			(Note	e bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	ness:	Sample ID
		0.0	dry	ASPHALT	××××	ASPHALT, (2.5Y 3/1) very dark gray, r	non plastic, very	
-1	2	0.0	dry dry	FILL		loose, dry, no odor, no staining. fine to medium GRAVEL, trace coal, tr medium sand, (7.5R 2.5/2) very dusky loose, dry, no odor, no staining.	red, non plastic,	
-2 - -3 -	1.6	0.0	dry	FILL		ASH, with cinders, trace coal, trace wo (2.5YR 3/2) dusky red (5Y 7/2) light gr loose, dry, no odor, no staining. ASH, with cinders, trace coal, trace wo trace ceramics, (5Y 7/2) light gray, nor	ay, non plastic,	
-4	2	0.0	slightly moist	NR FILL FILL		dry, no odor, no staining. NO RECOVERY CINDERS, trace fine to medium sand,		
-5	2		slightly moist			\daggerightarrows\dagge	dark olive gray,	
-6 -7 -	2	0.0	slightly moist	FILL		non plastic, slightly moist, no odor, gree GGM, some cinders, trace white precip dark olive gray, non plastic, slightly mo staining.	oitate, (5Y 3/2)	
-8 -9 -	2	0.0	slightly moist	FILL		GGM, some cinders, trace white preciperation dark olive gray, non plastic, slightly mostaining.		
-10 -	2	0.0	moist	FILL		GGM, some cinders, trace ash, trace f sand, (10Y 5/2) grayish olive, non plas		
-11 -12	2	0.0	slightly moist	FILL		moist, no odor, green staining. SILT, trace peat, (5R 6/2) pale red, (5N brown, low plasticity, soft to stiff, slight		133-P3C-Y23A-10.8-1
_ -13	2	0.0	slightly moist	FILL		no staining. SILT, trace fine to medium sand, trace dark reddish brown, low plasticity, soft moist, no odor, no staining.		133-P3C-Y23A-12.8-1
-14 - -15	2	0.0	saturated	FILL		fine to medium silty SAND, little fine to (7.5YR 4/2) brown, low plasticity, soft to no odor, no staining.		133-P3C-Y23A-15.0-1
_ -16	1	2.1	slightly moist moist	PT OL OL		PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, slight organic odor, no staining. Soils consis	ntly moist, strong / /	133-P3C-Y23A-15.0-15 133-P3C-Y23A-15.5-16
-17		1.2	moist	<u> </u>		UNDorg SILT, 80% organic silt, 20% c (10YR 5/2) grayish brown, low plasticit moist, slight organic odor, no staining. with UNDorg. UNDorg SILT, 80% organic silt, 20% c (10YR 5/2) grayish brown, low plasticit moist, slight organic odor, no staining. with UNDorg.	organic fibers, y, soft to stiff, Soils consistent organic fibers, y, soft to stiff,	

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-Y25AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611215.518
Date Started Drilling: 12/1/2014 9:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682652.882
Date Finished Drilling: 12/1/2014 10:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft
Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA
Physical Location: P3C - Y25AR

							·	s = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	Class		Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0			ONCRET	E A A P A	CONCRETE	
-1 - -2	_	0.0	dry	3	FILL		ASH, trace coal, trace gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	133-P3C-Y25AR-0.5-1.0
-3 -4	5							133-P3C-Y25AR-2.5-3.0
_								133-P3C-Y25AR-4.5-5.0
-5— —		0.0	moist	3	FILL		ASH, trace coal, trace gravel, (10YR 5/2) grayish brown,	
6		0.0	moist	3	FILL		loose, moist, no odor, no staining. medium to coarse SAND, some ash, trace gravel,	
_							(10YR 4/4) dark yellowish brown, loose to medium dense, moist, no odor, no staining.	133-P3C-Y25AR-6.5-7.0
-7 <i>-</i>	5	0.0	saturated	5	FILL		GGM, (10Y 5/2) grayish olive, soft, saturated, no odor, green staining.	
-8							green stanning.	
_ - 9								
-10		0.0	saturated	5	FILL		GGM, (10Y 5/2) grayish olive, soft, saturated, no odor,	
- 11			Cataratoa				green staining.	
-12	_							
12	5							
-13 								
-14 								
-15		3.1	saturated	3	FILL		fine to medium silty SAND, some ash, (10YR 3/3) dark	133-P3C-Y25AR-15.0-15
10		0.0	slightly	7	PT	<u> </u>	brown, soft to medium dense, saturated, slight	133-P3C-Y25AR-15.5-16
-16 			moist			1, 11, 1	\tag{petroleum odor, petroleum staining.} \tag{PEAT (degraded vegetated material), 60% organic silt, }	
-17	_	0.0	slightly moist	9	OL		40% organic fibers, (10YR 3/4) dark yellowish brown, low plasticity, medium dense, slightly moist, moderate	
_	5						organic odor, no staining. Soils consistent with MM.	
-18- 							SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium dense,	
-19							slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
_							consistent with ondorg.	
-20								
			e made to o					

Boring ID: 133-P3C-Y27A

Page: 1

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

Project Number: 60240739

Date Started Drilling: 11/19/2014 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611189.576 Rig Type: Geoprobe **Coordinates (NJSPNAD83) y:** 682600.372

Date Finished Drilling: 6/22/2015 Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: SP,SS Depth to Water: NA Project Manager: Scott Mikaelian

Depth	Recovery	PID	Moisture		Graphic		Sample
Range t bgs)	(ft/ft)	(ppm)	Content	USCS	Log	Surface Cover and Thickness:	ID
		0.0		CONCRETE	PAAP	CONCRETE.	
-1 -1		0.0	dry	FILL		ASH,trace coal,trace gravel,trace debris,(10YR 4/4) dark yellowish brown,loose,dry,no odor,no staining.	133-P3C-Y27A-0.5-1.0
-2 - -3 -	5						133-P3C-Y27A-2.0-2.5
-4 - -5							133-P3C-Y27A-4.0-4.5
_		0.0	wet to	FILL		ASH,trace gravel,trace coal,trace glass,trace brick,trace debris,(10YR 3/1)very dark gray,loose,wet to	
-6 -7	5		saturated			saturated,no odor,no staining.	133-P3C-Y27A-6.0-6.5
-8 -9							133-P3C-Y27A-8.0-8.5
-10 - -11		0.0	moist	FILL		ASH,trace gravel,trace coal,trace debris,(10YR 3/1) very dark gray,loose,moist,no odor,no staining.	133-P3C-Y27A-10.0-10.5
-12 - -13 -	5						133-P3C-Y27A-12.0-12.5
-14 -							133-P3C-Y27A-14.0-14.5
-15 -		0.0	slightly	FILL		fine to medium silty SAND,trace gravel,trace ash,trace	133-P3C-Y27A-15.0-15.5
-16		0.0	moist slightly	PT	71/ 71/	debris,(10YR 3/6) dark yellowish brown,low plasticity,medium dense,slightly moist,no odor,no	133-P3C-Y27A-15.5-16.0 133-P3C-Y27A-16.0-16.5
_ 17 18 19	5	0.0	moist slightly moist	OL		\staining. PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, medium plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Y27A-16.0-16.5X

Project Number: 60240739

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Boring ID: 133-P3C-Y28A

Page: 1

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

Drilling Company: SGS North America
Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611175.909

 Date Started Drilling:
 3/17/2014 10:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682573.577

 Date Finished Drilling:
 3/17/2014 11:00:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Depth	Recovery	PID	Moisture		Graphic		Sample
t bgs)	(ft/ft)	(ppm)	Content	USCS	Log	Surface Cover and Thickness:	ID
		0.0		CONCRETE	0 0 0 0	CONCRETE	
-1		0.0	slightly moist	FILL		fine SAND, some crushed concrete, (10YR 7/8) yellow, loose, slightly moist, no odor, no staining.	133-P3C-Y28A-0.5-1.0
-2 - -3	5						133-P3C-Y28A-2.0-2.
-4		0.0	slightly moist	FILL		fine to medium SAND, some ash, little fine gravel, (7.5YR 3/2) dark brown, low plasticity, hard, slightly moist, no odor,	133-P3C-Y28A-4.0-4.
-5-		0.0	moist moist	FILL		no staining. ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	
-6						ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-Y28A-6.0-6.5
-7— - -8—	5					, and the second	
9							133-P3C-Y28A-8.0-8.
10		0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist,	133-P3C-Y28A-10.0-10
-11						no odor, no staining.	
12 <u> </u>	5						133-P3C-Y28A-12.0-12
-14 -							133-P3C-Y28A-14.0-14
15		0.0	moist	FILL		ASH, little cinders, coal, little wood fragments, fill material,	133-P3C-Y28A-15.0-15
- 16 - -		0.0	moist	PT	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	(7.5YR 4/1) dark gray, loose, moist, no odor, no staining. PEAT, 100% organic fibers, 10YR/2 very dark brown, low plasticity, soft, moist. Soils consistent with MM.	133-P3C-Y28A-15.5-16
-17 - -18	3			NR		NO RECOVERY	
_ -19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/5/17 19:45

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Boring ID: 133-P3C-Y28A-ME

Page: 1

te S te F	t Number: tarted Dril inished Dr d By: ES	ling: 6	3/3/2015 3	:35:00 PM 3:50:00 PM	R C	rilling Method: Direct Push ig Type: ore Size: 3 in roject Manager: Scott Mikaelian		
	al Locatio	n. B30	C-Y28A		P	roject Manager: Scott Mikaelian	-	12.835 ft NAVD88
pth nge ogs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and		Sample ID
_		0.0	dry	ASPHALT		ASPHALT.		
_		0.0	moist	FILL		fine to medium SAND, (10YR 4/3) moist, no odor, no staining.	brown, medium dense,	
_	2.0			CONCRETE		CONCRETE.		
	3.2	0.0	dry	FILL		COAL ASH, and cinders, trace wo black, loose, dry, no odor, no stain		133-P3C-Y28A-ME-2.5-3.0
_				NR		NO RECOVERY.		
_		0.0	moist to wet	FILL		Incinerator ASH, trace wood debris 4/1) dark gray, moist to wet, no od 6.5' bgs.	s, glass, and metal, (10YR or, no staining, DTW @	133-P3C-Y28A-ME-5.0-5.5
			WEL		\bowtie	o.o bys.		133-P3C-Y28A-ME-6.0-6.5
		0.0	wet	FILL NR		ASH, little wood debris, trace meta loose, wet, no odor, no staining.	l, (7.5YR 2.5/1) black,	133-P3C-Y28A-ME-6.5-7.0
_	2					NO RECOVERY.		

Boring ID: 133-P3C-Y29A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611162.518 Date Started Drilling: 3/17/2014 11:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682546.648

Date Finished Drilling: 3/17/2014 12:00:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Project Manager: Chris Martell Logged By: MI

Recovery (ff/ff)	PID (nom)	Moisture Content	USCS	Graphic	Surface Cover and Thickness:	Sample ID
(1010)		Contont				
	0.0	moist	FILL		odor, no staining.	133-P3C-Y29A-1.0-1.5
4	0.0	dry slightly moist	FILL FILL		crushed CONCRETE, (9.5/2.5Y_/1) white, hard, dry, no odor, no staining. fine to medium SAND, with cinders, ash, little fine gravel, (7.5YR 3/1) very dark gray, loose, slightly moist, no odor, no staining.	133-P3C-Y29A-3.0-3.5
			NR		NO RECOVERY	
	0.0	moist	FILL		ASH, some cinders, little wood fragments, little silt, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-Y29A-5.0-5.5
5						133-P3C-Y29A-7.0-7.5
						133-P3C-Y29A-9.0-9.5
2.5	0.0	moist	FILL		ASH, some cinders, little wood fragments, little silt, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-Y29A-11.0-11.
3.5	0.0		FILL		sandy SILT, trace wood fragments, trace roots, (7.5YR 3/2) dark brown, (10YR 5/1) gray, non plastic, soft.	133-P3C-Y29A-13.0-13.
			NR	XXXXX	NO RECOVERY	
	0.0	moist	FILL		fine silty SAND_trace roots (7.5YR 4/2) brown_dense	133-P3C-Y29A-15.0-15
5	0.0	300	OL		moist, no odor, no staining. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff. Soils consistent with UNDorg.	133-P3C-Y29A-15.5-16.
	(ft/ft) 4 4	(ft/ft) (ppm) 0.0 0.0 0.0 4 0.0 5 0.0 0.0 0.0 0.	(ft/ft) (ppm) Content 0.0	(ft/ft) (ppm) Content OSCS	Content	Content Cont

Boring ID: 133-P3C-Y29A-ME

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611162.516 Date Started Drilling: 6/3/2015 4:20:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682547.034 Boring Total Depth: 15 ft Date Finished Drilling: 6/3/2015 4:40:00 PM Core Size: 3 in

hysica	l By: ES al Locatio	n. P30	C-Y29A			Project Manager: Scott Mikaelian	Depth to Water: 6. Surface Elevation:	
	ai Locatio	11. F3	U-129A				Surface Elevation.	12.741 ILINAVD00
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	ness:	Sample ID
		0.0	dry	CONCRETE		CONCRETE.		
		0.0	dry	FILL		fine to medium SAND, (10YR 4/3) brown	, dry to moist, no	
-1			to moist			odor, no staining.		
-			dry	CONCRETE		CONCRETE.		†
-2		0.0	dry	FILL	13 · · · · · · · · · · · · · · · · · · ·		gray loose dry no	133-P3C-Y29A-ME-2.0-2.5
-	2.5		ury			odor, no staining.	gray, 100se, dry, 110	1
-3				NR		NO RECOVERY.		
Ĭ								
,								
4								
_								
5—		0.0	dry	FILL	XXXX	ASH, trace to little coal fragments, (10YR	2.5/1) gray loose	133-P3C-Y29A-ME-5.0-5.5
\dashv			al y		\bowtie	dry, no odor, no staining, iron oxidation st	aining from 5.2-5.5'	
6-		0.0			\bowtie	bgs.	_	133-P3C-Y29A-ME-6.0-6.5
_		0.0	dry to	FILL		ASH, some cinders, trace glass, (10YR 3 loose, dry to wet, no odor, no staining, DT	(/1) very dark gray,	133-F30-129A-WIL-0.0-0.3
			wet		\bowtie	loose, dry to wet, no odor, no staining, Di	IVV @ 6.7 Dgs.	133-P3C-Y29A-ME-6.7-7.2
'	3				\bowtie			
	· ·				\bowtie			
8-				NR	XXXXX	NO RECOVERY.		†
-								
9-								
_								
10								100 000 1/004 145 40 0 40
		0.0	saturated	FILL		ASH, (10YR 4/1) dark gray, loose, satura	ted, no odor, no	133-P3C-Y29A-ME-10.0-10
,,						staining.		
11—					\bowtie			
					\bowtie			
12—	_				\bowtie			
-	4				\bowtie			
13								
_					\bowtie			133-P3C-Y29A-ME-13.3-13
14—		0.0	wet	FILL		SILT, little ash, little to trace organic fiber	s (7 5YR 3/2) dark /-	
· · _			Wet	NR	1	brown, loose, wet, no odor, no staining.	5, (7.511(6/2) ddik	
.						NO RECOVERY.		
15								
- 1								
		I	1		1			
otes:			0000			UND-		of anti-media and a second
s - bel	ow surface		COPR - chr GGM - gree		essing re	sidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - man	lufactured gas plant romate chemical production w

PPG LOGS.GDT - 6/24/14 16:7

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Y30A

Page: 1

732.564.3200 office telephone

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

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x: 611148.834

 Date Started Drilling:
 3/10/2014 9:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682519.941

 Date Finished Drilling:
 3/10/2014 9:55:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Physical Location: P3C - Y30A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 0.0 **FILL** fine to medium SAND, some ash, little cinders, trace coal, dry 133-P3C-Y30A-1.0-1.5 (10R 3/6) dark red, dense, dry, no odor, no staining. 0.0 FILL fine to medium silty SAND, some ash, trace brick, (7.5R 3/6) dry 5 dark red, medium dense, dry, no odor, no staining. 0.0 **FILL** dry fine to medium SAND, some ash, some cinders, little coarse 133-P3C-Y30A-3.0-3.5 gravel, (7.5YR 4/1) dark gray, medium dense, dry, no odor. no staining. 18.0 FILL moist medium SAND, some ash, some cinders, little silt, (5YR 4/1) dark gray, medium dense to loose, moist, dry, slight petroleum odor, no staining. 133-P3C-Y30A-5.0-5.5 0.0 moist **FILL** medium SAND, some ash, some cinders, little silt, (5YR 4/1) dark gray, medium dense to loose, moist, slight petroleum odor, no staining. 30.0 **FILL** wet fine to medium SAND, some cinders, some ash, some coarse gravel, little coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, moderate petroleum odor, no staining. 133-P3C-Y30A-7.0-7.5 5 133-P3C-Y30A-9.0-9.5 7.0 **FILL** fine to medium SAND, some ash, some cinders, trace ceramics, (7.5YR 4/1) dark gray, medium dense to loose, wet, moderate petroleum odor, no staining. 133-P3C-Y30A-11.0-11.5 5 -13 133-P3C-Y30A-13.0-13.5 14 0.0 moist fine silty SAND, (7.5YR 3/1) very dark gray, medium SM plasticity, soft to medium dense, moist, slight petroleum odor, no staining. Soils consistent with UNDno. 133-P3C-Y30A-15.0-15.5 0.0 SM moist fine silty SAND, trace wood fragments, (7.5YR 3/2) dark brown, medium plasticity, soft to medium dense, moist, no -16 odor, no staining. Soils consistent with UNDno. 133-P3C-Y30A-16.0-16.5 0.0 133-P3C-Y30A-16.5-17.0 dry PT PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, dense, dry, moderate, 1/ 1/1/ 1 5 sulfur odor, no staining. Soils consistent with MM. -18 1/ V/ V <u>\ \ / / \ \ / / / </u> 19 1/ 1/1/ 1 20

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 Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/25/2014 8:10:00 AM

Boring ID: 133-P3C-Y31A

Page: 1

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

Drilling Company: SGS North America

Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 611139.474

 Coordinates (NJSPNAD83) y:
 682488.318

 Date Finished Drilling:
 4/25/2014 10:00:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

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

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

 Physical Location:
 P3C - Y31A

Rig Type:

epth	Daggioni	PID	Maiatura		Cropbia		Comple
t bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1		0.0	dry	FILL		fine to coarse SAND, with fine to medium gravel, some glass, trace ash, (7.5YR 2.5/1) black, loose to medium dense, dry, no odor, no staining.	133-P3C-Y31A-0.5-1.
-3	5	0.0	dry to moist	FILL		fine to medium silty SAND, with ash, little cinders, little fibers, trace fine to coarse gravel, coal, (10YR 5/2) grayish brown, medium dense, dry to moist, no odor, no staining.	133-P3C-Y31A-2.5-3.
5		9.0	wet	FILL		ASH, with medium to course gravel, some fine to medium silty sand, little cinders, debris, trace brick, (10YR 3/1) very	133-P3C-Y31A-4.5-5.
-6— -7— -8—	4					dark gray, loose, wet, slight hydrocarbon odor, no staining.	133-P3C-Y31A-6.5-7.
9				NR		NO RECOVERY	100-1 00-10 17-0.0-0.
- 11 - 12	5	0.0	wet	FILL		fine to medium silty SAND, and fine to medium gravel, with ash, little cinders, debris, (10YR 5/1) gray, loose to medium dense, wet, no odor, no staining.	133-P3C-Y31A-10.5-1
13—		0.0	de	FILL		CUT come fibrate trace wood debrie coal (40VD 4/0) deals	133-P3C-Y31A-12.5-13
15			dry			SILT, some fibers, trace wood debris, coal, (10YR 4/2) dark grayish brown, low plasticity, soft, dry, no odor, no staining.	133-P3C-Y31A-14.5-1
16—		0.0	dry	PT	7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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-Y31A-15.0-1
17—		0.0	dry	PT	1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PEAT (degraded vegetated material), 60% organic fibers, 40% organic silt, (10YR 5/2) grayish brown, soft, dry,	
18—	5	0.0	dry	OL		moderate organic odor, no staining. Soils consistent with MM. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.	



Boring ID: 133-P3C-Y32A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611122
Date Started Drilling: 5/21/2013 8:54:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682466.375
Date Finished Drilling: 5/21/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Y32A		

ge (ft/ft) (ppm)	face)
ge gs) (ff/ft) (ppm) Content	
2 0.0 moist slightly 0.0 moist moist FILL fine SAND, some angular gravel, (5YR 5/3) reddish brown, non plastic, loose, slightly moist. fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY	
1 2 0.0 slightly moist FILL fine SAND, some angular gravel, (5YR 5/3) reddish brown, non plastic, loose, slightly moist. 2 0.0 FILL fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY 133-P3C-Y33	
0.0 moist moist FILL brown, non plastic, loose, slightly moist. fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY	
2 moist fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY 133-P3C-Y33	2A-1.0-1
fine to my diadx, more cinders, little ceramics, little fill material. NR NO RECOVERY 1.2	
3 1.2 little fill material. NR NO RECOVERY 133-P3C-Y33	
NR NO RECOVERY	
1	2A-3.0-3
7 0.0 moist FILL fine to medium silty SAND, some cinders, little fill	
material, (10YR 4/2) dark grayish brown, non plastic,	
5 1.8 12.6 wet FILL loose, moist to wet. fine to coarse CINDERS, some ash, little brick, little 133-P3C-Y33	2A-5.0-5
glass, (10YR 3/1) very dark gray, non plastic, loose, wet,	
6 7.1 Wot NR \moderate petroleum odor, sheen. // 133_P3C_Y3	2A-6.0-6
FILL NO RECOVERY ASH, some cinders, some fine to medium sand, little 133-P3C-Y3:	2A-6.5-7
7— 1.3 ASH, some cinders, some fine to medium sand, little gravel, little fill material, (10YR 2/1) black, non plastic,	
NR loose, wet, moderate petroleum odor, sheen.	
8 NO RECOVERY ASH, some cinders, little sand, little coal, little fill 133-P3C-Y32	2A-8 0-8
material. (10YR 3/1) very dark gray, non plastic, loose. 133_P3C_V3	
9— 1.6 wet, slight petroleum odor, sheen.	2, (0.0 0
NR NO RECOVERY 0.0 wet FILL ASH some cinders little full material (10YR 133-P3C-Y32)	Δ_10 0_1
ASH, some cinders, little coal, little fill material, (10YR 133-P3C-Y32/4/1) dark gray, non plastic, loose, wet, slight petroleum 133-P3C-Y32/4/10 dark gray, non plastic, loose, wet, slight petroleum	
11— 1.7 1.7 odor.	A-10.5-1
12 NR NO RECOVERY	A 40 0 4
0.0 wet FILL CINDERS, little ash, (10YR 2/1) black, non plastic, loose, 133-P3C-Y32/ 29.9 moist FILL wet.	
2 29.9 moist FILL \wet. 133-P3C-Y32/ fine silty SAND, little ash, little roots, little fill material,	A-12.5-1
(10YR 4/2) dark grayish brown, non plastic, loose, moist,	
slight petroleum odor, sheen.	
1.3 moist FILL fine silty SAND, little ash, little roots, little fill material,	A-14.2-1
15 2 1.6 moist PT (10YR 4/2) dark grayish brown, non plastic, loose, moist. 133-P3C-Y32. (10YR 4/2) dark grayish brown, non plastic, loose, moist. 133-P3C-Y32. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist.	
20% organic silt (10YR 3/3) dark brown non plastic 133-P3C-Y32/	
medium dense, moist, moderate sulfur odor. Soils 133-P3C-Y32/	A-14.8-1
consistent with MM.	

A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Y33A

	Name: F					Drilling Company: SGS North America		
	Number:					Drilling Method: Geoprobe		NAD83) x: 611106.149
				4:00:00 PM		Rig Type:	Coordinates (NJSPN	NAD83) y: 682438.347
Date Fi	nished Dr	illing:	6/22/2015	5 4:00:00 PM		Core Size: 3.0 in	Boring Total Depth:	20 ft
_ogged	By: SP					Project Manager: Scott Mikaelian	Depth to Water: NA	4
	al Locatio	n: P30	Ç-Y33A .				Surface Elevation:	12.3 ft NAVD88
Denth								
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Th	iickness:	Sample ID
_		0.0	dry	ASPHALT		ASPHALT, (10YR 4/1) dark gray, loos staining.	se, dry, no odor, no	
-1 -2 -3 -	4	0.0	dry	FILL		ASH, little fine to medium sand trace debris, (7.5YR 4/2) brown, medium d staining.		
-4				NR	XXXX	NO RECOVERY		-
-5		0.0		FILL		ASH, little fine to medium sand trace (7.5YR 4/2) brown, medium dense, d	glass, trace debris, lry, no odor, no staining.	
-6— -7— -8— -9—	5	0.0	moist	FILL		ASH, trace wood fragments, trace gla 3/1) very dark gray, loose, moist, no o		
-10 - -11		0.0	slightly moist	FILL		ASH, little fine to medium sand trace (10YR 3/1) very dark gray, medium dodor, no staining.		
-12 -13 -14	5	0.0	moist	SP		fine silty SAND, trace organics, trace dark brown, medium dense, moist, no Soils consistent with UNDorg.		
-		0.0	slightly	PT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PEAT (degraded vegetated material),	(50% organia 50%	+
-15 -16 -17	5	0.0	moist	OL		silt), (7.5YR 4/2) brown, medium den organic odor, no staining. Soils consis UND organic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining. Soils consistent with UNDorganic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining. Soils consistent with UNDorganic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining. Soils consistent with UNDorganic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining.	se, slightly moist, slight stent with MM. ganic), (7.5YR 4/2) slight organic odor, no	133-P3C-Y33A-15.0-15.5
-18 -								
-19 								
20								
	ow surface adow mat		COPR - chr GGM - gree		essing r	esidue UNDno - non-organic undisturbed nati UNDorg - organic undisturbed native d		ufactured gas plant romate chemical production wa
						ft thick 3) No CCPW (COPR or GGM) present in any interval of this		



Boring ID: 133-P3C-Y33A-ME

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611108.65
Date Started Drilling:	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682439.141
Date Finished Drilling:	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Discription DOO YOUA		

Depth								
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_		0.0	dry	3	FILL		fine to medium SAND, some asphalt, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
-1- -		0.0	dry	4B	FILL		fine to medium SAND, little COPR, trace glass, (5YR 4/3) reddish brown, medium, dense, dry, no odor, no staining.	133-P3C-Y33A-ME-1.0-1.5
-2 - -3	5	0.0	dry dry	3	FILL FILL		CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining. fine to medium SAND, some coal fragments, little brick, trace wood debris, (7.5YR 4/2) brown, medium dense, dry,	133-P3C-Y33A-ME-3.0-3.5
_ _4 —		0.0	dry	3	FILL		no odor, no staining. ASH, some coal fragments, (10YR 6/1) gray, loose, dry no odor no staining, trace, viscous purple residue.	133-P3C-Y33A-ME-3.0-3.5
_ -5-		0.0	.,	3	FILL		NO RECOVERY.	
-6- -		0.0	moist	3	FILL		Incinerator ASH, some fine to medium sand, little glass, (10YR 5/1) gray, loose, moist to wet, no odor no staining, water table at 7.0 ft bgs.	
-7 -8	4.5							133-P3C-Y33A-ME-7.0-7.5
-9 <i>-</i>								133-P3C-Y33A-ME-9.0-9.5
 -10				3	NR		NO RECOVERY.	

Boring ID: 133-P3C-Z22A

Page: 1

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611283.92 **Date Started Drilling:** 11/14/2014 9:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682720.86

Date Finished Drilling: 11/14/2014 10:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: SP Project Manager: Scott Mikaelian

Depth Range	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness:	Sample
ft bgs)	(ft/ft)	(ppm)	Content		Log		ID
_		0.0		CONCRETE		CONCRETE	
—1— - –		0.0	dry	FILL		ASH, trace coal, trace fine to medium sand, trace debris, (10YR 4/4) dark yellowish brown, loose, dry, no odor, no	133-PC3-Z22A-1.0-1.5
_2	5					staining.	133-PC3-Z22A-2.0-2.5
-3		0.0	dry	FILL FILL		fine to medium SAND, trace coal, trace gravel, (2.5YR 4/6) red, medium dense, dry, no odor, no staining.	
		0.0	dry	FILL		ASH, trace coal, trace gravel, trace debris, (10YŘ 4/1) dark gray, loose, dry, no odor, no staining.	
-4						dark gray, 10036, dry, 110 odor, 110 staining.	133-PC3-Z22A-4.0-4.5
-5		0.0	moist to	FILL		ASH, trace coal, trace debris, trace gravel, (10YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	
6 7	4		wet				133-PC3-Z22A-6.0-6.5
-8 -9							133-PC3-Z22A-8.0-8.5
. –				NR		NO RECOVERY	
_10		0.0	slightly	FILL		ASH, trace coal, trace gravel, trace debris, (10YR 4/1)	133-PC3-Z22A-10.0-10.
11 		0.0	moist moist	FILL		dark gray, loose, slightly moist, no odor, no staining. GGM, trace ash, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining.	
12 13 14	5						
15 		0.0	moist	FILL		GGM, trace ash, (10Y 5/2) grayish olive, soft, moist, no odor, green staining.	
16 17						odor, green staming.	
	5	0.0		FILL		fine to medium silty SAND, trace organic fibers, trace	133-PC3-Z22A-17.5-18.
-18 -						ash, (10YR 2/1) black, slight petroleum odor.	133-PC3-Z22A-18.0-18.
19		0.0	slightly moist	PT	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (10YR 4/3) brown, low plasticity, medium dense, slightly moist, moderate organic odor, no	133-PC3-Z22A-18.5-19.
-20						staining. Soils consistent with MM.	

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Z23AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611270.592Date Started Drilling:11/25/2014 11:30:00 AMRig Type:Coordinates (NJSPNAD83) y:682693.947

Date Finished Drilling: 11/25/2014 1:00:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

epth		DID	N 4 - 1 - 1				
lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	PAAPA	CONCRETE	
-1 -2	5	0.0	dry	FILL		ASH, trace coal, trace brick, trace glass, trace debris, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	133-P3C-Z23AR-0.5-1.
-3 -4 -							133-P3C-Z23AR-2.5-3.
-5- - -6		0.0	slightly moist	FILL		ASH, trace coal, trace brick, trace debris, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining.	155-F5U-ZZ5AR-4.5-5
-7- -8- -9-	5	0.0	moist	FILL		GGM, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining.	-
-10 11 	5	0.0	moist	FILL		GGM, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining.	
-15		0.0	slightly moist	FILL		GGM, (10Y 6/2) light grayish olive, soft, slightly moist, no odor, green staining.	133-P3C-Z23AR-15.5-1
-16 - -17		3.2	slightly moist	FILL		fine sandy SILT, (10YR 2/1) black, low plasticity, medium dense, slightly moist, slight petroleum odor.	133-P3C-Z23AR-16.5-1
-18 -19 -20	5	0.0	slightly moist	OL		SILT, 70% organic silt, 30% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Z23AR-17.0-1

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Test Pit ID: 133-P3C-Z25A

Page: 1

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

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611243.294Date Started Drilling:11/14/2014 10:15:00 AMRig Type:Coordinates (NJSPNAD83) y:682640.507

Date Finished Drilling: 11/14/2014 11:10:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

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

							` · ·	s = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1 C	ONCRET		CONCRETE	
-1 - -2	5	0.0	moist to wet	3	FILL		ASH, little wood fragments, trace coal, trace glass fragments, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-Z25A-0.5-1.0
-3— -4— -								133-P3C-Z25A-4.0-4.5
-5		0.0	dry	3	FILL		ASH, little fine to medium sand, fine to medium gravel, (10YR 4/2) dark grayish brown, loose, dry, no odor, no	
-6— -7—	5	0.0	wet	4C	FILL		staining. fine to medium silty SAND, little ash, little fine to medium gravel, trace debris, (10YR 3/6) dark yellowish brown, loose, wet, no odor, green staining.	133-P3C-Z25A-6.0-6.5
-8 -9								133-P3C-Z25A-8.0-8.6
-10 - -11 -		0.0	saturated	4C	FILL		ASH, little debris, little fine to medium sand, trace wood fragments, (10YR 5/2) grayish brown, loose, saturated, no odor, green staining.	133-P3C-Z25A-10.0-10
-12 -13 - -14	5	0.0	wet	3	FILL		fine to medium silty SAND, little ash, little fine gravel, trace debris, loose, wet, no odor, no staining.	133-P3C-Z25A-12.0-12
-15		0.0	moist	3	FILL		fine to medium silty SAND, little ash, (7.5YR 2.5/1)	133-P3C-Z25A-15.0-15
_ -16 	-	0.0	to	7	PT	<u> </u>	black, loose, moist to wet, no odor, no staining.	133-P3C-Z25A-15.5-16
-18 -19 -20	5	0.0	wet slightly moist slightly moist	9	OL		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM. UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, low plasticity, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

Boring ID: 133-P3C-Z26A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 611229.84 Date Started Drilling: 3/12/2014 10:55:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682613.482

Date Finished Drilling: 3/12/2014 11:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: ES Project Manager: Chris Martell Physical Location: P3C - Z26A

Depth							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	D P 0 0	CONCRETE	
-1 -2	4	0.0	slightly moist	FILL		fine to medium SAND, some ash, cinders, coal, trace wood fragments, (10YR 5/8) yellowish brown, loose to hard, slightly moist, no odor, no staining.	133-P3C-Z26A-1.0-1.5
-3-	4						133-P3C-Z26A-3.0-3.5
-4-				NR		NO RECOVERY	
-5 		0.0	moist	FILL		ASH, some cinders, coal, fine to medium sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, moist, no odor,	133-P3C-Z26A-5.0-5.5
-6— -7—						no staining.	
-8-	5						133-P3C-Z26A-7.0-7.5
-9							133-P3C-Z26A-9.0-9.5
-10 - -11		0.0	moist	FILL		ASH, some cinders, coal, little fine to medium sand, fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-Z26A-11.0-11
_ -12	5						
-13							133-P3C-Z26A-13.0-13
14		0.0	moist	FILL		fine silty SAND, trace ash, (5YR 5/2) reddish gray, dense, moist, no odor, no staining.	
15		0.0	moist	FILL		fine silty SAND, trace ash, (5YR 5/2) reddish gray, dense,	133-P3C-Z26A-15.0-15
16		0.0	slightly moist	PT	7 77 7	moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist,	133-P3C-Z26A-15.5-16
-17	4	0.0	moist	OL		strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, low plasticity, stiff, moist, strong organic odor, no staining. Soils consistent with UNDorg.	
-18 - -19							
20				NR		NO RECOVERY	

A=COM

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Boring ID: 133-P3C-Z27A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611216.012

 Date Started Drilling:
 3/12/2014 8:45:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682593.955

 Date Finished Drilling:
 3/12/2014 9:35:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

 Physical Location:
 P3C - Z27A

Depth							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE	P P P P	CONCRETE	
-1— - -2—	3.5	0.0	dry	FILL		ASH, little cinders, coal, trace wood fragments, (10YR 5/6) yellowish brown, loose, dry, slight hydrocarbon odor, no staining.	133-P3C-Z27A-1.0-1.5
-3-							133-P3C-Z27A-3.0-3.5
-4-				NR		NO RECOVERY	
-5		0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no	133-P3C-Z27A-5.0-5.
-6— - -7—						staining.	122 D2C 707A 7 0 7 1
-8	5						133-P3C-Z27A-7.0-7.
-9 - -10		0.0		F		AQUI assess starters and little C	133-P3C-Z27A-9.0-9.
11—		0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	133-P3C-Z27A-11.0-11
- 12	5						100-1 00-22174-11.0-11
13— — 14—							133-P3C-Z27A-13.0-13
\dashv		0.0	moist	FILL		SILT, little ash, trace cinders, fine sand, (7.5YR 4/1) dark	133-P3C-Z27A-14.5-15
15		0.0	to wet moist	PT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	gray, low plasticity, soft, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/3) very dark brown, stiff, moist,	133-P3C-Z27A-15.0-15
-16 - - -17	3	0.0	moist	OL		strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with	
18				NR		UNDorg. NO RECOVERY	
19							
20							



Road, Piscataway, NJ 08854

Boring ID: 133-P3C-Z28A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611202.8125 Date Started Drilling: 6/21/2013 10:56:00 AM Coordinates (NJSPNAD83) y: 682560 Rig Type:

Date Finished Drilling: 6/21/2013 1:20:00 PM Core Size: 3 in Boring Total Depth: 16 ft

Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - Z28A (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 **ASPHALT ASPHALT** dry fine to medium silty SAND, some gravel, little ash, little 0.0 FILL 1.7 wood, (10YR 3/4) dark yellowish brown, non plastic, 133-P3C-Z28A-1.0-1.5 loose, dry, no odor, no staining. NO RECOVERY NR 0.0 dry FILL ASH, with cinders, coal, wood fragments, little ceramics, (10YR 6/2) light brownish gray, non plastic, loose, dry, no 1.6 odor, no staining. 133-P3C-Z28A-3.0-3.5 0.0 slightly **FILL** fine to medium silty SAND, some ash, cinders, trace moist coarse gravel, (10YR 5/6) yellowish brown, non plastic, NR loose to soft, slightly moist, no odor, no staining. 0.0 slightly **FILL** NO RECOVERY moist fine silty SAND, little brick, ceramics, trace fill material, 1.5 133-P3C-Z28A-5.0-5.5 fine gravel, (10YR 5/3) brown, non plastic, loose to soft, 0.0 moist **FILL** slightly moist, slight petroleum odor sheen. NR to ASH, some cinders, coal, little wood fragments, (10YR 0.0 wet **FILL** 6/2) light brownish gray, non plastic, loose, moist to wet. moist NO RECOVERY 2 to ASH, some cinders, coal, little wood fragments, (7.5YR 133-P3C-Z28A-7.0-7.5 wet 3/1) very dark gray (10YR 6/2) light brownish gray, non 133-P3C-Z28A-7.0-7.5X plastic, loose, moist to wet, slight petroleum odor, sheen. 0.0 moist FILL ASH, some cinders, coal, little wood fragments, (7.5YR 3/1) very dark gray (10YR 6/2) light brownish gray, non to 1.4 plastic, loose, moist to wet, no odor. wet 133-P3C-Z28A-8.9-9.4 FILL some cinders, (10YR 3/1) very dark gray, non plastic, wet loose, wet, sheen. 0.0 wet **FILL** ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet, sheen. 133-P3C-Z28A-10.6-11.1 1.1 NO RECOVERY NR ASH, some cinders, (10YR 4/2) dark grayish brown, non 0.0 **FILL** moist plastic, loose, moist, no odor, no staining. 133-P3C-Z28A-12.6-13.1 13 -13 NO RECOVERY NR 0.0 **FILL** fine silty SAND, little brick, trace roots, (10YR 4/6) dark moist 133-P3C-Z28A-14.1-14.6 yellowish brown, non plastic, loose to soft, moist, no 133-P3C-Z28A-14.6-15.1 0.0 moist OL 17 odor, no staining. UNDorg, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, soft to stiff, NR -16 moist, moderate organic odor, no staining. Soils consistent with UNDorg NO RECOVERY

PPG LOGS.GDT - 7/16/13 17:17



Boring ID: 133-P3C-Z29A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611189.3125

 Date Started Drilling:
 5/22/2013 1:30:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682533.25

 Date Finished Drilling:
 5/22/2013 2:30:00 PM
 Core Size: 3 in
 Boring Total Depth:
 18 ft

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

	iby. Ab	C:t-	400 700	24	•	Toject Manager. Chins Marten	Deptil to water. NA	
Physica	al Location	n: Site	9 133 - ZZS	9A			(Not	e bgs = below ground surface)
							(100)	c bys – below ground surface/
Depth Range (ft bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickr	ness:	Sample ID
	2	5.2	dry	ASPHALT		ASPHALT, weathered and sub-base, (1 non plastic, loose, dry.	0YR 2/1) black,	
_		2.0	moist	FILL		fine silty SAND, some brick, little aspha (10YR 3/2) very dark grayish brown, no		
-	,	0.0	moist	FILL		dense, moist. fine to medium silty SAND, some cinde	ro little brick little	
3 	2	0.0	moist	FILL		gravel, (10YR 3/3) dark brown, non plas dense, moist. CINDERS, some ash, little concrete, litt sand, (10YR 3/2) very dark grayish brow	etic, medium	
4 5	1.7	337	wet	FILL		medium dense, moist. CINDERS, some ash, some fine sand, coal, (10YR 2/1) black, non plastic, loos petroleum odor, sheen.	little glass, little	
ا ۾ ا				NR		NO RECOVERY		
—6— — —	1.2	15.4	wet	FILL		CINDERS, some ash, little glass fragme black, non plastic, loose, wet, slight pet	ents, (10YR 2/1) roleum odor.	133-P3C-Z29A-6.5-7.0
		0.0	wet	FILL NR	XXXXX	fine silty SAND, some cinders, (10YR 3 grayish brown, non plastic, loose, wet.	/2) very dark	133-P3C-Z29A-6.5-7.0X
8 	1	2.4	wet	FILL		NO RECOVERY CINDERS, some ash, some gravel, little 2/1) black, non plastic, loose, wet.	e glass, (10YR	133-P3C-Z29A-8.5-9.0
—9— – –	'			NR	XXXXX	NO RECOVERY		
—10— – –	1.2	2.1	wet	FILL		CINDERS, some ash, little gravel, trace metal, (10YR 4/1) dark gray, non plastic		133-P3C-Z29A-10.5-11.0
				NR		NO RECOVERY		
—12— —13—	1.3	0.0	wet	FILL		CINDERS, some ash, little glass fragme (10YR 3/1) very dark gray, non plastic,		133-P3C-Z29A-12.5-13.0
 14				NR		NO RECOVERY		
_	2	0.0	wet	FILL		CINDERS, some ash, little gravel, (10Y plastic, loose, wet.	,	133-P3C-Z29A-14.5-15.0
		0.0	moist	FILL		fine silty SAND, little gravel, little roots, reddish gray, low plasticity, loose, mois		133-P3C-Z29A-15.5-16.0
—16— — — —17—	1.5	0.0	moist	PT		PEAT (degraded vegetated material), 8 20% organic silt, (10YR 4/3) brown, nor moist, slight sulfur odor. Soils consister	n plastic, loose,	133-P3C-Z29A-16.0-16.5
\sqcap				NR		NO RECOVERY		
 18								

Boring ID: 133-P3C-Z30A-ME

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611175.505 Drilling Method: Geoprobe Date Started Drilling: 6/11/2015 11:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682506.964 Date Finished Drilling: 6/11/2017 Core Size: 3 in Boring Total Depth: 10 ft Depth to Water: 6.0 Logged By: ES Project Manager: Scott Mikaelian Physical Location: P3C-Z30A Surface Elevation: 11.541 ft NAVD88 Depth Recovery PID Moisture Graphic Sample Surface Cover and Thickness: **USCS** Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **FILL** ASPHALT, (10YR 2/1) black, dry, no odor, no staining. dry 133-P3C-Z30A-ME-1.0-1.5 44.0 dry **FILL** fine to medium SAND, some to little debris (glass, wood fragments), little coal fragments, trace ash, (10YR 4/2) dark

grayish brown, medium dense, dry, slight chemical odor, no staining. 133-P3C-Z30A-ME-3.0-3.5 80.0 dry FILL Incinerator Ash, little glass, metal and coal fragments, (10YR 4/1) dark gray, loose, dry to moist, no staining, slight fuel oil to moist and chemical odor. NR NO RECOVERY 133-P3C-Z30A-ME-5.0-5.5 500.0 moist **FILL** Incinerator Ash, little shell fragments, glass, metal and wood (10YR 2/1) black stained, loose, moist to wet, sheen, strong to fuel oil odor, water table at 6.0 ft bgs. wet 133-P3C-Z30A-ME-7.0-7.5 2.5 NR NO RECOVERY

2012-09 RA PPG LOGS A.GDT - 3/7/17 12:03

bgs - below surface grade bgs - below surface grade GGM - green grey mud

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

MGP - manufactured gas plant CCPW - chromate chemical production waste

ENSR	AECOM	Client: PPG Industries		BORII	
EINSK	AECOM	Site: Site 135		135	5-B1
Start Da	ate:	Project: Site Investigation		Page: 1 of 3	
12/14/2	006	Coordinates: X-611339.5 Y-682651	.8	Depth of Bori	ng: 32.00
End Dat	te:	Elevation: 11.62		Geologist: P	. Kelly, M. Merdinger
1/4/2007		Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Sample
0_					
	× × FIL	L: Coarse GRAVEL.			
_		L: Dark Brown medium SAND, some Silt and fine avel, little brick fragments and glass.	0.0 ppm	135-B1A (0.5-1.0)	Cr+6, TAL Metals
2—	× × × × × ×				
_		L: Gray and Red-orange ASH and SILT, some fine coarse Gravel, little brick, glass and coal fragments.	0.0 ppm	135-B1B (2.5-3.0)	Cr+6, TAL Metals
		L: Gray to Red-orange fine GRAVEL, coarse ND, little fine gravel-sized Slag.	0.0 ppm	135-B1C (3.3-3.8)	Cr+6, TAL Metals
4	××× SAI	L: Pale Olive (5Y 6/3) SILT and fine to coarse ND, little Clay, angular concrete fragments, 10% PR, lime green staining, wet, loose. No odor. aste Mud)	0.1 ppm 0.1 ppm	135-B1D (4.5-5.0)	MS/MSD, Cr+6, TAL Metals
6—	× × × coa	L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough acrete-like pieces, 10% COPR, trace lime green ining, moist, chalky texture. No odor. (Waste Mud)	0.1 ppm		
	× × NR	: No Recovery	0.1 ppm		
8—	× × coa	L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough	0.9 ppm	135-B1E	Cr+6, TAL Metals
-		ncrete-like pieces, 10% COPR, trace lime green ining, moist, loose, chalky texture. No odor. (Waste d)	0.0 ppm	(8.5-9.5)	
10 —	× ^ × ^ × × × × × ×		0.0 ppm		

ENSR AECOM	Client: PPG Industries		BORIN	
ENSK AECON	Site: Site 135	135-B1		
Start Date:	Project: Site Investigation		Page: 2 of 3	
12/14/2006	Coordinates: X-611339.5 Y-682651	.8	Depth of Bori	ng: 32.00
End Date:	Elevation: 11.62			. Kelly, M. Merdinger
1/4/2007	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Depth (ft) Lithology	Description	PID (PPm)	Sample ID	Sample Sample
- × × × ×		0.0 ppm		
12 - NI	R: No Recovery			
× × FI	LL: Black-stained organic SILT, moist, medium ense. No odor.	0.3 ppm		
	EAT: PEAT (Meadow Mat), Organics, moist, medium ff. Sulfur odor.	22.9 ppm	135-B1F (12.8-13.3)	Cr+6, TAL Metals
14 —		21.9 ppm		
- NI	R: No Recovery			
	EAT: Very Dark Gray (5YR 3/1) organic CLAY, trace ganics, moist, medium stiff. Sulfur odor.	30.6 ppm		
		11.8 ppm	135-B1G (17.0-17.5)	Cr+6, TAL Metals
18 + 44 44		10.8 ppm		
	EAT: PEAT, organic-rich, moist, soft. Sulfur odor.			
- NI	R: No Recovery			
20 - PE	EAT: PEAT, organic-rich, moist, soft. Sulfur odor.	61.4 ppm		
	LT: Gray (5Y 5/1) SILT, some Clay, moist, medium ense. Sulfur odor.	27.6 ppm	135-B1H (20.6-21.1)	Cr+6, TAL Metals
	LT: Gray (5Y 5/1) SILT, trace fine Sand, moist,			

ENICD A ECO	Client: PPG Industries			NG ID:
ENSR AECO	Site: Site 135	13	5-B1	
Start Date:	Project: Site Investigation		Page: 3 of 3	
12/14/2006	Coordinates: X-611339.5 Y-68269	51.8	Depth of Bori	ng: 32.00
End Date:	Elevation: 11.62		Geologist: F	P. Kelly, M. Merdinger
1/4/2007	Drill Subcontractor: Eichelberger/Terra P	robe Incorporated	Driller: Heatl	n Kneller
Depth (tt) Lithology	Description	PID (PPM)	Sample ID	Sample Parameters
	medium dense. Sulfur odor.	28.8 ppm		
-	SILT: Dark Grayish Brown (2.5Y 4/2) SILT, moist, medium dense. Sulfur odor.	10.2 ppm		
24 -	NR: No Recovery SAND: Dark Reddish Gray (5YR 4/2) fine to coarse	10.8 ppm		
	SAND, little Silt, wet, loose. No odor.	0.0 ppm		
26 —		0.0 ppm		
	NR: No Recovery	0.0 ppm		
28 —	SAND: Weak Red (2.5YR 4/2) fine to coarse SAND, trace silt, wet, loose. No odor.	0.0 ppm		
		0.0 ppm		
30 +		0.0 ppm		
-	NR: No Recovery			
32	NULL: End of Boring at 32 ft.			

ENSR	AECOM	Client: PPG Industries			NG ID:
LIVOIN	ALCOM	Site: Site 135		138	5-B2
Start Da	ite:	Project: Site Investigation		Page: 1 of 3	
12/14/20	006	Coordinates: X-611196.6 Y- 6825	14.8	Depth of Bori	ng: 32.00
End Dat		Elevation: 11.35			. Kelly, M. Merdinger
1/3/2007		Drill Subcontractor: Eichelberger/Terra P		d Driller: Heath	n Kneller
Depth (tt)	Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
0	V V				
	× × FIL	L: Topsoil.			
	× × FIL	L: Wood planks and coarse Gravel.			
-	×××	· · · · · · · · · · · · · · · · · · ·	0.0 ppm	135-B2A (0.9-1.4)	Cr+6, TAL Metals
		L: Dark Brown corase SAND, some fine Gravel, e glass peices.		(6.6.1.1)	
2—	× ×	- 3.2 p			
2	X X EII	L: Gray coarse SAND, ASH, some fine Gravel, little	0.0 ppm	135-B2B	Cr+6, TAL Metals
		iss pieces, trace roots		(2.1-2.6)	
_	×××				
	XX			405 D00(0 4 0 0)	One O. TAL Martala
		L: Black stained, Brown fine to coarse GRAVEL,	16.4 ppm	135-B2C(3.4-3.8)	Cr+6, TAL Metals
4+	× × sor	me Ash, organics, wet. Strong coal tar odor.	_/ 7.6 ppm		
	× x FIL	L: Very dark Gray (7.5YR 3/1) medium to coarse			
	× × SA	ND, little Silt, wet. Slight naptha odor.	20.1 ppm	135-B2D (4.5-5.0)	Cr+6, TAL Metals
1	× × FII	L: Brown (7.5YR 4/2) SILT, some large wood	3.7 ppm		
		ces, wet, loose. No odor.			
6—	X X	L: Gray (7.5YR 5/1) ASH, some Fill materials			
		eramics, tile, coal, glass), trace Silt and Clay, wet,	0.5 ppm		
		se. No odor.			
-	NR	R: No Recovery			
8+	××		0.0 ppm		
		L: Gray (7.5YR 5/1) ASH, some heavily broken ked Fill materials (metal, wood pieces, shell	0.5 pp		
		gments), trace Silt and Clay, wet, loose. No odor.		135-B2E (8.5-9.0)	Cr+6, TAL Metals
1	×××		0.1 ppm	<u> </u>	
	× ×				
40	×××				
10 +	NR	R: No Recovery	0.0 ppm		

ENSR AECO	Client: PPG Industries			NG ID:
ENSK AECC	Site: Site 135	135-B2		
Start Date:	Project: Site Investigation		Page: 2 of 3	
12/14/2006	Coordinates: X-611196.6 Y- 682514	l.8	Depth of Bori	ing: 32.00
End Date:	Elevation: 11.35		Geologist: F	P. Kelly, M. Merdinger
1/3/2007	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heat	h Kneller
Depth (tt) Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
12 —	FILL: Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (some coal tar, glass), trace Silt and Clay, wet, loose. No odor. FILL: Black stained CLAY, coal tar, wet, soft. No odor. FILL: Pale Brown (10YR 6/3) and light Gray (10YR 7/1) mottled CLAY, some gray-mint greenish staining, moist, soft, slightly chaulky. No odor. NR: No Recovery	0.0 ppm	135-B2F (12.5-13.0) 135-B2G (13.7-14.2)	Cr+6, TAL Metals Cr+6, TAL Metals
16 — — — — — — — — — — — — — — — — — — —	PEAT: PEAT, very organic, water has a slight sheen, wet, soft. Very pungent sulfur odor.	10.0 ppm 72.6 ppm 89.6 ppm	135-B2H (16.0-16.5)	Cr+6, TAL Metals
20 —	NR: No Recovery CLAY: Dark Gray (5Y 4/1) organic CLAY, trace organics, moist, soft. Sulfur odor.	228.0 ppm 38.4 ppm	135-B2I (20.0-20.5)	Cr+6, TAL Metals

ENSR	AECOM	Client: PPG Industries		BORIN	
LINSK ALCOW		Site: Site 135	135	5-B2	
Start Date	e:	Project: Site Investigation		Page: 3 of 3	
12/14/200)6	Coordinates: X-611196.6 Y- 68251	4.8	Depth of Bori	ng: 32.00
End Date:	:	Elevation: 11.35			. Kelly, M. Merdinger
1/3/2007		Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	Kneller
Depth (ft)	ithology	Description	PID (PPM)	Sample ID	Sample Sample
22 +			120.0	135-B2J	Cr+6, TAL Metals
		_T: Dark Gray (5Y 4/1) SILT, some very fine Sand, oist, medium dense. Sulfur odor.	ppm	(22.2-22.7)	
			58.2 ppm		
24 —	NR	R: No Recovery			
	‡∄‡∄\me	ND AND SILT: Dark Gray (5Y 4/1) SILT and edium to coarse SAND, trace Clay, moist, loose. ght sulfur odor.	34.8 ppm		
- - - -		_TY SAND: Dark Gray (5Y 4/1) very fine silty SAND, tt, loose. Slight sulfur odor.	32.7 ppm		
26+		AY AND SAND: Dark Gray (5Y 4/1) medium sandy AY, moist, medium stiff. No odor.	11.9 ppm		
-		ND: Reddish Brown (5YR 4/3) very fine to coarse ND, trace rounded fine gravel, wet, loose. No odor.	0.6 ppm		
	NR	R: No Recovery			
28 +		T AND CLAY: Reddish Brown (5YR 4/3) silty AY, little fine to medium Sand, wet, loose. No odor.	0.0 ppm		
	+ : . + : :		0.0 ppm		
30 +		ND: Grayish Brown (10YR 5/2) fine to medium ND, little interbedded Clay, wet, loose. No odor.	0.0 ppm		
		TY SAND: Weak Red (10R 5/4) very fine SAND (ty), wet, medium dense. No odor.			
₃₂ \ [NR	R: No Recovery			
	NII	JLL: End of Boring at 32 ft.	/		

ENSR AECOM	Client: PPG Industries			NG ID:
ENSR AECOM	Site: Site 135	135-B3		
Start Date:	Project: Site Investigation		Page: 1 of 3	
1/26/2007	Coordinates: X-610977.8 Y-682312	2.2	Depth of Bor	ing: 28.00
End Date:	Elevation: 9.3		Geologist: F	
1/26/2007	Drill Subcontractor: Terra Probe Incorpora		Driller: Heat	h Kneller
Depth (ft) Lithology	Description	PID (PPM)	Sample ID	h Kneller Sample Parameters
0	L: Very Dark Gray (5Y 3/1) coarse SAND, some e gravel-sized COPR (15%), trace silty Clay and ck fragments, dry.	0.0 ppm 0.0 ppm 0.0 ppm	135-B3A (1.1-1.6)	Cr+6, TAL Metals
X X Gra	L: Black (10YR 2/1) ASH, some fine to medium avel, little ceramic fragments, wet. Sheen and ong MGP odor.	91.3 ppm 45.1 ppm	135-B3B (3.4-4.0)	Cr+6, TAL Metals
8 ×× FIL	L: Black (10YR 2/1) ASH, some fine to medium avel, little ceramic fragments, wet. Sheen and ong MGP odor.	72.1 ppm		

ENSR AECOM	Client: PPG Industries			NG ID:
LINSK ALCOM	Site: Site 135		13	5-B3
Start Date:	Project: Site Investigation		Page: 2 of 3	
1/26/2007	Coordinates: X-610977.8 Y-682312	.2	Depth of Bori	ng: 28.00
End Date:	Elevation: 9.3		Geologist: F	P. Kelly
1/26/2007	Drill Subcontractor: Terra Probe Incorporat		Driller: Heatl	n Kneller
Depth (tt) Lithology	Description	PID (bbw)	Sample ID	Sample Parameters
	L: Very Dark Grayish Brown (10 YR 3/2) SILT and AY, some Black organic matter, trace fine to coarse			
NR:	No Recovery		135-B3C (10.5-10.8)	Cr+6, TAL Metals
12 —		NA		
14 —		0.0	135-B3D	Cr+6, TAL Metals
CLA	AY: Dark Gray (5G 4/1) CLAY, little organic matter, , moist.	0.0 ppm	(16.0-16.1)	Cr+6, TAL Metals
18 —		0.0 ppm		
		0.0 ppm		

ENCD AECOM	Client: PPG Industries			NG ID:
ENSR AECOM	Site: Site 135		13	5-B3
Start Date:	Project: Site Investigation		Page: 3 of 3	
1/26/2007	Coordinates: X-610977.8 Y-682312	2.2	Depth of Bor	ing: 28.00
End Date:	Elevation: 9.3		Geologist: F	
1/26/2007	Drill Subcontractor: Terra Probe Incorpora		Driller: Heat	h Kneller
Depth (ft) Lithology	Description	PID (PPM)	Sample ID	h Kneller Samp ^{le} Parameters
	AY AND SAND: Dark Gray fine SAND and CLAY, se organic matter, moist	0.0 ppm 0.0 ppm 0.0 ppm	135-B3E (21.6-23.0)	Cr+6, TAL Metals
	: No Recovery			
	AY AND SAND: Dark Gray fine SAND and CLAY, see organic matter, moist	0.0 ppm		
	ND: Weak Red (2.5YR 5/2) coarse SAND, some		135-B3F	Cr+6, TAL Metals
fine	Gravel, moist.		(26.3-26.7)	
	: No Recovery			
NUL NUL	LL: End of Boring at 28 ft.			•



Boring ID: 135-P3C-AA28A

	Name: F					Orilling Company: SGS North America		
	Number:					Orilling Method: Geoprobe	,	NAD83) x: 611228.5625
				:10:00 AM		Rig Type:	Coordinates (NJSPN	
		lling:	5/22/2013	10:15:00 AN		Core Size: 3 in	Boring Total Depth:	
	By: MI				F	Project Manager: Chris Martell	Depth to Water: NA	4
hysic	al Location	1: Site	e 135 - AA2	28A			(No	te bgs = below ground surface)
							(NO	te bys - below ground surface/
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickr	ness:	Sample ID
		0.0		ASPHALT		ASPHALT		
-1	2	0.0	slightly moist	FILL		fine to medium silty SAND, with fine to some coal, cinders, little ash, (10YR 3/6 brown, non plastic, loose to soft, slightly no staining.	6) dark yellowish	
-2 - -3	2	0.0	slightly moist	FILL		fine to medium silty SAND, with fine to some coal, cinders, little ash, (7.5YR 3/ non plastic, loose to soft, slightly moist,	/4) dark brown,	
-3 -1	_	0.0	slightly moist	FILL		staining. ASH, with fine to medium sand, some of	coal, cinders,	
-4 -5	1.1	45.1	moist	FILL		wood fragments, (7.5YR 4/1) dark gray loose, slightly moist, no odor, no stainir ASH, with and oil-like material, some co	ng. Dal, cinders, wood	135-P3C-AA28A-4.5-5
-5 - -6				NR		fragments, (7.5YR 4/1) dark gray, non p moist, strong napthalene odor, sheen. NO RECOVERY		
-7—	1.6	56.7	moist	FILL		ASH, with and oil-like material, some or fragments, little ceramics, (7.5YR 4/1) of plastic, loose, moist, no odor, no staining	dark gray, non	135-P3C-AA28A-6.5-7 135-P3C-AA28A-6.5-7.
-8				NR		NO RECOVERY		
-9 	1.7	0.0	slightly moist	FILL		ASH, with fine to medium sand, some of wood fragments, little ceramics, (7.5YR non plastic, loose, slightly moist, no odd	R 4/1) dark gray,	135-P3C-AA28A-8.5-9
10		0.0	slightly moist	NR FILL		NO RECOVERY ASH, with fine to medium sand, some of the state of the st		405 800 44004 40 5
-11 	1		moist	NR		wood fragments, little ceramics, (7.5YR non plastic, loose, slightly moist, no ode NO RECOVERY		135-P3C-AA28A-10.5-1
12 - 13	2	0.0	slightly moist	FILL		ASH, with fine to medium sand, some of wood fragments, little ceramics, (7.5YR non plastic, loose, slightly moist, no ode	(4/1) dark gray,	135-P3C-AA28A-12.5-1
-14 		7.2	dry	FILL		SILT, with clay, trace tar-like material, (dark brown, low plasticity, stiff to mediu odor sheen.	7.5YR 2.5/3) very	-
15	2	9.3	dry	FILL		SILT, with clay, trace tar-like material, (dark brown, low plasticity, stiff to mediu odor, sheen.		135-P3C-AA28A-14.5-1
16		0.0	moist	FILL	$\bigotimes_{i,j}$	SILT, some fine sand, little roots, (10YF) brown, low plasticity, soft, moist, no odd	R 5/6) yellowish	135-P3C-AA28A-15.3-1
-16 — —		2.3	dry dry	PT PT	1, 11, 1	PEAT (degraded vegetated material), 8 20% organic silt, (7.5YR 3/2) dark brow	0% organic fibers,	133-F3U-AAZ8A-13.8-1
-17 -	1.2			NR		soft, dry, strong organic odor, no stainir consistent with MM. PEAT (degraded vegetated material), 8	ng. Soils	
-18 -						20% organic silt, (7.5YR 3/2) dark brow soft, dry, strong organic odor, no stainir consistent with MM.	n, non plastic,	
						NO RECOVERY		

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA29A

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

Rig Type:

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 611216.052 Coordinates (NJSPNAD83) y: 682519.709

Page: 1

Date Started Drilling: 4/23/2014 7:50:00 AM Date Finished Drilling: 4/23/2014 9:10:00 AM Core Size: 2.0 in Project Manager: Chris Martell Logged By: SS

Boring Total Depth: 20 ft Depth to Water: NA

Physical Location: Narula Property

Depth	D	D10					0 1	
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
		0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, little wood fragments, little ash, (5YR 2.5/1) black, loose, dry, no odor, no staining.		
-1 -2		0.0	dry	FILL		CINDERS, some ash, little fine to medium gravel, little coal, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	135-P3C-AA29A-1.0-1.	
_	5	0.0	dry	FILL		CINDERS, with fine to medium sand, some ash, little wood		
-3 - -4			-			fragments, little medium to coarse gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	135-P3C-AA29A-3.0-3.	
-5-		4.3	moist	FILL		fine to medium silty SAND, with cinders, some fine to	135-P3C-AA29A-5.0-5.	
-6 		•	moist	I ILL		medium gravel, some ash, trace ceramics, (7.5YR 3/1) very dark gray, loose, moist, slight hydrocarbon odor, hydrocarbon staining.		
-7— -8—	5	49.9	wet	FILL		CINDERS, some fine to medium sand, little fine to medium gravel, trace coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, moderate hydrocarbon odor, sheen.	135-P3C-AA29A-7.0-7.	
-9 -10							135-P3C-AA29A-9.0-9.	
		0.0 moist	moist	FILL		CINDERS, with fine to medium sand, some wood fragments, little coal, little fine to medium gravel, (7.5YR 2.5/1) black,		
-11 								low plasticity, loose, moist, slight hydrocarbon odor, hydrocarbon staining.
-12	5							
-13 - -14							135-P3C-AA29A-13.0-13	
		0.0					405 DOC AAOOA 45 0 44	
-		0.0	moist dry	FILL		CINDERS, some fine to medium sand, little coal, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose, moist, no	135-P3C-AA29A-15.0-1	
-16 			to moist			\odor, hydrocarbon staining. / fine silty SAND, trace brick, (7.5YR 6/3) light brown, loose,	135-P3C-AA29A-16.0-16	
-17 	5	0.0	dry	PT	71/ 71/ 71/ 71/ 7	dry to moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, no odor, no	135-P3C-AA29A-16.5-17	
-18					\(\lambda \) \(staining. Soils consistent with MM.		
-19					<u> </u>			
20					1/2 1/2 1/2			
Common	nte: 1) 3 atte	mnts w	ere made to	ohtain hest re	200/07/2) [JND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter-	val of this boring	



Boring ID: 135-P3C-BB26A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611279.375 Drilling Method: Geoprobe Date Started Drilling: 5/23/2013 9:10:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682591.625 Date Finished Drilling: 5/23/2013 10:40:00 AM Boring Total Depth: 18 ft Core Size: 3 in

		lling: _	5/23/2013	10:40	:00 AM		Size: 3 in	Boring Total Depth: 1	3 ft
	IBy: AB					Proje	ct Manager: Chris Martell	Depth to Water: NA	
Physica	al Location	: Site	135 - BB2	26A				(Nata ha	balan
								(Note bg	s = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th	ickness:	Sample ID
		0.0	dry	2	ASPHALT		ASPHALT, weathered and sub-bas	e, (10YR 2/1) black,	
- 1 	2	0.0	slightly moist	3	FILL		non plastic, dense, dry. fine to medium silty SAND, some g trace brick, trace glass, trace coal, grayish brown, non plastic, medium	(10YR 4/2) dark	
- 2 		0.0	slightly	3	FILL		moist. fine to medium silty SAND, some g	royal little sinders	
-3	1.8	0.0	moist slightly moist	3	FILL		trace brick, (10YR 4/2) dark grayish dense, slightly moist. ASH, some cinders, little gravel, tragray, non plastic, loose, slightly mo	ce brick, (10YR 5/1)	
-4 - -5	1.7	4.6	wet	NR 3	NR FILL		NO RECOVERY ASH, some cinders, little gravel, tra brick, (10YR 5/2) grayish brown, no	ce ceramics, trace	135-P3C-BB26A-5.0-
_		0.0	wet	3	FILL	$\times\!\!\times\!\!\times\!\!\times$	SILT, some cinders, little gravel, litt	le rubber, (10YR 2/1)	
-6		0.0	wet	NR 3	NR FILL		\black, non plastic, loose, wet. NO RECOVERY	/_	
-7 -	2	0.0	wet	3	FILL		SILT, some organics, little cinders, non plastic, loose, wet. ASH, some cinders, little gravel, (10 non plastic, loose, wet.		135-P3C-BB26A-7.0-
-8		0.0	wet	3	FILL		ASH, some cinders, little coal, trace		
-9	1.7						4/1) dark gray, non plastic, loose, w	et.	135-P3C-BB26A-9.0-
-10		0.0	wet	NR	NR		NO RECOVERY	wood frogments	
_ _11	1.7	0.0	wet	3	FILL		ASH, some cinders, little coal, little (10YR 4/1) dark gray, non plastic, lo		135-P3C-BB26A-11.0-
-12				NR	NR	XXXXX	NO RECOVERY		
		0.0	wet	3	FILL		ASH, some cinders, little gravel, tra	ce wood, (10YR 4/1)	
-13	1.2	0.0	moist	3	FILL		 dark gray, non plastic, loose, wet. SILT, some roots, little cinders, little 	e ash. (10YR 3/2)	135-P3C-BB26A-12.7-
_ -14		0.0		NR	NR		very dark grayish brown, non plastic NO RECOVERY	c, loose, moist.	
_ -15 	2	0.0	moist	3	FILL		fine silty SAND, little roots, little clay shells, (10YR 5/2) grayish brown, lo moist.		135-P3C-BB26A-14.6-
_		2.1	moist	7	PT	<u> </u>	PEAT (degraded vegetated materia fibers, 20% organic silt, (10YR 4/3)	brown, low plasticity,	135-P3C-BB26A-15.1-
-16 		2.3	moist	7	PT	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	soft, moist, slight sulfur odor. Soils PEAT (degraded vegetated materia		
-17 	2	1.8	moist	9	ОН		fibers, 25% organic silt/clay, (10YR brown, medium plasticity, soft, mois	4/2) dark grayish	
-18 		2.2	moist	7	PT	<u> </u>	silty CLAY, some (30%) roots, (10Y		
							high plasticity, soft, moist, slight sulconsistent with UNDorg. PEAT (degraded vegetated materia fibers, 20% organic silt, (10YR 4/2) medium plasticity, soft, moist, sligh consistent with MM.	l), 80% organic dark grayish brown,	
ommen	its: 1) 3 atter	npts wer	e made to o	btain b	est recovery	2) MM/UN	ID confirmed to be 1 ft thick 3) No CCPW (CO	PR or GGM) present in any int	erval of this boring.



Boring ID: 135-P3C-CC22A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611364.1875 Drilling Method: Geoprobe Date Started Drilling: 5/23/2013 1:00:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682680.25 Date Finished Drilling: 5/23/2013 2:20:00 PM Core Size: 3 in **Boring Total Depth:** 16 ft Logged By: EW Depth to Water: NA Project Manager: Chris Martell

	y: EW		125 00	224	!•	roject Manager:	Ciliis Martell	Depth to Wat	GI: 14/1
iysicai L	_ocatior	1: Site	e 135 - CC	22A					(Note bgs = below ground surface)
epth inge bgs)	covery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cover and	d Thickness:	Sample ID
	_	0.0	dry	ASPHALT		ASPHALT, we non plastic, de		-base, (10YR 2/1) blac	k,
1—	2	0.0	slightly moist	FILL		fine to mediur	n silty SAND, som .5YR 3/2) dark bro	ne gravel, little concrete own, non plastic, medic	e, um
2		0.0	slightly	FILL		fine to mediur	n silty SAND, som	e gravel, litte coal, trad	
3—	2	0.0	moist dry	FILL		\slightly moist.	, ,	rown, non plastic, loose	/
4——		0.0	moist	FILL		\plastic. loose.	drv.	1) yellowish brown, nor 10YR 4/1) dark gray, n	/
5	1.8	0.0	wet	FILL		\plastic, loose, ASH, some c	moist.	ttle gravel, (10YR 4/1)	/
3——		0.0		NR	XXXXX	NO RECOVE	RY		
7—	2	0.0	wet	FILL		ASH, some c	nders, little coal, l	ittle gravel, trace , non plastic, loose, we	et.
9—	1.8	0.0	wet	FILL			nders, little gravel n plastic, loose, we	, trace brick, (10YR 4/² et.	1)
0		0.0	4	NR	XXXXX	NO RECOVE	RY		
1—	1.8	0.0	wet	FILL		ASH, some c	nders, little gravel	, little coal, trace y, non plastic, loose, w	et.
4	F	0.0	moist	FILL		SILT, some o	rganics, little cinde	ers, (10YR 2/1) black,	
2——		0.0	moist	NR		medium plast	icity, soft, moist, s	light burnt odor.	
\dashv	,	0.0	moist	FILL FILL	\bowtie	SILT, some o	rganics, little grave	el, (10YR 2/1) black,	/
3	2	2.1	moist	PT	<u> </u>	very fine SAN plastic, loose,	icity, soft, moist, s D, little silt, (2.5Y moist to wet, sligh	light burnt odor. 3/3) dark olive brown, i	non
5					<u> </u>	fibers, 20% or	ganic silt, (10YR	4/3) brown, non plastic dor. Soils consistent wi	, ith
16					1, 11, 1				
nmonts:	1) 2 0#1	mnte ···-	ro mada ta	htain boot ==	1 (Or) (O) 1 44	A/LIND confirmed to	ho 1 ft thiol: 2\ No CO	DW (CODD or COM)	ent in any interval of this boring.

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. Offile Warten	Deptil to Water.	·
Journol			,			(Note	bgs = below ground surface)
covery t/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
	0.0		CONCRETE	A 4 A A	CONCRETE		
	0.0	dry	FILL		concrete, (10YR 7/2) light gray, medium	el, little crushed dense, dry, no odor,	135-P3C-T48A-0.5-1.
	0.0	dry	FILL		fine to medium SAND, some cinders, as		135-P3C-T48A-2.0-2.
5	0.0	moist	FILL		\no staining. fine silty SAND, some cinders, ash, little	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, w	ace fine gravel, et, no odor, no	
4	0.0	wet	FILL		fine to medium silty SAND, and ash, son to medium gravel, (10YR 5/1) gray, med		135-P3C-T48A-6.0-6.
7					odor, no staining.		135-P3C-T48A-8.0-8
			NR	****	NO RECOVERY		
	0.0	to			plasticity, very loose, saturated to wet, no	o odor, no staining.	135-P3C-T48A-10.0-1
		moist			weak red, dense, moist, no odor, no stair	ning.	135-P3C-T48A-11.0-1
5	0.0	dry	OL OL		20% organic silt, (7.5YR 3/3) dark browr organic odor, no staining. Soils consister	n, firm, dry, strong nt with MM.	135-P3C-T48A-11.5-1
_	0.0	dry	OL		5/2) grayish brown, low plasticity, mediui moderate organic odor, no staining. Soils UNDorg. UNDorg SILT, 90% organic silt, 10% org 5/1) gray, low plasticity, soft to medium s	m stiff, dry, s consistent with ganic fibers, (10YR stiff, dry, slight	
					Cirganio casi, no staining. Cono consister	it was or soony.	
	covery t/ft)	O.0	O.0 Moisture	December Smith Property PID	covery PID Moisture Content USCS Graphic Log 0.0	pocestion: Smith Property Covery body PID (ppm) Content USCS Graphic Concrete (ppm) Content USCS Graphic Concrete (ppm) Content USCS Graphic Concrete (ppm) Content USCS Concrete (ppm) Concre	covery (ppm) Moisture (ppm) Content USCS Graphic Log Surface Cover and Thickness: 0.0

A E C O M

2012-09 RA PPG LOGS A.GDT - 11/16/16 10:59

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-T48AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610771.463 Date Started Drilling: 8/17/2016 9:00:00 AM Coordinates (NJSPNAD83) y: 682104.958 Rig Type: Date Finished Drilling: 8/17/2016 Core Size: 3.0 in Boring Total Depth: 15 ft Logged By: SP Project Manager: Scott Mikaelian Depth to Water: 7.0 Surface Elevation: 10.537 ft NAVD88 Physical Location: Actual - Smith PDI Depth PID Recovery Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 1 CONCRET Concrete slab dry 3 FILL medium to coarse SAND, some ash, trace coal, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining. fine to medium sandy SILT, little cinders, (7.5YR 3/4) dark dry 3 FILL to brown, dense, dry to moist, no odor, no staining. 3 **FILL** 4 moist CINDERS, some fill debris, (5YR 4/3) reddish brown, loose, dry, no odor, no staining. dry NR NR NO RECOVERY 0.0 3 FILL CINDERS, little fill debris, trace coal, (5YR 4/1) dark gray, moist loose, moist, no odor, no staining. **FILL** medium to coarse SAND, trace ash, coal and fill debris, moist 3 (7.5YR 4/1) dark gray, dense, moist, no odor, no staining. FILL moist 3 CINDERS, (5YR 6/1) gray, loose, moist to wet, no odor, no to staining, water at 7.0 feet. 4.5 wet NO RECOVERY NR NR 10 0.0 moist 3 FILL CINDERS, trace coal and ash, (5YR 4/1) dark gray, loose, moist, no odor, no staining. fine to medium sandy SILT, little medium gravel, (2.5YR 14 SW-SC dry 5/3) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno. 12-135-P3C-T48AR-12.0-12.5 PT PEAT (degraded vegetated material), 60% organic fibers, dry 7 5 40% organic silt, (7.5YR 4/2) brown, medium dense, dry, 9 SM dry moderate organic odor, no staining. Soils consistent with Organic SILT, 10% organic fibers, 90% organic silt, (5YR 6/1) gray, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg. bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant MM - meadow mat CCPW - chromate chemical production waste

nts: 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

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		-		AQ11 :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-F3C-043A-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	



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-V41A

	t Name: F		arfield Ave			Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPI	Page: 1
				7:55:00 AM		Rig Type:		AD83) y: 682275.375
		illing:	7/19/2013	6:54:00 AM		Core Size: 3 in	Boring Total Depth:	
	d By: MI		40= 1444			Project Manager: Chris Martell	Depth to Water: NA	\
Physic	al Location	n: Site	e 135 - V41	IA .			(Not	e bgs = below ground surface)
Depth							•	,
Range ft bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thic	kness:	Sample ID
- -1-	2	0.0	slightly moist	FILL		fine to medium sandy, with fine to me brick, fill material, (7.5YR 4/2) brown, slightly moist, no odor, no staining.	non plastic loose,	
_ -2		0.0	slightly moist	FILL		weathered BRICK, with fine silty sand gravel, (5YR 4/4) reddish brown, non	plastic, loose to	
-3	1.1	0.0	slightly moist	FILL		soft, slightly moist, no odor, no stainir fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose	little brick, (5YR	
				NR		moist, no odor, no staining. NO RECOVERY	/	
- –	_	0.0	slightly moist	FILL		fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose		
-5 	2	0.0	dry	1122		\moist, no odor, no staining. fine to medium SAND, some cinders, (7.5YR 2.5/3) very dark brown, non pl	coal, little brick, astic, loose, dry, no	135-P3C-V41A-5.0-5.5
6 7	1.6	17.2	slightly moist	FILL		odor, no staining. CINDERS, with coal, little ash, fine sablack, non plastic, loose, slightly mois odor, slight sheen.		135-P3C-V41A-7.0-7.5
-8		10.1	-1:	NR	XXXXX	NO RECOVERY		
 9	1.7	10.1	slightly moist	FILL		CINDERS, with coal, little ash, fine sa black, non plastic, loose, slightly mois odor, slight sheen.	and, (7.5YR 2.5/1) st, slight petroleum	135-P3C-V41A-9.0-9.5
- 10		0.0	moist	NR FILL	-	NO RECOVERY fine to medium silty SAND, some cind	ters ash coal	
	1.6			1166		(7.5YR 3/2) dark brown, non plastic, l no odor, no staining.		135-P3C-V41A-11.0-11.5
-12		0.0	moist	NR FILL		NO RECOVERY fine to medium silty SAND, some cind	ders. ash. coal.	
_ _13	1.5					(7.5YR 3/2) dark brown, non plastic, l no odor, no staining.	oose to soft, moist,	135-P3C-V41A-13.0-13.5
		0.0		NR		NO RECOVERY		
	2	0.0	moist	FILL		SILT, some fine sand, little coarse gradark grayish brown, low plasticity, sof staining.	t, moist, no odor, no	
]							135-P3C-V41A-15.0-15.5
—16 —		2.7	dry	PT	77 77	reprint (dogradou vogotatou material),		135-P3C-V41A-15.5-16.0
 17 	2	1.3	slightly moist	РТ		odor, no staining. Soils consistent with PEAT (degraded vegetated material), 20% organic silit, non plastic, stiff, dry	h MM. 80% organic fibers, , strong organic	135-P3C-V41A-15.5-16.0X
18						•		
Comme	nts: 1) 3 atte	mpts we	ere made to o	btain best rec	overv 2) N	IM/UND confirmed to be 1 ft thick 3) No CCPW (C	OPR or GGM) present in any	interval of this boring

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

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	_				l l		
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	\(\frac{1}{2}\)\(\fra	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 -	5						
-19 - - -20 -					<u> </u>		



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-W38A

	t Name: F					Orilling Company: SGS North Americ		
	t Number:					Orilling Method: Geoprobe	Coordinates (NJSPNA	
				10:30:00 AN		Rig Type:	Coordinates (NJSPNA	
			5/13/2013	12:00:00 F		Core Size: 3 in	Boring Total Depth:	18 ft
	d By: EW		405 1115		I	Project Manager: Chris Martell	Depth to Water: NA	
hysic	al Location	n: Site	e 135 - W3	8A			(Made I	ogs = below ground surface)
							(NOTE)	AR → DEIOM BLORING PRITACE)
Depth Range ft bgs)		PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and 1	hickness:	Sample ID
- 1	1.5	0.0	dry	FILL		fine to medium SAND, trace silt at 4/3) brown, non plastic, soft, dry to staining, fill material.		
		0.0	dry	FILL		fine to medium SAND, and concre		
_ 2				NR		(7.5YR 3/4) dark brown, non plast	ic, soft, dry to moist, no	
-3 -3	1.8	0.0	moist	FILL		\odor, no staining. \NO RECOVERY fine silty SAND, some fill material. 3/3) dark brown, low plasticity, sof		
-4 -5	1.8	0.0	dry	NR FILL		NO RECOVERY fine to medium silty SAND, with control wood fragments, (10YR 5/2) grayite loose to soft, dry to slightly moist,	sh brown, non plastic,	
-6 -7	1.5	0.0	slightly moist	NR FILL		NO RECOVERY fine silty SAND, some ash, cinder medium gravel, (7.5YR 5/1) gray, soft, slightly moist, no staining.		
-8 -9	1	0.0	slightly moist	NR FILL NR		fine to medium, some ash, cinders medium gravel, trace glass, rubbe gray, non plastic, loose to soft, slig NO RECOVERY	r, (7.5YR 4/1) dark	
-10 - -11 -	1.6	0.0	moist	FILL		ASH, with fine sand, some cinders ceramics, coal, trace glass, (7.5Yl plastic, loose, moist, no odor, no s	R 4/1) dark gray, non	
-12 - -13	2	0.0	moist	NR FILL		NO RECOVERY ASH, with fine sand, some cinders ceramics, coal, trace glass, (7.5Yl plastic, loose, moist, no odor, no second control of the c	R 4/1) dark gray, non	
14 15 15	1.3	0.0	moist moist	FILL FILL NR		SILT, little roots, trace fine sand, (brown, low plasticity, soft, moist, r SILT, little roots, trace fine sand, f 2.5/3) very dark brown, low plastic odor, no staining. NO RECOVERY	no odor, no staining. ill material, (7.5YR	
16 	2	0.0 1.7 2.1	moist moist moist	FILL OL PT		SILT, little roots, trace fine sand, f 2.5/3) very dark brown, low plastic odor, no staining. UNDorg SILT, 90% organic silt, 10 (7.5YR 2.5/3) very dark brown, low moderate organic odor, no stainin UNDorg. PEAT (degraded vegetated mater 20% organic silt, (7.5YR 3/3) dark stiff, moist, strong organic odor, no	70% organic fibers, v plasticity, soft, moist, g. Soils consistent with ial), 80% organic fibers, brown, non plastic,	
						consistent with MM.		



Boring ID: 135-P3C-W39A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610970.8125Date Started Drilling:5/20/2013 9:10:00 AMRig Type:Coordinates (NJSPNAD83) y:682308.8125Date Finished Drilling:5/20/2013 10:45:00 AMCore Size: 3 inBoring Total Depth:16 ft

Date F	nished Dr	illing:	5/20/2013	3 10:45:00 AM	Л	Core Size: 3 in	Boring Total Depth:	
	d By: MI					Project Manager: Chris Martell	Depth to Water: NA	
Physic	al Location	n: Site	e 135 - W3	9A			(Not	e bas = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickr	,	Sample ID
 - 1 	2	0.0	slightly moist slightly moist	FILL FILL		medium to coarse SAND, little fine grav very dark brown, non plastic, loose, slig odor, no staining. fine to medium silty SAND, with fine to little crushed concrete, brick, (5YR 4/4)	htly moist, no coarse gravel,	
-2- 3-	. 1	0.0		FILL		non plastic, hard, slightly moist, no odol fine silty SAND, some wood fragments, coarse gravel, (5YR 4/3) reddish brown loose to soft.	fill material, little	
-4-		0.0	dry	NR FILL		NO RECOVERY ASH, with fine to medium sand and cine		
5	1.8					fragements, little glass, (10YR 4/1) dark plastic, loose, dry, no odor, no staining.	gray, non	135-P3C-W39A-5.0-5.5
6 7	2	0.0	dry	NR FILL		NO RECOVERY ASH, with fine to medium sand and cinc fragements, little glass, (10YR 4/1) dark plastic, loose, dry, no odor, no staining.	gray, non	135-P3C-W39A-7.0-7.5
8 9	1.5	196.0	moist	FILL		TAR-LIKE MATERIAL, with fine to coar ash, cinders, coal, wood fragments, trac 2.5/1) black, non plastic, loose, moist, s	ce silt, (7.5YR	135-P3C-W39A-7.0-7.5X 135-P3C-W39A-9.0-9.5
10-		0.0		NR		sheen. NO RECOVERY		135-P3C-W39A-9.0-9.5
- 11 - 1	1.7	0.0	dry	FILL		ASH, with fine to medium sand and cine fragements, little glass, silt, ceramics, (gray, non plastic, loose, dry, no odor, no	10YR 4/1) dark	135-P3C-W39A-11.0-11.5
—12— —13—	2	0.0	dry moist	NR FILL FILL		NO RECOVERY ASH, with fine to medium sand and cinc fragements, little glass, silt, ceramics, (gray, non plastic, loose, dry, no odor, no SILT, some roots, little ash, wood fragm (7.5YR 4/2) brown, low plasticity, soft, no	10YR 4/1) dark o staining. nents, fill material,	135-P3C-W39A-13.0-13.5 135-P3C-W39A-13.5-14.0
—14 — — —15—	. 2	2.3	dry	OL PT	<u> </u>	staining. UNDorg SILT, 90% organic silt, 10% or (7.5YR 2.5/1) black, low plasticity, soft, odor, no staining. Soils consistent with	ganic fibers, moderate organic UNDorg.	135-P3C-W39A-14.0-14.5
16		0.0	moist	MH		20% organic silt, (7.5YR 3/2) dark brow stiff, dry, strong organic odor, no stainin consistent with MM. UNDno SILT, with roots, little organics, grayish brown, low plasticity, soft to der organic odor, no staining. Soils consiste	n, non plastic, ag. Soils (10YR 5/2) ase, moist, slight	

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/21/2014 8:10:00 AM

Boring ID: 135-P3C-W40A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610957.968 Rig Type: Coordinates (NJSPNAD83) y: 682280.982

Date Finished Drilling: 4/21/2014 9:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: FM Project Manager: Chris Martell

Donth							
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, (10YR	
-1 -2 -3	5	0.0	dry	FILL		4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, some glass fragments, trace concrete, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-1.0-1.5
		0.0	dry	FILL		fine to medium SAND, little ash, some brick, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-3.0-3.
-5 - -6 -7		0.0	dry	FILL		ASH, and cinders, some fine to medium sand, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-5.0-5.
-8 - -9	5	0.0	dry	FILL		fine to medium SAND, with ash, some cinders, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-9.0-9.
\dashv							135-F3C-W40A-9.0-9.
-10 - -11		87.3	wet	FILL		fine to medium SAND, with cinders and ash, (5YR 3/1) very dark gray, non plastic, loose, wet, moderate hydrocarbon odor, sheen.	135-P3C-W40A-11.0-11
-12 -	5	0.0	dry	FILL		fine to medium SAND, some silt, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	_
_13							135-P3C-W40A-13.0-13
-14		0.0	dry dry	FILL FILL		fine to medium silty SAND, trace glass, coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-14.4-14
-15		0.0	dry	PT	<u> </u>	fine to medium silty SAND, trace wood fragments, trace organic fibers, (5YR 4/1) dark gray, non plastic, soft, dry, no	135-P3C-W40A-14.9-15
-16	5	0.0	dry dry to moist	PT OL		odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, non plastic, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry, slight organic odor, no staining, UNDorg. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (5YR 4/1) dark gray, low plasticity, soft, dry to moist, slight organic odor, no staining. Soils consistent with UNDorg.	



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

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-X36A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611040.125

 Date Started Drilling:
 5/13/2013 10:39:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682373.6875

 Date Finished Drilling:
 5/13/2013 12:00:00 PM
 Core Size: 3 in
 Boring Total Depth:
 18 ft

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

Physical Location: Site 135 - X36A (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 slightly FILL fine silty SAND, some fill material, (10YR 4/2) dark moist grayish brown, non plastic, medium dense, slightly moist. 1.8 0.0 slightly **FILL** fine to coarse SAND, some asphalt particles, some fill material, (10YR 3/2) very dark grayish brown, non plastic, moist loose, slightly moist. NR NO RECOVERY 0.0 slightly FILL fine silty SAND, some fill material, little gravel, (10YR moist 2 3/2) very dark grayish brown, non plastic, medium dense, 0.0 slightly FILL slightly moist. moist fine silty SAND, some concrete, some brick, little weathered asphalt, (10YR 4/2) dark grayish brown, non 0.0 FILL moist plastic, dense, slightly moist. ASH, little gravel, little fine to medium sand, (10YR 4/1) 1.6 dark gray, non plastic, loose, moist. NO RECOVERY NR 0.0 135-P3C-X36A-6.0-6.5 ASH, some cinders, little gravel, (10YR 3/2) very dark wet **FILL** grayish brown, non plastic, loose, wet. 1.4 NO RECOVERY NR 0.0 135-P3C-X36A-8.0-8.5 wet **FILL** ASH, little wood, little gravel, (10YR 2/1) black, non plastic, loose, wet, slight HC odor, sheen. 135-P3C-X36A-8.0-8.5X 1.4 NR NO RECOVERY 135-P3C-X36A-10.0-10.5 0.0 **FILL** ASH, some cinders, some coal, (10YR 4/1) dark gray, wet non plastic, loose, wet, moderate HC odor, sheen. 1.2 NO RECOVERY NR ASH, some cinders, little fine to medium sand, (10YR 135-P3C-X36A-12.0-12.5 0.0 **FILL** wet 3/1) very dark gray, non plastic, loose, wet, slight HC 12 odor, sheen. -13 NR NO RECOVERY 0.0 **FILL** 135-P3C-X36A-14.0-14.5 ASH, some cinders, some coal, (10YR 4/1) dark gray, wet non plastic, loose, wet, slight sulfur odor. 18 0.0 FILL SILT, little wood fragments, (10YR 2/1) black, low moist plasticity, soft, moist, slight sulfur odor -16 NR NO RECOVERY 135-P3C-X36A-16.0-16.5 0.0 moist FILL fine silty SAND, little cinders, little roots, (7.5YR 4/3) 135-P3C-X36A-16.5-17.0 0.0 moist brown, non plastic, medium dense, moist, slight sulfur 1.8 PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, -18 NR medium dense, moist, slight sulfur odor. Soils consistent with MM NO RECOVERY

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.



Boring ID: 135-P3C-X36AR

Page: 1

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

Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611032.182 **Date Started Drilling:** 12/2/2014 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682379.051 Date Finished Drilling: 12/2/2014 11:10:00 AM Core Size: 3.0 in Boring Total Depth: 5 ft

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

ical Locatio	3. D3/	C 736VD			oject Manager: Scott Mikaelian	•	VA
LOCALIO	I. F3	C - A30AR				(Note bgs = below ground surface)
Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickr	ness:	Sample ID
_	0.0	dry	FILL		ASH, little asphalt, little fine gravel, (7.5 loose, dry, no odor, no staining.	5YR 2.5/1) black,	135-P3C-X36AR-0.0-0.
5	0.0	dry	FILL		fine to medium SAND, little crushed cormedium to coarse gravel, (7.5YR 4/3) be no odor, no staining.	ncrete, little prown, loose, dry,	
	0.0	dry	FILL		ASH, some coal, trace debris, (7.5YR 2 dry, no odor, no staining.	2.5/1) black, loose,	

PPG - PPG_LOGS.GDT - 1/9/15 10:39



PPG LOGS.GDT - 6/13/13 18:12

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-X37A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611024.625

 Date Started Drilling:
 5/20/2013 11:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682352.9375

 Date Finished Drilling:
 5/20/2013 1:45:00 PM
 Core Size: 3 in
 Boring Total Depth:
 18 ft

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

Logged By: MI Physical Location: Site 135 - X37A (Note bas = below ground surface) Depth Recovery PID GΑ Moisture Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log ID (ft bgs) 0.0 slightly 3 FILL fine to medium SAND, some fine gravel, little silt, trace moist brick, crushed concrete, (7.5YR 3/2) dark brown, non 1.8 plastic, loose, slightly moist, no odor, no staining. NO RECOVERY NR NR 0.0 slightly SILT, with fine sand, little concrete, glass, (7.5YR 5/4) **FILL** moist brown, non plastic, soft, slightly moist, no odor, no 1.6 0.0 slightly 3 FILL fine to medium SAND, some fine gravel, little silt, trace brick, crushed concrete, (7.5YR 3/2) dark brown, non moist NR NR 0.0 slightly 3 FILL plastic, loose, slightly moist, no odor, no staining. 0.0 moist NO RECOVERY 3 **FILL** 2 moist fine to medium SAND, some fine gravel, little cinders, 135-P3C-X37A-5.0-5.5 coal, wood fragments, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining. ASH, some fine sand some cinders, coal, wood 53.6 **FILL** moist 6 fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. 1.5 135-P3C-X37A-7.0-7.5 ASH, some fine sand some cinders, coal, wood fragments, tar like material, little ceramics, glass, (10YR NR NR 4/1) dark gray, non plastic, loose, moist, moderate tar 0.0 moist 3 FILL odor sheen NO RECOVERY 2 ASH, some fine sand some cinders, coal, wood 135-P3C-X37A-9.0-9.5 fragments, little ceramics, glass, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. 0.0 moist 3 **FILL** ASH, some fine sand, some cinders, coal, wood fragments, little ceramics, glass, (10YR 4/1) dark gray, 135-P3C-X37A-10.5-11.0 1.1 non plastic, loose, moist, no odor, no staining. NR NR NO RECOVERY 0.0 **FILL** ASH, some fine sand, some cinders, coal, wood moist 3 fragments, little ceramics, medium gravel, (10YR 4/1) 135-P3C-X37A-12.5-13.0 13 dark gray, non plastic, loose, moist, no odor, no staining. 13 NO RECOVERY NR NR 0.0 FILL ASH, some fine sand, some cinders, coal, wood moist 3 fragments, little ceramics, medium gravel, (10YR 4/1) 135-P3C-X37A-14.5-15.0 2 dark gray, non plastic, loose, moist, no odor, no staining. 0.0 3 **FILL** SILT, some fine to coarse sand, little coarse gravel. moist roots, (5YR 5/2) reddish gray, non plastic, soft, moist, no 135-P3C-X37A-15.7-16.2 16 odor, no staining. 0.0 **FILL** moist 3 135-P3C-X37A-16.2-16.7 SILT, some fine to coarse sand, little coarse gravel, 2 1 drv P٦ 2 1, 11, 1 roots, (5YR 5/2) reddish gray, non plastic, soft, moist, no odor, no staining. 11, 11, PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non 18 plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.

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.

Boring ID: 135-P3C-Y33A

Page: 1

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

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611106.149 Date Started Drilling: 4/18/2014 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682438.347

Date Finished Drilling: 6/22/2015 Boring Total Depth: 20 ft Core Size: 3.0 in Logged By: SP,SS Depth to Water: NA Project Manager: Scott Mikaelian

Samuel							
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_		0.0	dry	FILL		ASPHALT, (10YR 4/1) dark gray, loose, dry, no odor, no staining	
-1 -2 -	5	0.0	dry	FILL		ASH, little fine to medium sand trace brick, trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining	135-P3C-Y33A-1.0-1.5
-3 -4							135-P3C-Y33A-3.0-3.5
-5-		0.0		FILL		ASH, little fine to medium sand trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no	135-P3C-Y33A-4.7-5.2
-6		0.0	moist	FILL		ASH, trace wood fragments, trace glass, trace gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no	135-P3C-Y33A-6.7-7.2
-7— - -8—	5	5	5	5 staining	staining		
-9							135-P3C-Y33A-8.7-9.2
11		0.0	slightly moist	FILL		ASH, little fine to medium sand trace glass, trace debris, (10YR 3/1) very dark gray, medium dense, slightly moist, no odor, no staining	135-P3C-Y33A-10.5-11.0
-12 -13 -14	5	0.0	moist	SP		fine silty SAND, trace organics, trace gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.	135-P3C-Y33A-12.5-13.0
' -		0.0	a li mballi r	DT	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	DEAT (degraded to restated metasic)) (FOO) arrapic FOO)	135-P3C-Y33A-14.1-14.6
15		0.0	slightly moist	PT OL		PEAT (degraded vegetated material), (50% organic, 50% silt), (7.5YR 4/2) brown, medium dense, slightly moist,	135-P3C-Y33A-14.6-15.1 135-P3C-Y33A-15.0-15.5
-16 -17 -18	5					slight organic odor, no staining. Soils consistent with MM./ UND organic SILT, (80% silt, 20% organic), (7.5YR 4/2) brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
_ -19							
20							



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-Y34A

Project Date Sta Date Fir	Name: P Number: arted Drilli nished Dri By: MI	60240 i ng: 5	739 /21/2013 1			Drill Rig	ing Company: SGS North America ing Method: Geoprobe Type: 2 Size: 3 in ect Manager: Chris Martell	Coordinates (NJSPNA Coordinates (NJSPNAI Boring Total Depth: 1 Depth to Water: NA	083) y: 682417.75
	l Location	: Site	135 - Y34	1A		, 			gs = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and T		Sample ID
 1	1.4	0.0	slightly moist	3 3 NR	FILL FILL NR		fine to medium SAND, with little fin (7.5YR 2.5/3) very dark brown, no slightly moist, no odor, no staining fine to medium silty SAND, little fin little coal, trace brick, (5YR 4/4) re	n plastic, loose, ne to coarse gravel.	-
-2- -3-	1.8	0.0	slightly moist	3	FILL		plastic, loose to soft, no odor, no some NO RECOVERY fine silty SAND, some fine to coan trace brick, (5YR 3/4) dark reddish loose to soft, slightly moist, no odd	staining. se gravel, little coal, brown, non plastic,	_
- 4 5	1	0.0	slightly moist	NR 3 NR	NR FILL NR		NO RECOVERY fine silty SAND, some fine to coar trace brick, (5YR 3/4) dark reddish loose to soft, slightly moist, no odd NO RECOVERY	brown, non plastic,	135-P3C-Y34A-4.5-5.
-6- - -7-	1.4	0.0	moist	3	FILL		ASH, with fine sand, some wood fi coal, little ceramics, (7.5YR 4/1) d loose, moist, no odor, no staining.	ragments, cinders, ark gray, non plastic,	135-P3C-Y34A-6.5-7
8	1.2	0.0	moist	NR 3	NR FILL		NO RECOVERY ASH, with fine sand, some wood f coal, little ceramics, (7.5YR 4/1) d	ragments, cinders, ark gray, non plastic,	135-P3C-Y34A-8.5-9
-9 - -10	1.2	0.0	moist	NR 3	NR FILL		loose, moist, no odor, no staining. NO RECOVERY ASH, with fine sand, some wood f		
	1			NR	NR		coal, little ceramics, (7.5YR 4/1) d loose, moist, no odor, no staining. NO RECOVERY	ark gray, non plastic,	135-P3C-Y34A-10.5-1
-12 - -13	1	0.0	moist	3 NR	FILL NR		SILT, some fine to medium sand I roots, (7.5YR 4/2) brown, low plas odor, no staining. NO RECOVERY	ittle, medium gravel, ticity soft, moist, no	135-P3C-Y34A-12.5-1
-14		0.0	moist dry	3	FILL PT		SILT, some fine to medium sand I (7.5YR 2.5/3) very dark brown, lov		135-P3C-Y34A-14.0-1
-15 - -16	2	1.1	moist	9	МН	<u>// \/ \/ \</u>	\no odor, no staining. PEAT (degraded vegetated materifibers, 20% organic silt, non plastitorganic odor, no staining. Soils co	c, stiff, dry, strong	-
							UNDno SILT, with roots little orgar grayish brown, low plasticity, soft to organic odor, no staining. Soils co	nics, (10YR 4/2) dark o stiff, moist, slight	



Boring ID: 135-P3C-Z30A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611175.75
Date Started Drilling: 5/22/2013 9:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682506.4375
Date Finished Drilling: 5/22/2013 10:30:00 AM Core Size: 3 in Boring Total Depth: 18 ft
Logged By: AB Project Manager: Chris Martell Depth to Water: NA

	IBy: AB					Proje	ct Manager: Chris Martell D	epth to Water: NA	
Physic	al Location	ı: Site	135 - Z30	A				(Note bo	s = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	Class		Graphic Log	Surface Cover and Thickr	ness:	Sample ID
 1	2	0.0 0.0 155	slightly moist slightly moist slightly	3	ASPHALT FILL FILL		ASPHALT, weathered fragments and s 2/1) black, non plastic, loose, slightly n fine to coarse SAND, some gravel, sor asphalt, (10YR 2/1) black, non plastic, moist.	moist. me weathered loose, slightly	
-2	2	662	moist moist	3	FILL		fine silty SAND, some rock fragments, (10YR 3/2) very dark grayish brown, no medium dense, slightly moist, moderat fine to medium silty SAND, some gravinders, trace glass, trace coal, (10YR plastic, medium dense, moist, strong p	on plastic, te petroleum odor. el, little ash, little 2/1) black, non	
- - 5	1.6	825 792	wet	3	FILL		ASH, some cinders, little sand, little gravery dark gray, non plastic, medium de petroleum odor.	avel, (10YR 3/1) ense, wet, strong	135-P3C-Z30A-5.0-5.5
6 6		105	wet	NR 3	NR FILL		ASH, some cinders, little glass fragme (10YR 2/1) black, non plastic, loose, w petroleum odor, sheen.	ents, little coal, et, strong	135-F3C-Z30A-5.0-5.5
- 7 -	1.2			NR	NR		NO RECOVERY some ash, little glass fragments, little to ceramics, (10YR 3/2) very dark grayish plastic, loose, wet, strong petroleum or	n brown, non /	135-P3C-Z30A-6.5-7.0
8 9	. 1	90.8	wet	3 NR	FILL NR		NO RECOVERY CINDERS, some ash, little gravel, little glass, (10YR 3/1) very dark gray, non pstrong petroleum odor, sheen. NO RECOVERY		135-P3C-Z30A-8.5-9.0
- 10 11	1.4	37.4	wet	3	FILL		ASH, some cinders, little ceramics, littl glass, (10YR 2/1) black, non plastic, lo moderate petroleum odor, sheen.		135-P3C-Z30A-10.5-11.
- 40	_			NR	NR	*****	NO RECOVERY		
12 - 13	1.2	42.5	wet	3	FILL		ASH, some cinders, little glass fragme ceramics, trace shells, (10YR 2/1) blac loose, wet, slight petroleum odor.		135-P3C-Z30A-12.5-13.
-	-			NR	NR		NO RECOVERY		
14 15	2	82.7 50.0	wet moist	3	FILL FILL		CINDERS, some ash, little glass fragm (10YR 2/1) black, non plastic, loose, w petroleum odor.	nents, trace brick, vet, moderate	135-P3C-Z30A-14.5-15.
-		55.6	moist	3	FILL		SILT, some ash, little cinders, little roo black, medium plasticity, soft, moist, sl		135-P3C-Z30A-15.4-15.
16 17	1.6	143 120	moist moist	7	PT PT	<u> </u>	odor. fine silty SAND, little cinders, little roots (10YR 4/2) dark grayish brown, non pla moist, slight petroleum odor. PEAT (degraded vegetated material), 8	astic, loose,	135-P3C-Z30A-15.9-16.
18				NR	NR		fibers, 20% organic silt, (10YR 4/3) broose, moist, Soils consistent with MM PEAT (degraded vegetated material), fibers, 20% organic silt, (10YR 3/3) dai plasticity, soft, moist, moderate sulfur consistent with MM. NO RECOVERY	own, non plastic, 1. 80% organic rk brown, low	



Boring ID: 135-P3C-Z31A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611160.25Date Started Drilling:5/21/2013 11:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682481.625Date Finished Drilling:5/21/2013 2:30:00 PMCore Size:3 inBoring Total Depth:16 ft

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

ogged By: A		- 105 70	1 1	P	roject Manager: Chris Martell	Depth to Water:	INA
Physical Locat	ion: Sit	e 135 - Z3	1A				(Note bgs = below ground surface)
Depth Range It bgs)	ry PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thi	ickness:	Sample ID
	0.0	slightly moist	ASPHALT		ASPHALT, weathered fragments an 2/1) black, non plastic, dense, slight		
2	0.0						
	0.0	moist	FILL		fine to medium silty SAND, some gr wood, trace plastic, (10YR 3/3) dark loose, moist.	avel, trace coal, trace brown, non plastic,	
	0.0	moist	FILL		ASH, some cinders, little gravel, trac dark gray, non plastic, loose, moist.	ce metal, (10YR 4/1)	
-5 1.5	14.4	wet	FILL		ASH, some cinders, little coal, little omaterial, (10YR 2/1) black, non plas petroleum odor, sheen.		
3 _							135-P3C-Z31A-5.0-5.
-6-	2.2		NR		NO RECOVERY		135-P3C-Z31A-5.0-5.
_7 1	2.3	wet	FILL NR		ASH, some cinders, little glass fragr (10YR 2/1) black, non plastic, loose, petroleum odor, sheen.		135-P3C-Z31A-6.5-7.
-			INIX		NO RECOVERY		
-9 1.8	0.0	wet	FILL		ASH, some cinders, little glass fragr trace fill material, (10YR 3/1) very da loose, wet, slight petroleum odor, sh	ark gray, non plastic,	135-P3C-Z31A-8.5-9.
10			NR		NO RECOVERY		
1.3	0.0	wet	FILL		fine to medium CINDERS, little ash, fragments, little gravel, trace metal, non plastic, loose, wet, slight burnt of	(10YR 2/1) black,	135-P3C-Z31A-10.5-1
-12			NR		NO RECOVERY		
	0.0	wet wet	FILL FILL		fine to medium CINDERS, little ash, coal, (10YR 2/1) black, non plastic, l	little gravel, little	135-P3C-Z31A-12.5-13
1.1	0.0	WCt	NR		SILT, little ash, little cinders, trace roblack, medium plasticity, soft, wet. NO RECOVERY	oots, (10YR 2/1)	/ 133-F3C-231A-12.5-1.
-14	0.0	wet	FILL		SILT, little ash, little cinders, trace ro	note (10VR 2/1)	
	0.0	wet	FILL		black, medium plasticity, soft, wet.	, ,	/ 135-P3C-Z31A-14.5-1
	17.2	moist	PT	<u> </u>	fine to medium silty SAND, some gr (5YR 4/3) reddish brown, non plastic PEAT (degraded vegetated material	c, loose, wet.), 80% organic fibers,	135-P3C-Z31A-15.0-1
16					20% organic silt, (10YR 4/3) brown, moist, moderate sulfur odor. Soils co	iow plasticity, soπ, onsistent with MM.	
			1	1			

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

Page: 1

Project	Name: F	60240	739			Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	
				9:00:00 AM				AD83) y: 682257.8
		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

A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-V41AR

Page: 1

			rfield Ave			Drilling Company: SGS North America		ı ugo.																				
	Number:					Drilling Method: Direct Push	NAD83) x: 610770.6 NAD83) y: 682104.7																					
				0:00:00 AM 9:30:00 AM		Rig Type: Geoprobe Core Size: 3.0 in																						
	d By : ES	illing:	11/4/2010	9.30.00 AIVI		Project Manager: Scott Mikaelian	Boring Total Depth: Depth to Water: 4.0																					
		n: Act	ual - Smith	PDI		Troject Manager. Cook Mikacilan	Surface Elevation:																					
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	-	Sample ID																				
- 1— - 1— 2—	5	307	dry	FILL		fine to medium SAND, some ash, (7.5YR medium dense, dry, moderate fuel oil-like	3/3) dark brown, odor, no staining.																					
-3 -4 -			dry to wet	FILL		ASH, some fine to medium sand, (5Y 5/1 wet, moderate fuel oil like-odor and staining feet.																						
-5— -6— -7—	. 5	58	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, slight fuel staining.	l oil-like odor and																					
-8 -9 -																							wet	FILL		fine to medium SAND, some ash, little silbrown, medium dense, wet, no odor, no s	t, (5YR 4/4) reddish staining.	ASM-V41AR-8.0-8.5
-10 - -11 -		2.0	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, r	oo etaining	ASM-V41AR-10.0-10.5																				
-12 -	4.5							wet	I ILL		AST, (31 3/1) gray, loose, wet, 110 oddr, 1	io stairiirig.	ASM-V41AR-12.0-12.5															
-13								ASM-V41AR-13.0-13.5																				
-14 			dry	PT NR	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	TEAT (degraded vegetated material), 00 /	brown, 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 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 romate chemical production wa																				

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Boring ID: ASM-V42AR2

Page: 1

	Number:						ing Method: Direct Push	Coordinates (NJSPNA					
	arted Drill						Гуре: ™	Coordinates (NJSPNA					
	nished Dri	lling:	9/27/2016	11:00:	00 AM		Size: 2.0 in	Boring Total Depth:	18 ft				
	IBy: ES						ect Manager: Scott Mikaelian	Depth to Water: 9.0					
Physica	al Location	: ACT	UAL - Smi	th Sup	plemental	PDI		Surface Elevation: 14	4.4 ft NAVD88				
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and	Thickness:	Sample ID				
		0.0		1 0	ONCRET	2, 3, 6,	Concrete floor slab						
_ _1	1			3	NR		VOID SPACE						
_			dry	3	FILL		fine to coarse GRAVEL and concre	ete, (5Y 5/1) gray, loose,					
-2-		0.0	dry	3	FILL		dry, no odor, no staining.		ASM-V42AR2-2.0-2.5				
-3	4	0.0	dry	3	T ILL		fine to medium SAND, little ash, tra 6/4) light brown, medium dense, di		ASM-V42AR2-4.0-4.5				
-5 -			dry	3	FILL		ASH, some fine sand, little coal, (5 medium dense, dry, slight fuel oil-li						
-6 -7 		0.3							ASM-V42AR2-6.0-6.5				
-8-	4		dry	3	FILL		CINDERS and ASH, (5Y 2.5/2) bla no staining.	ick, loose, dry, no odor,	ASM-V42AR2-8.0-8.5				
-						\bowtie							
-9 —			wet	3	FILL		ASH, some fine to medium sand, (no odor, no staining, water at 9.0 fo						
-10 -11 - -12	4	85.5	wet	3	FILL		fine silty SAND, little fine gravel, (2 medium dense, wet, moderate fuel staining.		ASM-V42AR2-10.0-10.5				
-12 -13 -			wet	3	FILL		fine silty SAND, little fill debris, trace 4/3) brown, medium dense, wet, no		ASM-V42AR2-12.0-12.5				
-14		0.0							ASM-V42AR2-14.0-14.5				
_ -15 		5.0	wet	3	FILL		fine silty SAND, little fine gravel, tra weak red, medium dense, wet, no		ASM-V42AR2-15.0-15.5				
_ -16— -17— - -18—	4		dry	7	PT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PEAT (degraded vegetated materia 20% organic silt, (5YR 3/3) dark re slight organic odor, no staining. So	ddish brown, stiff, dry,	ASM-V42AR2-15.5-16.0				
2													
	ow surface o		COPR - chro			ng residue	UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de		ictured gas plant nate chemical production w				

STD US LAB GDT - 11/3/11 14:35 - \USPSWZVFP001\DATA USPSWZVFP001\DATA USPSWZVFP001\D Depth Recovery Range (ft/ft) (ft bgs) 2 3 0 4 0 5 6 0.3 8 9

33 34 GINT

Comments: No COPR/GGM identified at this location.

Boring ID: EF-15

Piscataway, NJ 08854 Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Coordinates (NJSPNAD83) x: 611293.13 Drilling Method: Airknife/Geoprobe Date Started Drilling: 4/28/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682670.28 Date Finished Drilling: 4/28/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5/23 ft Logged By: B. Daniels, M. Merdinger Physical Location: Indoor boring (Note bgs = below ground surface) PID Moisture GΑ Graphic Sample **USCS** Surface Cover and Thickness: Class (ppm) Content Log Number Concrete EF-B15_0.5 0 moist Fill Dark Brown (7.5YR 3/3) fine to medium SAND, some Silt and 3 fine to coarse angular Gravel, little Fill Material (ash, cinders, 0 EF-B15 2.0 glass, coal), moist, loose. No odor. EF-B15_4.0 0 EF-B15 5.0 Black CINDERS and ASH, wet, loose. No odor. 6 Fill Fill No Recovery 0 10 EF-B15 10.0 6 Fill Same as above. 11 Fill No Recovery 12 0.2 13 14 0 15 moist 7 PT Reddish Brown (2.5YR 3/4) PEAT, Organics, moist, medium. 0 16 Sulfur odor. 1, 11, 11, 0 17 11/ 11/ 11 EF-B15 17.0 2.5 18 11/11/11 PT No Recovery 1, 11, 11, 19 0 20 Gray (10YR 4/1) Organic SILTY CLAY, semi-cohesive, moist, moist OH 15.3 21 stiff. Sulfur odor. 17.8 EF-B15 22.0 22 4 0 23 8 SM Gray (Gley1 6/0) very fine SAND and SILT, wet, loose. Sulfur wet 24 odor. SM No Recovery 25 End of boring at 25 ft. 26 27 28 29 30 31 32

USPSW2VFP001/ENVIRONMENTIPISCATAWAYIPROJECTIPPG-NJCPROGRAM19-WORKFILESIPROJECT MANAGER-CATALDOBIGA RI-SOL INVESTIGATIONIFIELD WORK/BORING LOGS/GINT **Boring ID: EF-23** Piscataway, NJ 08854 Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Drilling Method: Airknife/Geoprobe Coordinates (NJSPNAD83) x: 610982.89 Date Started Drilling: 5/6/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682432.96 Date Finished Drilling: 5/6/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 6 ft Logged By: B. Daniels, M. Merdinger Physical Location: Indoor boring on Halladay Street (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) Concrete EF-B23_0.5 0 dry Fill Dark Brown (7.5YR 3/2) fine to coarse SAND, some fine to 4B medium angular Gravel and Fill Material (ash, cinder), little 0 2 EF-B23 2.0 COPR (15%), loose, dry. No odor.

Brown (7.5YR 4/3) fine to coarse SAND and COPR (60%), little 4B Fill dry 10.1 3 Silt, little fine to medium Gravel, loose, dry. No odor. Fill dry 3 10.1 Red Brick and Mortar (Foundation) moist Fill 4 EF-B23 4.0 Very Dark Brown (7.5YR 2.5/2) SILT and fine SAND, some medium angular Gravel and Fill Material (concrete, coal, ash, EF-B23_4.0X 3.6 5 2 cinder), medium dense, moist. Petroleum odor. 16.1 6 EF-B23_6.0 3 Fill Same as above, Oil/Water mix, loose, wet. Coal tar odor. wet Water is Yellow. 2 Fill No Recovery 8 9 0.6 EF-B23 10.0 10 6 Fill Black-stained medium angular GRAVEL, little Coal and Slag, wet 11 Fill loose, wet. Oil/Water mix with blebs of reddish-brown viscous wet oil, strong coal tar odor. 12 No Recovery 0.3 13 14 0.2 15 EF-B23 15.0 Black-stained very fine SAND, loose, wet. Oil/Water mix, strong wet 6 Fill 16 Fill coal tar odor. No Recovery 17 0.1 18 19 0.7 20 EF-B23 20.0 moist PT Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor. 21 moist 8 SP Gray (Gley1 6/0) very fine SAND, trace medium angular Gravel, SP 22 medium dense, moist. Sulfur odor. 1 No Recovery 23 STD US LAB.GDT - 11/3/11 14:35 - \\USPSW2VFP001\\DATA 24 25 End of boring at 25 ft. 26 27 28 29 30 31 32

Comments: COPR identified from 0.5 - 2.8 ft bgs

33 34 GINT

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Boring ID: P4-HAL-R41A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610805.583
Date Started Drilling: 9/10/2014 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682324.715
Date Finished Drilling: 9/10/2014 11:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		
		(Note has = below ground curfoce)

						(Not	e bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
-1-		0.0	sl moist to moist	FILL		silty SAND, trace gravel, (2.5YR 4/4) reddish brown, low plasticity, medium dense, slightly moist to moist, no odor.	P4-HAL-R41-0.5-1.0
-2-	5	0.0		ASPHALT		ASPHALT	
-3-	3	0.0	dry	FILL		ASH, trace coal, trace wood fragments, trace gravel, trace GGM, (10YR 3/1) very dark gray, non plastic, medium dense, dry, no odor.	P4-HAL-R41-2.5-3.0
-4		0.0	dry	FILL		fine to coarse SAND, trace coal, trace fine to medium gravel, (2.5Y 4/1) dark gray, non plastic, loose, dry, no odor.	
-5- -		0.0	slightly moist	FILL		silty SAND, trace gravel, (5Y 3/1) very dark gray, low plasticity, medium dense, slightly moist, no odor.	P4-HAL-R41-4.5-5.0
-7-	-						P4-HAL-R41-6.5-7.0
-8-	5	0.0	dry to sl	FILL		CINDERS, trace coal, trace wood fragments, trace ceramics, (10YR 4/1) dark gray, non plastic, loose to medium dense, dry to slightly moist, no odor.	B41111 B
-9		0.0	moist dry to	FILL		CINDERS, trace gravel, trace ash, (2.5Y 4/1) dark gray, non plastic, loose, dry to slightly moist, no odor.	P4-HAL-R41-8.5-9.0
10		moist		FILL		CINDERS, trace coal, trace wood fragments, trace gravel, trace ash, (10YR 4/1) dark gray, non plastic, loose, moist, no odor.	P4-HAL-R41-10.5-11.
-11 - -12	5	0.0	moist to wet	FILL		fine to medium silty SAND, trace gravel, trace brick, trace ash, (5YR 3/3) dark reddish brown, low plasticity, medium dense, moist to wet.	
-13 -14							P4-HAL-R41-12.5-13.
🗆							P4-HAL-R41-14.5-15.
-15		0.0	moist	FILL		silty SAND, trace gravel, (10YR 4/2) dark grayish brown,	P4-HAL-R41-15.0-15.
-16 -17	۔	0.0	slightly moist	PT		low plasticity, medium dense, moist, no odor. PEAT (degraded vegetated material), 70% organic matter, 30% organic silt, slightly moist, moderate organic odor. Soils consistent with MM.	P4-HAL-R41-15.5-16.
-18 - -19 - -	5	0.0	moist	OL		UNorg SILT, 70% organic silt, 30% organic fibers, (7.5R 3/1) dark reddish gray, (7.5YR 3/1) very dark gray, low plasticity, medium dense, moist, moderate organic odor. Soils consistent with UNDno.	
20							
ommen	ts: 1) 3 atte	mpts we	ere made to	obtain best reco	overy 2) UN	D/MM confirmed to be 1 ft thick.	_

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Boring ID: P4-HAL-S38A

Page: 1

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610875.524 Date Started Drilling: 9/17/2014 8:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682388.915

Date Finished Drilling: 9/17/2014 10:00:00 AM Boring Total Depth: 15 ft Core Size: 3.0 in Logged By: SP Depth to Water: NA

Project Manager: Scott Mikaelian

epth	Recovery	חוח	Maiatura		Cronbia			Comple
ange bgs)	(ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:		Sample ID
_		0.0		ASPHALT		ASPHALT	P4-HAL	-S38A-0.5-1.(
-1	5	0.0	dry to sl moist	FILL		fine to coarse SAND, trace gravel (10% COPR) 3/4) dark reddish brown, non plastic, loose to m dense, dry to slightly moist, no odor.	, (2.5YR edium	
-3 -4 -	3	0.0	slightly moist	FILL		GGM, some sand, trace gravel, (10Y 4/2) dark olive, non plastic, soft to medium dense, slightly no odor.		
-5 6 7 8 9	5	0.0	moist	FILL		GGM, some sand, trace wood fragments, trace (10Y 6/4) pale olive, non plastic, soft, moist, no	gravel, odor.	
10		0.0	slightly moist	FILL FILL		ASH, (10YR 2/1) black, non plastic, loose to medense, slightly moist, no odor.	/	-S38A-9.5-10.
11—		0.0	saturated to wet	FILL		fine to medium SAND, trace gravel, (10YR 2/2) brown, non plastic, loose, saturated to wet, no call to SAND, trace gravel, (40YR 2/2) was doubt	odor.	
12— 13—	5	0.0	moist saturated to wet	FILL		silty SAND, trace gravel, (10YR 2/2) very dark to plasticity, medium dense, moist, no odor. fine to medium SAND, trace gravel, (10YR 2/2) brown, non plastic, medium dense, saturated to odor.	very dark P4-HAL-	S38A-11.5-12
-14 -15		0.0	saturated to wet moist	FILL PT		silty SAND, trace gravel, (10YR 2/2) very dark to plasticity, medium dense, saturated to wet, no operated (degraded vegetated material), 60% organic fibers, moist, moderate organic organic organic fibers, moist, moderate organic organic fibers, moist, moderate organic fibers, moderate organic fibers, moist, moderate organic fibers, moderate organic	odor. P4-HAL-	S38A-13.5-14 S38A-14.0-14

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Boring ID: P4-HAL-S39A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610870.231

 Date Started Drilling:
 10/7/2014 10:05:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682364.937

Date Finished Drilling: 10/7/2014 10:55:00 AM Core Size: 3.0 in Boring Total Depth: 15 ft

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

epth							
ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
-1 -2	5	0.0	dry	FILL		fine to coarse SAND, little fine to medium gravel, (10YR 7/1) light gray, loose, dry, no odor, green staining.	P4-HAL-S39A-0.5-1.0
-3 -4 -	3						P4-HAL-S39A-2.5-3.(
-5-		0.0	P 1 0			5 1 1 0AND 1911 19 1 (40)/D 7/4)	P4-MAL-539A-4.5-5.0
4			slightly moist	FILL		fine to medium SAND, little medium gravel, (10YR 7/1) light gray, loose, slightly moist, no odor, no staining.	_
-6		0.0	moist	FILL		ASH, little fine to medium sand, little brick, trace debris,	
-7-	5		to wet			(10YR 3/1) very dark gray, loose, moist to wet, no odor, no staining.	P4-HAL-S39A-6.5-7.0
-8-	-						
							P4-HAL-S39A-8.5-9.0
-9							F 4-11AL-339A-0.3-9.0
10		0.0	wet	FILL		fine to medium silty SAND, little fine gravel, trace fibers,	1
11—						(7.5YR 4/6) strong brown, loose, wet, no odor, no staining.	P4-HAL-S39A-10.5-11
\dashv	5						P4-HAL-S39A-12.5-13
13-							P4-HAL-S39A-13.0-13
–		0.0	moist	PT	<u> </u>	PEAT (degraded vegetated material), 60% organic silt,	P4-HAL-S39A-13.5-14
14—					1/ 1/1/ 1	40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, moist, slight organic odor, no staining. Soils	
15		0.0	moist	OL	<u> </u>	consistent with MM. UND organic SILT, 70% organic silt, 30% organic fibers,	
						(10YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	

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Boring ID: P4-HAL-T36A

Page: 1

7-02-30-4-32-00 Office total priorite

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610933.671Date Started Drilling:10/7/2014 8:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682426.402Date Finished Drilling:10/7/2014 9:55:00 AMCore Size:3.0 inBoring Total Depth:20 ft

 Logged By:
 SP
 Project Manager:
 Scott Mikaelian
 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		ASPHALT		ASPHALT	
1		0.0	dry	FILL	\bowtie	COPR, trace gravel, trace fine to medium sand, (5YR	P4-HAL-T36A-0.5-1.0
. ' _		0.0	dry	FILL		3/3) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
-2-	5					ASH, trace glass, trace coal, trace metal fragments, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no	
-3-		0.0	dry	FILL		odor, no staining. GGM, (10Y 6/2) light grayish olive, non plastic, soft, dry, no odor, green staining.	
-4							
		66.0					D4 H41 T204 5.0 5.6
-6-		66.9	wet	FILL		ASH, trace fine to medium sand, trace gravel, trace coal, (10YR 3/1) very dark gray, non plastic, loose to soft, wet, moderate petroleum odor, sheen.	P4-HAL-T36A-5.0-5.5
-		0.3	wet	FILL		GGM, trace gravel, (2.5Y 6/6) olive yellow, non plastic, loose to soft, wet, no odor, green staining.	
-7— - -8—	4	12.0	moist	FILL		ASH, trace wood fragments, trace gravel, (10YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	P4-HAL-T36A-7.0-7.5
-9-				NR		NO RECOVERY	P4-HAL-T36A-9.0-9.5
40							
-10 -		0.0	saturated	FILL		fine to medium silty SAND, trace wood fragments, trace gravel, (10YR 2/2) very dark brown, non plastic, soft,	
-11 - -12	4	0.0	moist	FILL		saturated, no odor, sheen. ASH, trace chrome stained gravel, trace debris, (10Y 6/2) light grayish olive, non plastic, loose, moist, no odor, green staining.	P4-HAL-T36A-11.0-11
-13	·	0.0	moist	FILL		SILT, trace fine sand, trace wood fragments, (10YR 2/1)	P4-HAL-T36A-13.0-13
				NR		black, low plasticity, soft, moist, no odor, no staining. NO RECOVERY	
\dashv				INIX		NO REGOVERT	
-15		0.0	moist	FILL		fine to medium silty SAND, trace wood fragments, (10YR	P4-HAL-T36A-15.0-15
		0.0	moist	FILL		2/1) black, low plasticity, soft, moist, no odor, no staining.	
-16 -						fine to medium SAND, trace gravel, (7.5YR 4/3) brown, non plastic, medium dense, moist, no odor, no staining.	
-17	5						P4-HAL-T36A-17.0-17
_18		0.0	moist	PT	<u> </u>	PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, non plastic,	P4-HAL-T36A-17.5-18
					<u> </u>	medium dense, moist, moderate organic odor, no staining. Soils consistent with MM.	
20					<u> </u>		

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-U33A

Page: 1

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

Drilling Method: Geoprobe Coor

Coordinates (NJSPNAD83) x: 611001.036
Coordinates (NJSPNAD83) y: 682493.676

 Date Started Drilling:
 9/29/2014 9:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83)

 Date Finished Drilling:
 9/29/2014 10:15:00 AM
 Core Size: 3.0 in
 Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

Depth	_						
Range ft bgs)	Recovery (ft/ft)		Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
-1 -2		65.0	dry	FILL		ASH, trace coal, trace gravel, trace wood fragments, (10YR 2/1) black, non plastic, loose, dry, no odor.	P4-HAL-U33A-1.0-1.5
-3 -4	5						P4-HAL-U33A-3.0-3.5
_		1162.0	, , ,	FILL		fine to medium SAND, trace ash, (10YR 2/1) black, non	
-5- - -6		1900.0	saturated to wet	FILL		plastic, loose, dry, slight petroleum odor. CINDERS, trace gravel, trace wood fragments, trace debris, (10YR 5/1) gray, non plastic, loose, saturated to wet, slight petroleum odor, PID readings ranged from	P4-HAL-U33A-5.0-5.5
-7— -8—	5					23.0 ppm to1900.0 ppm; between 5ft and 6ft the max PID reading was 1960.0 ppm.	P4-HAL-U33A-7.0-7.5
-9							P4-HAL-U33A-9.0-9.5
-10 -		3.1	saturated to	FILL		CINDERS, trace gravel, trace debris, trace metals, trace wood fragments, (10YR 5/1) gray, non plastic, loose,	
-11 - -12	5		wet			saturated to wet, no odor.	P4-HAL-U33A-11.0-11
-13							P4-HAL-U33A-13.0-13
-14		3.0	moist	FILL		fine to medium silty SAND, trace wood fragments, trace gravel, (10YR 3/3) dark brown, low plasticity, soft to	
-15 - -16		0.0	moist	FILL		medium dense, moist, no odor. fine to medium silty SAND, (10YR 3/4) dark yellowish brown, low plasticity, medium dense, moist, no odor.	P4-HAL-U33A-15.0-15
							P4-HAL-U33A-16.5-17
-18 	5	0.0	moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (10YR 3/3) dark brown, non plastic, medium dense, moist, moderate organic odor. Soils consistent with MM.	P4-HAL-U33A-17.0-17
-19 -					7/ 1/ 1/		
20					1, 11, 1		

PPG LOGS.GDT - 11/17/14 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick.

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P4-HAL-V30A

732.564.3200 office telephon Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610058.1 Date Started Drilling: 10/8/2014 9:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682561.882 Core Size: 3.0 in Date Finished Drilling: 10/8/2014 10:45:00 AM Boring Total Depth: 20 ft Depth to Water: NA Logged By: SP Project Manager: Scott Mikaelian Physical Location: Halliday (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 **ASPHALT ASPHALT** 0.0 P4-HAL-V30A-2.0-2.5 dry FILL ASH, trace coal, trace gravel, (10YR 2/1) black, non 5 plastic, loose, dry, no odor, no staining. 0.0 FILL dry fine to medium SAND, trace wood fragments, trace 0.0 FILL moist gravel, trace coal, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining. GGM, (10Y 4/4) olive, non plastic, soft, moist, no odor, green staining. 0.0 moist **FILL** GGM, (10Y 4/4) olive, non plastic, soft, moist, no odor, green staining. 5 0.0 P4-HAL-V30A-9.0-9.5 moist **FILL** ASH, trace gravel, trace glass, trace wood fragments, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staini<u>ng.</u> 0.0 saturated **FILL** ASH, some fine to medium sand, trace wood fragments, trace gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, saturated, no odor, no staining. P4-HAL-V30A-11.0-11.5 5 -13 P4-HAL-V30A-13.0-13.5 0.0 saturated FILL fine to medium silty SAND, trace gravel, (10YR 4/2) dark grayish brown, non plastic, soft, saturated, no odor, no staining. 0.0 P4-HAL-V30A-15.0-15.5 **FILL** fine to medium silty SAND, trace gravel, trace organics, moist (10YR 3/3) dark brown, low plasticity, soft to medium saturated dense, moist to saturated, no odor, no staining. -16 P4-HAL-V30A-17.0-17.5 5 P4-HAL-V30A-17.5-18.0 0.0 moist OL UNDorg SILT, 90% organic silt, 10% organic fibers, trace -18 shells, (10YR 3/2) very dark grayish brown, low plasticity, medium dense, moist, moderate organic odor, no staining. Soils consistent with UNDorg. 19 20

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-V31A

Page: 1

/ 32.304.3200 dilice telepione

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611055.815Date Started Drilling:10/3/2014 8:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682537.678

 Date Finished Drilling:
 10/3/2014 9:30:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SP
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: Halliday

Depth	_						
Range ft bgs)	Recovery	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
-1- -		0.0	dry to sl	FILL		fine to medium SAND, little ash, trace gravel, trace coal, (10YR 3/1) very dark gray, non plastic, loose, dry to slightly moist, no odor, no staining.	P4-HAL-V31A-0.5-1.0
-2	5	0.0	moist slightly	FILL		ASH, trace gravel, trace fine to medium sand, trace ceramics, trace glass, trace debris, (10YR 5/1) gray, non	
-3 4	-		moist			plastic, loose, slightly moist, no odor, no staining.	P4-HAL-V31A-2.5-3.0
-5		0.0	moist to	FILL		ASH, trace gravel, trace fine to medium sand, trace debris, trace wood fragments, (10YR 4/1) dark gray, non	P4-HAL-V31A-4.5-5.0
6 7 8	5		wet			plastic, loose, moist to wet, no odor, no staining.	P4-HAL-V31A-6.5-7.0
_9 	-						P4-HAL-V31A-8.5-9.0
-10 - -11 -	-	0.0	moist to wet	FILL		ASH, trace gravel, trace fine to medium sand, trace debis, trace glass, (10YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.	P4-HAL-V31A-10.5-11.
12 13	4	0.0	wet	FILL		fine to medium silty SAND, trace fine to coarse gravel, (10YR 3/4) dark yellowish brown, non plastic, soft, wet, no odor, no staining.	P4-HAL-V31A-12.5-13.
–14 – –				NR	××××	NO RECOVERY	
-15 -		0.0	moist	FILL		fine to medium silty SAND, trace fine to coarse gravel, (10YR 3/6) dark yellowish brown, low plasticity, medium	P4-HAL-V31A-15.0-15. P4-HAL-V31A-15.5-16.
16 17 18 18	5	0.0	slightly moist	OL		dense, moist, no odor, no staining. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 2/2) very dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	P4-HAL-V31A-16.0-16.
19 20							

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-X25A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611189.127

 Date Started Drilling:
 9/29/2014 10:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682667.276

Date Finished Drilling:9/29/2014 11:45:00 AMCore Size:3.0 inBoring Total Depth:15 ft

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

epth							
ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
-1 - -2		0.0	dry moist to wet	FILL		fine to medium SAND, some ash, trace brick, (7.5YR 4/3) brown, loose, dry, no odor, no staining. CINDERS, little fine gravel, trace coal, trace wood fragments, (10YR 4/2) dark grayish brown, loose, moist	P4-HAL-X25A-0.5-1.0
-3 -4	5					to wet, no odor, no staining.	P4-HAL-X25A-2.5-3.0
-5-		0.0	wet	FILL		fine to medium SAND, some ash, trace fine gravel, (7.5YR 4/3) brown, loose, wet, no odor, no staining.	P4-HAL-X25A-4.5-5.0
-7— -8—	5						P4-HAL-X25A-6.5-7.0
9							P4-HAL-X25A-8.5-9.(
10		0.0	moist	FILL		fine to medium SAND, little medium gravel, (7.5YR 4/2) brown, loose, moist, moderate petroleum odor, no	P4-HAL-X25A-10.5-11
11—		25.0	moist	FILL		staining. SILT, little organic fibers, trace wood fragments, (10YR 2/1) black, low plasticity, soft, moist, strong petroluem	
13	5	36.0	saturated	FILL		odor, hydrocarbon staining. fine to medium silty SAND, trace fine to medium gravel, trace organic fibers, (7.5YR 4/2) brown, loose, saturated, strong petroleum odor, sheen.	P4-HAL-X25A-12.5-13
14		0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils	P4-HAL-X25A-13.5-14 P4-HAL-X25A-14.0-14
						consistent with MM.	

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-Z21A

Page: 1

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611290.459 Date Started Drilling: 9/22/2014 8:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682758.699

Date Finished Drilling: 9/22/2014 9:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: SP Project Manager: Scott Mikaelian Physical Location: Halliday

Depth	_						_
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
-1- -2-		0.0	slightly moist	FILL		ASH, trace coal, trace gravel, (10YR 4/1) dark gray, non plastic, loose, slightly moist, no odor.	P4-HAL-Z21A-0.5-1.0
-3 -4	5						P4-HAL-Z21A-2.5-3.0
\dashv							P4-HAL-Z21A-4.5-5.0
-5 -6		0.0	saturated	FILL		ASH, trace coal, trace wood fragments, trace gravel, (10YR 5/1) gray, non plastic, loose, saturated, no odor.	_
-7- -8-	5						P4-HAL-Z21A-6.5-7.0
_ -9							P4-HAL-Z21A-8.5-9.0
-10 -		0.0	saturated	FILL		ASH, trace gravel, trace coal, trace wood fragments, (10YR 5/1) gray, non plastic, loose, saturated, no odor.	P4-HAL-Z21A-10.5-11
-11 - -12	5	0.0	saturated to wet	FILL		fine to medium SAND, trace gravel, trace wood fragments, (5YR 4/4) reddish brown, non plastic, medium dense, saturated to wet, no odor.	
-13 - -14	0						P4-HAL-Z21A-12.5-13
-15 		0.0	saturated	FILL		fine to medium SAND, trace gravel, trace wood	P4-HAL-Z21A-14.5-15
			to wet			fragments, (5YR 4/4) reddish brown, non plastic, medium dense, saturated to wet, no odor.	
							P4-HAL-Z21A-16.5-17
-17 - -18	5	0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 2/2) very dark brown, slightly moist, strong organic odor. Soils consistent with MM.	P4-HAL-Z21A-17.0-17
-19 					<u> </u>		
20					1, 11, 1		

Minimum Mini	Interim Data Submitta	I NO.4		LOG	0	F SC	OIL E	BOR	ING S	SB-42	2				Page 1 of 3
Maries Color Col	PROJECT LOCATION								GROUNI) FI FVAT	ION (FT.	MSL)	PROJEC	T NUMBE	
Processor Common		N.J													
Advanced Drilling Inc.				FOREMAI	N				DATE ST				DATE CO	OMPLETE	
SECON SET Deli Pi gruming 4 25 Anch hollow stem auges						el					17/06				
SEFON SS 6 Phill Pig turning 4.25 inch hollow stem augers 24				riogo: L	-og	<u>. </u>			COMPLE			BGS)	BOCK D		
Topic Patient Patien		4.25-inch hollow-stem augers									(,			
A.O-4.1 FILL: gray/sh brown silt A.1-4.2 FILL: bight green/yellow/gray silly sand, suspected COPR A.2-6.7 FILL: COPR and AMM A.2-6.8 FILL: Corp and AMM				SIZE AND	TY	PE CORE	BARRE	L.	NO. SAM		DIST.	10	UNDIST.		
Submitter 2 to graph Spoon Submitter 2 to graph Spoon Submitter 2 to graph 30° Services Property Submitter Spoon S												4			24HR N/A
Submitter 2 to graph Spoon Submitter 2 to graph Spoon Submitter 2 to graph 30° Services Property Submitter Spoon S	CASING HAMMER WEIG	HT N/A		DROP		N/A			BORING	LOCATIO	N: Easte	rn shoul	der of Ha	alladay S	treet, 213 ft SW from the
DESCRIPTION Part The property Description Description The property Description Descript	<u> </u>														
DESCRIPTION 3				DROP		30"									
DESCRIPTION 3	•		al				San	nples			PID	READI	NGS		
Cleared via hand digging to 4'; boring through asphalt; Fill consisted of flufly ash, with particles resembling shell fragments, some brick fragments -0			Interv		Table					İ					
Cleared via hand digging to 4'; boring through asphalt; Fill consisted of flufly ash, with particles resembling shell fragments, some brick fragments -0	DESCF	RIPTION	nple	Depth	/ater	Number	Recov.		Time	Sample	Ambient		Head	Time	REMARKS
Cleared via hand digging to 4': boring through asphalt: Fill consisted of fluffy ash, with particles resembling shell fragments, some brick fragments 1		-	Sai		>										
6.7-7.2 FILL: COPR 7.2-8.5 FILL: Clinkers, gravel, AM 8.5-9.1 FILL: Gravel and COPR 9.1-10.0 FILL: COPR and AM 7.2-8.5 FILL: Clinkers, gravel, AM 9.1-10.0 FILL: COPR and AM	through asphalt; Fill co with particles resemblir some brick fragments 4.0-4.1 FILL: grayish bit 4.1-4.2 FILL: bright gresand, suspected COPF	nsisted of fluffy ash, and shell fragments, and shell fragments, and shell fragments, and shell fragments.		- 1	XII.	1	2.0	11 17	1048	0.0	0.0	1048	N/A	N/A	No odors this spoon
6.7-7.2 FILL: COPR 7.2-8.5 FILL: Clinkers, gravel, AM - 7 - 24				- 6 -		2	2.0		1054			1054	N/A	N/A	No odors this spoon
7.2-8.5 FILL: Clinkers, gravel, AM - 7 -	6.7-7.2 FILL: COPR					_	0		1004			1004	14/5	13/73	
8.5-9.1 FILL: Gravel and COPR 9.1-10.0 FILL: COPR and AM - 8 -	7.2-8.5 FILL: Clinkers,	gravel, AM		- 7 -											
8.5-9.1 FILL: Gravel and COPR 9.1-10.0 FILL: COPR and AM 10 0.0 0.0 1105 N/A N/A No odors this spoon 10 0.0 0.0 0.0 0.0 0.0 N/A N/A No odors this spoon 10 0.0 0.0 0.0 0.0 0.0 N/A N/A N/A NO odors this spoon 10 0.0 0.0 0.0 0.0 0.0 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A								44		0.0	0.0				
9.1-10.0 FILL: COPR and AM - 9 - 10 0.0 0.0 0.0 10 0.0 0.0 10 1				- 8 -		3	2.0	8	1105	0.0	0.0	1105	N/A	N/A	No odors this spoon
9.1-10.0 FILL: COPR and AM 10 0.0 0.0 0.0	8.5-9.1 FILL: Gravel a	nd COPR						8		0.0	0.0				
	9.1-10.0 FILL: COPR a	and AM		- 9 -				10		0.0	0.0				
				- 10 -				10		0.0	0.0				

Interim Data Subi	mittai No.4		LOG	0	F SC	OIL E	3OR	ING S	SB-42	2			Page 2 of 3 OCT NUMBER 020667601 COMPLETED 11/17/06 DEPTH (FT)				
PROJECT LOCATION								GROUNI	D ELEVAT	ION (FT:	MSL)	PROJEC	T NUMBF	ER			
Halladay Street , Jersey	/ Citv. NJ									.26	,						
DRILLING CONTRACTOR			FOREMAN	۷.				DATE ST				DATE CO	OMPLETE				
Advanced Drilling, Inc.			Roger L		el					7/06							
DRILLING EQUIPMENT			riogo: L	- Ug	<u>. </u>			COMPLE	TION DE		BGS)	BOCK D					
	urning 4.25-inch hollow-stem augers	;							24		,			countered			
	stem auger		SIZE AND	TY	PE CORE	BARRE	EL .	NO. SAN		DIST.	10	UNDIST.		CORE N/A			
CASING N/A				N/	Ά			WATER	DEPTH	FIRST	4	COMPL.	N/A	24HR N/A			
CASING HAMMER	WEIGHT N/A		DROP		N/A			BORING	LOCATIO	N: Easte	rn shoul	der of Ha	alladay S	treet, 213 ft SW from the			
	eter, 2' long split-spoon							i						venue intersection.			
SAMPLER HAMMER	WEIGHT 140 lbs.		DROP		30"			INSPEC		Eric Ga							
-	1					Sar	nples				READI	NGS					
							Penetr.				(PPM)						
DI	ESCRIPTION	Sample Interval	Depth	Vater ⁻	Number	Recov.	Resist.	Time	Sample	Ambient	Time	Head	Time	REMARKS			
	2001111 11011	Sar	(ft bgs)	Μ	Number	(ft)	BL/6in	Time	Campic	Air	Time	Space	Date	TIEND II II O			
	sh and gravel, coal ome greenish color noted		- 10 -		4	1.2	4	1106	0.0	0.0	1106	N/A	N/A	No odors this spoon			
		- 11 -				2		0.0	0.0								
						2		0.0	0.0								
			- 12 -		 5	1.3	2	1110	0.0	0.0	1110	N/A	N/A	Sample SB-42(12.75-			
	eddish brown silty sand, hibiting oil-like odors				3	1.0	2	1110	0.0	0.0	1110	IVA	IV/A	13.25) collected at 1124 for TCL SVOC, TCL			
12.8-14.0 Reddis	h brown (2.5YR4/4) fine to AND (SM), trace clay, no		- 13 -				2		0.0	0.0				VOC, TAL Metals, Total and Amenable CN			
14.0-14.5 Brown f	fibrous PEAT (PT)		- 14 -				2										
	urk greenish gray (GLEY1				6	1.2	2	1117	0.0	0.0	1117	N/A	N/A	Anaerobic odors			
fragments	CLAY (OH), with 10% peat		- 15 -				1		0.0	0.0							
			- 16 -				2										
16.0-18.0 Same a firmer, no peat fra	as above (SAA) becoming agments		- 10 -		7	1.7	2	1120	0.0	0.0	1120	N/A	N/A	Sample SB-42(17.0- 17.5) collected at 1129			
			- 17 -				1		1.0	0.0				for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN			
							2		1.3	0.0							
18.0-23.5 SAA wi	th trace of silt		- 18 -		8	2.0	2 1	1131	0.9	0.0	1131	N/A	N/A				
							1		0.0	0.0							
			- 19 -				1		0.0	0.0							
		- 20 -				1		0.0	0.0								
L				ш							1						



PPG - PPG_LOGS.GDT - 7/23/14 13:34

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: T46AR/ MW2C-SA

Page: 1

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						ct Manager: Chris Martell	Depth to Water: NA	
hysica	I Location	ı: Smit	th Alley					(Note bo	ış = below ground surface)
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and		Sample ID
_		2.7	moist	3	FILL		fine to coarse SAND, little gravel, I wood, trace glass, (7.5YR 4/3) bro	ittle ash, cinders, trace wn, loose, moist, no	133-MW2C-SA-0.5-1.0
-1 -2 -3	5	9.4	moist	3	FILL		odor, no staining. ASH, and cinders, little fine to med slag, trace gravel, (7.5YR 3/1) very slight petroleum odor, no staining.	lium sand, trace coal v dark gray, loose, moist,	133-MW2C-SA-2.5-3.0
- 4 - - 5		420.0	wet	3	FILL		ASH, and cinders, trace brick, trac (7.5YR 4/1) dark gray, loose, wet, odor, no staining.	e coal slag, trace metals, moderate petroleum	133-MW2C-SA-4.5-5.0
Commen	ıts: 1) 3 atte	mpts we	re made to	obtain t	pest recove	ery 2) No Ci	DPR or GGM present in any interval of thi	s borina.	

Appendix I-2

Site 135 North

Boring logs for the remaining sample locations in Site 135 North 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.

ENSR	AECOM	Client: PPG Industries		BORII	
EINSK	AECOM	Site: Site 135	135	5-B1	
Start Da	ate:	Project: Site Investigation		Page: 1 of 3	
12/14/2	006	Coordinates: X-611339.5 Y-682651	.8	Depth of Bori	ng: 32.00
End Dat	te:	Elevation: 11.62		Geologist: P	. Kelly, M. Merdinger
1/4/2007		Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Depth (ft)	Lithology	Description	PID (bbw)	Sample ID	Sample Sample
0_					
	× × FIL	L: Coarse GRAVEL.			
_		L: Dark Brown medium SAND, some Silt and fine avel, little brick fragments and glass.	0.0 ppm	135-B1A (0.5-1.0)	Cr+6, TAL Metals
2—	× × × × × ×				
_		L: Gray and Red-orange ASH and SILT, some fine coarse Gravel, little brick, glass and coal fragments.	0.0 ppm	135-B1B (2.5-3.0)	Cr+6, TAL Metals
		L: Gray to Red-orange fine GRAVEL, coarse ND, little fine gravel-sized Slag.	0.0 ppm	135-B1C (3.3-3.8)	Cr+6, TAL Metals
4	××× SAI	L: Pale Olive (5Y 6/3) SILT and fine to coarse ND, little Clay, angular concrete fragments, 10% PR, lime green staining, wet, loose. No odor. aste Mud)	0.1 ppm 0.1 ppm	135-B1D (4.5-5.0)	MS/MSD, Cr+6, TAL Metals
6—	× × × coa	L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough acrete-like pieces, 10% COPR, trace lime green ining, moist, chalky texture. No odor. (Waste Mud)	0.1 ppm		
	× × NR	: No Recovery	0.1 ppm		
8—	× × coa	L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough	0.9 ppm	135-B1E	Cr+6, TAL Metals
-		ncrete-like pieces, 10% COPR, trace lime green ining, moist, loose, chalky texture. No odor. (Waste d)	0.0 ppm	(8.5-9.5)	
10 —	× ^ × ^ × × × × × × × × ×		0.0 ppm		

ENSR AECOM	Client: PPG Industries		BORIN	
ENSK AECON	Site: Site 135	135-B1		
Start Date:	Project: Site Investigation		Page: 2 of 3	
12/14/2006	Coordinates: X-611339.5 Y-682651	.8	Depth of Bori	ng: 32.00
End Date:	Elevation: 11.62			. Kelly, M. Merdinger
1/4/2007	Drill Subcontractor: Eichelberger/Terra Pro	be Incorporated	Driller: Heath	n Kneller
Depth (ft) Lithology	Description	PID (PPm)	Sample ID	Sample Parameters
- × × × ×		0.0 ppm		
12 - NI	R: No Recovery			
× × FI	LL: Black-stained organic SILT, moist, medium ense. No odor.	0.3 ppm		
	EAT: PEAT (Meadow Mat), Organics, moist, medium ff. Sulfur odor.	22.9 ppm	135-B1F (12.8-13.3)	Cr+6, TAL Metals
14 —		21.9 ppm		
- NI	R: No Recovery			
	EAT: Very Dark Gray (5YR 3/1) organic CLAY, trace ganics, moist, medium stiff. Sulfur odor.	30.6 ppm		
		11.8 ppm	135-B1G (17.0-17.5)	Cr+6, TAL Metals
18 + 44 44		10.8 ppm		
	EAT: PEAT, organic-rich, moist, soft. Sulfur odor.			
- NI	R: No Recovery			
20 - PE	EAT: PEAT, organic-rich, moist, soft. Sulfur odor.	61.4 ppm		
	LT: Gray (5Y 5/1) SILT, some Clay, moist, medium ense. Sulfur odor.	27.6 ppm	135-B1H (20.6-21.1)	Cr+6, TAL Metals
	LT: Gray (5Y 5/1) SILT, trace fine Sand, moist,			

ENICD A ECO	Client: PPG Industries			NG ID:
ENSR AECO	Site: Site 135	13	5-B1	
Start Date:	Project: Site Investigation		Page: 3 of 3	
12/14/2006	Coordinates: X-611339.5 Y-68269	51.8	Depth of Bori	ng: 32.00
End Date:	Elevation: 11.62		Geologist: F	P. Kelly, M. Merdinger
1/4/2007	Drill Subcontractor: Eichelberger/Terra P	robe Incorporated	Driller: Heatl	n Kneller
Depth (tt) Lithology	Description	PID (PPM)	Sample ID	Sample Parameters
	medium dense. Sulfur odor.	28.8 ppm		
-	SILT: Dark Grayish Brown (2.5Y 4/2) SILT, moist, medium dense. Sulfur odor.	10.2 ppm		
24 -	NR: No Recovery SAND: Dark Reddish Gray (5YR 4/2) fine to coarse	10.8 ppm		
	SAND, little Silt, wet, loose. No odor.	0.0 ppm		
26 —		0.0 ppm		
	NR: No Recovery	0.0 ppm		
28 —	SAND: Weak Red (2.5YR 4/2) fine to coarse SAND, trace silt, wet, loose. No odor.	0.0 ppm		
		0.0 ppm		
30 +		0.0 ppm		
-	NR: No Recovery			
32	NULL: End of Boring at 32 ft.			

ENSR AECOM	Client: PPG Industries		BORING ID:
ENSK AECOM	Site: Site 135		135-B18
Start Date:	Project: Site Investigation		Page: 1 of 3
12/13/2006	Coordinates: X-611409.2	Y-682562.0	Depth of Boring: 28.00
End Date:	Elevation: 10.34		Geologist: P. Kelly, M. Merdinger
12/21/2006	Drill Subcontractor: EB/TPI		Driller: Heath Kneller
Depth (ft) Lithology	Description	PID	Sample ID Sample Parameters

××	ASPHALT: ASPHALT			
$\frac{2}{2}$	FILL: Gray coarse GRAVEL.	0.1 ppm	135-B18A (0.6-1.1)	Cr+6, TAL Metals
2	FILL: Black SILT, some medium Sand, little fine Gravel.		(0.5)	
× × × × × × × × × × × × × × × × × × ×	FILL: Light Brown SILT and CLAY, little fine Gravel and woody organics.	1.3 ppm	135-B18B (2.8-3.3)	Cr+6, TAL Metals
4— × × × × × × × × ×	FILL: Gray to Black ASH, some Silt and medium Sand, little woody organics.	2.7 ppm —	135-B18C (4.1-4.6)	Cr+6, TAL Metals
- × × × × × ×	FILL: Reddish Brown (5YR 4/3) SILT, little to trace very fine Sand, trace fine angular pebbles, Fill material, dry, firm. No odor.	0.2 ppm		
6	FILL: Reddish Brown (5YR 4/3) SILT, some very fine to medium Sand, little medium Gravel and Clay, wet, loose to semi-firm. No odor.			
-	NR: No Recovery			
8-	FILL: Reddish Brown (5YR 4/3) fine SAND, little to trace Silt, wet, semi-firm. No odor.	0.1 ppm	135-B18D (8.0-8.5)	Cr+6, TAL Metals
10 —	NR: No Recovery			

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ENGR LEGGIA	Client: PPG Industries		BORI	NG ID:
ENSR AECOM	Site: Site 135		1:	35-B18
Start Date:	Project: Site Investigation		Page: 2 d	of 3
12/13/2006	Depth of	Boring: 28.00		
End Date:	Elevation: 10.34		Geologist	: P. Kelly, M. Merdinger
12/21/2006	Drill Subcontractor: EB/TPI		Driller: H	eath Kneller
Depth (th) Lithology	Description	PID	Sample ID	Sample Parameters
× × × SII × × × × × FII	LL: Brown (7.5 YR 4/3) fine to coarse SAND and LT, little to trace Clay, wet, semi-firm. No odor. LL: Gray COBBLE EAT: PEAT, organics, moist, firm. Sulfur odor.	0.0 ppm 0.4 ppm 144.0 ppm	135-B18E (12.0-13.0) 135-B18F (13.2-13.7)	MS/MSD, Cr+6, TAL Metals Cr+6, TAL Metals
16 —	R: No Recovery EAT: Very Dark Gray (5Y 3/1) organic CLAY, little	146.0		
org	ganics, moist, firm. Sulfur odor. EAT: PEAT, organics, moist, firm. Sulfur odor.	187.0 ppm	135-B18G (16.2-16.7)	Cr+6, TAL Metals
18 — mc	ND: Gray (Gley N5/0) SAND, little Clay, trace Silt, pist, firm. Sulfur odor.	33.6 ppm	135-B18H (17.5-18.0)	Cr+6, TAL Metals
20 - SA	ND: Gray (Gley N5/0) SAND, little Clay, trace Silt,	0.5 ppm		

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ENSR AECO	Client: PPG Industries Site: Site 135			NG ID: 35-B18
Start Date:	Project: Site Investigation		Page: 3 o	of 3
12/13/2006	Coordinates: X-611416 Y-68256	8	Depth of	Boring: 28.00
End Date:	Elevation: 10.34		Geologis	t: P. Kelly, M. Merdinger
12/21/2006	Drill Subcontractor: EB/TPI		Driller: H	leath Kneller
Depth (ft) Lithology	Description	PID	Sample ID	Sample Parameters
	wet, loose. Slight sulfur odor. CLAY: Gray (Gley N5/0) CLAY, little Silt, dry, firm. No odor.) 0.0 ppm		
22-	Juli .	0.0 ppm	135-B18I (21.5-22.0)	Cr+6, TAL Metals
-7-7-7	CLAY AND SAND: Gray (Gley N5/0) SANDY CLAY, wet, semi-firm. No odor. NR: No Recovery			
24	SAND: Gray (Gley N5/0) fine to coarse SAND, trace Silt, wet, loose. No odor.	0.0 ppm		
-		0.0 ppm	135-B18J (25.5-26.0)	Cr+6, TAL Metals
	SAND: Dark Reddish Gray (10R 4/1) fine to medium SAND, trace Silt, wet, loose. No odor.	0.0 ppm	. ,	
' 28	NR: No Recovery NULL: End of Boring at 28 ft.			

ENCD	COM	Client:	PPG Industries					NG ID:
ENSR AE	NSR AECOM Site: Site 135						1:	35-B19
Start Date:		Project:	Site Investigation				Page: 1 d	of 3
12/13/2006		Coordina	tes: X-611417.0 Y-	682651	.9		Depth of	Boring: 32.00
End Date:		Elevation	: 11.11				Geologis	t: P. Kelly, M. Merdinge
1/2/2007		Drill Subc	ontractor: EB/TPI					leath Kneller
Depth (ft) Lithol	100)		Description		PID	59	mple ID	sample sample
0								
	AS	PHALT: ASP	PHALT					
- × :	× FIL	L: Gray fine	COBBLES.					
2		L: Brown coa e Gravel.	arse SAND, some Silt and Clay, I	ittle	0.0 ppm		35-B19A 1.1-1.8)	Cr+6, TAL Metals
×	× FIL	L: Grey fine	COBBLES		1.4 ppm		35-B19B 2.1-2.6)	Cr+6, TAL Metals
×			vn ASH, some fine Gravel, little w y petroleum odor.	voody /				
×	× × FIL	L: Red Brick	pieces				35-B19C 3.3-3.8)	Cr+6, TAL Metals
4- × × × × ×		L: Black-Gra gments.	y ASH, some fine Gravel, little br	rick	0.0 ppm			
- × × × × × × × × × × × × × × × × × × ×	× Fill		rish Brown, (2.5Y 4/2) SILT and Anells, clinkers, wood particles), w		0.0 ppm	13	35-B19D	Cr+6, TAL Metals

(5.1-5.6)FILL: Black and Dark Grayish Brown (2.5Y 4/2) SILTY CLAY, trace coarse Sand and Topsoil, moist, firm. 0.0 ppm NR: No Recovery 0.0 ppm FILL: Dark Grayish Brown (10YR 4/2) SAND CLAY, little Silt, wet, semi-firm. No odor. 0.0 ppm FILL: Black medium SANDY SILT, Fill material, little 135-B19E interbedded Clay, wet, loose. No odor. Cr+6, TAL Metals (9.4-9.9)10 FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, 0.1 ppm trace Clay, moist, semi-firm. No odor. NR: No Recovery **NOTES:** Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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	Client: PPG Industries		BORII	NG ID:
ENSR AECO	Site: Site 135		13	35-B19
Start Date:	Project: Site Investigation		Page: 2 o	f 3
12/13/2006	Coordinates: X-611417.0 Y-68265	+ -	Boring: 32.00	
End Date:	Elevation: 11.11		<u> </u>	: P. Kelly, M. Merdinger
1/2/2007	Drill Subcontractor: EB/TPI		Driller: He	eath Kneller
Debty (41)	Description	PID	_{Sample ID}	Sample Parameters
12 — X X X X X X X X X X X X X X X X X X	FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, race Clay and fine semi-rounded Gravel, wet, loose. PEAT: PEAT, organics, moist, firm. Sulfur odor. NR: No Recovery	0.0 ppm	135-B19F (13.2-13.7)	MS/MSD, Cr+6, TAL Metals
	PEAT: Dark Gray (Gley N4/0) organic CLAY, some organics, moist, firm. Sulfur odor.		135-B19G (17.2-18.2)	Cr+6, TAL Metals
	SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor.		35-B19GD (17.2-18.2)	
- - : : - : : - : - : - : - : - : - : -		389.0 ppm		
	NR: No Recovery			
	SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor.	54.0 ppm	135-B19H (20.2-20.7)	Cr+6, TAL Metals
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SILTY SAND: Gray (5Y 5/1) very fine SILTY SAND, race Clay, moist, semi-firm (native). Slight sulfur odor.	2.1 ppm		

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ENCD AFC	Client: PPG Industries			NG ID:	
ENSR AEC	Site: Site 135		13	35-B19	
Start Date:	Project: Site Investigation		Page: 3 of 3		
12/13/2006	Coordinates: X-611417.0 Y-6826		Boring: 32.00		
End Date:	Elevation: 11.11			: P. Kelly, M. Merdinger	
1/2/2007	Drill Subcontractor: EB/TPI		Driller: H		
(18)	70::		10	10 4015	
Depth (ft) Litholog	Description	PID	Sample ID	eath Kneller Sample Parameters	
22+	CLAYEY SAND: Gray (5Y 6/1) medium to coarse SAND, some to little Clay, trace fine semi-rounded Gravel, moist, firm. Slight naptha odor.	6.6 ppm			
-	NR: No Recovery	0.0 ppm			
24 +	SAND: Dark Gray (10YR 4/1) fine to coarse SAND, trace fine to medium rounded Pebbles, wet, loose to semi-firm. No odor.	0.0 ppm	135-B19I (24.2-24.7)	Cr+6, TAL Metals	
		0.0 ppm			
26 +		0.0 ppm			
	ND No December	0.0 ppm			
28 +	NR: No Recovery	0.0 ppm			
	SAND: Reddish Gray (5YR 5/2) very fine to medium SAND, wet, semi-firm. No odor.		135-B19J (28.2-28.7)	Cr+6, TAL Metals	
	SAND: Reddish Brown (5YR 5/4) very fine SAND, little to trace Silt, wet, semi-firm. No odor.	0.0 ppm			
30+		0.0 ppm			
	NR: No Recovery				
1 32 ⊥ ∟	NULL: End of Boring at 28 ft.				

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2012-09 RA PPG LOGS A.GDT - 9/28/15 11:53

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephon

Boring ID: 135-DD26A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611336.9 Date Started Drilling: 9/16/2015 10:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682559.6

Date Finished Drilling: 9/16/2015 11:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99 (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) CONCRETE A 3 4 CONCRETE, (advanced via starbit, 0.2 void space). 135-DD26A-1.0-1.5 0.0 FILL CINDERS, some metal slag, little fine sand, trace dry ash,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide 0.0 moist FILL ASH, some cinders, little coal fragments, wood 5 fragments, trace fine sand, concrete fragments, (10YR 4/2) dark grayish brown,loose,moist,no odor,iron oxide 135-DD26A-3.0-3.5 staining. 135-DD26A-5.0-5.5 28.1 moist **FILL** ASH, some cinders, little coal fragments, wood fragments (creosote odor),trace fine sand,(10YR 4/2) dark grayish brown,loose,moist,iron oxide staining. 135-DD26A-7.0-7.5 5 36.7 135-DD26A-9.0-9.5 **FILL** ASH, little wood fibers (creosote odors), trace coal fragments,(7.5YR 2.5/1) black,loose,no staining. 0.0 moist **FILL** ASH, some fine to medium gravel, little sand and cinders,trace ceramics,brick fragments,(black wood fibers with creosote odor @ 10.5-11.0),(10YR 4/2) dark 135-DD26A-11.0-11.5 grayish brown,loose,moist,no staining. -13 135-DD26A-13.0-13.5 NO RECOVERY. NR 1.3 135-DD26A-15.0-15.5 **FILL** ASH, some fine to medium gravel, little silt, (wood with wet creosote odor @ 15.5-16.0 feet),(7.5YR 2.5/2) very dark fine to medium SAND,little silt,(trace wood fibers@16.0-16.4), slight mottling,(10YR 5/4) yellowish -16 0.0 FILL moist 135-DD26A-16.3-16.8 135-DD26A-16.8-17.3 2.1 PT moist brown, dense, moist, no odor, no staining. 3 PEAT (degraded vegetated material),(80% organic 11/ fibers, 20% organic silt,) (7.5YR 3/2) dark -18 brown, stiff, moist, moderate organic odor, no staining. NR Soils consistent with MM. NO RECOVERY. 19 20

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 Number: 60314351

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 9/16/2015 9:20:00 AM

Date Finished Drilling: 9/16/2015 10:15:00 AM

Boring ID: 135-EE26A

Page: 1

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

Drilling Method: Direct Push

Rig Type: Geoprobe 7822DT Core Size: 2.0 in

Coordinates (NJSPNAD83) x: 611362.5 Coordinates (NJSPNAD83) y: 682552.2 Boring Total Depth: 20 ft

Depth to Water: 10.5 Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99

Physica	al Location	n: For	rmer Narul	a Property -	Bld 99		to have a body as well as well as a body
						(No	te bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_ -1-				CONCRETE	0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONCRETE, (advanced via starbit, 0.6' of void space).	
-2 - -3	4	0.0	dry	FILL		ASH, some cinders,little coal and wood fragments,trace brick,(brown fine sand lens with gravel @ 1.5-2.0),(7.5YR 2.5/2) very dark brown,loose,dry,no odor,iron oxide staining.	135-EE26A-1.5-2.0 135-EE26A-3.0-3.5
-4				NR		NO RECOVERY.	
-6		0.0	dry	FILL		ASH, some cinders, little coal fragments, wood fragments, trace metal slag, trace fine sand, (10YR 3/4) dark yellowish brown, loose, dry, no odor, iron oxide	135-EE26A-5.0-5.5
		3.2	moist	FILL		staining. ASH,some fine to medium gravel, little cinders and	
-7 - -8	5					wood,trace brick fragments, (7.5YR 2.5/2) very dark brown,loose,moist,no odor,no staining.	135-EE26A-7.0-7.5
-9							135-EE26A-9.0-9.5
10 <u> </u>		1.3	moist	FILL		ASH, some cinders,little fine sand,trace wood,coarse gravel,(7.5YR 2.5/1) black,loose,moist to wet,no odor,no staining DTW @ 10.5'.	
-12 -13	4						135-EE26A-11.0-11.5
-							100 2220/ 10.0 10.0
14—				NR	XXXXX	NO RECOVERY.	-
15 -		0.0	wet	FILL		fine to medium SAND, (black ash,cinders and fine to medium gravel lens @ 15.0-15.3), slight mottling, (2.5YR	135-EE26A-15.0-15.5
16						4/1) dark reddish gray, loose, wet,no odor, no staining.	135-EE26A-15.9-16.4
-17 -10	3	2.3	moist	PT	<u> </u>	PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 2.5/3) very dark brown, stiff, moist,moderate organic odor,no staining. Soils consistent with MM.	135-EE26A-16.4-16.9
-18 — — -19 — —				NR		NO RECOVERY.	
20							
mmer	า เร: 1) 3 atte	mpts we	ere made to	optain best reco	overy 2) MM	1/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any	rinterval of this boring.



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-FF23A

Page: 1

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

Drilling Method: Direct Push

Project Number: 60314351 Coordinates (NJSPNAD83) x: 611436.2 Date Started Drilling: 9/14/2015 8:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682607.6

Date Finished Drilling: 9/14/2015 9:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: LM Depth to Water: 6.4 Project Manager: Scott Mikaelian

Depth	Recovery	PID	Moisture		Graphic		Sample
Range ft bgs)	(ft/ft)	(ppm)		USCS	Log	Surface Cover and Thickness:	ID
		0.0	dry	ASPHALT	XXXX	ASPHALT.	
_		0.0		FILL		Subbase Gravel, (Trap Rock).	
-1]	0.0	dry	FILL		CINDERS,some brick,fine to medium gravel,(trace red	135-FF23A-1.0-1.5
_]	0.0	moist	FILL		fine sands thourghout),(10YR 3/3) dark brown,dry,no	
-2	4					\odor,no staining. fine to medium sand,some ash,wood fragments,(10YR	
_						2/1) black,moist,slight hydrocarbon odor,hydrocarbon	
-3	1					staining.	135-FF23A-3.0-3.5
-4	-			NR	XXXXX	NO RECOVERY.	
_	-						
-5-		10.2	moist	FILL		fine to medium SAND,some cinders and ash,(trace slag	135-FF23A-5.0-5.5
						and tar-like material @5.0-6.5), (10YR 2/1) black,	
6						moist, slight naphthalene odor, hydrocarbon staining,	
		0.0	moist	FILL		DTW @ 6.4'. SILT, and ash, some fine to medium gravel,(10YR 4/3)	
_7 <u></u>		0.0	moist	FILL		brown.moist.no odor.no staining.	135-FF23A-7.0-7.5
_	5	0.0	IIIOISt	I ILL		SILT, some fine to medium sand, little fine to medium	
—8 —	-					gravel,(5YR 3/2) dark reddish brown,moist,no odor,no staining.	
	-					Stalling.	
<u> </u>							135-FF23A-9.0-9.5
	-						133-11 23/4-3.0-3.3
10		0.0				0117 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		0.0	moist	FILL		SILT,some fine sand,medium to coarse gravel,(5YR 4/3) reddish brown,moist,no odor,no staining.	
11	-					redustr brown,moist,no odor,no staining.	135-FF23A-11.0-11.5
							135-FF23A-11.5-12.0
 12		0.0		DT	<u> </u>	DEAT ()	135-FF23A-12.0-12.5
	4	0.0	moist	PT		PEAT (degraded vegetated material), (80% organic fibers 20% organic silt)(7.5YR 4/2) brown,moist,moderate	133-FF23A-12.0-12.3
 13					1/ 1/1/ 1	organic odor,no staining. Soils consistent with MM.	
					<u> </u>		
-14					7 77 7		
- ' -				NR		NO RECOVERY.	
15							
		0.0	moist	OL	-	UNDorg SILT(90 % organic silt, 10% organic fibers),(7.5YR 4/2) brown,moist,slight organic odor,no	
16						staining. Soils consistent with UNDorg.	
						5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5.	
17]						
_ '' _	5				[]		
12]				<u> </u>		
_ 10 _]						
- 19]						
18] [0.0	moist	SM		fine to medium SAND, little silt, trace clay, organic fibers,	
20						(7.5YR 6/1) gray,moist, slight organic odor,no staining. — Soils consistent with UNDno.	
20						CONC CONSISTENT WITH CIVIDIO.	
					1		



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-FF24A

Page: 1

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

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611417.5

Date Started Drilling: 9/14/2015 9:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682586.1

Date Finished Drilling:9/14/2015 10:20:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:LMProject Manager:Scott MikaelianDepth to Water:6.4

epth		5.5					
ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1		0.0	dry	ASPHALT		ASPHALT, and subbase gravel(Trap Rock) with trace ashpalt fragments.	
-2 -	4	0.0	moist	FILL		ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining.	135-FF24A-1.2-1.7
-3							135-FF24A-3.0-3.5
-4				NR		NO RECOVERY.	
-5		0.0	moist	FILL		ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining.	135-FF24A-5.0-5.5
6-		0.0	moist	FILL		fine to medium SAND,some medium to coarse gravel,little black staining,(10YR 2/2) very dark	
-7 -8	5	0.0	moist	FILL		brown,moist,no odor, DTW @ 6.4'. fine to medium SAND,some silt,fine to medium gravel,slight black staining,(10YR 5/3) brown,moist,no odor.	135-FF24A-7.0-7.5
-9							135-FF24A-9.0-9.5
10		0.0	moist	FILL		fine to medium SAND,trace concrete,(2.5YR 3/3) dark reddish brown,moist,no odor,no staining.	
-11 - -12	4	0.0	saturated	FILL		fine SAND and coarse gravel, some silt, (2.5YR 3/3) dark reddish brown, saturated, no odor, no staining.	135-FF24A-11.0-11.5
13-		1.1	moist	OL		UNDorg SILT,(80% organic silt,20% organic fibers), (10YR 4/3) brown, moist,moderate organic odor,no	135-FF24A-12.8-13.3 135-FF24A-13.3-13.8
14-				NR		staining.Soils consistent with UNDorg. NO RECOVERY.	133-FF24A-13.3-13.0
-15				INIX		NO RECOVERT.	
16		1.2	moist	OL		UNDorg SILT, (90 % organic silt, 10% organic fibers), (10YR 4/3) brown,moist,no odor,no staining. Soils consistent with UNDorg.	
17—	5						
18 —							
19— — 20—		0.0	moist	SM		fine SAND, (10YR 6/1) gray,moist,no odor,no staining. Soils consistent with UNDno.	



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-BB25A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611298.625
Date Started Drilling: 5/23/2013 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682613.1875
Date Finished Drilling: 6/21/2013 9:40:00 AM	Core Size: 3 in	Boring Total Depth: 15.8 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - BB25A		

Depth Range (ft bgs)	Blow Counts (N-Value)	Recovery (ft)	PID (ppm)	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
- –		1.9	0.0	FILL		medium to coarse silty SAND, with crushed asphalt and fine gravel, (7.5YR 2.5/1) black, non plastic loose, dry, no odor, no staining.	
			0.0	FILL		fine to medium SAND, and silt with fill material, (7.5YR 3/4) dark brown, non plastic, loose, dry to slightly moist,	135-P3C-BB25A-1.0-1
– 2 –		1.8	0.0	NR FILL FILL	-	no odor, no staining. NO RECOVERY fine to medium SAND, and silt with fill material, (7.5YR	
- 3 		1.0	0.0	FILL		\ \sqrt{3/4} dark brown, non plastic, loose, dry to slightly moist, \ \sqrt{no odor, no staining, trace glass fragments.}	135-P3C-BB25A-3.0-3
- 4 			0.0	NR FILL		fine SAND, with silt trace fine gravel, (10YR 3/2) very dark grayish brown, non plastic, soft to loose, moist, no odor, no staining, some ash and cinders.	
- 5 - -		1.6				medium SAND, little silt and ceramics, (10YR 3/4) dark yellowish brown, non plastic, loose, dry to moist, no odor, no staining, some ash and coal.	135-P3C-BB25A-5.0-5
- 6 -			0.0	NR FILL		NO RECOVERY fine to medium SAND, with ash and fine to medium	
- 7 -		1.5		ND		gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet, no odor, no staining, some coal and cinder fragments.	135-P3C-BB25A-7.0-7
- 8 -			0.0	NR FILL		NO RECOVERY fine to medium SAND, with brick and fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose,	
- 9 -		1.5				wet, no odor, no staining, some fill material and ceramics.	135-P3C-BB25A-8.8-9 135-P3C-BB25A-9.0-9
- 10			0.0	NR FILL		medium to coarse SAND, with ash and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist to wet, no odor, no staining.	
– 11 – –		8.0		NR		NO RECOVERY fine to medium silty SAND, with ash and fill material, (7.5YR 2.5/1) black, non plastic, soft, moist to wet, no	135-P3C-BB25A-10.8-1
– 12 — –			0.0	FILL PT		\langle \text{\capacity} \capacity	135-P3C-BB25A-12.0-1 135-P3C-BB25A-12.5-1
– 13 — –		1.5			1, 11,	\sand, (7.5YR 2.5/1) black, non plastic, loose, wet, no _\odor, no staining.	135-P3C-BB25A-12.8-1
– 14 – –		1.8		NR PT	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	PEAT (degraded vegetated material), with 80% organic fibers and 20% orgainc silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no	
– 15 – –		1.0			<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	\staining. Soils consistent with MM. \NO RECOVERY PEAT (degraded vegetated material), with 80% organic	135-P3C-BB25A-14.8-1 135-P3C-BB25A-15.3-1
						fibers and 20% orgainc silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	
						ctaming. Como concione with with	
	: 1) 3 attempts w						

Boring ID: 135-P3C-CC22A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1

	<u>t Name: ⊦</u> t Number:		arfield Ave			Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPN	AD83) v: 611364 7	
				1:00:00 PM		Rig Type:	Coordinates (NJSPNAD83) y: 682680.1		
				3 10:45:00 AM		Core Size: 3 in		Boring Total Depth: 16 ft	
	d By: EW					Project Manager: Chris Martell	Depth to Water: NA		
Physic	al Locatio	n: Na	rula Prope	rty			ļ .		
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID	
		0.0	dry	ASPHALT		ASPHALT, weathered, and sub-base, (non plastic, dense, dry.	(10YR 2/1) black,		
—1— - –	2	0.0	slightly moist	FILL		fine to medium silty SAND, some grave trace brick, (7.5YR 3/2) dark brown, no dense, slightly moist		135-P3C-CC22A-1.0-1.5	
2		0.0	slightly	FILL		fine to medium silty SAND, some grave	el, litte coal, trace		
	1 , 1	0.0	moist dry	FILL		cinders, (10YR 2/2) very dark brown, n slightly moist.	on plastic, loose,		
-3	2	0.0	·	FUL		SILT, trace fine sand, (10YR 5/4) yellow plastic, loose, dry.	wish brown, non	135-P3C-CC22A-3.0-3.5	
		0.0	moist	FILL	\bowtie	ASH, some cinders, little coal, (10YR 4	/1) dark gray, non		
4 	4.0	0.0	wet	FILL		plastic, loose, moist. ASH, some cinders, little coal, little gradark gray, non plastic, loose, wet.		135-P3C-CC22A-4.0-4.5	
5- 	1.8							135-P3C-CC22A-5.0-5.5	
6 7	2	0.0	wet	NR FILL		NO RECOVERY ASH, some cinders, little coal, little graceramics, (10YR 4/1) dark gray, non pl		135-P3C-CC22A-6.0-6.5	
8					\bowtie			135-P3C-CC22A-8.0-8.5	
- – 9	1.8	0.0	wet	FILL		ASH, some cinders, little gravel, trace dark gray, non plastic, loose, wet.	Drick, (10YR 4/1)	133-F30-0022A-6.0-6.3	
10 11	1.8	0.0	wet	NR FILL		NO RECOVERY ASH, some cinders, little gravel, little c cardboard, (10YR 4/1) dark gray, non p	plastic, loose, wet.	135-P3C-CC22A-10.0-10.5	
_	-	0.0	moist	FILL		SILT, some organics, little cinders, (10 medium plasticity, soft, moist, slight bu			
12		0.0	moist	NR		NO RECOVERY		135-P3C-CC22A-12.0-12.5	
	-	0.0	moist	FILL FILL		SILT, some organics, little gravel, (10Y) medium plasticity, soft, moist, slight bu		135-P3C-CC22A-12.5-13.0	
—13— - – —14— - –	4	2.1	moist	PT		very fine SAND, little silt, (2.5Y 3/3) da plastic, loose, moist to wet, slight burnt PEAT (degraded vegetated material), fibers, 20% organic silt, (10YR 4/3) bro loose, moist, moderate sulfur odor. Soi	rk olive brown, non codor. 80% organic wn, non plastic,	135-P3C-CC22A-13.0-13.5	
—15— - —					<u> </u>	IVIIVI.			
<u>иМ - те</u>	low surface of eadow mat : 1) 3 attempts w		GGM - gree			idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native deposi 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this b	ts CCPW - chro	actured gas plant mate chemical production wa	

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-CC25A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611328.5

 Date Started Drilling:
 9/21/2013 12:30:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682594.6

 Date Finished Drilling:
 9/21/2013 3:00:00 PM
 Core Size: 3 in
 Boring Total Depth:
 21 ft

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

ogged By:		. Non	ıla Dranart	.,		Proj	ect Manager: Chris Martell	Depth to Water: NA	
Physical Lo	ocation	: marc	на Ргореп	у				(Note bg	s = below ground surface)
	covery ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
 - 1		0.0		1 C	ONCRET		CONCRETE, (.5in of void)		
		0.0	dry	4B	FILL		fine to medium SAND, some cinder	s, coal, little fine to	-
-2- -3-	3.5	0.0	dry	3	FILL		medium gravel, trace COPR, (5YR non plastic, loose, dry, no odor, no ASH, some cinders, coal, little wood (10YR 5/2) grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish g	staining. d fragments, brick,	135-P3C-CC25A-3.0-3
-4 5				NR	NR		\no staining. NO RECOVERY	/	
- 6 		0.0	dry wet	3	FILL FILL		ASH, some cinders, coal, little wood coarse gravel, (10YR 5/2) grayish by dry, no odor, no staining. CINDERS, with ash, some coal, wo coarse gravel, (7.5YR 2.5/1) black,	prown, non plastic, loose, ood fragments, little	135-P3C-CC25A-5.0-5
- 7	5						no odor, no staining.		135-P3C-CC25A-7.0-7
-10 - -11 - 		0.0	wet	3	FILL		fine to medium silty CINDERS, with fragments, little coarse gravel, (7.5' plastic, loose, wet, no odor, no stair	YR 2.5/1) black, non	135-P3C-CC25A-11.0-
12	5								135-P3C-CC25A-13.0-
-15 - -16 -		0.0	dry	3	FILL		ASH, some cinders, coal, little wood coarse gravel, ceramics, (7.5YR 2.1 loose, dry, no odor, no staining.	d fragments, brick, 5/1) black, non plastic,	135-P3C-CC25A-15.0-
-17 - -18 - -19	5								135-P3C-CC25A-17.0-
20	1	0.0	dry	3	FILL		ASH, some cinders, coal, little wood	d fragments, brick,	133-1 30-0023A-19.0-
-21							coarse gravel, ceramics, (7.5YR 2.5 loose, dry, no odor, no staining.	6/1) black, non plastic,	
Comments:									

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-DD22A

	Name: P					rilling Company: SGS North America		NADQ2) v. 611207.000		
	Number:			1:50:00 AM		illing Method: Geoprobe g Type:		Coordinates (NJSPNAD83) x: 611387.008 Coordinates (NJSPNAD83) y: 682666.7554		
				12:27:00 PM		g Type: ore Size: 2 in	Boring Total Depth:			
	By: A.B			12.21.00 FIVI		oject Manager: Scott Mikaelian	Depth to Water: N			
	I Location					Ojou manager. Ocott minacilan	Deptil to Water. 10			
th.										
ge	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Th	nickness:	Sample ID		
gs)	` ′				ŭ					
4		0.0		ASPHALT		ASPHALT				
_		0.0	moist to	FILL		fine to medium silty SAND, some gra concrete, little cinders, (10YR 3/3) da		405 DOO DDOOM 4 0 4 5		
\perp			wet			dense, moist to wet.	ark brown, non plastic,	135-P3C-DD22A-1.0-1.5		
_										
	5									
								135-P3C-DD22A-3.0-3.5		
		0.0	wet	FILL		fine to medium SAND, some ash, littl (10YR 3/2) very dark grayish brown,		135-P3C-DD22A-5.0-5.5		
						(101R 3/2) very dark grayish brown, dense, wet.	non piasuc, medium			
						•				
								405		
┙	5							135-P3C-DD22A-7.0-7.5		
								135-P3C-DD22A-9.0-9.5		
\perp										
		0.0	wet	FILL		fine to medium silty SAND, some cin- gravel, trace ceramics, (10YR 3/2) ve	ders, some ash, little			
_						non plastic, medium dense, wet.	ory dark grayion brown,	125 D20 DD204 44 0 44 5		
\perp								135-P3C-DD22A-11.0-11.5		
_										
4	5									
_								135-P3C-DD22A-13.0-13.5		
4		0.0		-v ·		5 W CAND III		133-130-DD22A-13.0-13.5		
\vdash		0.0	wet	FILL		fine silty SAND, little ash, (10YR 4/3) medium dense, wet.	prown, non plastic,			
4								135-P3C-DD22A-14.3-14.8		
;		0.0	moist	PT	<u> </u>	PEAT (degraded vegetated material),		135-P3C-DD22A-14.8-15.3		
\dashv	ĵ	0.0			<u> </u>	20% organic silt, (10YR 3/3) dark bromedium dense, moist, strong sulfur of	own, medium plasticity,			
-					<u> </u>	with MM.	JUUI. JUIIS CUITSISTEITE			
\dashv					<u> </u>					
-					<u> </u>					
\dashv	5				<u> </u>					
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) -					 					
s:										
			00DD -b-	:4	anding rani	due UNDno - non-organic undisturbed nati	i in denseite MOD	ufactured gas plant		

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/20/16 16:57

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-DD23A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611383

Rig Type: Coordinates (NJSPNAD83) y: 682629

 Date Started Drilling:
 9/21/2013 10:20:00 AM
 Rig Type:
 Coordinates (NJSPNAD83)

 Date Finished Drilling:
 9/21/2013 11:25:00 AM
 Core Size: 3 in
 Boring Total Depth: 20 ft

 Logged By:
 Project Manager:
 Chric Martell
 Depth to Water:

Logged By: B.Karas Project Manager: Chris Martell Depth to Water: NA

Depth					l								
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:		Sample ID					
-				CONCRETE	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CONCRETE							
-1 - -2 -	4		dry	FILL		fine to medium silty SAND, some cinders, trac brick, glass, (7.5YR 3/2) dark brown, non plas loose, dry, no odor, no staining.	e ash, gravel, tic, soft to	135-P3C-DD23A-1.0-1.5					
-3 -4								135-P3C-DD23A-3.0-3.5					
_			dry	FILL		fine to medium silty SAND, some glass, trace gravel, trace ash, cinders, brick, wood fragmer	nts, (7.5YR						
-5— - -6— -	4					3/4) dark brown, non plastic, soft to loose, dry staining.	, no odor, no	135-P3C-DD23A-5.0-5.5					
-7— - -8—								135-P3C-DD23A-7.0-7.9					
			wet	FILL		fine to medium SAND, with cinders, trace ash 4/2) dark grayish brown, non plastic, loose, we no odor, no staining.	, soot, (10YR et to saturated,						
-9 - -10	4					no odor, no staining.		135-P3C-DD23A-9.0-9.					
-11 - -12							135-P3C-DD23A-11.0-11						
-13			wet	FILL		fine to medium SAND, with cinders, trace ash miscellaneous fill material, trace fine to coarse 4/1) dark gray, non plastic, loose, wet to satura	gravel, (10YR						
-14 -14 -	4										petroleum odor, no staining.	acca, siigin	135-P3C-DD23A-13.0-13
-15 - -16								135-P3C-DD23A-15.0-15					
-17			slightly moist	FILL		fine to medium SAND, with cinders, some coaglass, fine to medium gravel, (10YR 3/1) very plastic, loose, slightly moist to moist, slight pet	dark gray, non						
-	4		slightly moist	FILL		no staining. SILT, trace sand, (10YR 3/4) dark yellowish bi	rown, low	135-P3C-DD23A-17.0-17					
-18 - -	7		dry	PT		plasticity, soft, slightly moist to slightly moist, r staining. PEAT (degraded vegetated material), 80% org	_	135-P3C-DD23A-18.0-18 135-P3C-DD23A-18.5-19					
-19 - -20			-		<u> </u>	20% organic silt, (7.5YR 2.5/3) very dark brow stiff, dry strong organic odor, no staining. Soil with MM.	n, non plastic,						



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-DD25A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611355.9

 Date Started Drilling:
 8/24/2013 1:00:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682602.1

 Date Finished Drilling:
 8/24/2013 3:00:00 PM
 Core Size:
 3 in
 Boring Total Depth:
 20 ft

 Logged By:
 EW
 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	4 4 4 4	CONCRETE	
-1 - -2		0.0	dry	FILL		fine to medium SAND, with fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry to slightly moist.	135-P3C-DD25A-0.5-1.0
-3	5						135-P3C-DD25A-2.5-3.
-5		0.0	dry	FILL		fine to medium SAND, with fine gravel, (7.5YR 2.5/3)	135-P3C-DD25A-4.0-4.
-		0.0	uly	1166		very dark brown, non plastic, loose, dry to slightly moist.	
-6 - -7	5						135-P3C-DD25A-6.0-6.
-8 -9							135-P3C-DD25A-8.0-8.
-10 - -11		0.0	wet	FILL		medium to coarse SAND, with fine gravel, trace silt, (7.5YR 2.5/2) very dark brown, non plastic, loose to hard, wet, no odor, no staining.	135-P3C-DD25A-10.0-10
-12 -13 -14	4.5						135-P3C-DD25A-12.0-1
· ·							135-P3C-DD25A-14.0-14
15		0.0		NR		NO RECOVERY	
-		0.0	moist	FILL		medium to coarse SAND, with fine gravel, little silt, (7.5YR 2.5/3) very dark brown, non plastic, loose, moist	
16—						to wet, no odor, no staining.	135-P3C-DD25A-16.0-1
-17	_						
\dashv	5						
-18							135-P3C-DD25A-18.0-1
10		0.0	moist	FILL		SILT, with fine sand, (7.5YR 4/2) brown, non plastic, soft,	135-P3C-DD25A-18.5-1
19—		1.4	moist	PT	<u>\(\frac{1}{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(</u>	moist, no odor, no staining. PEAT (degraded vegetated material), with 80% organic	135-P3C-DD25A-19.0-1
20					<u> </u>	fibers, and 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	

Boring ID: 135-P3C-DD25AR

Page: 1

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611350.645 Date Started Drilling: 3/21/2014 10:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682586.391

Date Finished Drilling: 3/21/2014 11:15:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: MI Project Manager: Chris Martell

Depth							
Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				CONCRETE	A A A	CONCRETE	
-1-							
					A A A A		
-2-	5						135-P3C-DD25AR-2.0-2.5
3	Ū				4444		
-							
-4-							135-P3C-DD25AR-4.0-4.
5		0.0	dry	FILL		fine to medium silty SAND, little coal, ash, cinders, (10YR	
-6-			to slight			5/6) yellowish brown, loose to dense, dry to slightly moist, no odor, no staining.	135-P3C-DD25AR-6.0-6.
			moist				133-F3C-DD23AR-0.0-0.
-7-	4	0.0	dry	FILL		ASH, some cinders, coal, trace wood fragments, fine sand,	
- 8	7		to slight			(7.5YR 7/1) light gray, loose, dry to slightly moist, no odor, no staining.	
-			moist			no stanning.	135-P3C-DD25AR-8.0-8.
9				NR		NO RECOVERY	
				1414		NO REGOVERN	
_10		0.0	dry	FILL		ASH, some cinders, coal, trace wood fragments, fine sand,	135-P3C-DD25AR-10.0-10
11			to slight			silt, (7.5YR 7/1) light gray, loose, dry to slightly moist, no odor, no staining.	
			moist				
-12-	5						135-P3C-DD25AR-12.0-12
 13	3						
- '3 -							
14							135-P3C-DD25AR-14.0-14
+							100 1 00 2220, 11 1 110 1 1
15		0.0	moist	FILL		SILT, some cinders, coal, ash, trace wood fragments, fine	135-P3C-DD25AR-15.0-15
-16-		0.0	slightly moist	PT	<u> </u>	sand, (7.5YR 7/1) light gray, (10YR 4/2) dark grayish brown, /soft, moist, no odor, no staining.	135-P3C-DD25AR-15.5-16
			moiot		71/ 71/ 7 / 71/ 71	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, stiff, slightly	
17	2			NR		moist, strong organic odor, no staining. Soils consistent with	
 18	2					\MM. NO RECOVERY	
- " -							
—19—							
-20 -							
				1	I		

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/4/2014 9:26:00 AM

Boring ID: 135-P3C-EE23A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611404.2948

Rig Type: Coordinates (NJSPNAD83) y: 682626.445

Date Finished Drilling: 3/4/2014 10:16:00 AM Core Size: 2 in Boring Total Depth: 15 ft

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

 Physical Location:
 Narula Property

Depth D							
Janga Kt	ecovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		FILL		ASPHALT	
-1 - -2	5	0.0	sl. moist to moist	FILL		fine to medium silty SAND, some gravel, some fill material, (5YR 3/2) dark reddish brown, non plastic, medium dense, slightly moist to moist.	135-P3C-EE23A-1.0-1.
-3	_	0.0	maint	FILL		ASIL come sinders little group little brick (10VD 2/1)	135-P3C-EE23A-3.0-3.
-		0.0	moist to	FILL		ASH, some cinders, little gravel, little brick, (10YR 2/1) black, non plastic, medium dense, moist to wet.	
-5 - -6		0.0	wet wet	FILL		ASH, some cinders, little fill material, (10YR 2/1) black, non plastic, medium dense, wet.	135-P3C-EE23A-5.0-5.
-7— - -8— -	5						135-P3C-EE23A-7.0-7
-9 -10		0.0	moist	FILL		SILT, some ash, little cinders, little roots, (10YR 2/1) black, low plasticity, soft, moist.	135-P3C-EE23A-9.0-9
-11		0.0	moist to wet	FILL		SILT, some ash, some cinders, little roots, (10YR 3/2) very dark grayish brown, low plasticity, soft, moist to wet.	135-P3C-EE23A-11.0-1
-12	5	0.0	moist	PT	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	PEAT (degraded vegetated material), 20% organic fibers, 80% organic silt, some clay, (7.5YR 3/2) dark brown, high plasticity, soft, moist.	135-P3C-EE23A-11.5-1
-13		0.0	moist to wet	SM		fine to medium silty SAND, little gravel, (7.5YR 4/2) brown, non plastic, medium dense, moist to wet.	
-14 - -15		4.0	moist	PT	<u> </u>	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium dense, moist, slight sulfur odor.	

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 9/21/2013 9:30:00 AM

Boring ID: 135-P3C-EE24A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611382.2 Rig Type: Coordinates (NJSPNAD83) y: 682582.1

Date Finished Drilling: 9/21/2013 12:00:00 PM Boring Total Depth: 20 ft Core Size: 3 in Depth to Water: NA Logged By: A. Bogucki Project Manager: Scott Mikaelian

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	3.5	0.0		CONCRETE	P 4 4 P	CONCRETE	
-1-							
_ -2-		0.0	slightly moist	FILL	P 5 4 P	fine to medium SAND, some cinders trace brick, (10YR 5/2) grayish brown, non plastic loose, slightly moist no	
-3		0.0	dry	FILL		odor no staining fine to medium SAND, some cinders little ash, (7.5YR 2.5/1) black, non plastic loose, dry no odor no staining	135-P3C-EE24A-3.0-3.5
-4		0.0		FILL		NO RECOVERY	
-5 	5	0.0	moist	FILL		fine to medium SAND, with cinders, some coal slag little wood fragments, trace glass, (7.5YR 2.5/3) very dark brown, non plastic loose, moist no odor no staining	135-P3C-EE24A-5.0-5.5
		0.0		FILL		fine to medium silty SAND, some cinders little ash,fine gravel, trace wood fragments, (7.5YR 3/1) very dark gray	
-7- -8- -							135-P3C-EE24A-7.0-7.5
-9							135-P3C-EE24A-9.0-9.5
-10 - -11	5	5 0.0 slightly moist FILL ASH, some cinders,coal little wood fragments, ceramics, trace coarse gravel, (7.5YR 4/1) dark gray, non plastic loose, slightly moist no odor no staining	135-P3C-EE24A-11.0-11.5				
		0.0	moist	FILL		fine silty SAND, little fine gravel trace roots, (7.5YR 3/2) dark brown, non plastic loose to dense, moist no odor no staining	
							135-P3C-EE24A-13.0-13.5
-15 - -16	4	0.0	dry	FILL		CINDERS, some coal little fine gravel, trace silt, (7.5YR 2.5/1) black, non plastic hard, dry no odor no staining	135-P3C-EE24A-15.0-15.5
-17		0.0	moist	FILL		SILT, some fine sand trace roots, (10YR 5/2) grayish	135-P3C-EE24A-16.8-17.3
-18 -		2.3	dry	PT	\(\frac{\lambda \text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\text{\tint{\text{\tint{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\tint{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\text{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\til\tint{\text{\tint{\tint{\text{\tinit{\tinit{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiit{\tiin}\tinit{\tiint{\tiit}\tinit{\tiin}\tiin}\tint{\tiin}\tint{\tiin}\tiin}\tint{\tiin}\t	brown, low plasticity soft, moist no odor no staining PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, non plastic stiff, dry strong petroleum odor no staining. Soils consistent with MM.	135-P3C-EE24A-17.3-17.8
-19 -		2.3		PT	<u></u>	NO RECOVERY	
-20					<u> </u>		

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Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/4/2014 10:20:00 AM

Boring ID: 135-P3C-EE24AR

Page: 1

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

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 611390.7882

 Coordinates (NJSPNAD83) y:
 682599.6855

Date Finished Drilling: 3/4/2014 10:21:00 AM Core Size: 2 in

Boring Total Depth: 20 ft

Logged By: A. Bogucki Project Manager: Chris Martell Depth to Water: NA

Rig Type:

Physical Location: Narula Property (Note bgs = below ground surface) Depth Recovery PID Moisture GA Graphic Sample Range **USCS** Surface Cover and Thickness: Class (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 dry 3 FILL fine to medium SAND, some gravel, little silt, little fill to material, (7.5YR 4/2) brown, non plastic, medium dense, moist 135-P3C-EE24AR-1.0-1.5 5 135-P3C-EE24AR-3.0-3.5 0.0 moist 3 FILL fine to medium silty SAND, some gravel, (10YR 4/3) brown, non plastic, medium dense, moist to wet. to wet 0.0 135-P3C-EE24AR-5.0-5.5 CINDERS, some ash, (10YR 3/1) very dark gray, non 3 FILL wet plastic, dense, wet. 135-P3C-EE24AR-7.0-7.5 5 135-P3C-EE24AR-9.0-9.5 0.0 3 FILL CINDERS, some ash, little gravel, (10YR 3/2) very dark grayish brown, non plastic, dense, wet. 135-P3C-EE24AR-11.0-11.5 5 0.0 135-P3C-EE24AR-13.0-13.5 FILL SILT, little ash, little clay, little roots, (10YR 3/2) very dark moist 3 grayish brown, medium plasticity, soft, moist 0.0 3 FILL moist SILT, some sand, little roots, little clay, (7.5YR 2.5/3) very 0.0 3 **FILL** 135-P3C-EE24AR-14.0-14.5 moist dark brown, low plasticity, medium dense, moist 135-P3C-EE24AR-14.5-15.0 4.0 moist 7 PT sandy SILT, some gravel, little roots, (5YR 4/2) dark reddish 15 257 7 PT ハル ハル gray, low plasticity, dense, moist. moist PEAT (degraded vegetated material), 80% organic fibers, 1, 11, 1 20% organic silt, (10YR 3/3) dark brown, low plasticity, 16 <u>\ \ / \ \ / /</u> medium dense, moist, strong sulfur odor. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, little clay, (10YR 4/3) brown, low plasticity, 1, 11, 1 5 11/ 11/ medium dense, moist, strong sulfur odor. 18-1, 11, 1 11, 11, 19 11/11 24.7 moist 8 SP fine SAND, (10YR 4/1) dark gray, non plastic, dense, moist, -20slight sulfur odor. Soils consistent with UNDno. PPG LOGS.GDT - 6/6/14 12:48

Boring ID: CAR-PDI-EE22A

Page: 1

oject	Number:	602407				Drilli	ng Company: SGS North America ng Method: direct push	Coordinates (NJSPNAD	
	arted Drill					Rig T		Coordinates (NJSPNAD8	
	nished Dri	lling:	<u>6/10/2016</u>	11:15	:00 AM		Size: 3.0 in	Boring Total Depth: 15	ft
	By: ES I Location	· Actu	al CARE	וח		Proje	ct Manager: Scott Mikaelian	Depth to Water: NA	
	LUCALIUI	I. ACIU	ai - CAIN F					1	
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th	nickness:	Sample ID
_		0.5		2	ASPHALT		Asphalt and gravel sub-base.		
1 —				1 (ONCRET	D 5 4 F	Concrete		
2-	4.5		dry	3	FILL		fine to medium SAND, little fine grav medium dense, dry, no odor, no stair		
3	4.0		dry to moist	3	FILL		ASH, (5Y 5/1) gray, loose, dry to mo staining.	ist, no odor, no	
				NR	NR	·××××	NO RECOVERY		
5 —		0.3	moist	3	FILL		ASH, (5Y 4/1) dark gray, loose, mois	st, no odor, no staining.	
6 —			moist	3	FILL		SILT, (7.5YR 3/3) dark brown, soft, staining.	moist no odor, no	
7 —	2		wet	3	FILL		fine to medium silty SAND, trace fine		CAR-PDI-EE22A-7.0-7.5
8 —	-			NR	NR		reddish brown, medium dense, wet, water at 7.0 feet. NO RECOVERY	no odor, no staining,	
10————————————————————————————————————	5	0.0	wet	3	FILL		fine to medium silty SAND, little fine reddish brown, medium dense, wet,		CAR-PDI-EE22A-11.0-11.5 CAR-PDI-EE22A-12.7-13.2
- 14			dry	7	PT		PEAT (degraded vegetated material) 20% organic silt, (5YR 3/3) dark redeno odor, no staining. Soils consistent	dish brown, stiff, dry,	
15									

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/20/16 16:59

- GINT STD US LAB. GDT - 11/3/11 14:35 - \(USPSWZVFP001\DATA_USPSWZVFP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJCPROGRAM\P9-WORKFILES\PROJECT MANAGER-CATALDOB\GA RI-SOIL INVESTIGATION\FIELD WORKIBORING LOGS\GINT L

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: EF-16

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Coordinates (NJSPNAD83) x: 611373.901 Drilling Method: Airknife/Geoprobe Date Started Drilling: 4/15/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682643.445 Date Finished Drilling: 4/15/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5 ft Logged By: A. Salazar, M. Merdinger Physical Location: Alleyway on Carteret between Pacific and Halladay St

. Hysical I	LOCALIOII.	Alley	way on Ca	arteret	between Pa	acific and H	alladay St.	(Note bgs = below ground s	urface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Sur	face Cover and Thickness:	Sample Number
_1 -		0	moist	2	Fill		Black Asphalt	/1) fine SANDY SILT, some Organics, little	EF-B16_0.0
		0		3			Fill Material (coal, as	h) and fine to medium angular Gravel,	
		0					moist, loose. No odo	Dr.	EF-B16_2.5 EF-B16_3.0
_4 -		0							EF-B16 4.0
		0							EF-B10_4.0
5				6	Fill			R 5/1) ASH and CINDERS, little Coal	EF-B16_5.5
6					Fill		fragments and Silt, w No Recovery	vet, loose. No odor.	
7	1						•		
8									
9									
10		0	moist	6	Fill		Same as above.		EF-B16_10.
		0.1	wet	5	Fill		Red (2.5YR 5/6) SIL	T and fine to coarse SAND, chalky texture,	EF-B16_11.
12	3	0.1	wet	5	Fill		70% GGM, wet, loos Gray (7.5YR 6/1) and	Lime Green mottled SILT and fine to	EF-B16_12.
13	3		wet	3	Fill		\rightarrow medium SAND (1009) \rightarrow Chemical odor.	% GGM), trace COPR nodules, wet, soft.	
14					Fill		Black medium crusholoose. No odor.	ed GRAVEL, little Silt and fine Sand, wet,	
15		0					No Recovery	/	EF-B16_15.0
		64	wet moist	<u>3</u>	Fill PT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Dark Brown (10YR 2) Gravel, wet, loose. N	/1) very fine SAND, some Silt, trace fine	EF-B16_16.0
		27		•		<u> </u>	Reddish Black (2.5Y)	R 2.5/1) PEAT, some Silty Clay and sive, stiff. Sulfur odor.	
 	2.6				PT	77 77 7		Sive, Still. Sulful Guor.	
19					PI	1, <u>1, 1, 1,</u>	No Recovery		
20		224				<u> </u>			
21		76	moist	7	PT	<u> </u>	Same as above.		EF-B16_21.0
		52	wet	8	SP		Grey (Gley1 6/0) very	y fine SAND, interbedded with some fine	LI -DIO_ZI.
23	2.2				SP		No Recovery	lium dense, wet. No odor.	
							,		
24									
25						0.83080.84	End of boring at 25 ft	<u> </u>	
26							· ·		
27									
28									
29									
30									
31									
32 -									
35									
Comment	s: GGMi	dentif	ied from 1	0 5-12	2 ft has	1			1

	tsbridge Road		away NI 088	854				Boring	ID: EF-50	
	732.564.3200	office te	lephone				200		Page: 1	
	ame: PPo umber: 6					Company: : Method: Air	SGS rknife/Geoprobe	Coordinates (NJSPNAD83) x: 611406.291		
Date Start	ted Drilling	g: 5/2	25/2011		Rig Type	: Airknife/C		Coordinates (NJSPNAD83) y: 682612.264		
	shed Drilli y: E. Acs				Core Siz		lobert Cataldo	Boring Total Depth: 15 ft		
				n Loadi		t Auto Sport		(Note bas = below ground		
Depth								(Note ags = seew ground		
Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Si	urface Cover and Thickness:	Sample Number	
1		0	dry dry	2 3	Fill Fill		Black Asphalt Very Dark Gravish	Brown (10YR 3/2) fine to medium SAND,		
2 -		0	moist	6	Fill		some fine to coarse	e angular Gravel (asphalt ballast), loose to	EF-B50_1.5	
3		0	moist		1 111		some-little Ash and	o Black (10YR 2/1) fine to medium SAND, Cinders, trace Fill Material (coal, wood,		
4		0	wet	3	Fill		brick, ceramics), lo Black (10YR 2/1) fi	ose. No odor. ne to coarse angular GRAVEL, trace fine to		
5		0					medium Sand, loos	se. No odor.		
6			<u>wet</u> wet	6	Fill Fill		Very Dark Gray (2.9 loose. No odor.	5Y 3/2) fine crushed CINDERS and ASH,		
7							No Recovery			
8	0.5									
9										
10		0								
		98.2	wet	6	Fill		Same as above.		FE DE0. 44	
11		30.2	moist	3	Fill		Dark Grayish Brown	n (10YR 4/2) to Black-stained SILT, little very ganics, medium dense. Napthalene odor.	EF-B50_11.	
12	2.6		maiat	7	PT			wn (10YR 3/4) PEAT, organics, trace Silty	EF-B50_12.0 EF-B50_12.0	
13			moist moist	7	PT	71 71 7	Clay, semi-cohesiv	e, medium stiff. Sulfur odor.	_	
14						71/ 71/ 1/	No Recovery			
15						<u> </u>	End of boring at 15	ti.		
16							Life of boiling at 15	it.		
17										
18										
19										
20										
21										
22 –										
23										
24										
25										
26										
27										
28										
29										
30										
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33 –										
34										
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AECOM

RI-SOIL INVESTIGATION/FIELD WORK/BORING LOGS/GINT

STD US LAB.GDT - 10/12/11 11:29 - NUSPSW2VFP001/DATA USPSW2VFP001/ENVIRONMENTIPISCATAWAY/PROJECTIPPG-NJCPROGRAM/9-WORKFILES/PROJECT MANAGER-CATALDOB/GA

GINT

Boring ID: EF-78

Piscataway, NJ 08854 Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611331.4604 Date Started Drilling: 8/12/2011 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682609.4402 Date Finished Drilling: 8/12/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5/23 ft Logged By: M. Merdinger Physical Location: Inside Site 135 Building (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: Number (ft/ft) (ppm) Content Class Log (ft bgs) dry 1 Fill Concrete Slab 0 EF-B78_1.5 2 Fill Concrete and Black SILT, some Ash and Cinders, loose. No moist 6 1.9 moist 6 Fill 3 No Recovery 4 0 5 EF-B78 5.0 6 Fill Brown (7.5YR 4/2) CINDERS and SILT, little wood, slag and wet 6 Fill metal, loose. No odor. wet No Recovery 0.5 8 9 0 10 EF-B78 10.0 6 Fill Black CINDERS and SILT, little wood, slag and metal, loose. wet 0 11 Slight tar odor. 12 wet 6 Fill No Recovery 1.3 13 14 0 15 EF-B78 15.0 6 Fill Same as above. wet 10.1 EF-B78_16.0 16 Grayish Brown (10YR 5/2) Silty CLAY and PEAT, some to high PT moist 11/ 11/ Organics, medium dense. Sulfur odor. 17 РТ 71 71 71 No Recovery moist 7 1.8 18 1/ 1/1/ 1/1/ 11/11/11/11 19 1, 11, 11, 1.3 20 11, 11, 1 7 PT Dark Reddish Brown (5YR 4/3) PEAT, high Organics, trace Silty moist 41.7 21 Clay, medium dense. Sulfur odor. 11/ 11/ 65.8 22 11/ 11/ 1 3.3 11/ 11/ 23 SP Gray (Gley1 5/0) very fine SAND, loose. No odor. 8 wet 24 SP wet No Recovery 25 End of boring at 25 ft. 26 27 28 29 30 31 32 33 34 Comments: No COPR/GGM identified at this location.

Appendix I-3

Site 135 South

Boring logs for the remaining sample locations in Site 135 South 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. Location 135-AA31AR was a supplemental step-off boring location located immediately adjacent to location 135-AA31A; therefore, one boring log was generated for both locations.

A.GDT - 11/21/17 11:25

LOGS

2012-09 RA PPG

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-B17

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Eichelberger/Terra Probe Incorporated Project Number: 60240739 Drilling Method: Soft Dig/GeoProbe Coordinates (NJSPNAD83) x: 611129.2 Date Started Drilling: 12/14/2006 Coordinates (NJSPNAD83) y: 682461.7 Rig Type: Date Finished Drilling: 1/3/2007 Core Size: 12 in Boring Total Depth: 32 ft Logged By: P. Kelly, M. Merdinger Project Manager: Scott Mikaelian Depth to Water: Physical Location: Narula Property Surface Elevation: 10.2 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) TOPSOIL dry Black Topsoil, dry. FILL WOOD Planks and Roots, dry dry 133-B17A (1.1-1.6)J49295-6 Gray ASH and coarse SAND, little fine Gravel, Glass **FILL** dry fragments, Rootlets, dry. 133-B17B (3.3-3.8)J49295-21 FILL Black-stained ASH, some Rootlets, Glass, Debris, dry dry FILL Black-stained ASH, some Rootlets, Glass, Debris, wet wet 133-B17C (4.0-4.5)J49295-20 Black-stained ASH and medium GRAVEL, little Silt, Fill wet FILL Material (glass, ceramics, tile, coal), loose, wet. Impacted with viscous MGP Tar. Strong MGP odor. NR No Recovery wet 133-B17D Gray (Gley N6/0) ASH and medium GRAVEL, little Silt, **FILL** wet Fill Material (glass, ceramics, tile, coal), loose, wet. No NR wet No Recovery 12 wet FILL Gray (Glev N6/0) ASH and medium GRAVEL. little Silt. 133-B17E FILL Fill Material (glass, ceramics, tile, coal), loose, wet. No moist 13 Black organic CLAY, trace orgaincs, medium stiff, moist. moist FILL Slight naphthalene odor. 133-B17F PEAT Dark Gray (10YR 4/1) silty CLAY, soft, moist. No odor. moist PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor. NR No Recovery moist 16 moist **PEAT** Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, shells, medium stiff, moist. Sulfur odor. 133-B17G NR moist No Recovery 19 **PEAT** Very Dark Gray (5Y 3/1) organic CLAY, little to trace moist Organics/Peat, shells, medium stiff, moist. Sulfur odor. 133-B17H moist CLAY Dark Gray (10YR 4/1) fine to coarse sandy CLAY, trace bgs - below surface grade MM - meadow mat MGP - manufactured gas plant COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 133-B17

Droinet N	amo: D	PG C-	rfield Ave			Drilling Company Eigholhorgor/Torra Dri	nhe Incorporated	Page:
			rfield Ave			Drilling Company: Eichelberger/Terra Pro		NIA DOO) 044400 0
Project N						Drilling Method: Soft Dig/GeoProbe		NAD83) x: 611129.2
			2/14/2006			Rig Type:	· · · · · · · · · · · · · · · · · · ·	NAD83) y: 682461.7
			1/3/2007			Core Size: 12 in	Boring Total Depth:	32 ft
			. Merdinge			Project Manager: Scott Mikaelian	Depth to Water:	
Physical	Location	: Nar	ula Proper	ty			Surface Elevation:	10.2 ft NAVD88
Depth Range (ft bgs)	ecovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thic	kness:	Sample ID
						Silt, soft, moist. No odor.		
 23 			wet	SAND		Dark Gray (10YR 4/1) fine to coarse Strace Clay, loose, wet. No odor.	SAND, little Silt,	
-24			wet	NR		No Recovery		
			wet	SILTY SAND		Dark Gray (10YR 4/1) fine to coarse s Clay, loose, wet. No odor.		
-25 -			wet	SILTY SAND		Dark Gray (10YR 4/1) very fine silty S wet. No odor.	AND, trace Clay,	
-26 - 			moist	CLAY		Dark Grayish Brown (10YR 4/2) medi CLAY, trace Silt, soft, moist. No odor	um to coarse sandy	
-27			moist	NR		No Recovery		_
-28			moist	SANDY		Dark Reddish Gray (5YR 4/2) fine to r SILT, trace Clay, medium stiff, moist.	medium sandy	+
29			wet	SILT SAND AND SILT		Dark Reddish Gray (5YR 4/2) SAND a Clay, loose, moist to wet. No odor.	and SILT, some	-
30								
-31		•	wet	NR		No Recovery		
32			wet	NULL		End of Boring at 32 ft.		
Notes: ogs - below MM - mead			COPR - chro GGM - green	mite ore proce grey mud	essing res	sidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - mani sits CCPW - chi	ufactured gas plant romate chemical production wast

Boring ID: 133-B18

	Number: arted Drill		12/14/2006			rilling Method: Soft Dig/GeoProbe	Coordinates (NJSPN	PNAD83) x: 611256 NAD83) v: 682581.1		
			1/4/2007			core Size: 12 in	Boring Total Depth:			
			1. Merdinge	er		roject Manager:	Depth to Water:			
			rula Prope					10.4 ft NAVD88		
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID		
			dry	TOPSOIL	74 1×. 77 1×.	Black Topsoil, dry.				
			dry	FILL		Dark Brown medium SAND and SILT,	some fine Gravel,	133-B18A (0.4-0.9)J49295-1		
-1-			dry	FILL		little Rootlets, dry.	fine Onesel little	-		
 -2- 			Í			Gray and little Red-orange ASH, some woody Organics, dry.	Tine Gravei, little	133-B18B (1.5-2.0)J49295-1		
-3- -4-			dry	FILL		Black-gray ASH, some fine to coarse of woody Organics, Sand and Glass, dry.		133-B18C (3.4-3.9)J49295-1-		
			wet	FILL		Gray to Black-stained fine GRAVEL, s	ome coarse Gravel	133-B18D (4.5-5.0)J49295-1		
-5			wet	FILL		and coarse Sand, trace Glass and Cer Slight petroleum odor. Dark Gray (2.5Y 4/1) ASH, little Silt an Fill Material (ceramics, glass, rocks, co wet. No odor.	d Sand, crushed			
٦					\bowtie			133-B18E		
9 10			wet	NR	VVVV	No Recovery				
11 12			wet	FILL		Black-stained ASH, little Silt and Sand Material (ceramics, glass, rocks, coal, oyster shells, metal), loose, wet. Impa Naphthalene odor.	wood, rubber,			
-12- 			wet	FILL		Pale Brown (10YR 6/3) and Light Gray mottled SILT, little Clay, some Gray-M staining, soft, moist. No odor.		133-B18F		
-13 - 14 - 15 			wet	NR		No Recovery				
16 			moist	PEAT		PEAT (Meadow Mat), some Organics, stiff. Sulfur odor.	moist, medium	133-B18G		
20 21 			wet	SAND		Dark Gray (5Y 4/1) very fine to fine SA loose, wet. Slight sulfur odor.	ND, trace Silt,	133-B18H		
	ow surface g adow mat		COPR - chro	omite ore proce	ssing resid	due UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		ufactured gas plant omate chemical production wa		

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/5/17 12:09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: 133-B18**

		arfield Ave			Drilling Company: Eichelberger/Terra Pro		rage. 2
	Number:				Drilling Method: Soft Dig/GeoProbe	Coordinates (NJSP)	
		 1/4/2006)		Rig Type: Core Size: 12 in		IAD83) y: 682581.1
	nished Dr	1/4/2007 1. Merdinge			Project Manager:	Boring Total Depth: Depth to Water:	32 IL
		rula Prope			Froject Manager.	•	10.4 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	Moisture Content	USCS	Graphic Log	C Surface Cover and Thick		Sample ID
(It bgs)		maiat	CHT		Greenish (5GY 5/1) SILT and CLAY, lit	ttle medium	
		moist	SILT AND CLAY		rounded Gravel, some mottling of Gray 5/2) very fine Sand, medium stiff, mois	yish Green (5G	
 24		moist moist	SILT AND	PIU	mottled with Light Olive Brown (2.5Y 5)	/4) and Dark Red /	
L		moist	GRAVEL NR		\((2.5YR 3/6), medium dense, moist. No No Recovery	/	
25		wet	SILT AND GRAVEL		Brown (7.5YR 4/2) SILT and coarse mottled with Light Olive Brown (2.5Y 5, (2.5YR 3/6), medium dense, moist. No	/4) and Dark Red /	
26 			SAND		Reddish Brown (2.5YR 4/3) fine to coa Silt, loose, wet. No odor.		
27 		wet	NR		No Recovery		
28		wet	SAND		Reddish Brown (2.5YR 4/4) fine to med SAND, trace Silt, loose, wet. No odor.		
29 							
30-							
31		wet	SILTY SAND		Red (2.5YR 4/6) very fine silty SAND, fine to medium Sand, medium dense,		
32		wet	NR NULL		No Recovery End of Boring at 32 ft.		
MM - me	ow surface ç	COPR - chro	omite ore proce n grey mud	essing res	sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		nfactured gas plant omate chemical production waste
Comments	:						

Boring ID: 133-P3C-AA26A

Coordinates (NJSPNAD83) y: 682598.92

Page: 1

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611257.479

Date Started Drilling: 4/9/2014 11:20:00 AM Date Finished Drilling: 4/9/2014 12:30:00 PM Boring Total Depth: 20 ft Core Size: 2 in

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

Rig Type:

	IBy: ES I al Locatio		^ ^^26^		,-	roject Manager:		Depth to Water: NA	•
riiysica	ai Locatio	II. F30	5 - AAZOA					(No:	tę bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cover and Thickn	ess:	Sample ID
		0.0	dry	FILL			SAND, with coarse gravel,		
-1 - -2 -	5	0.0	dry to moist	FILL		staining. fine to medium cement, trace of	rk gray, medium dense, dry SAND, with cinders, some glass, (10YR 5/2) grayish b loist, no odor, no staining.	e ash, little broken	133-P3C-AA26A-1.0-1.
-3 -4 -5									133-P3C-AA26A-3.0-3.
-6 -7		0.0	moist to wet	FILL		trace wood deb	silty SAND, some ash, littl vris, (10YR 4/1) dark gray, l o odor, no staining.	e medium gravel, medium dense,	133-P3C-AA26A-5.0-5.
-8 -9	5								133-P3C-AA26A-7.0-7
10-									133-P3C-AA26A-9.0-9
11		0.0	wet to saturated	FILL		(10YR 4/1) dar	 with wood debris, some of k gray, loose to medium de dor, no staining. 	coarse gravel, ense, wet to	133-P3C-AA26A-11.0-1
12-	5								
-13		0.0	moist	FILL			(1) very dark gray, low plas	sticity, soft, moist,	133-P3C-AA26A-13.0-1
-14		0.0	moist	FILL		no odor, no sta	ining. e silt, trace organics, (5YR	4/3) reddish	133-P3C-AA26A-13.5-1
15		0.0	dry	PT	7 77 7 77 77	brown, low plast PEAT (degrade	sticity, soft, moist, no odor, ed vegetated material), 80%	no staining. 6 organic fibers,	133-P3C-AA26A-14.0-1
'		0.0	moist	OL		\strong organic	lt, (7.5YR 2.5/3) very dark odor, no staining. Soils cor	nsistent with MM.	
16 -		0.0	moist	OL		5/1) gray, low point from the staining. So	70% organic silt, 30% orga blasticity, soft, moist, mode ils consistent with UNDorg	rate organic odor,	_
17—	5					5/1) gray, low p	90% organic silt, 10% orga plasticity, soft, moist, slight consistent with UNDorg.		
-18 - -19									
20									
	nts: 1) 3 atte				I				



Boring ID: 133-P3C-AA27A

Project Name:		telephone			Drilling Company: SGS North America		Page: 1
Project Number:	6024	0739			Drilling Method: Geoprobe		PNAD83) x: 611243.09
Date Started Dri					Rig Type:		IAD83) y: 682573.3125
Date Finished D	rilling:	5/22/2013	2:35:00 PM		Core Size: 3 in	Boring Total Depth:	
Logged By: MI Physical Location	n: Cit.	0 133 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	27Λ		Project Manager: Chris Martell	Depth to Water: NA	1
Tiysical Localic	JII. SIL	- 133 - AA2	21A			(No	te bgs = below ground surface)
Depth Range it bgs) Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thio	ckness:	Sample ID
	0.0		ASPHALT		ASPHALT		
2	0.0	dry	FILL		fine to medium silty SAND, with fine little coal, ash, trace brick, (5YR 3/2) non plastic, loose to dense, dry, no o	dark reddish brown,	
2	0.0	dry	FILL	XXXX	fine to medium silty SAND, with fine	to coarse grave, little /	
1.8	0.0	dry slightly moist	FILL FILL		coal, ash, trace brick, (5YR 3/2) dark plastic, loose to dense, dry, no odor, ASH, some cinders, coal, wood fragr	no staining. nents, (10YR 7/2)	
4 1.1	63.4	moist	NR FILL		light gray, non plastic, loose, dry, no fine SAND, trace silt, (7.5YR 3/4) dar plastic, loose, slightly moist, no odor, NO RECOVERY	k brown, non	
6	10.5		NR	****	ASH, with tar-like material and cinder coarse gravel, (7.5YR 2.5/1) black, n moist, moderate tar odor, sheen.		
1.3	10.6	moist	FILL		NO RECOVERY ASH, some fine to medium sand, coa fragments tar-like material, little glass	s, tar-like material,	133-P3C-AA27A-6.5-7.0
_			NR		(7.5YR 4/1) dark gray, non plastic, lo moderate tar odor, sheen, sheen in s	ose, moist, pilt spoon.	
8 - 1	0.0	moist	FILL		NO RECOVERY ASH, some fine to medium sand, coafragments, tar-like material, little glas	al, cinders, wood	133-P3C-AA27A-8.5-9.0
10		NR NR			4/1) dark gray, non plastic, loose, mo staining, sheen in spilt spoon. NO RECOVERY		
1.2	0.0 moist FILL			ASH, some fine to medium sand, coa fragments, ceramics, tar-like materia 4/1) dark gray, non plastic, loose, mo	133-P3C-AA27A-10.5-11.0		
- -12			NR NR		staining, sheen in spilt spoon. NO RECOVERY NO RECOVERY		
-13 0			, and		NO NEGOVERNI		
14	0.0	moist	FILL		ASH, some fine sand, coal, cinders, ceramics tar-like material, little glass.		133-P3C-AA27A-14.2-14.7
-15 2	0.0	dry moist	PT MH		dark gray, non plastic, loose, moist, r sheen in spilt spoon. PEAT (degraded vegetated material)	no odor, no staining,	133-P3C-AA27A-14.7-15.2
16		are made to o	btoin boot roo	200	20% organic silt, (7.5YR 3/2) dark brostiff, dry, strong petroleum odor, no sconsistent with MM. UNDno SILT, with roots, little organic grayish brown, medium plasticity, sof slight organic odor, no staining. Soils UNDno.	own, non plastic, taining. Soils es, (10YR 4/2) dark to stiff, moist, consistent with	interval of this basing



Boring ID: 133-P3C-AA27A

Project Name:		telephone			Drilling Company: SGS North America		Page: 1
Project Number:	6024	0739			Drilling Method: Geoprobe		PNAD83) x: 611243.09
Date Started Dri					Rig Type:		IAD83) y: 682573.3125
Date Finished D	rilling:	5/22/2013	2:35:00 PM		Core Size: 3 in	Boring Total Depth:	
Logged By: MI Physical Location	n: Cit.	0 133 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	27Λ		Project Manager: Chris Martell	Depth to Water: NA	1
Tiysical Localic	JII. SIL	- 133 - AA2	21A			(No	te bgs = below ground surface)
Depth Range it bgs) Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thio	ckness:	Sample ID
	0.0		ASPHALT		ASPHALT		
2	0.0	dry	FILL		fine to medium silty SAND, with fine little coal, ash, trace brick, (5YR 3/2) non plastic, loose to dense, dry, no o	dark reddish brown,	
2	0.0	dry	FILL	XXXX	fine to medium silty SAND, with fine	to coarse grave, little /	
1.8	0.0	dry slightly moist	FILL FILL		coal, ash, trace brick, (5YR 3/2) dark plastic, loose to dense, dry, no odor, ASH, some cinders, coal, wood fragr	no staining. nents, (10YR 7/2)	
4 1.1	63.4	moist	NR FILL		light gray, non plastic, loose, dry, no fine SAND, trace silt, (7.5YR 3/4) dar plastic, loose, slightly moist, no odor, NO RECOVERY	k brown, non	
6	10.5		NR	****	ASH, with tar-like material and cinder coarse gravel, (7.5YR 2.5/1) black, n moist, moderate tar odor, sheen.		
1.3	10.6	moist	FILL		NO RECOVERY ASH, some fine to medium sand, coa fragments tar-like material, little glass	s, tar-like material,	133-P3C-AA27A-6.5-7.0
_			NR		(7.5YR 4/1) dark gray, non plastic, lo moderate tar odor, sheen, sheen in s	ose, moist, pilt spoon.	
8 - 1	0.0	moist	FILL		NO RECOVERY ASH, some fine to medium sand, coafragments, tar-like material, little glas	al, cinders, wood	133-P3C-AA27A-8.5-9.0
10		NR NR			4/1) dark gray, non plastic, loose, mo staining, sheen in spilt spoon. NO RECOVERY		
1.2	0.0 moist FILL			ASH, some fine to medium sand, coa fragments, ceramics, tar-like materia 4/1) dark gray, non plastic, loose, mo	133-P3C-AA27A-10.5-11.0		
- -12			NR NR		staining, sheen in spilt spoon. NO RECOVERY NO RECOVERY		
-13 0			, and		NO NEGOVERNI		
14	0.0	moist	FILL		ASH, some fine sand, coal, cinders, ceramics tar-like material, little glass.		133-P3C-AA27A-14.2-14.7
-15 2	0.0	dry moist	PT MH		dark gray, non plastic, loose, moist, r sheen in spilt spoon. PEAT (degraded vegetated material)	no odor, no staining,	133-P3C-AA27A-14.7-15.2
16		are made to o	btoin boot roo	200	20% organic silt, (7.5YR 3/2) dark brostiff, dry, strong petroleum odor, no sconsistent with MM. UNDno SILT, with roots, little organic grayish brown, medium plasticity, sof slight organic odor, no staining. Soils UNDno.	own, non plastic, taining. Soils es, (10YR 4/2) dark to stiff, moist, consistent with	interval of this basing

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-AA27A-ME

Project Project	Number:					Drilli	ing Method: Direct Push	Coordinates (NJSPNA	AD83) x: 611243.362
	arted Drill			00:00	PM		Гуре:	Coordinates (NJSPNA	<u> </u>
Date Fi	nished Dri	lling:	6/8/2015 7	7:00:00	PM	Core	Size: 3 in	Boring Total Depth:	10 ft
Logged	By: ES					Proje	ect Manager: Scott Mikaelian	Depth to Water: 6.0	
Physica	al Location	: P3C	-AA27A					Surface Elevation: 1	1.675 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
		0.0	dry	3	FILL		ASPHALT, (7.5YR 2.5/1) black, dry.	no odor, no staining.	
 1		0.0	dry	3	FILL		fine to medium SAND, little brick, tra 4/2) dark grayish brown, medium de staining.	ace wood debris, (10YR	133-P3C-AA27A-0.5-1.0
_							otog.		
-2-		0.0	dry	3	FILL		ASH, little coal fragments, (10YR 5/	1) gray, loose, dry, no	133-P3C-AA27A-2.0-2.5
-3-	4	0.0	moist	3	FILL		odor, no staining. fine to medium SAND, trace ash,(7. medium dense, moist, no odor, no s	5YR 3/3) dark brown,	
		0.0	moist	3	FILL		fine to medium, little coal fragments		133-P3C-AA27A-3.5-4.
4 		0.0	moist	3	NR	*****	medium dense, moist, no odor, shee NO RECOVERY.		
5 6 		0.0	wet	3	FILL		Incinerator ASH, little wood debris, t dark grayish brown, loose, DTW @ bgs color gray.		133-P3C-AA27A-5.0-5.
7 	3								133-P3C-AA27A-7.0-7.
8 9				3	NR		NO RECOVERY.		
-									
	ow surface o	grade (COPR - chro	mite o	e process	ina residue	e UNDno - non-organic undisturbed native	deposits MGP - manufa	actured gas plant

Boring ID: 133-P3C-V40A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Drilling Method: Geoprobe Project Number: 60240739 Coordinates (NJSPNAD83) x: 610933.54 Date Started Drilling: 4/21/2014 7:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682292.54 Date Finished Drilling: 4/21/2014 8:40:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Chris Martell Logged By: ES Physical Location: P3C - V40A

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
it bgs)		0.0		=	XXXXX	5 1 5 ODANEL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
_		0.0	dry	FILL FILL	-	fine to medium GRAVEL, some asphalt, little wood debris, trace organics, (10YR 4/2) dark grayish brown, loose, dry,	
_ 1		0.0	dry			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	133-P3C-V40A-0.5-1.0
- 1		0.0	dry	FILL		fine to medium SAND, with asphalt, some fine to medium	
-		0.0	dry	FILL		gravel, little wood debris, (10YR 4/2) dark grayish brown,	
-2		0.0	dry	FILL		\loose, dry, no odor, no staining.	133-P3C-V40A-2.0-2.5
_	5					fine to medium SAND, some asphalt, trace glass, brick	133-P3C-V40A-2.0-2.5
2						\fragments, (7.5YR 2.5/1) black, medium dense, dry, no	
-3						odor, no staining.	
_						fine to coarse SAND, with fine to medium gravel, some	
-4						brick, (10YR 4/1) dark gray, medium dense to loose, dry, no	122 D2C \/404 4.0.4.6
						odor, no staining.	133-P3C-V40A-4.0-4.5
_		0.0			\longrightarrow	fine to medium silty SAND, with debris, some ash, cinders,	
-5-		0.0	dry	FILL FILL	-	little brick, glass, (10YR 4/2) dark grayish brown, medium //dense, dry, no odor, no staining.	
-		0.0	dry	FILL		\\ \text{fine to medium silty SAND, and ash, with cinders, (10YR)}	
-6		246.0	moist	FILL		4/1) dark gray, loose, dry, no odor, no staining.	400 000 1/404 0 0 0 0
			to			fine to coarse SAND, with cinders, some wood debris, little	133-P3C-V40A-6.0-6.5
_			wet			coarse gravel, trace coal, glass fragments, (10YR 3/1) very	
-/	^ -	103.0	wet	FILL		dark gray, medium dense, dry, no odor, no staining.	133-P3C-V40A-7.0-7.5
\dashv	3.5	135.0				fine to medium silty SAND, some ash, cinders, wood debris,	
-8		135.0	moist	FILL		glass, (10YR 4/2) dark grayish brown, dense, moist to wet,	
0						strong hydrocarbon odor, sheen.	133-P3C-V40A-8.0-8.5
				NR		CINDERS, some fine to medium gravel, (7.5YR 2.5/1) black,	
-9						\loose, wet, strong hydrocarbon odor, hydrocarbon staining,	
_						sheen.	
-10						fine to medium silty SAND, with cinders, some debris, trace	
10		74.5	wet	FILL		\\glass, (10YR 3/1) very dark gray, loose, moist, strong	133-P3C-V40A-10.0-10
-						hydrocarbon odor, sheen.	
-11		40.0				NO RECOVERY	
		19.0	wet	FILL		fine to medium silty SAND, some ash, little cinders, trace	
			to			wood debris, (7.5YR 2.5/1) black, medium dense, wet, moderate hydrocarbon odor, no staining.	
-12	4.5		moist			fine to medium silty SAND, with wood debris, (10YR 4/2)	133-P3C-V40A-12.0-12
\dashv	4.5					dark grayish brown, dense, wet to moist, slight hydrocarbon	
-13						odor, no staining.	
						, ··	
		0.0	moist	FILL		fine to medium silty SAND, with ash, cinders, some wood	
-14						debris, (10YR 4/2) dark grayish brown, loose, moist, no	133-P3C-V40A-14.0-14
_				NR		odor, no staining.	
-15						NO RECOVERY	
		0.0	moist	FILL	_	fine to medium silty SAND, some debris, glass, (7.5YR	133-P3C-V40A-15.3-15
46		0.0	dry	FILL		2.5/1) black, medium dense, moist, no odor, no staining.	
-16		0.0	dry	PT	71/ 71/	SILT, some fibers, trace glass, (10YR 3/3) dark brown, low	133-P3C-V40A-15.8-16
\dashv		0.0	moist	OL		\timeslike \text{plasticity, soft, dry, no odor, no staining.} \text{PEAT (degraded vegetated material), 80% organic fibers,} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity} \text{plasticity}	
-17					$\vdash \vdash \vdash \vdash$	20% organic silt, (7.5YR 2.5/2) very dark brown, medium	
	5				\vdash	stiff, dry, strong organic odor, no staining. Soils consistent	
٦	Ŭ				+==+	with MM.	
-18					<u> </u>	UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR	
4					<u> </u>	5/2) grayish brown, low plasticity, soft, moist, moderate	
-19						organic odor, no staining. Soils consistent with UNDorg.	
19					[——]	<u> </u>	
\dashv							
20					+ - 7		
			i		1		



Boring ID: 133-P3C-W37A

pate Finish ogged By: hysical Lo pepth ange t bgs) Rec (fi	hed Dril r: AB ocation	lling:		8:48:00 AM 3 10:22:00 Al 37A USCS	M (Core Size: 3 in Boring Total Depth: Project Manager: Chris Martell Depth to Water: NA (Not	
ogged By: hysical Lo pepth ange (fi	covery	PID (ppm)	e 133 - W3	37A	Graphic	Project Manager: Chris Martell Depth to Water: NA	
Pepth ange (ff	covery ft/ft) (PID (ppm)	Moisture				e bgs = below ground surface)
ange (fi	ft/ft) ((ppm)		USCS			e bgs = below ground surface)
ange (fi	ft/ft) ((ppm)		USCS			
' -	13	\cap			Log	Surface Cover and Thickness:	Sample ID
' -	13		dry	ASPHALT	XXXXX	ASPHALT, (10YR 2/1) black, dry.	
' -		0.0	slightly moist	FILL ASPHALT		fine to medium silty SAND, some angular gravel, (5YR 5/6) yellowish red, non plastic, medium dense, slightly	133-P3C-W37A-0.5-1.
	.	0.0	slightly	FILL	 	moist.	
		0.0	moist	NR	1	ASPHALT, weathered, (10YR 2/1) black, slightly moist.	
-2		0.0	moist	NR		fine to medium silty SAND, some angular gravel, (10YR	
\dashv			moist			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	133-P3C-W37A-2.5-3.
-3	1			NR		fine to medium silty SAND, some gravel, little wood, little	
\dashv				INIX		asphalt, (10YR 4/2) dark grayish brown, non plastic,	
-4		0.0	mr =! 1	F	XXXXX		
4		U.U	moist	FILL		NO RECOVERY fine to medium CINDERS, some fine to medium sand,	400 DOO WOTA 4 7 7 7
-5	2	0.0	moist	FILL		little wood, (10YR 3/2) very dark grayish brown, non	133-P3C-W37A-4.5-5.0
_		5.5	to	I ILL		\plastic, loose, moist.	
			wet			ASH, some cinders, little wood, (10YR 3/1) very dark	
-6-		0.0	wet	FILL		gray, non plastic, loose, moist to wet, strong petroleum	
7 ,	12			NR		\odor, sheen. ASH, some cinders, (10YR 3/1) very dark gray, non	133-P3C-W37A-6.5-7.0
-7— 1	1.3					\plastic, loose, wet, strong petroleum odor, sheen.	133-P3C-W37A-6.5-7.0
\dashv						NO RECOVERY	
-8		0.0	wot	Eli i	XXXX	ASH name sinders (10VD 3/1) year dark arey non	133-P3C-W37A-8.0-8.5
\dashv		0.0	wet	FILL	\bowtie	ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet, moderate petroleum odor, sheen.	100-1 00-1101 A-0.0-0.3
_9 0	0.6			NR		NO RECOVERY	
10-							
		0.0	wet	FILL		ASH, some cinders, (10YR 3/1) very dark gray, non	133-P3C-W37A-10.0-10
0	8.0			NID		plastic, loose, wet.	
11—				NR		NO RECOVERY	
12							
13 1	1.3	0.0	wet	FILL		ASH, some cinders little gravel, (10YR 3/1) very dark gray, non plastic, medium dense, wet.	133-P3C-W37A-12.0-12
\dashv				NR		NO RECOVERY	
14		0.0	nc =!-+		XXXXX		133-P3C-W37A-14.0-14
	2	0.0	moist	FILL		SILT, some ash little gravel, (7.5YR 4/2) brown, low plasticity, soft, moist.	133-P3C-W37A-14.0-14
16		0.0	wet	FILL	<u> </u>	silty SAND, some cinders, (7.5YR 4/2) brown, low	
\dashv	,	0.0	moist	PT		\plasticity, loose, wet.	133-P3C-W37A-16.2-16
-17 - -18	2				<u> </u>	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 2/2) very dark brown, non plastic, medium dense, moist. Soils consistent with MM.	

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-W37AR

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611003.17

 Date Started Drilling:
 4/22/2014 9:10:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682357.687

Date Finished Drilling:4/22/2014 10:40:00 AMCore Size: 2 inBoring Total Depth: 20 ftLogged By:ESProject Manager:Chris MartellDepth to Water:NA

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1 - -2	5	0.0	dry	FILL		fine to medium SAND, some fine to coarse grav asphalt, (5YR 3/2) dark reddish brown, medium no odor, no staining.	el, little dense, dry, 133-P3C-W37AR-1.0-1.
٦		0.0	dry	CONCRETE	P 4 4 P	crushed CONCRETE, (9.5/2.5Y_/1) white, very	dense, dry,
-3 -4		0.0	dry	FILL		no odor, no staining. CINDERS, and ash, with fine to medium silty sa coal, glass, (10YR 4/2) dark grayish brown, densodor, no staining.	
-5		8.1	moist	FILL		CINDERS, and ash, (10YR 3/1) very dark gray, dense, moist, slight hydrocarbon odor, no stainir	
-6-		20	moist	FILL		fine to medium silty SAND, (10R 4/2) weak red,	
-7 -8	5	185	wet	FILL		dense, moist, slight hydrocarbon odor, no stainir fine to medium silty SAND, with ash, wood debrito medium gravel, trace brick, (10YR 3/1) very dimedium dense, wet, strong hydrocarbon odor, si	s, some fine ark gray, 133-P3C-W37AR-7.0-7
-9 - -10		0.0					133-P3C-W37AR-9.0-9
-11 -12	5		saturated	FILL		fine to medium silty SAND, with ash, little wood (10YR 4/1) dark gray, loose, saturated, no odor,	no staining. 133-P3C-W37AR-11.0-1
-13 - -14 -		0.0	wet	FILL		ASH, some fine to medium silty sand, (10YR 5/medium dense, wet, no odor, no staining.) gray, 133-P3C-W37AR-13.0-1
-15 		0.0	moist	FILL		fine to medium silty SAND, some fine to medium	gravel, 133-P3C-W37AR-15.0-1
-16		0.0	slightly	FILL		trace debris, glass, (2.5YR 3/2) dusky red, medi moist, no odor, no staining.	/ 133-F3C-W3/AR-13.0-1
-17 -18 -19	5	0.0	moist dry	РТ		SILT, (7.5YR 6/3) light brown, low plasticity, soft moist, no odor, no staining. PEAT (degraded vegetated material), 80% organ 20% organic silt, (7.5YR 2.5/2) very dark brown, strong organic odor, no staining. Soils consisten	ic fibers, stiff, dry,
20		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fib 4/1) dark gray, low plasticity, soft, moist, slight o no staining. Soils consistent with UNDorg.	



Road, Piscataway, NJ 08854

Boring ID: 133-P3C-X35A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611054.66 Date Started Drilling: 5/20/2013 2:00:00 PM Coordinates (NJSPNAD83) y: 682399.5 Rig Type: **Date Finished Drilling:** 5/21/2013 10:20:00 AM Core Size: 3 in Boring Total Depth: 17 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - X35A (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 **ASPHALT ASPHALT** fine to medium silty SAND, some medium to coarse 0.0 FILL 1.6 gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft. NR NO RECOVERY 0.0 FILL fine silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish 0.0 **FILL** 1.7 brown, non plastic, loose to soft. fine silty SAND, some medium to coarse gravel, little coal, cinders, trace wood fragments, (5YR 4/4) reddish NR brown, non plastic, loose to soft. 0.0 slightly FILL NO RECOVERY moist 133-P3C-X35A-4.5-5.0 ASH, some fine sand, some wood fragments, coal, little 1.4 glass, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, slightly moist, no odor, no staining. NR 0.0 **FILL** moist ASH, some fine to medium sand, some wood fragments. coal, little ceramics, coarse gravel, silt, (10YR 3/2) very 133-P3C-X35A-6.5-7.0 1.3 dark grayish brown, non plastic, loose, moist, no odor, no 133-P3C-X35A-6.5-7.0X staining. NR NO RECOVERY 0.0 moist FILL ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark 133-P3C-X35A-8.5-9.0 gray, non plastic, loose, moist, no odor, no staining. NR NO RECOVERY 0.0 moist **FILL** ASH, some fine sand fine to medium sand, some wood fragments, coal, cinders, little ceramics, coarse gravel, 133-P3C-X35A-10.5-11.0 1.1 silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no NR odor, no staining NO RECOVERY 0.0 **FILL** ASH, some fine sand fine to medium sand some wood moist fragments, coal, cinders, little ceramics coarse gravel, silt, 133-P3C-X35A-12.5-13.0 13 (7.5YR 4/1) dark gray, non plastic loose, moist no odor -13 no staining NO RECOVERY NR 0.0 **FILL** slightly ASH, some fine sand, fine to medium sand, some coal, cinders, ceramics, little ceramics, (7.5YR 5/1) gray, non moist 133-P3C-X35A-14.5-15.0 2 0.0 FILL plastic, loose, slightly moist, no odor, no staining. moist SILT, some roots, little fine sand, (7.5YR 3/2) dark 133-P3C-X35A-15.5-16.0 brown, low plasticity, soft, moist, no odor, no staining. -16 UNDorg SILT, 90% organic silt, 10% organic fibers, 1.2 OL 133-P3C-X35A-16.0-16.5 moist (7.5YR 2.5/1) black, medium plasticity soft, moist, 1.2 moist OL moderate organic odor, no staining. Soils consistent with UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.



Boring ID: 133-P3C-X35A-ME

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611054.3

Date Started Drilling: Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682399.904

Date Finished Drilling: Core Size: 2 in Boring Total Depth: 10 ft

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

Physical Location: P3C-X35A

Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_		0.0	dry	2	FILL		ASPHALT, (10YR 5/1) gray, dry, no odor, no staining.	
- 1		0.0	dry	3	FILL		fine to medium SAND, and asphalt, (10YR 2/1) black,	133-P3C-X35A-ME-1.0-1.5
_		0.0	dry	2	FILL		loose, dry, no odor, no staining.	133-P3C-X35A-ME-1.5-2.0
-2	4.5	0.0	dry	1	FILL		ASPHALT, some fine to medium sand, little coal fragments,	
_	4.5		u.,	·			(5YR 3/2) dark reddish brown, loose, dry, no odor, no staining.	
-3		0.0	dry	3	FILL		CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining.	133-P3C-X35A-ME-3.0-3.5
_		0.0	dry	4B	FILL		fine to medium SAND, some fine to medium gravel, little	133-P3C-X35A-ME-3.0-3.5
- 4		0.0	moist	3	FILL		¬\ ash, trace asphalt, (7.5YR 4/2) brown, medium dense, dry, /	
_		0.0	moiot	3	FILL		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
- 5		0.0	moist	3	FILL		ASH, some to little fine to medium sand, little COPR, trace glass, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-X35A-ME-5.0-5.5
_		0.0	IIIOISt	3	FILL		Incinerator ASH, little glass, (10YR 6/1) gray, loose, moist,	
6 —							\no odor, no staining.	
_							NO RECOVERY.	133-P3C-X35A-ME-6.5-7.0
7							Incinerator Ash, little glass and wood debris, (10YR 3/1) very dark gray, moist to wet, no odor, no staining, water	
_	4						table at 6.5 ft bgs.	
- 8								
_							-	133-P3C-X35A-ME-8.5-9.0
9 —					ND	****	NO DECOVEDY	100 1 00 7007 WIE 0.0 0.0
_				3	NR		NO RECOVERY.	



Boring ID: 133-P3C-Y32A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611130.8
Date Started Drilling: 5/21/2013 8:54:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682461.4
Date Finished Drilling: 5/21/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Y32A		

hysic	al Locatio	n: Site	e 133 - Y3	2A		(Note:	bgs = below ground surface)
						(NOI)	bys - below ground surface)
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0	slightly	ASPHALT		ASPHALT, weathered fragments, (10YR 2/1) black, non	
_	2	0.0	moist slightly	FILL		plastic, loose, slightly moist. fine SAND, some angular gravel, (5YR 5/3) reddish	
1	1 -	0.0	moist	FILL		brown, non plastic, loose, slightly moist.	133-P3C-Y32A-1.0-1.
_	-		moist			fine to medium silty SAND, some cinders, some coal,	
2		0.0		FILL		(10YR 2/1) black, non plastic, loose, moist, sheen.	
_ 	1.2			1122		fine to medium silty SAND, some cinders, little ceramics, little fill material.	
_				NR		NO RECOVERY	133-P3C-Y32A-3.0-3.
4		0.0		- FILL	XXXXX	fine to modition allty CANID come sindows little fill	
_		0.0	moist	FILL		fine to medium silty SAND, some cinders, little fill material, (10YR 4/2) dark grayish brown, non plastic,	
5	1.8	12.6	wet	FILL		loose, moist to wet.	
, _			WCt	1122		fine to coarse CINDERS, some ash, little brick, little	133-P3C-Y32A-5.0-5.
_				ND	XXXXX	glass, (10YR 3/1) very dark gray, non plastic, loose, wet,	
3		7.1	wet	NR FILL		moderate petroleum odor, sheen.	133-P3C-Y32A-6.0-6
_	1			FILL		NO RECOVERY ASH, some cinders, some fine to medium sand, little	133-P3C-Y32A-6.5-7
7 —	1.3					gravel, little fill material, (10YR 2/1) black, non plastic,	
_				NR	X X X X X	loose, wet, moderate petroleum odor, sheen.	
3 —						NO RECOVERY	
_		0.0	wet	FILL		ASH, some cinders, little sand, little coal, little fill	133-P3C-Y32A-8.0-8
	1.6					material, (10YR 3/1) very dark gray, non plastic, loose,	133-P3C-Y32A-8.5-9
) ——	1.0					wet, slight petroleum odor, sheen.	
_	-			ND	XXXX	NO DECOVEDY	
0—		0.0		NR FILL	XXXXX	NO RECOVERY	133-P3C-Y32A-10.0-1
_		0.0	wet	FILL		ASH, some cinders, little coal, little fill material, (10YR 4/1) dark gray, non plastic, loose, wet, slight petroleum	
1	1.7					odor.	133-P3C-Y32A-10.5-1
_				NR	<u> </u>	NO RECOVERY	
2		0.0	wet	FILL		CINDERS, little ash, (10YR 2/1) black, non plastic, loose,	133-P3C-Y32A-12.0-1
_	1	29.9	moist	FILL		\wet. /	133-P3C-Y32A-12.5-1
3	2					fine silty SAND, little ash, little roots, little fill material,	
_	-					(10YR 4/2) dark grayish brown, non plastic, loose, moist,	
4—						slight petroleum odor, sheen.	
_		1.3	moist	FILL		fine silty SAND, little ash, little roots, little fill material,	133-P3C-Y32A-14.2-14
5	2	1.6	mc!-t	PT	<u> </u>	(10YR 4/2) dark grayish brown, non plastic, loose, moist.	133-P3C-Y32A-14.3-1
5	-	1.0	moist	PI		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, non plastic,	133-P3C-Y32A-14.7-1
	1				V 7V 7	medium dense, moist, moderate sulfur odor. Soils	133-P3C-Y32A-14.8-1
6—					 	consistent with MM.	
	I .		I	I .	1		

A = COM

Boring ID: 133-P3C-Y33A

30 Knightsbridge Road, Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611106.149 Date Started Drilling: 4/18/2014 4:00:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682438.347 Core Size: 3.0 in Date Finished Drilling: 6/22/2015 4:00:00 PM Boring Total Depth: 20 ft Depth to Water: Logged By: SP Project Manager: Scott Mikaelian Physical Location: P3C-Y33A Surface Elevation: 12.320 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) ΙĎ (ppm) Content Log (ft bgs) 0.0 **ASPHALT** ASPHALT, (10YR 4/1) dark gray, loose, dry, no odor, no dry 135-P3C-Y33A-1.0-1.5 0.0 dry **FILL** ASH, little fine to medium sand trace brick, trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. 135-P3C-Y33A-3.0-3.5 NR NO RECOVERY ASH, little fine to medium sand trace glass, trace debris, 0.0 **FILL** (7.5YR 4/2) brown, medium dense, dry, no odor, no 0.0 FILL moist ASH, trace wood fragments, trace glass, trace gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no staining. 5 0.0 slightly **FILL** ASH, little fine to medium sand trace glass, trace debris, (10YR 3/1) very dark gray, medium dense, slightly moist, moist no odor, no staining. 12 0.0 moist SP fine silty SAND, trace organics, trace gravel, (7.5YR 3/2) 5 dark brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg. 0.0 slightly PT PEAT (degraded vegetated material), (50% organic, 50% silt), (7.5YR 4/2) brown, medium dense, slightly moist, moist 133-P3C-Y33A-15.0-15.5 0.0 OL slight organic odor, no staining. Soils consistent with MM. UND organic SILT, (80% silt, 20% organic), (7.5YR 4/2) 16 brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. 19

2012-09 RA PPG_LOGS PM PPG_LOGS

A.GDT - 11/29/17 11:37

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



Boring ID: 133-P3C-Y33A-ME

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611108.65
Date Started Drilling:	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682439.141
Date Finished Drilling:	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Discription DOO YOUA		

Depth								
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_		0.0	dry	3	FILL		fine to medium SAND, some asphalt, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
- 1 -		0.0	dry	4B	FILL		fine to medium SAND, little COPR, trace glass, (5YR 4/3) reddish brown, medium, dense, dry, no odor, no staining.	133-P3C-Y33A-ME-1.0-1.5
-2 - -3	5	0.0	dry dry	3	FILL FILL		CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining. fine to medium SAND, some coal fragments, little brick, trace wood debris, (7.5YR 4/2) brown, medium dense, dry,	133-P3C-Y33A-ME-3.0-3.5
- -4		0.0	dry	3	FILL		no odor, no staining. ASH, some coal fragments, (10YR 6/1) gray, loose, dry no odor no staining, trace, viscous purple residue.	133-P3C-Y33A-ME-3.0-3.5
_ -5-		0.0	.,	3	FILL		NO RECOVERY.	
_ 6		0.0	moist	3	FILL		Incinerator ASH, some fine to medium sand, little glass, (10YR 5/1) gray, loose, moist to wet, no odor no staining, water table at 7.0 ft bgs.	
-7 -8	4.5							133-P3C-Y33A-ME-7.0-7.5
-9 <i>-</i>								133-P3C-Y33A-ME-9.0-9.5
 10				3	NR		NO RECOVERY.	



Boring ID: 133-P3C-Z29A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611189.29
Date Started Drilling: 5/22/2013 1:30:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682533.22
Date Finished Drilling: 5/22/2013 2:30:00 PM Core Size: 3 in Boring Total Depth: 18 ft
Logged By: AB Project Manager: Chris Martell Depth to Water: NA

	IBy: AB				P	Project Manager: Chris Martell	Depth to Water: NA	<u>\</u>
Physic	al Location	n: Site	e 133 - Z29	9A			01	
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickr		te bgs = below ground surface) Sample ID
	2	5.2	dry	ASPHALT		ASPHALT, weathered and sub-base, (1 non plastic, loose, dry.	10YR 2/1) black,	
		2.0	moist	FILL		fine silty SAND, some brick, little aspha (10YR 3/2) very dark grayish brown, no dense, moist.		
		0.0	moist	FILL			little leviele little	_
3 	2	337	moist	FILL		fine to medium silty SAND, some cinde gravel, (10YR 3/3) dark brown, non plas dense, moist. CINDERS, some ash, little concrete, litt sand, (10YR 3/2) very dark grayish brownedium dense, moist. CINDERS, some ash, some fine sand,	tle fine to medium wn, non plastic,	
—5— – – —6—	1.7	15.4	wet	NR		coal, (10YR 2/1) black, non plastic, loos petroleum odor, sheen. NO RECOVERY	se, wet, strong	-
 7-	1.2	0.0	wet	FILL		CINDERS, some ash, little glass fragmiblack, non plastic, loose, wet, slight pet	roleum odor.	133-P3C-Z29A-6.5-7.0 133-P3C-Z29A-6.5-7.0X
_			wet	FILL NR		fine silty SAND, some cinders, (10YR 3 grayish brown, non plastic, loose, wet. NO RECOVERY		100-1 00-2207-0.0-7.07
_	1	2.4	wet	FILL		CINDERS, some ash, some gravel, little 2/1) black, non plastic, loose, wet.	e glass, (10YR	133-P3C-Z29A-8.5-9.0
				NR		NO RECOVERY		
_	1.2	2.1	wet	FILL		CINDERS, some ash, little gravel, trace metal, (10YR 4/1) dark gray, non plastic		133-P3C-Z29A-10.5-11.0
- 12				NR		NO RECOVERY		
- 12 - 13	1.3	0.0	wet	FILL		CINDERS, some ash, little glass fragme (10YR 3/1) very dark gray, non plastic,		133-P3C-Z29A-12.5-13.0
├ - 14				NR		NO RECOVERY		
- 1 4 15	2	0.0	wet	FILL		CINDERS, some ash, little gravel, (10Y plastic, loose, wet.	'R 2/1) black, non	133-P3C-Z29A-14.5-15.0
		0.0	moist	FILL		fine silty SAND, little gravel, little roots, reddish gray, low plasticity, loose, mois		133-P3C-Z29A-15.5-16.0
—16— – – —17—	1.5	0.0	moist	PT		PEAT (degraded vegetated material), 8 20% organic silt, (10YR 4/3) brown, nor moist, slight sulfur odor. Soils consister	n plastic, loose,	133-P3C-Z29A-16.0-16.5
18				NR		NO RECOVERY		
Commor	1te: 1) 3 atto	mnts we	re made to	ohtain hest reco	overy 2) Mi	W/UND confirmed to be 1 ft thick 3) No CCPW (COF	PR or GGM) present in any	v interval of this boring

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

Boring ID: 133-P3C-Z30A-ME

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611175.505 Drilling Method: Geoprobe Date Started Drilling: 6/11/2015 11:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682506.964 Date Finished Drilling: 6/11/2017 Core Size: 3 in Boring Total Depth: 10 ft Depth to Water: 6.0 Logged By: ES Project Manager: Scott Mikaelian Physical Location: P3C-Z30A Surface Elevation: 11.541 ft NAVD88 Depth Recovery PID Moisture Graphic Sample Surface Cover and Thickness: **USCS** Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **FILL** ASPHALT, (10YR 2/1) black, dry, no odor, no staining. dry 133-P3C-Z30A-ME-1.0-1.5 44.0 dry **FILL** fine to medium SAND, some to little debris (glass, wood fragments), little coal fragments, trace ash, (10YR 4/2) dark

grayish brown, medium dense, dry, slight chemical odor, no staining. 133-P3C-Z30A-ME-3.0-3.5 80.0 dry FILL Incinerator Ash, little glass, metal and coal fragments, (10YR 4/1) dark gray, loose, dry to moist, no staining, slight fuel oil to moist and chemical odor. NR NO RECOVERY 133-P3C-Z30A-ME-5.0-5.5 500.0 moist **FILL** Incinerator Ash, little shell fragments, glass, metal and wood (10YR 2/1) black stained, loose, moist to wet, sheen, strong to fuel oil odor, water table at 6.0 ft bgs. wet 133-P3C-Z30A-ME-7.0-7.5 2.5 NR NO RECOVERY

2012-09 RA PPG LOGS A.GDT - 3/7/17 12:03

bgs - below surface grade bgs - below surface grade GGM - green grey mud

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

MGP - manufactured gas plant CCPW - chromate chemical production waste



Boring ID: 135-AA30A

Page: 1

Project Name:PPG Garfield AveDrilling Company:EntactProject Number:60240739Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611201.1Date Started Drilling:3/23/2016 10:15:00 AMRig Type:ExcavatorCoordinates (NJSPNAD83) y:682498.7Date Finished Drilling:3/23/2016 11:00:00 AMCore Size:4.0 inBoring Total Depth:6.7 ftLogged By:E.StoneProject Manager:Scott MikaelianDepth to Water:NA

	d By: E.S				F	Project Manager:	Scott Mikaelian		Depth to Water: N	Α
Physic	al Location	1: Na	rula						(A)	late has a heless around surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cover and	d Thickr		ote bgs = below ground surface) Sample ID
		0.0	dry	CONCRETE		Concrete (Ba	sement slab), (9.5	/2.5Y_/	l) white,dry no	
1_	1.2	0.0	saturated,	FILL		fine to coarse	SAND, some grav	vel, little	ash,trace debris	135-AA30A-0.7-1.2
	0.8	0.0	wet,	FILL		and wood,(10	YR 3/1) very darking.	gray,loc	ose,saturated,no	
2 				NR		\odor,no stain		y dark g	ray,loose,wet,no	
3 4 	2	0.0	wet,	FILL		No Recovery ASH,trace gra odor,no stain	avel, and coal (10Y	'R 5/1) g	gray,loose,wet,no	135-AA30A-2.7-3.2
5_		0.0	wet,	FILL		ASH, trace gr	avel,and coal (10)	YR 5/1)	gray,loose,wet,no	135-AA30A-4.7-5.2
 6	2		dry	PT	1/ 1// 1// 1/ 1// 1//	odor,no stain PEAT (70% o dark reddish		organio	c silt),(5YR 3/4)	135-AA30A-5.2-5.7
Comments	:: 1) 3 attempts w	ere made to	o obtain best recc	overy 2) Meadow-Mat	("MM") Undis	strubed Native Deposits ("UNI	D") confrimed to be equal or g	greater than 1	ft thick 3) No CCPW (COPR or G	GM) in any interval of this boring.

2012-09 RA PPG LOGS A.GDT - 11/15/17 10:18

Boring ID: 135-AA31A

Page: 1

Project Name: PPG Garfield Ave **Drilling Company:** Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611193.4 Date Started Drilling: 3/30/2016 11:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682460.2 Core Size: 4.0 in Boring Total Depth: 6.69999980926514 ft Date Finished Drilling: 3/30/2016 12:30:00 PM Depth to Water: Logged By: E.Stone Project Manager: Scott Mikaelian Surface Elevation: 1.3 ft NAVD88 Physical Location: Narula Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 FILL Concrete (Basement slab), (9.5/2.5Y_/1) white, dry no dry odor no staining. 0.5 0.0 135-AA31A-0.7-1.2 FILL Ash, some gravel, trace coal and wood, (10YR 5/1) gray, saturated loose, saturated no odor no staining. 0.0 FILL wet fine to medium SAND, little SILT and ash, little to trace 1.5 gravel, wood and coal, (5YR 4/3) reddish brown, wet loose no odor, no staining. 0.7 135-AA31A-2.5-3.0 0.0 FILL fine to medium SAND, little SILT and ash, little to trace wet gravel, wood and coal, (5YR 4/3) reddish brown, wet 2 loose no odor, no staining. 135-AA31A-4.5-5.0 1.7 0.0 FILL fine to medium SAND, little SILT and ash, little to trace wet 135-AA31A-5.0-5.5 0.0 dry gravel, wood and coal, (5YR 4/3) reddish brown, wet 0.3 1/ 1/ loose no odor, no staining. PEAT (70% organic fibers, 30% organic silt), (5YR 3/4) 11, 11, dark reddish brown, stiff, dry slight organic odor, no staining. Soils consistent with UNDorg. bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue MGP - manufactured gas plant UNDno - non-organic undisturbed native deposits GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-AA32A

732.564.3200 office telephon Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611171.5 Date Started Drilling: 9/3/2015 11:25:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682429.6 Date Finished Drilling: 9/3/2015 12:15:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: 10.0 Logged By: M.Irving Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 71 (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, (advanced via startbit, 0.5' void space). 0.0 135-AA32A-1.5-2.0 dry **FILL** CINDERS, with ash, some coal fragments, little wood fragments, trace fine gravel, (7.5YR 2.5/1) black, 5 loose, dry, no odor, iron oxide staining. 0.0 FILL dry fine SAND,(ash and cinders lens @ 4.4-5.0) trace coal fragments, (2.5YR 4/3) reddish brown, dense to, dry, no odor, iron oxide staining. 135-AA32A-3.5-4.0 0.0 slightly **FILL** ASH, some cinders, little coal fragments, little fine sand,trace gravel,(brown silt lens @ 7.0-7.5), (7.5YR moist 135-AA32A-5.5-6.0 5/1) gray, loose ,slightly moist, no odor ,iron oxide 5 0.0 FILL CINDERS, some fine to medium gravel, little wood 135-AA32A-7.5-8.0 moist fragments, fine sand, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. 135-AA32A-9.5-10.0 0.0 moist **FILL** CINDERS, some fine to medium gravel, little fine sand,trace wood fragments,(7.5YR 4/1) dark gray,loose,moist,no odor,no staining,DTW @ 10.0'. 135-AA32A-11.5-12.0 4.0 -13 135-AA32A-13.5-14.0 NO RECOVERY. NR 0.0 moist **FILL** fine SAND, some silt, (ash lens @ 15.0-15.1, black silt, 135-AA32A-15.4-15.9 little fibers @ 15.2-15.3),mottling,(10YR 5/4) yellowish brown, dense, moist, no odor, no staining. -16 0.0 135-AA32A-15.9-16.4 OL moist UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/3) dark brown, low plasticity soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. NR 2 NO RECOVERY. -18 19 20



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-AA35A

roject ate St ate Fi		60314 l ing : 8	4351 3/27/2015	10:50:00 AM 5 12:10:00 PM	 	Drilling Company: SGS North America Drilling Method: Direct Push Rig Type: Geoprobe 7822DT Core Size: 2.0 in Project Manager: Scott Mikaelian	Coordinates (NJSP)	oordinates (NJSPNAD83) x: 611131.4 oordinates (NJSPNAD83) y: 682358.8 oring Total Depth: 20 ft epth to Water: NA		
		n: For	mer Narul	a Property - E		.,	•			
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thic	te bgs = below ground surface) Sample ID			
_ 1—				CONCRETE		CONCRETE, (advanced via starbit, 0	.5' void space).			
-3	3.5	0.0	dry	FILL		fine to medium SAND,some cinders,li gravel,coal fragments, slag, mottled s 3.8-4.1),loose,dry,no odor,no staining	ilt lens @	135-AA35A-1.5-2.0 135-AA35A-2.0-2.5		
5-		0.0	dry	FILL		CINDERS, some ash, little coal fragme fragments, (7.5YR 2.5/1) black, loose oxide staining.		135-AA35A-4.0-4.5		
-6	4	0.0	moist	FILL		ASH,and cinders,little fine sand,trace gravel,ceramics,(7.5YR 3/1) very dark gray,loose,moist,no odor,no staining.	fine to medium	135-AA35A-6.0-6.5		
8				NR		NO RECOVERY.		135-AA35A-8.0-8.5		
10-										
10 	5	0.0	moist	FILL		ASH,and cinders,little fine sand,trace gravel,ceramics,(7.5YR 3/1) very dark moist,no odor,no staining.		135-AA35A-10.0-10.5		
13-	-									
14—		0.0	moist	FILL		SILT,trace fibers,(7.5YR 2.5/1) black, soft,moist no odor,black staining.	low plasticity	135-AA35A-14.0-14.5		
15 <u> </u>		0.0	moist	FILL		SILT, some fine sand, (7.5YR 3/2) da moist,no odor, no staining.	rk brown, soft,	135-AA35A-15.4-15.9		
16 <u> </u>		2.3	moist	PT	**************************************	PEAT (degraded vegetated material),	noderate organic	135-AA35A-15.9-16.4		
17— 18— 19—	5	1.2		OL		UNDorg SILT, (90% organic silt, 10% fibrous with depth), (7.5YR 3/2) dark torganic odor,no staining. Soils consis	organic fibers, less prown, soft,slight			
20—										



Boring ID: 135-AA36A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611121.6Date Started Drilling:8/28/2015 8:00:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682332.2Date Finished Drilling:8/28/2015 8:01:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:Former Narula Property - Bld 65

Depth	D	DID	Maister				0
ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				CONCRETE	P 4 4 P	CONCRETE, (advanced via starbit, 0.5' void space).	
1					P P A P		
' _					P 4 P		
-2	5	0.0	dry	FILL		CINDERS, some ash, little brick fragments,coal slag, coal fragments(0.3' of brown sand at bottom), loose,dry,no odor,iron oxide staining.	135-AA36A-1.5-2.0
-3							135-AA36A-3.0-3.5
-4							
_							
-6-		0.0	moist	FILL		ASH, with cinders,some fine sand, little fine gravel,wood fragments,fill material, (7.5YR 3/1) very dark gray,loose,moist,no odor,no staining.	135-AA36A-5.0-5.5
-7-							405 44004 70 75
-8-	5						135-AA36A-7.0-7.5
-9							135-AA36A-9.0-9.5
10		0.0	dry	FILL		ASH,with cinders,some fine gravel,fine to medium sand,(7.5YR 2.5/1) black,dry,no odor,no staining.	
11—							135-AA36A-11.0-11.5
-13	3		wet	FILL		SILT,with fine sand,trace fibers,(2.5YR 5/1) reddish gray,soft,wet,no odor,no staining.	135-AA36A-13.0-13.5
14-				NR		NO RECOVERY.	
-15							405 44004 450 455
-		2.1	moist	FILL		SILT, and fine sand,trace fibers,medium gravel,(2.5YR 5/1) reddish gray,soft,moist, no odor,no staining.	135-AA36A-15.0-15.5 135-AA36A-15.5-16.0
16		2.1	moist	PT		PEAT (degraded vegetated material),(70% organic fibers, 30% organic silt),(7.5YR 3/2) dark brown,stiff,moist,moderate organic odor,no staining.	133-24304-13.5-10.0
-17	_	0.8	moist	OL		Soils consistent with MM.	
18	5			0-		UNDorg SILT,(90% organic fibers, 10% organic silt),(10YR 4/2) dark grayish brown,soft,moist,slight organic odor,no staining. Soils consistent with UNDorg.	
19						5	
-							
20							



Boring ID: 135-AA37A

Page: 1

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

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611106.4 Date Started Drilling: 9/8/2015 8:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682308.4

Date Finished Drilling: 9/8/2015 9:50:00 AM Boring Total Depth: 20 ft Core Size: 2.0 in Logged By: LM Depth to Water: 10.0 Project Manager: Scott Mikaelian

epth ange t bgs)	Recovery (ft/ft)		Moisture Content		Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE(advanced via starbit 0.2 void space).	
-1		0.0		FILL		ASH,some cinders little,coal fragments,trace fine to medium gravel,(7.5YR 2.5/1) black,loose, dry,no	135-AA37A-1.0-1.5
-2	4	0.0	moist	FILL		odor,iron oxide staining. fine to medium SAND,little fine to medium gravel,(5R 5/8) red,moist,no odor,no staining.	135-AA37A-3.0-3.5
4-				NR		NO RECOVERY.	
-5		2.3	moist	FILL		ASH, little coal,wood fragments,trace red fine sands,little fine gravel @ 5.0-5.5 (10YR 5/2) grayish brown,moist,no odor,no staining.	135-AA37A-5.0-5.5
7— -8—	5						135-AA37A-7.0-7.5
9							135-AA37A-9.0-9.5
10—		0.0	wet	FILL		SILT,(trace ash and cinder lens at 10-10.2),(organic material lens at 11.0-11.4),fine gravel,(10YR 5/2) grayish brown,soft,wet,no odor,no staining, DTW @ 10.0'	135-AA37A-11.0-11.5
-12 -13	4						135-AA37A-13.0-13.5
14				NR		NO RECOVERY.	155-24-57-4-15.0-15.5
15 - 16-		0.0	wet	FILL		SILT,some fine sands interbedded with dark brown silt,trace organics,(2.5YR 4/3) reddish brown,soft,wet,no odor,no staining.	135-AA37A-15.0-15.5
17—		1.9	moist	PT		PEAT (degraded vegetated material),(80% organic	135-AA37A-16.4-16.9 135-AA37A-16.9-17.4
10	3	1.5	moist	FI	<u> </u>	fibers, 20% silt),(10YR 3/3) dark brown,moist,no odor,no staining. Soils consistent with MM.	
18 —				NR		NO RECOVERY.	
19—							
20							



Boring ID: 135-AA38A

Page: 1

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

 Project Number:
 60314351
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611094.5

 Date Started Drilling:
 8/31/2015 10:00:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682278.6

Date Finished Drilling: 8/31/2015 11:30:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: MI Project Manager: Scott Mikaelian Depth to Water: 7.0

pth	_	515					
nge ogs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT.	
1 —				FILL		degraded ASPHALT,and subbase gravel(Trap Rock),(7.5YR 2.5/1) black,loose,no odor,no staining.	
' _		0.0	slightly	FILL		fine to medium SAND, with cinders, some ash, little	135-AA38A-1.0-1.5
			moist			coal,medium to coarse gravel,trace wood fragments,(7.5YR 2.5/2) very dark brown, slightly	
<u> </u>	4					moist,no odor,no staining.	
						, , , ,	
´ _							135-AA38A-3.0-3.5
. —							_
4				NR		NO RECOVERY.	
5-		0.0	moist	FILL		fine SAND,with silt,little fine gravel,cinders,dense, moist	135-AA38A-5.0-5.5
-		0.0	1110131	I ILL		to wet,no odor,no staining, slight black staining, DTW @	
3—						7.0'.	
\dashv							
7—	5						135-AA38A-7.0-7.5
\exists	ິນ						
3		0.0	moist	FILL		fine SAND, with silt, little fine gravel, (7.5YR 3/4) dark	1
,						brown,dense, moist,no odor,no staining.	
٠							135-AA38A-9.0-9.5
0-							
`		0.0	wet	FILL		fine to medium SAND, with silt, little medium gravel, trace ash, cinders lens @ 13.0-13.5, (7.5YR 4/2) brown, wet to	
1—						saturated,no odor,no staining.	135-AA38A-11.0-11.5
-							133-74-007-11.0-11.3
2-							
\dashv	5						
3—							135-AA38A-13.0-13.5
\exists		0.0	moist	FILL		SILT, with fine sand, interbedded with fine to medium	1
4—						gravel,trace clay orange mottling,(7.5YR 4/2) brown,low	
_						plasticity soft, moist to saturated, no odor, no staining.	
5		0.0	moist	FILL		SILT, and fine sand,interbedded with fine to medium	135-AA38A-15.0-15.5
6—						gravel,trace clay,orange mottling,(7.5YR 4/2) brown,low plasticity soft,moist to saturated,no odor,no staining.	
۵ _						plasticity soft, moist to saturated, no odor, no staining.	
7—		0.0					135-AA38A-16.5-17.0
4	5	2.3	moist	PT	7 7 7 7	PEAT (degraded vegetated material), (70% organic fibers, 30% organic silt),(7.5YR 3/2) dark	135-AA38A-17.0-17.5
8		1.1	moist	01	<u> </u>	 brown,stiff,moist,moderate organic odor,no staining. 	-
\dashv		1.1	moist	OL		Soils consistent with MM. UNDorg SILT, (80% organic silt, 20% organic fibers, less	
9—						fibrous with depth) (10YR 4/2) dark grayish brown, stiff,	
\dashv						moist slight organic odor no staining. Soils consistent with UNDorg.	
0-						with ONDOIG.	
					1		1

A.GDT - 11/21/17 11

LOGS

2012-09 RA PPG

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 135-B2

Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Eichelberger/Terra Probe Incorporated Project Number: 60240739 Drilling Method: Soft Dig/GeoProbe Coordinates (NJSPNAD83) x: 611196.6 Date Started Drilling: 12/14/2006 Coordinates (NJSPNAD83) y: 682514.8 Rig Type: Date Finished Drilling: 1/3/2007 Core Size: 12 in Boring Total Depth: 32 ft Logged By: P. Kelly, M. Merdinger Project Manager: Scott Mikaelian Depth to Water: Physical Location: Narula Property Surface Elevation: 10.3 ft NAVD88 Depth PID Recovery Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: ID (ft/ft) (ppm) Content Log (ft bgs) FILL dry Topsoil. FILL Wood planks and coarse Gravel. dry FILL Dark Brown corase SAND, some fine Gravel, little glass 135-B2A (0.9-1.4)J49295-7 dry 135-B2B (2.1-2.6)J49295-8 dry FILL Gray coarse SAND, ASH, some fine Gravel, little glass pieces, trace roots 135-B2C (3.4-3.8)J49295-9 wet FILL Black stained, Brown fine to coarse GRAVEL, some Ash, organics, wet. Strong coal tar odor.

Very dark Gray (7.5YR 3/1) medium to coarse SAND, FILL wet 135-B2D (4.5-5.0)J49295-10 FILL little Silt, wet. Slight napthalene odor. wet Brown (7.5YR 4/2) SILT, some large wood pieces, wet, loose. No odor. wet FILL Gray (7.5YR 5/1) ASH, some Fill materials (ceramics, tile, coal, glass), trace Silt and Clay, wet, loose. No odor. NR wet No Recovery **FILL** Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill wet materials (metal, wood pieces, shell fragments), trace Silt 135-B2E and Clay, wet, loose. No odor. NR wet No Recovery 12 wet FILL Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (some coal tar, glass), trace Silt and Clay, wet, 135-B2F loose. No odor. 13 FILL Black stained CLAY, coal tar, wet, soft. No odor. wet 135-B2G Pale Brown (10YR 6/3) and light Gray (10YR 7/1) mottled **FILL** wet CLAY, some gray-mint greenish staining, moist, soft, NR slightly chaulky. No odor. wet No Recovery 16 135-B2H wet **PEAT** PEAT, very organic, water has a slight sheen, wet, soft. Strong sulfur odor. 19 NR No Recovery wet 135-B2I **CLAY** Dark Gray (5Y 4/1) organic CLAY, trace organics, moist, moist soft. Sulfur odor. bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

Boring ID: 135-B2

	Name: F					Drilling Company: Eichelberger/Terra Pr		
<u>Project</u>	Number:	60240)739			Drilling Method: Soft Dig/GeoProbe	Coordinates (NJSP	NAD83) x: 611196.6
Date Started Drilling: 12/14/2006						Rig Type: Coordinates (NJ		IAD83) y: 682514.8
Date Fir	nished Dri	illing:	1/3/2007			Core Size: 12 in	Boring Total Depth:	32 ft
			l. Merdinge	r		Project Manager: Scott Mikaelian	Depth to Water:	
			ula Propert		'		Surface Elevation:	10.3 ft NAVD88
			,	,				
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thic	kness:	Sample ID
-23			moist	SILT		Dark Gray (5Y 4/1) SILT, some very f medium dense. Sulfur odor.	fine Sand, moist,	135-B2J
			moist	NR		No Recovery		
24			moist	SAND		→ Dark Gray (5Y 4/1) SILT and medium		1
\dashv			wet	AND		\trace Clay, moist, loose. Slight sulfur	odor. /	
-25				SILT		Dark Gray (5Y 4/1) very fine silty SAN	ND, wet, loose.	4
			moist	SILTY SAND		Slight sulfur odor. Dark Gray (5Y 4/1) medium sandy Cl	_AY, moist, medium	
-26) vot	CLAY	1	stiff. No odor.		1
4			wet	AND SAND		Reddish Brown (5YR 4/3) very fine to trace rounded fine gravel, wet, loose.		
–27 –– –			wot	SAND NR		No Recovery		_
-28			wet	SILT		Reddish Brown (5YR 4/3) silty CLAY,	little fine to	_
29				AND CLAY		medium Sand, wet, loose. No odor.		
30			wet	SAND		Grayish Brown (10YR 5/2) fine to med interbedded Clay, wet, loose. No odo		
31—			wet	SILTY SAND		Weak Red (10R 5/4) very fine SAND dense. No odor.	(silty), wet, medium	
-32			wet	NR		No Recovery		
	ow surface g adow mat		COPR - chroi GGM - green	mite ore proce grey mud	essing res	idue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo		ufactured gas plant omate chemical production wast

ENSR AECON	Client: PPG Industries			NG ID:		
ENSR AECON	Site: Site 135		13	5-B3		
Start Date:	Project: Site Investigation		Page: 1 of 3			
1/26/2007	Coordinates: X-610977.8 Y-68231	2.2	Depth of Bo	ring: 28.00		
End Date:	Elevation: 9.3 ft NAVD88		Geologist:	P. Kelly		
1/26/2007	Drill Subcontractor: Terra Probe Incorpor		Driller: Hea	th Kneller		
Depth (tt) Lithology	Description	PID (PPm)	Sample ID	Sample		
0_	ILL: Very Dark Gray (5Y 3/1) coarse SAND, some					
× × fi	ne gravel-sized COPR (15%), trace silty Clay and rick fragments, dry.					
× × × × × ×		0.0 ppm	135-B3A (1.1-1.6)	Cr+6, TAL Metals		
2		0.0 ppm				
× × × × × × × × × × × × × × × × × × ×						
×^×^ ×××		0.0 ppm	135-B3B (3.4-4.0)	Cr+6, TAL Metals		
4 × × × ×	ILL: Black (10YR 2/1) ASH, some fine to medium	91.3 ppm	(3.4-4.0)			
× × × G	ravel, little ceramic fragments, wet. Sheen and irong MGP odor.					
× × × × × ×						
6-		45.1 ppm				
×××						
1 N	R: No Recovery					
U× × G	ILL: Black (10YR 2/1) ASH, some fine to medium ravel, little ceramic fragments, wet. Sheen and trong MGP odor.	72.1 ppm				
× × × × × × × × × × × × × × × × × × ×	irong MGP odor.					

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

ENSR AECOM	Client: PPG Industries			NG ID:		
LIVSK ALCOM	Site: Site 135		13	5-B3		
Start Date:	Project: Site Investigation		Page: 2 of 3			
1/26/2007	Coordinates: X-610977.8 Y-682312	2.2	Depth of Boring: 28.00			
End Date:	Elevation: 9.3 ft NAVD88	Geologist: F				
1/26/2007	Drill Subcontractor: Terra Probe Incorporate	Driller: Heat	n Kneller			
Depth (tt) Lithology	Description	PID (bbw)	Sample ID	Sample Parameters		
	L: Very Dark Grayish Brown (10 YR 3/2) SILT and AY, some Black organic matter, trace fine to coarse vel.					
NR:	No Recovery		135-B3C (10.5-10.8)	Cr+6, TAL Metals		
12—		NA				
14—						
CLA	AY: Dark Gray (5G 4/1) CLAY, little organic matter, , moist.	0.0 ppm	135-B3D (16.0-16.1)	Cr+6, TAL Metals		
		0.0 ppm				
18+		0.0 ppm				

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

ENSR AECOM	Client: PPG Industries			NG ID:	
ENSK AECOM	Site: Site 135		13	5-B3	
Start Date:	Project: Site Investigation		Page: 3 of 3		
1/26/2007	Coordinates: X-610977.8 Y-68231.	Depth of Boring: 28.00			
End Date:	Elevation: 9.3 ft NAVD88	Geologist: F			
1/26/2007	Drill Subcontractor: Terra Probe Incorpora		Driller: Heat	h Kneller	
Debity (41) Tityology	Description	biD (bbw)	Sample ID	Sample Parameters	
	AY AND SAND: Dark Gray fine SAND and CLAY, ce organic matter, moist	0.0 ppm			
22 + -\(\frac{1}{2}\)-\(0.0 ppm	135-B3E (21.6-23.0)	Cr+6, TAL Metals	
	:: No Recovery				
	AY AND SAND: Dark Gray fine SAND and CLAY, ce organic matter, moist	0.0 ppm			
26		0.0 ppm			
SA	ND: Weak Red (2.5YR 5/2) coarse SAND, some e Gravel, moist.		135-B3F (26.3-26.7)	Cr+6, TAL Metals	
NR	: No Recovery				
28 \(\bigcup \text{NU} \)	LL: End of Boring at 28 ft.				

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



Project Name: PPG Garfield Ave

Boring ID: 135-BB27A

Page: 1 Drilling Company: SGS North America

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611271.1 **Date Started Drilling:** 8/21/2015 11:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682559.2 Date Finished Drilling: 8/21/2015 11:19:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

	d By: M.I al Location		mer Narul	a Property - E	F 3ld 83 (A	lley)		
epth inge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn		= below ground surface) Sample ID
		0.0	de .	ASPHALT	×××××	ASPHALT.		135-BB27A-0.3-0.8
. 7		0.0	dry	FILL		fine to medium SAND, with fine to mediu		133-BB21A-0.3-0.0
1		0.0	dry	FILL		 ash,cinders,(7.5YR 3/2) dark brown,loos staining. 	se,ury,no odor,no	
_					\bowtie	ASH,and cinders some fine to medium		
2	5				\bowtie	dark grayish brown,loose,dry,no odor,ox	kidation staining.	135-BB27A-2.0-2.5
⊣	5				\bowtie			
3—		53.4	slightly	FILL		fine to medium SAND, little fill material, a	ash and cinders	
\exists			moist			lens @ 4.5-5.0, loose,slightly moist,mod	derate petroleum	
4					\bowtie	odor,hydrocarbon staining.		135-BB27A-4.0-4.5
5—		93.4	moist	FILL		ASH, and cinders, some fine to medium	sand,fill material,	
\Box						glass fragments, wood fragments, moist	to wet,slight	
3—					\bowtie	hydrocarbon odor,hydrocarbon staining, water, DTW @ 7.0' bgs	, slight sheen on	135-BB27A-6.0-6.5
_								
7—	3.5	5.2	moist	FILL		ASH, and cinders some fine to medium	sand,fill	
$ \top $	5.5					material, glass fragments, wood fragmen	its,moist to wet	
3—						slight,hydrocarbon odor,hydrocarbon sta sheen on water	airiing, siight	135-BB27A-8.0-8.5
√		0.0		NR		NO RECOVERY.		
9—								
\Box								
0-		0.0	moist	FILL		ASH, and cinders, some fine gravel, fill m		135-BB27A-10.0-10.5
						5/1) gray,loose,moist,no odor,no stainin	ıg.	
1—								
2—								
_]	5				\bowtie			135-BB27A-12.0-12.5
3					\bowtie			
ٽ ا								
4—								
- □		0.0	moist	FILL		SILT, some fine sand little ash, wood frag		135-BB27A-14.0-14.5
5						material,fibers,fine gravel,(7.5YR 3/1) vo gray,moist,no odor, black staining.	ery dark	
		0.0	moist	FILL		SILT, and fine sand, little fine gravel, trace		
6—						dark reddish gray, soft,moist to wet,no o		135-BB27A-15.5-16.0
,		3.2	moist	PT		PEAT (degraded vegetated material), (8 fibers, 20% organic silt), (7.5YR 3/3) da		135-BB27A-16.0-16.5
7—		4 :			<u> </u>	brown,stiff,moist moderate organic odor	r. Soils consistent	
. 7	5	1.4	moist	OL	 	with MM.	/	
8						UNDorg SILT,(90% organic silt, 10% organic silt, 10% organic silt, 10% organic odor,		
_		2.1	moist	OL		consistent with UNDorg.	/	
9—						UNDorg SILT, (70% organic silt, 30% or	rganic fibers), low	
_		0.9	moist	OL		plasticity soft, moist slight organic odor, consistent with UNDorg.	no staining. Soils /	
0-						UNDorg SILT, (90% organic silt, 10% or	rganic fibers), low	
						plasticity, soft, moist, slight organic odo	r, no staining.	
						Soils consistent with UNDorg.	 /	
	I			I	I			



Boring ID: 135-BB28A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611258.3Date Started Drilling:9/17/2015 8:50:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682531.5Date Finished Drilling:9/17/2015 12:15:00 PMCore Size:3.0 inBoring Total Depth:20 ftLogged By:M.IrvingProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:Former Narula Property - Bld 83

epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1-				CONCRETE		CONCRETE, (advanced via starbit, 0.4' of void space).	
-2 -3	4	0.0	slightly moist	FILL		ASH, some cinders, little wood fragments, coal fragments, trace brick fragments, (7.5YR 2.5/1) black,slightly moist, loose, iron oxide staining.	135-BB28A-1,2-1.7
-4				NR		NO RECOVERY.	
5		11.3	moist	FILL		ASH,some cinders,little wood fragments(creosote odor),(7.5YR 4/1) dark gray,loose,moist,slight black	135-BB28A-5.5-6.0
6		202	moist	FILL		staining. ASH,some cinders,little wood fragments (petroleum impacts @ 6.5-7.0),(10YR 4/1) dark	
-8 -9	5	9.1	moist	FILL		gray,loose,moist,moderate petroleum odor,sheen. fine SAND, little silt, (2.5YR 5/1) reddish gray,moist,soft,no odor,no staining.	135-BB28A-7.5-8.0
10 -		0.0	moist	FILL		ASH, some cinders, little fine to medium gravel, trace fine sand, wood fragments (creosote odor) (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-BB28A-9.5-10.0
12— 13—	5						135-BB28A-11.5-12.0
14							135-BB28A-13.5-14.0
15 - 16 -		0.0	moist	FILL		fine to medium SAND,trace ash,(2.5YR 4/1) dark reddish gray,dense,moist to wet,no odor,no staining.	135-BB28A-15.8-16.3
- 17	3	2.7	moist	PT	77 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown,moist,moderate organic odor,no staining. Soils consistent with MM.	135-BB28A-16.3-16.8
18 — - 19 —				NR		NO RECOVERY.	
20							



Boring ID: 135-BB31A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Entact Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611210.3

 Date Started Drilling:
 3/23/2016 1:00:00 PM

 Date Finished Drilling:
 3/23/2016 1:30:00 PM
 Rig Type: Excavator
Core Size: 4.0 in Coordinates (NJSPNAD83) y: 682444.5 Boring Total Depth: 6.7 ft

gged By: E ysical Locat		rula		J.	Project Manager: Scott Mikaelian	Depth to Water: NA	
	$\overline{}$					(Note	bgs = below ground surface)
epth ange bgs)	y PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickr	ness:	Sample ID
	0.0	dry	CONCRETE	0 0 0 0	Concrete (Basement slab), (9.5/2.5Y_/	1) white, dry no	
1.2	0.0	wet	FILL		odor, no staining. Ash, little silt, trace wood, debris and co	oal. (10YR 5/2)	135-BB31A-0.7-1.2
1.5	0.0	saturated	FILL		grayish brown, non plastic loose, wet no staining. fine to coarse SAND, some gravel (10)	o odor, no	
_	0.0	saturated	FILL		loose, saturated no odor, no staining. fine to coarse SAND, some gravel, trace	e ash (10VR 4/3)	135-BB31A-2.7-3.2
2.5		Saturated	I ILL		brown, loose, saturated no odor no stai	ning.	
-5-							135-BB31A-4.7-5.2
61.5	0.0	dry	PT	\(\frac{\frac}\frac{\frac}\firi}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac	PEAT (70% organic fibers, 30% organic dark reddish brown,stiff,dry,slight organ staining. Soils consistent with MM.	c silt), (5YR 3/4) nic odor,no	135-BB31A-5.2-5.7



Boring ID: 135-BB32A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611202.3
Date Started Drilling: 9/15/2015 8:40:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682425.9
Date Finished Drilling: 9/15/2015 10:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 11.0
Physical Location: Former Narula Property - Bld 71		

Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_ -1-				CONCRETE		CONCRETE, (advanced via starbit, void space 0.5').	
	4	0.0	slightly moist	FILL		ASH,with cinders,some coal fragments,little wood fragments,(10YR 3/6) dark yellowish brown,loose,slightly moist,no odor,iron oxide staining.	135-BB32A-1.3-1.8
-4				NR		NO RECOVERY.	135-BB32A-3.0-3.5
_				INFC		NO RECOVERT.	
-5 -6		0.0	moist	FILL		ASH, some cinders, little fine to medium gravel, ceramics, (7.5YR 4/1) dark gray, loose, moist,no odor,no staining.	135-BB32A-5.0-5.5
-7 - -8	5					135-BB32A-7.0-7.5	
-9 - -10							135-BB32A-9.0-9.5
-10 11		4 0.0 wet	wet	FILL		ASH, some fine to medium gravel,little cinders,trace wood fibers(slight cerosote odor), loose,wet,no odor,slight black staining,DTW @ 11.0.	135-BB32A-11.0-11.5
-12 -13	4						135-BB32A-13.0-13.5
-14 -				NR		NO RECOVERY.	
15		0.0	moist	FILL		ASH,little cinders,fine to medium sand,fine to medium	135-BB32A-15.0-15.5
_		0.0	moist	FILL		gravel,trace ceramics,(7.5YR 5/1) gray,loose,moist,no	135-BB32A-15.5-16.0
-16 — - -17— -	3	2.4	moist	PT		odor,no staining. fine to medium SAND,trace fibers,cinders,slight mottling,(10YR 4/2) dark grayish brown,dense,moist,no odor,slight black staining. PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark	135-BB32A-16.0-16.5
-18 — - -19 — -				NR		brown,stiff,moist,moderate organic odor,no staining. Soils consistent with MM. NO RECOVERY.	
-20							
ommer	nte: 1) 3 atte	moto wo	ro mode to	abtain baat raa) (Om (O) MA		atam al af this having



Boring ID: 135-BB33A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611187.2

 Date Started Drilling:
 9/4/2015 8:00:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682398.8

 Date Finished Drilling:
 9/4/2015 9:45:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

., 5.00	al Location	01	1				(Note	bgs = below ground surface)
epth inge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick		Sample ID
1—		0.0		CONCRETE		crushed CONCRETE(advnaced via staspace)	arbit, 0.5 void	
2— 3—	4	0.0	dry	FILL		CINDERS,some ash,trace fine to med sands,gravel,coal,(10YR 5/1) gray,dry staining.	fium r,no odor,no	135-BB33A-1.3-1.8 135-BB33A-3.3-3.8
4—				NR	XXXXX	NO RECOVERY.		
5— 6— 7—	0.0 slightly moist CINDERS,trace ash,coal,ceramics,(10YR 5/1) gray,loose,slightly moist,no odor,no staining.		OYR 5/1) aining.	135-BB33A-5.3-5.8				
8— 9—	5							135-BB33A-7.3-7.8
0								135-BB33A-9.3-9.8
1—		0.0	moist	FILL		CINDERS,trace coal,ash,wood fragme gray,loose,moist,no odor,no staining.	ents, (10YR 5/1)	135-BB33A-11.3-11.8
2 3 4	5							135-BB33A-13.3-13.8
5 6		0.0	moist	FILL		CINDERS,trace ash,fine sand,coal, (1 gray,loose,moist,no odor,no staining.	0YR 6/1)	135-BB33A-15.3-15.8
-		0.0	moist	FILL		fine to medium SAND,and silt,trace gr dark gray,low plasticity,medium dense		135-BB33A-16.5-17.0
7—	5	0.0	moist	PT	17 717 7 71 717 7	odor,no staining. PEAT (degraded vegetated material), fibers, 30% organic silt), (10YR 4/3) bi	(70% organics	135-BB33A-17.0-17.5
8 — 9 — 		0.0	moist	OL		medium dense, moist, moderate organi Soils consistent with MM. UNDorg SILT, (70% organic silt,30% (10YR 4/3) brown, low plasticity, medi slight organic odor, no staining. Soils of	organics fibers), um dense, moist,	
						3.123.g.		



Boring ID: 135-BB34A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611171.7Date Started Drilling:9/8/2015 10:15:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682370Date Finished Drilling:9/8/2015 11:30:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:LMProject Manager:Scott MikaelianDepth to Water:10.0Physical Location:Former Narula Property - Bld 71

pth nge ogs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
- 3 ⁻ /		0.0		CONCRETE	2442	CONCRETE, (advanced via starbit, 0.5 void space.)	
1—				OGNORETE		content Lie, (dutaneed via statisti, s.e void space.)	
2	4	0.0	dry	FILL		ASH, and cinders,little coal fragments,trace weathered brick, glass fragments, (10YR 6/1) gray, dry,no odor,iron oxide staining.	135-BB34A-1.5-2.0
3-							135-BB34A-3.0-3.5
1—				NR	*****	NO RECOVERY.	-
5— - 3—		0.0	slightly moist	FILL		ASH, and cinders,little coal fragments, (red fine sands lens @ 5.3 to 5.5),trace glass fragments, (10YR 5/1) gray,slightly moist, no odor, iron oxide staining.	135-BB34A-5.0-5.5
3	5	0.0	moist	FILL		ASH, and cinders, some coal fragments, trace wood fragments, trace glass fragments, (10YR 2/1) black, moist, slight hydrocarbon odor, no staining.	135-BB34A-7.0-7.5
)—							135-BB34A-9.0-9.5
) 		0.0	wet	FILL		ASH, and cinders, some coal fragments, some fine to medium gravel, trace glass fragments, (10YR 2/1) black, wet, no odor, no staining, DTW @ 10.0'.	
	5					3, 3	135-BB34A-11.0-11.5
3	3	0.0	wet	FILL		fine to medium SAND,and silt, little coarse gravel (cinders lens @13.0-13.2), (5YR 4/3) reddish brown,wet,no odor,no staining.	135-BB34A-13.0-13.5
5		0.0	wet	FILL		fine to madium SAND and silt little coarse group! (EVD	135-BB34A-15.0-15.5
5 -		1.2	wet	OL		fine to medium SAND,and silt,little coarse gravel,(5YR 4/3) reddish brown,wet,no odor,no staining. UNDorg SILT, (90 % organic silt, 10% organic fibers), (10YR 5/2) grayish brown, stiff,moist slight organic odor,no staining. Soils consistent with UNDorg.	135-BB34A-15.5-16.0
7— 8—	2			NR		NO RECOVERY.	_
9—							
0							



Boring ID: 135-BB35A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Drilling Method: Direct Push

Project Number: 60314351 Coordinates (NJSPNAD83) x: 611146.4 Date Started Drilling: 9/2/2015 8:05:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682362.2 Date Finished Drilling: 9/2/2015 8:45:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

hysica	al Location	n: For	mer Narul	a Property - E	3ld 71			
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thic		= below ground surface) Sample ID
		0.0		ASPHALT	XXXXX	ASPHALT.		
		0.0	-1	FILL	\bowtie	Subbase Gravel (Trap Rock).		
1—		0.0	dry	FILL		ASH, and cinders, some coal slag,co fine gravel,fine sand, (7.5YR 5/1) gra oxide staining,blue stained sand aggi	y,dry,no odor,iron	
2— 3— 4—	2			NR		NO RECOVERY.		
5— 6—		0.0 mo		FILL		ASH,some cinders,little fine sand,fine fragments,(7.5YR 4/1) dark gray,loos staining.	e gravel,wood ee,moist,no odor,no	135-BB35A-6.0-6.5
7— 8—	3			NR		NO RECOVERY.		
9—								
11—			saturated			fine to coarse SAND,some silt, little f gravel,(11.0-11.9 black wood fragmei (7.5YR 4/2) brown,loose,saturated,no DTW @ 10.0'.	nts,no silt, no sand), o odor,no staining,	135-BB35A-10.0-10.5
12— 13— 14—	5	0.0	moist	FILL		SILT,interbedded with fine sand,som 5/3) reddish brown,soft,moist,no odor	e mottling,(2.5YR r,no staining.	
15		0.0	moist	FILL		SILT,interbedded with fine sand,some	e mottling,(2.5YR	135-BB35A-14.9-15.4
\dashv		2.1	moist	PT	<u> </u>	5/3) reddish brown,moist,soft,no odor	r,no staining.	135-BB35A-15.4-15.9
16— — 17— — 18— — 19— —	5	1.6	moist	OL		FEAT (degraded vegetated material) fibers, 30% organic silt),(7.5YR 3/3) of brown,moist,moderate organic odor,rounistent with MM. UNDorg silt, (90% organic fibers, 20% fiborus with depth) (10YR 4/2) dark gorown,moist,slight organic odor,no stonsistent with UNDorg.	dark no staining. Soils % organic silt,less rayish	135-BB35A-15.9-16.4
	44.4\2.4					M/UND confirmed to be 1 ft thick 3) No CCPW (C		

PPG - 2012-09 RA PPG_LOGS_A.GDT - 4/4/16 17:05

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Boring ID: 135-BB35AR

Page: 1

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

Drilling Method: Direct Push

Project Number: 60240739 Coordinates (NJSPNAD83) x: 611161.4 **Date Started Drilling:** 2/25/2016 12:30:00 PM Rig Type: Geoprobe 7855DT Coordinates (NJSPNAD83) y: 682345.3 Date Finished Drilling: 2/25/2016 2:00:00 PM Core Size: 4.0 in Boring Total Depth: 20 ft

	d By: E.S		2/20/2010	2:00:00 PM		Project Manager: Scott Mikaelian	Depth to Water: 5.5	
	al Location		rula				(Note	bgs = below ground surface)
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	C Surface Cover and Thick	,	Sample ID
_		0.0	dry dry	ASPHALT ASPHALT	,	 ASPHALT, (10YR 2/1) black, dry no od Road sub-base, fine to medium SAND, 	some gravel,	
-1 -2 -3	3.5	0.0	dry	FILL		(10YR 4/3) brown, dry no odor no stain fine to medium SAND, little coal, trace (5YR 3/2) dark reddish brown, medium odor, no staining.	brick and ash,	135-BB35AR-1.0-1.5 135-BB35AR-3.0-3.5
4				NR		NO RECOVERY.		
5		0.0	moist	FILL		fine to medium SAND, some ash, trace		135-BB35AR-5.0-5.5
6	_	0.0	wet	FILL		reddish brown, medium dense, moist to staining, Depth to Water @ 5.5 ft bgs. SILT, some gravel, trace fine sand, (5Y brown, soft, wet, no odor, no staining.	. /	
8	5							135-BB35AR-7.0-7.5
9— - 10—		0.0						135-BB35AR-9.0-9.5
- 11— - 12—	5	0.0	saturated	FILL		SILT, little fine sand, trace wood, (5YR brown, soft, wet, no odor, no staining.	4/3) reduisir	135-BB35AR-11.0-11.5
13 <u> </u>								135-BB35AR-13.0-13.5 135-BB35AR-14.0-14.5
- 15		0.0			<u> </u>			135-BB35AR-14.5-15.0 135-BB35AR-15.0-15.5
-16 -17 -18 -19 -20	5	0.0	dry moist	PT OL		PEAT (70% Organic fibers, 30% organ dark reddish gray, soft to medium stiff, staining. Soils consistent with MM UNDorg, (80% organic silt, 20% organi 4/2) dark grayish brown, moist no odor consistent with UNDorg.	dry, no odor, no c fibers). (10YR	135-BB35AR-15.5-16.0
						rdisturbed Native Deposits ("UND") confirmed to be equal to or greater		

A.GDT - 11/29/17

2012-09 RA PPG LOGS

Boring ID: 135-BB36A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611148.9 Date Started Drilling: 2/25/2016 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682318 Date Finished Drilling: 2/25/2016 12:20:00 PM Core Size: 4 in Boring Total Depth: 20 ft Depth to Water: Logged By: E.Stone Project Manager: Scott Mikaelian Surface Elevation: 11.4 ft NAVD88 Physical Location: Narula Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) ΙĎ (ppm) Content Log (ft bgs) 0.0 ASPAHLT, (10YR 2/1) black, dry no odor no staining. dry **ASPHALT** 0.0 dry **ASPHALT** Road sub-base, fine to coarse SAND, some gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no 135-BB36A-1.5-2.0 0.0 FILL dry ASH, trace brick, (7.5YR 2.5/1) black, dense, dry, no odor, no staining.
fine to medium SAND, little gravel, trace wood debris, 0.0 **FILL** dry (10YR 5/2) grayish brown, dense, dry, no odor, no 0.0 staining. 135-BB36A-3.5-4.0 **FILL** dry ASH, some wood, (10YR 3/1) very dark gray, loose, dry, NR no odor, no staining. NO RECOVERY. 0.0 dry **FILL** ASH, trace fill debris and coal fragments, (7.5YR 2.5/1) black, dry, no odor, no staining. 0.0 135-BB36A-5.5-6.0 FILL wet fine to medium SAND, some gravel, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, Depth to Water 5.5 ft bgs. 3.5 135-BB36A-7.5-8.0 NO RECOVERY. NR 135-BB36A-9.5-10.0 FILL Silt, some gravel, little fine sand, (5YR 4/3) reddish wet brown, wet, no odor, no staining. 0.0 135-BB36A-11.5-12.0 12 4.5 13 0.0 **FILL** fine to medium SAND, trace ash, (5YR 4/3) reddish dry brown, medium dense, dry, no odor, no staining 135-BB36A-13.5-14.0 135-BB36A-14.0-14.5 0.5 РТ PEAT (80% organic fibers, 20% organic silt), (5YR 3/4) dry dark reddish brown, stiff, dry slight organic odor no NR staining. 11/ 11/ 0.5 PT NO RECOVERY dry PEAT (80% organic fibers, 20% organic silt), (5YR 3/3) 0.0 OL dry dark reddish brown, stiff, dry slight organic odor no 16 UNDorg (80% organic silt, 20% organic fibers), (10YR 5/2) grayish brown, medium stiff, dry no odor no staining. 5 19 20 bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

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.

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Boring ID: 135-CC28A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611283.3
Date Started Drilling: 2/25/2016 8:30:00 AM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682519.3
Date Finished Drilling: 2/25/2016 9:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: Narula		
		(Nata has a halous assumed surface)

epth	_							
nge ogs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_ 1 — _		0.0	dry	1 C	ONCRET	NO SES SES SES SES SES SES SES SES SES SE	CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining.	
2	4.5	0.0	dry	3	FILL		ASH, (7.5YR 2.5/1) black, loose, dry, no odor,	135-CC28A-2.0-2.5
- 3— -	0	0.6	dry	3	FILL		no staining. CINDERS, some coal fragments, trace ash, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
_		0.0	dry	3	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	135-CC28A-4.0-4.5
				3	NR		NO RECOVERY.	
- 5 -		45.0	moist	3	FILL		ASH, little cinders, trace porcelain, (10YR 5/1) gray, loose, moist to wet, moderate petroleum odor, product staining and sheen from 5.0-6.0 ft bgs, free product observed from 6.0-7.0 ft bgs, Depth To Water @ 6.0 ft bgs.	135-CC28A-6.0-6.5
_	3.5	2.5	wet	3	FILL		SILT, little gravel, little to trace fine sand, (5YR 4/3) reddish brown, soft, wet, slight petroleum odor, product smearing/staining.	
		0.0	wet	3	FILL		ASH, trace glass and coal, (10YR 5/1) gray, wet, no odor, no staining.	135-CC28A-8.0-8.5
· -		0.0		3	NR		NO RECOVERY.	
)— — 		0.0	wet	3	FILL		ASH, little wood, trace glass, (10YR 5/1) gray, loose, wet, no odor, no staining.	135-CC28A-10.0-10.5
<u>2</u> - 3	5							135-CC28A-12.0-12.5
1— —								135-CC28A-14.0-14.5
5		0.0	moist	3	FILL		ASH, some cinders, (10YR 4/1) dark gray, loose, moist, no odor, no staining.	
5— - 7—	5							135-CC28A-16.0-16.5
3								135-CC28A-18.0-18.5
		0.0	moist	3	FILL		Silt, little fill debris, trace wood, (2.5YR 4/2) weak red,	135-CC28A-18.5-19.0
9—		0.5	slightly moist	7	PT	1, 11, 1	soft, moist, no odor, no staining. PEAT (80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist,	135-CC28A-19.0-19.5



PPG - 2012-09 RA PPG_LOGS_A.GDT - 4/18/16 08:21

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Boring	ID:	135-	CC28/	١
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Page: 2

Project Date Sta Date Fir Logged	nished Dri By: E.S	60240 ing: 2/ Iling: 2	739 /23/2016 8 2/25/2016			Drilling Company: Drilling Method: Rig Type: Geopre Core Size: 2.0 in Project Manager:	bbe 7855DT	Coordinates (NJSPNAI Coordinates (NJSPNAD Boring Total Depth: 20 Depth to Water: 6.0	83) y: 682519.3
Pnysica	I Location	ı: Narı	Jia					(Note ba	s = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and		Sample ID
						organic oc	lor, no staining.Soils co	nsistent with MM	
						organic of	lor, no staining.Soils co	nsistent with MM	
Community	4) 2 offerente us			2) Ma	adaw Mat (III Ma	M ledistate of Markey Donneits (III M		than 1 ft thick 3) No CCPW (COPR or GGM)	



Boring ID: 135-CC30A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611258.1

Date Started Drilling: 9/17/2015 10:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682469.8

Date Finished Drilling: 9/17/2015 11:20:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: M. Irving Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: Former Narula Property - Bld 77

						(NOII)	e bgs = below ground surface)
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_ -1—				CONCRETE		CONCRETE, (advanced via starbit, 0.5 void space).	
-2 -3 -	4	0.0	slightly moist	FILL		CINDERS,little ash and fine to medium sand,trace metal slag,coal fragments,(7.5YR 2.5/1) black,slightly moist,no odor,iron oxide staining.	135-CC30A-1.5-2.0 135-CC30A-3.5-4.0
4				NR		NO RECOVERY.	
6		0.0	moist	FILL		ASH,some cinders,little wood fragments,fine to medium gravel,(7.5YR 5/1) gray,loose,moist,no odor,no staining.	135-CC30A-5.5-6.0
7-	5	129	moist	FILL		ASH,some cinders,little wood fragments,(petroleum impacts @ 6.5-7.0),(7.5YR 5/1) gray,loose,moist,moderate petroleum odor,hydrocarbon staining.	
-8 -9		10.1	moist	FILL		ASH,some cinders,little fine sand,wood fragments(creosote odor)(7.5YR 4/1) dark gray,loose,moist,black staining.	
,							135-CC30A-9.5-10.0
10— - 11— -		3.4	moist	FILL		ASH, little cinders and wood fragments(creosote odor),trace fine to medium gravel,(7.5YR 2.5/1) black, loose,moist to saturated,no staining.	135-CC30A-11.5-12.0
12 - 13 -	4						
14				NR		NO RECOVERY.	135-CC30A-13.5-14.0
15 - -		0,0	moist	FILL		ASH, some cinders, little fine to medium gravel, trace ceramics, wood fragments(creosote odor), (7.5YR 4/1)	135-CC30A-15.5-16.0
16—		0.0	moist	FILL		dark gray,moist,black staining. fine to medium SAND,trace ash,cinders,(10YR 4/2) dark	135-CC30A-16.2-16.7
17— 	3	3.1	moist	PT		grayish brown,loose,moist to wet,no odor,no staining. PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 3/2) dark	135-CC30A-16.7-17.2
18 —				NR	\\\\\	brown,moist,moderate organic odor,no staining.Soils consistent with MM. NO RECOVERY.	
19							
20 <u> </u>							

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.



Boring ID: 135-CC31A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611242.6

 Project Number:
 60240739
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611242.6

 Date Started Drilling:
 2/25/2016 9:30:00 AM
 Rig Type:
 Geoprobe 7855DT
 Coordinates (NJSPNAD83) y:
 682439.1

 Date Finished Drilling:
 2/25/2016 10:20:00 AM
 Core Size:
 4.0 in
 Boring Total Depth:
 20 ft

Logged By: E.Stone Project Manager: Scott Mikaelian Depth to Water: 6.5

epth nge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cover and Th	nickness:	Sample ID
1-		0.0	dry	CONCRETE	2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	CONCRETE, staining.	(9.5/2.5Y_/1) white, o	iry no odor no	
3-	5	0.0	dry	FILL		ASH, little cin no staining.	ders, (10YR 5/1) gray	, loose, dry no odor	135-CC31A-2.0-2.5
5		0.0	dry	FILL		fine to medium 4/3) brown, de	m SAND, some concreense, dry, no odor, no	ete, little ash, (10YR staining.	135-CC31A-4.0-4.5
7		0.0	dry	FILL		ASH, trace co	oal fragments, (9.5/2.5	SY_/1) white, loose,	
		3.5	moist	FILL		dry no odor n	<u>o staining.</u> m SAND, little cinders	trace silt (5VR 4/3)	
6— 7—	3.5	31.0	wet,	FILL		ASH, some w gray, wet, mo	n, moist, slight petrole vood, little fill debris, (* derate petroleum odo er @ 6.5 ft bgs.	um odor, no staining. / IOYR 3/1) very dark	135-CC31A-6.0-6.5
8—		4.4	slightly	FILL		ASH, little cin	ders, trace fill debris,	(10YR 5/1) gray,	135-CC31A-8.0-8.5
9-			moisť	NR	*****		moist, slight petroleu		
0		0.0	slightly	FILL		ASH, some c	inders, (10YR 2/1) bla	ck, loose, slightly	135-CC31A-10.0-10.5
11		0.0	moist wet	FILL		moist, no odd ASH, (10YR	or, no staining. 5/1) gray, loose, wet n	o odor no staining.	407-000/
3	4.5								135-CC31A-12.0-12.5
"		0.0	moist	FILL		SILT, little wo	od, trace gravel and c	organics (grass),	135-CC31A-14.0-14.5
5				NR		(2.51R 4/3) 10 — \staining.	eddish brown, soft, mo	oist, no odor, no	
4		0.0	wet	FILL	\bowtie	NO RECOVE		2) roddiob brown and	
6							ttle till debris, (5YR 4/3 ted, no odor, no stainii	3) reddish brown, soft,	135-CC31A-16.0-16.5
\dashv		0.0	dn	PT	XY		organic fibers, 20% org		135-CC31A-16.5-17.0
7—	4.5	0.0	dry	F1	1, 11, 1	dark reddish	brown, stiff, dry moder s consistent with MM		
8-					7 77 7 7 7 7 7				
9—					<u> </u>				
\dashv				NR	V 7V 7	NO RECOVE	RY.		-
20				1111			•		



Boring ID: 135-CC32A

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

 Project Number:
 60314351
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611238.7

 Date Started Drilling:
 9/1/2015 8:42:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682416.7

 Date Finished Drilling:
 9/1/2015 9:55:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 6.4

epth							
ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT.	
. 7		0.0		ASPHALT	0 4 4 0	degraded ASPHALT.	
-1		0.0	moist	CONCRETE		crushed CONCRETE.	135-CC32A-1.0-1.5
-2		2.1	moiot	FILL		fine to medium SAND, with cinders, some coal, (7.5YR 2.5/1) black, moist, slight hydrocarbon odor, iron oxide	
_ 4	5					and hyrdocarbon staining.	135-CC32A-2.0-2.5
3		58.3	moist	FILL		fine to medium SAND,and fine to medium gravel,some cinders,little concrete,moist,loose, moderate petroleum	
4						odor, hydrocarbon staining.	135-CC32A-4.0-4.5
5		0.0	moist	FILL		SILT, and fine sand, little fine to medium gravel,trace	
6-						coal fragments,cinders,(7.5YR 4/2) brown,soft,moist,no odor,no staining.	
Ĭ		0.0	wet	FILL		SILT, and fine to medium sand, trace fine to medium	135-CC32A-6.0-6.5
7-	4					gravel, (2.5YR 5/3) reddish brown, soft, wet to saturated, no odor, no staining, DTW @ 6.4'.	
-8-							
• -							135-CC32A-8.0-8.5
9				NR		NO RECOVERY.	
10		0.0	wot	FILL	XXXXX	CILT with fine to medium and little fine to medium	135-CC32A-10.0-10.5
11—		0.0	wet	FILL		SILT, with fine to medium sand, little fine to medium gravel, (2.5YR 5/3) reddish brown,soft, wet,no odor,no staining.	100 000 1000
12—							
'-	5						135-CC32A-12.0-12.5
13							
14-							135-CC32A-14.0-14.5
<u>, </u>							133-0032A-14.0-14.3
15		0.0	saturated	FILL		fine to medium SAND, and silt, little fine to medium	
16-						gravel, (7.5YR 4/3) brown,loose,saturated,no odor,no staining.	135-CC32A-15.5-16.0
\dashv		3.2	moist	PT	7 77 7	PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, stiff,	135-CC32A-16.0-16.5
17—	5	1.6	moist	OL		moist moderate organic odor. Soils consistent with MM. UNDorg SILT, (90% organic silt, 10% organic fibers),	
18						(7.5YR 3/3) dark brown, soft, moist slight organic odor no staining. Soils consistent with UNDorg.	
40							
19—							
20							



2012-09 RA PPG LOGS A.GDT - 9/28/15 11:53

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephon

Boring ID: 135-DD26A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611336.9 Date Started Drilling: 9/16/2015 10:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682559.6

Date Finished Drilling: 9/16/2015 11:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99 (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) CONCRETE A 3 4 CONCRETE, (advanced via starbit, 0.2 void space). 135-DD26A-1.0-1.5 0.0 FILL CINDERS, some metal slag, little fine sand, trace dry ash,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide 0.0 moist FILL ASH, some cinders, little coal fragments, wood 5 fragments, trace fine sand, concrete fragments, (10YR 4/2) dark grayish brown,loose,moist,no odor,iron oxide 135-DD26A-3.0-3.5 staining. 135-DD26A-5.0-5.5 28.1 moist **FILL** ASH, some cinders, little coal fragments, wood fragments (creosote odor),trace fine sand,(10YR 4/2) dark grayish brown,loose,moist,iron oxide staining. 135-DD26A-7.0-7.5 5 36.7 135-DD26A-9.0-9.5 **FILL** ASH, little wood fibers (creosote odors), trace coal fragments,(7.5YR 2.5/1) black,loose,no staining. 0.0 moist **FILL** ASH, some fine to medium gravel, little sand and cinders,trace ceramics,brick fragments,(black wood fibers with creosote odor @ 10.5-11.0),(10YR 4/2) dark 135-DD26A-11.0-11.5 grayish brown,loose,moist,no staining. -13 135-DD26A-13.0-13.5 NO RECOVERY. NR 1.3 135-DD26A-15.0-15.5 **FILL** ASH, some fine to medium gravel, little silt, (wood with wet creosote odor @ 15.5-16.0 feet),(7.5YR 2.5/2) very dark fine to medium SAND,little silt,(trace wood fibers@16.0-16.4), slight mottling,(10YR 5/4) yellowish -16 0.0 FILL moist 135-DD26A-16.3-16.8 135-DD26A-16.8-17.3 2.1 PT moist brown, dense, moist, no odor, no staining. 3 PEAT (degraded vegetated material),(80% organic 11/ fibers, 20% organic silt,) (7.5YR 3/2) dark -18 brown, stiff, moist, moderate organic odor, no staining. NR Soils consistent with MM. NO RECOVERY. 19 20

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.



Boring ID: 135-DD27A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611323.5 Date Started Drilling: 9/17/2015 8:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682532.8 Date Finished Drilling: 9/17/2015 8:50:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: 9.5 Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99 (Note bgs = below ground surface)

pth nge ogs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				CONCRETE	P 4 4 P 8	CONCRETE, (advanced via starbit).	
1—							
\dashv							
2-	5						
3—	3						
7		0.0	dry	FILL		ASH, some cinders, little coal fragments, trace metal slag, fine sand, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	135-DD27A-3.0-3.5
<u> </u>		0.0	slightly moist	FILL		fine to medium SAND, little cinders and ash,(5YR 4/4) reddish brown,loose,slightly moist,no odor,no staining.	
5		39.6	moist	FILL		ASH, some cinders and fine to medium gravel, (trace	135-DD27A-5.0-5.5
5-						wood fragments @ 7.5-8.0 with creosote odor), (7.5YR 4/1) dark gray,moist to wet,no staining, DTW @9.5'.	
,_]							105 00071 70 75
4	5						135-DD27A-7.0-7.5
3-							
,							
, 							135-DD27A-9.0-9.5
0-		0.0	wet	FILL		SILT,some fine to medium sand,little fine to medium	
. \dashv			Wet	1122		gravel,trace cinders, (7.5YR 4/2) brown,soft,wet,no	
1—						odor,no staining.	135-DD27A-11.0-11.5
2—	4	12.1	moist	FILL		ASH, some cinders, little fine to medium gravel,(wood	
3_						fragments with creosote odor),(7.5YR 5/1) gray,loose,moist,black staining.	135-DD27A-13.0-13.5
4—				NR		NO RECOVERY.	
\exists				INIX		NO RECOVERT.	
5		0.0	moist	FILL		ASH, some cinders,little fine to medium gravel,trace fine	135-DD27A-15.0-15.5
6—		2.7	moist	PT	77 77	sand,(7.5YR 4/1) dark gray,moist to wet,no odor,no staining.	135-DD27A-15.5-16.0
_					<u> </u>	PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 3/2) dark	
7—	•				7 77 7	brown,stiff,moist,moderate organic odor,no staining.Soils	
, –	3				<u> </u>	consistent with MM.	
8 -				NR		NO RECOVERY.	
9—							
0							
			ere made to				



Boring ID: 135-DD28A

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

 Project Number:
 60314351
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611310

 Date Started Drilling:
 9/18/2015 7:50:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682506.1

 Date Finished Drilling:
 9/18/2015 12:00:00 PM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

Logged By: LM Project Manager: Scott Mikaelian Depth to Water: NA

pth	D	DID						0
nge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thicknes	ss:	Sample ID
1				CONCRETE		CONCRETE, (advanced via starbit).		
3—		0.0	dry	FILL		ASH and cinders, some medium to coarse 2/1) black,dry,no odor,no staining.	e gravel,(10YR	135-DD28A-2.0-2.5
4—								135-DD28A-3.0-3.5
	2			NR		NO RECOVERY.		
5		0.0	moist	FILL		fine to medium SAND and gravel, some c 4/3) reddish brown (7.5YR 4/2) brown, mo no staining	cinders, (5YR bist dry no odor	135-DD28A-5.0-5.5
		1.5	moist	FILL		ASH and cinders, little coal fragments, tra medium gravel, (10YR 3/1) very dark gray	nce fine to /, moist no odor	
7— - 3— -	5					no staining		135-DD28A-7.0-7.5
9—								135-DD28A-9.0-9.5
0		2.4	moist	FILL		ASH and cinders, little silt and coal fragm- to medium gravel, (10YR 3/1) very dark grodor no staining	ents, trace fine ray, moist no	135-DD28A-11.0-11.5
2— —	5	0.0	moist	FILL		fine to medium SAND and silt, some coal medium to coarse gravel, (5YR 4/3) reddi	fragments, little sh brown, moist	135-DD20A-11.0-11.5
3— 4— -						no odor no staining		135-DD28A-13.0-13.5
5 — — 6 —		1.8	moist	SM		SILT, and fine to medium sand, grades fir trace clay, slight mottling, (10YR 5/6) yello moist no odor no staining. Soils consisten	owish brown,	135-DD28A-15.0-15.5
7—	5							135-DD28A-17.0-17.5 135-DD28A-17.5-18.0
8-		0.0	moist	OL		UNDorg SILT, 70% Organic silts 30% Org decreasing with depth., (10YR 3/1) very d	ganic fibers ark gray, moist	135-DD28A-18.0-18.5
9-						no odor no staining. Soils consistent with	UNDorg.	
20-								



2012-09 RA PPG LOGS A.GDT - 9/28/15 11:53

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 135-DD29A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611293.5Date Started Drilling:9/17/2015 12:30:00 PMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682489.9Date Finished Drilling:9/17/2015 1:40:00 PMCore Size:2.0 inBoring Total Depth:20 ft

Logged By: MI Project Manager: Scott Mikaelian Depth to Water: 10.0

Physical Location: Former Narula Property - Bld 83 (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) CONCRETE 🐔 CONCRETE, (advanced via starbit, 0.4' of void space) 0.0 135-DD29A-1.5-2.0 dry **FILL** CINDERS, little ash, wood fragments, (7.5YR 2.5/1) black,loose,dry,no odor,no staining. 135-DD29A-3.0-3.5 0.0 FILL fine to medium SAND, little fine to medium gravel, trace moist cinders,(5YR 4/3) reddish brown,loose,moist,no odor,iron oxide staining NR NO RECOVERY. 135-DD29A-5.0-5.5 0.0 moist **FILL** fine to medium SAND, little fine to medium gravel, trace cinders,(5YR 4/3) reddish brown,loose,moist,no odor,iron oxide staining. 135-DD29A-7.0-7.5 5 135-DD29A-9.0-9.5 0.0 moist **FILL** ASH, some cinders, little wood fragments, (7.5YR 4/1) dark gray,loose,moist,no odor,no staining. 0.0 wet **FILL** ASH, little fine sand, fine to medium gravel, trace wood fragments, (7.5YR 2.5/1) black, loose, wet, no odor, no staining, DTW @ 10'. 135-DD29A-11.0-11.5 -13 135-DD29A-13.0-13.5 NO RECOVERY. NR 0.0 135-DD29A-15.0-15.5 SM SILT, and fine to medium sand(grades finer with depth), moist trace clay at bottom, slight mottling, (10YR 5/6) yellowish brown, soft, moist to wet, no odor, no staining. Soils -16 consistent with UNDno. 135-DD29A-17.0-17.5 5 -18 135-DD29A-17.9-18.4 135-DD29A-18.4-18.9 3.1 moist PT PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt),(7.5YR 3/2) dark -19 1, 11, brown, stiff, moist, moderate organic odor, no staining. 11/11/ Soils consistent with MM. 20 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.



Boring ID: 135-DD30A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611283 Date Started Drilling: 9/1/2015 10:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682452.5 Date Finished Drilling: 9/1/2015 10:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: 9.0 Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 77 (Street)

Depth _	_						
t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
\dashv	ĺ	0.0	slightly	FILL FILL		Subbase Gravel(Trap Rock).	135-DD30A-0.5-1.0
-1		0.0	moist	FILL		fine to medium SAND,some cinders,coal fragments,metal, slag,asphalt fragments,little coarse gravel,(7.5YR 2.5/1) black,slightly moist,no odor,no	
-2	5	48.3	slightly	FILL		staining.	
-3	5		moist			fine to medium SAND,and cinders,some metal slag,coal fragments,trace wood fragments (creosote odor and staining @ 4.7-5.0), (7.5YR 2.5/1) black, loose, slightly moist, iron oxide staining.	135-DD30A-2.5-3.0
-							135-DD30A-4.5-5.0
-6		0.0	moist	FILL		fine to medium SAND,and silt,little fine to coarse gravel,trace fill material,(7.5YR 3/2) dark brown,moist,no odor, slight black staining.	
7-	4						135-DD30A-6.5-7.0
-8-	-	0.0	wet	FILL		SILT, and fine sand, little fine to coarse gravel, orange	
-9—						mottling, (7.5YR 4/2) brown, soft, wet, DTW @ 9.0.	135-DD30A-8.5-9.0
-				NR		NO RECOVERY.	
10		0.0	wet	FILL		SILT, and fine to medium sand, little fine to medium	
11—	5					gravel,(7.5YR 4/2) brown,wet,no odor, no staining.	135-DD30A-10.5-11.0
13—							135-DD30A-12.5-13.0
🕇							135-DD30A-14.5-15.0
15		0.0	wet	FILL		SILT, and fine to medium sand, little fine to medium	135-DD30A-15.4-15.9
16	-	3.1	moist	PT		gravel,(7.5YR 4/2) brown,wet,no odor,no staining. PEAT (degraded vegetated material), (80% organic	135-DD30A-15.9-16.4
\dashv			Indiat		1, 11, 1	fibers, 20% organic),(7.5YR 3/4) dark brown,moist,moderate organic odor,no staining. Soils	
17—	5				71/ 71/	consistent with MM.	
18					<u> </u>		
4					<u> </u>		
19—		1.8	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers, less	
20						fibrous with depth), moist,slight organic odor,no staining. Soils consistent with UNDorg.	
20						Collis Collisisterit With ONDOIG.	



Boring ID: 135-EE26A

Page: 1

Project Name: PPG Garfield Ave
Project Number: 60314351
Date Started Drilling: 9/16/2015 9:20:00 AM
Project Number: 9/16/2015 9:20:00 AM
Project Number: Goordinates (NJSPNAD83) x: 611362.5

Date Started Drilling: 9/16/2015 10:15:00 AM
Project Manager: Scott Mikaelian
Project Number: 00314351
Coordinates (NJSPNAD83) x: 611362.5

Coordinates (NJSPNAD83) y: 682552.2

Date Finished Drilling: 9/16/2015 10:15:00 AM
Project Manager: Scott Mikaelian
Project Manager: Scott Mikaelian
Physical Location: Former Narula Property - Bld 99

epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-				CONCRETE		CONCRETE, (advanced via starbit, 0.6' of void space).	
2-	4	0.0	dry	FILL		ASH, some cinders,little coal and wood fragments,trace brick,(brown fine sand lens with gravel @ 1.5-2.0),(7.5YR 2.5/2) very dark brown,loose,dry,no odor,iron oxide staining.	135-EE26A-1.5-2.0
-4-						ŭ	135-EE26A-3.0-3.5
-				NR		NO RECOVERY.	
5		0.0	dry	FILL		ASH, some cinders,little coal fragments,wood fragments,trace metal slag,trace fine sand,(10YR 3/4) dark yellowish brown,loose,dry,no odor,iron oxide	135-EE26A-5.0-5.5
		3.2	moist	FILL		staining. ASH,some fine to medium gravel,little cinders and	
7— 8—	5					wood,trace brick fragments,(7.5YR 2.5/2) very dark brown,loose,moist,no odor,no staining.	135-EE26A-7.0-7.5
9—							135-EE26A-9.0-9.5
11—		1.3	moist	FILL		ASH, some cinders,little fine sand,trace wood,coarse gravel,(7.5YR 2.5/1) black,loose,moist to wet,no odor,no staining DTW @ 10.5'.	135-EE26A-11.0-11.5
12 <u> </u>	4						135-EE20A-11.0-11.5
13—							135-EE26A-13.0-13.5
				NR		NO RECOVERY.	
15 -		0.0	wet	FILL		fine to medium SAND, (black ash,cinders and fine to medium gravel lens @ 15.0-15.3), slight mottling, (2.5YR 4/1) dark reddish gray, loose, wet,no odor, no staining.	135-EE26A-15.0-15.5
16—		2.3	moist	PT		,	135-EE26A-15.9-16.4 135-EE26A-16.4-16.9
17—	3		moiot		<u> </u>	PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 2.5/3) very dark brown, stiff, moist,moderate organic odor,no staining. Soils consistent with MM.	
18 <u> </u>				NR		NO RECOVERY.	
19—							
20							

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.



Boring ID: 135-EE27A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611350.2Date Started Drilling:9/1/2015 10:55:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682519.32Date Finished Drilling:9/1/2015 11:35:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:7.0

\ange	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness:	Sample ID
t bgs)	(ft/ft)	(ppm)	Content		Log		U
		0.0		ASPHALT	×××××	ASPHALT.	
-1		0.0		FILL		Subbase Gravel (Trap Rock).	
· _		0.0		FILL		CINDERS,and ash,some coal fragments,metal	135-EE27A-1.2-1.7
-2						slag,(brown silt lens @ 3.8-4.1),(7.5YR 3/1) very dark gray,slightly moist,loose,no odor,black staining.	135-EE27A-2.0-2.5
-	5					gray, slightly moist, 100se, 110 odor, black staining.	100 LLZ//(2.0 2.0
-3							
_							
-4							135-EE27A-4.0-4.5
_							
-5- -		1.5	moist	FILL		fine to medium sand, with silt, some cinders, little ash, fine	
-6						to medium gravel,(7.5YR 3/4) dark brown,moist,loose,no odor,slight black staining.	
		0.0	wet	FILL		SILT, and fine sand, little fine to coarse gravel, (2.5YR 4/4) reddish brown, soft, wet, no odor, no staining, DTW @ 7.0'.	135-EE27A-6.0-6.5
-7						reddish brown,soit, wet,no odor,no staining, DTW @ 7.0.	
_	4						
-8-							135-EE27A-8.0-8.5
-							
−9 −−				NR		NO RECOVERY.	
10							
-10		0.0	wet	FILL		SILT, and fine sand, little fine to coarse gravel,(2.5YR	135-EE27A-10.0-10.5
-11						4/4) reddish brown,soft,wet,no odor,no staining.	
- 12							135-EE27A-12.0-12.5
	5						
- 13		0.0	moist	FILL		fine SAND,some silt,trace brick fragments(brown silt lens	
						@ 14.5-15.0), (7.5YR 3/2) dark brown,loose,moist,no	
_14						odor,no staining.	135-EE27A-14.0-14.5
15 							
		0.0	moist	FILL		SILT,interbedded with dark brown fine to medium sand,trace fill material,(7.5YR 4/4) brown,moist,no	
- 16						odor,no staining.	135-EE27A-15.7-16.2
		2.7	moist	PT		PEAT (degraded vegetated material),(80% organic	135-EE27A-16.2-16.7
 17 						fibers, 20% organic silt),(7.5YR 3/3) dark brown,moist,moderate organic odor,no staining. Soils	
46	. 5				<u> </u>	consistent with MM.	
—18 —					<u> </u>		
					7 77 7 7 77 7		
		1.0				LIND OUT (000)	
-20		1.8	moist	OL		UNDorg SILT,(90% organic silt,10% organic ¬ fibers),(10YR 4/2) dark grayish brown,moist,moderate / □	
						organic odor,no staining.Soils consistent with UNDorg.	

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA28A

d Piscataway NJ 08854

Project	Name: F	60240				Drilling Method: Geoprobe		IAD83) x: 611228.5878
				9:10:00 AM		Rig Type:		AD83) y: 682547.5147
		illing:	5/22/2013	10:15:00 AN		Core Size: 3 in	Boring Total Depth:	18 ft
	By: MI					Project Manager: Scott Mikaelian	Depth to Water:	
Physic	al Locatio	n:					Surface Elevation:	10.08 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		ASPHALT		ASPHALT		
-1	2	0.0	slightly moist	FILL		fine to medium silty SAND, with fine to some coal, cinders, little ash, (10YR 3 brown, non plastic, loose to soft, sligh no staining.	3/6) dark yellowish	135-P3C-AA28A-1.0-1.5
-2 -	2	0.0	slightly moist	FILL		fine to medium silty SAND, with fine to some coal, cinders, little ash, (7.5YR non plastic, loose to soft, slightly mois	3/4) dark brown,	
-4		0.0	slightly moist	FILL		staining. ASH, with fine to medium sand, some wood fragments, (7.5YR 4/1) dark gra	coal, cinders,	135-P3C-AA28A-3.0-3.5
-5	1.1	45.1	moist	FILL		loose, slightly moist, no odor, no stain ASH, with and oil-like material, some fragments, (7.5YR 4/1) dark gray, non	ing. coal, cinders, wood plastic, loose,	135-P3C-AA28A-4.5-5.0
_ _6		56.7	moist	NR FILL	XXXX	moist, strong napthalene odor, sheen. NO RECOVERY ASH, with and oil-like material, some		
-7 -	1.6		moiot			fragments, little ceramics, (7.5YR 4/1) plastic, loose, moist, no odor, no stain	dark gray, non	135-P3C-AA28A-6.5-7.0
-8-		0.0	P 1 4	NR	XXXX	NO RECOVERY		
_ -9	1.7	0.0	slightly moist	FILL		ASH, with fine to medium sand, some wood fragments, little ceramics, (7.5Y non plastic, loose, slightly moist, no or	R 4/1) dark gray,	135-P3C-AA28A-8.5-9.0
-10		0.0		NR	××××	NO RECOVERY		
_ _11	1	0.0	slightly moist	FILL		ASH, with fine to medium sand, some wood fragments, little ceramics, (7.5Y non plastic, loose, slightly moist, no or	R 4/1) dark gray,	135-P3C-AA28A-10.5-11.0
_ _12		0.0	slightly	NR FILL	××××	NO RECOVERY ASH, with fine to medium sand, some	and sinders	
_ _13	2	7.2	moist	FILL		wood fragments, little ceramics, (7.5Y non plastic, loose, slightly moist, no or	R 4/1) dark gray, dor, no staining.	135-P3C-AA28A-12.5-13.0
_ _14		9.3	dry	FILL		SILT, with clay, trace tar-like material, dark brown, low plasticity, stiff to med odor sheen.	ium stiff, dry, no	
_ -15	2	0.0	,			SILT, with clay, trace tar-like material, dark brown, low plasticity, stiff to med odor, sheen.	ium stiff, dry, no	135-P3C-AA28A-14.5-15.0
\dashv			moist	FILL	XXX	SILT, some fine sand, little roots, (10) brown, low plasticity, soft, moist, no or	dor, no staining.	135-P3C-AA28A-15.3-15.8
-16 -	1.0	2.3	dry dry	PT PT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PEAT (degraded vegetated material), 20% organic silt. (7.5YR 3/2) dark bro	80% organic fibers, wn, non plastic,	135-P3C-AA28A-15.8-16.3
-17 -	1.2			NR	11, 11,	consistent with MM. PEAT (degraded vegetated material), 20% organic silt, (7.5YR 3/2) dark bro	wn, non plastic, /	
- 18 -						soft, dry, strong organic odor, no stain consistent with MM. NO RECOVERY		
	ow surface g		COPR - chro	omite ore proce	ssing res	idue UNDno - non-organic undisturbed native d		actured gas plant mate chemical production was

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA29A

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611216.052

 Date Started Drilling:
 4/23/2014 7:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682519.709

 Date Finished Drilling:
 4/23/2014 9:10:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Date Finished Drilling:
 4/23/2014 9:10:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20

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

_ogged B						Project Manager: Chris Martell	Depth to Water: NA	\
Physical L	_ocatior	n: Nar	ula Propert	у			(Not	te bgs = below ground surface)
	ecovery (ft/ft)	PID (ppm)	Moisture Content	USC	Graphic Log	Surface Cover and Thickn	ness:	Sample ID
		0.0	dry	FILL		fine to medium SAND, some fine to medi wood fragments, little ash, (5YR 2.5/1) bl		
-1 - -2 	5	0.0	dry	FILL		odor, no staining. CINDERS, some ash, little fine to mediun (7.5YR 3/1) very dark gray, loose, dry, no		135-P3C-AA29A-1.0-1.5
-3 -4 -	3	0.0	dry	FILL		CINDERS, with fine to medium sand, sor fragments, little medium to coarse gravel, gray, loose, dry, no odor, no staining.		135-P3C-AA29A-3.0-3.5
-5- 		4.3	moist	FILL		fine to medium silty SAND, with cinders, medium gravel, some ash, trace ceramics dark gray, loose, moist, slight hydrocarbon hydrocarbon staining.	s, (7.5YR 3/1) very	135-P3C-AA29A-5.0-5.5
8	5	49.9	wet	FILL		CINDERS, some fine to medium sand, lit gravel, trace coal, trace wood fragments, gray, loose, wet, moderate hydrocarbon o	(7.5YR 4/1) dark	135-P3C-AA29A-7.0-7.5
-9 - -10		0.0	moist	FILL		CINDERS, with fine to medium sand, son	me wood fragments	135-P3C-AA29A-9.0-9.5
11—	5					little coal, little fine to medium gravel, (7.5 low plasticity, loose, moist, slight hydrocal hydrocarbon staining.	5YR 2.5/1) black,	135-P3C-AA29A-11.0-11.
13 — - 14 — - 15 —								135-P3C-AA29A-13.0-13
16		0.0	moist dry	FILL FILL		CINDERS, some fine to medium sand, lit medium gravel, (7.5YR 3/1) very dark gra odor, hydrocarbon staining.		135-P3C-AA29A-15.0-15
17— ———————————————————————————————————	5	0.0	to moist dry	PT	\(\frac{\frac}\frac{\frac}\firi}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac	fine silty SAND, trace brick, (7.5YR 6/3) I dry to moist, no odor, no staining.	% organic fibers,	135-P3C-AA29A-16.0-16. 135-P3C-AA29A-16.5-17.
-18 <u> </u>								
20					N1, N1,			
omments:	1) 3 atte	mpts we	ere made to	obtain best re	ecovery 2)	UND/MM confirmed to be 1 ft thick 3) No COPR or	r GGM present in any inter	rval of this boring.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611162.185Date Started Drilling:3/22/2014 9:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682410.331

 Date Finished Drilling:
 3/22/2014 10:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Physical Location: Narula Property

Depth							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_		0.0		CONCRETE	A 7 A A	CONCRETE	
-1 - -2- -	5	0.0	slightly moist	FILL		CINDERS, some ash, little coal, little brick, little fine to medium sand, (10YR 5/4) yellowish brown, non plastic, dense, slightly moist	135-P3C-AA33A-1.0-1.
-3 -4 -							135-P3C-AA33A-3.0-3.
-5- - - -6		0.0	moist to wet	FILL		CINDERS, some ash, little silt, trace brick, (10YR 5/4) yellowish brown, non plastic, moist to wet, no staining	135-P3C-AA33A-5.0-5.
-7 - -8 -	5						135-P3C-AA33A-7.0-7.
-9 -		0.0	wet	FILL		ASH, some cinders, little wood, (10YR 4/1) dark gray, non plastic, medium dense, wet	135-P3C-AA33A-9.0-9.
-10 — -11— -12—		0.0	wet	FILL		SILT, some cinders, trace wood, (10YR 3/1) very dark gray, non plastic, loose, wet	135-P3C-AA33A-11.0-1
-13 - -14	4	0.0	wet	FILL		SILT, some roots, little cinders, little fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet	135-P3C-AA33A-13.0-13
_ -15				NR		NO RECOVERY	
-16 -17 -18	5	0.0	wet moist to saturated			SILT, and roots, some cinders, little ash, little fine subangular gravel, trace fine to medium sand, (5YR 3/2) dark reddish brown, low plasticity, wet, no odor, no staining PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, soft, moist to saturated, slight sulfur odor, no staining. Soils consistent with MM	135-P3C-AA33A-15.0-15 135-P3C-AA33A-15.5-16
-19 - -20 -					<u> </u>		

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA34A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611148.602

 Date Started Drilling:
 3/22/2014 8:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y: 682385.716

 Date Finished Drilling:
 3/22/2014 9:30:00 AM
 Core Size: 2.0 in
 Boring Total Depth: 25 ft

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

 Physical Location:
 Narula Property

ye i	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
;)	(1011)	(ррпі)	Content		Log		lD.
_		0.0		CONCRETE	A P P A	CONCRETE	
_		0.0	slightly	FILL		CINDEDS some fine to modium send little brick little seb	135-P3C-AA34A-1.0-
	5	0.0	moist	FILL		CINDERS, some fine to medium sand, little brick, little ash, (10YR 4/3) brown, non plastic, loose, slightly moist, no odor, no staining.	100-1 00-740-44-1.0-
							135-P3C-AA34A-3.0-
4		0.0	oliabth	FILL		fine to medium silty SAND, some sand, little ash, (10YR 4/3)	135-P3C-AA34A-5.0-
_		0.0	slightly moist	FILL		brown, non plastic, loose, slightly moist, no odor, no staining.	133-1 30-743-4-3.0-
_	5	0.0	wet	FILL		CINDERS, some ash, little coal, little fine to medium sand,	135-P3C-AA34A-7.0-
_	3					(10YR 6/1) gray, non plastic, loose, wet, no odor, no staining.	
_							135-P3C-AA34A-9.0-
\forall		0.0	slightly	FILL		── fine to medium SAND, some cinders, some silt, little ash,	
		0.0	moist wet	FILL		(10YR 6/3) pale brown, low plasticity, loose, slightly moist, no odor, no staining.	
	5		to saturated			CINDERS, some ash, little fine to medium sand, trace brick, (10YR 6/1) gray, non plastic, loose, wet to saturated, no odor, no staining.	135-P3C-AA34A-11.0-
							135-P3C-AA34A-13.0-
		0.0					
-		0.0	moist	FILL		SILT, some clay, little roots, (10YR 3/1) very dark gray, low plasticity, medium soft, moist, no odor, no staining.	135-P3C-AA34A-14.5-
		0.0	moist	SM		fine silty SAND, little fine gravel, trace coarse gravel, trace	135-P3C-AA34A-15.0-
_			to wet	5		roots, (10YR 4/2) dark grayish brown, low plasticity, loose, moist to wet, no odor, no staining, subrounded poorly graded. Soils consistent with UNDno.	
_	5	0.0	slightly moist	ML		SILT, some clay, little roots, (10YR 4/1) dark gray, low plasticity, medium soft, slightly moist, slight sulfur odor, no staining. Soils consistent with UNDorg.	
_							
		0.0	moist	ML		SILT, little gravel, (10YR 4/1) dark gray, low plasticity, soft,	
			to wet			moist to wet, no odor, no staining, subangular poorly graded. Soils consistent with UNDorg.	
	_						
_	5						
-				1	\perp \perp \perp \perp \perp		

A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-BB25A

Page: 1

Project			700			B.III. M. (I.)	0 " (() () ()	14 DOO) 044000 0
	Number:			45.00.414		Drilling Method: Geoprobe	Coordinates (NJSPN	
			5/23/2013 9			Rig Type:	Coordinates (NJSPN	
			6/21/2013	9:40:00 AN		Core Size: 3 in		15.8000001907349 ft
	d By: EW					Project Manager: Scott Mikaelian	Depth to Water:	
hysic	al Locatio	n: Naı	ula Propert	ty	_		Surface Elevation:	11.5 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thick	ness:	Sample ID
_		0.0	dry	FILL		medium to coarse silty SAND, with cru fine gravel, (7.5YR 2.5/1) black, non pl	shed asphalt and astic loose, dry, no	
-1- -	1.9	0.0	dry	FILL		odor, no staining. fine to medium SAND, and silt with fill 3/4) dark brown, non plastic, loose, dry	material, (7.5YR	135-P3C-BB25A-1.0-1.5
-2		0.0	dry	NR FILL	-	no odor, no staining. NO RECOVERY		
-3	1.8	0.0	moist	FILL		fine to medium SAND, and silt with fill 3/4) dark brown, non plastic, loose, dry	to slightly moist, /	135-P3C-BB25A-3.0-3.5
_		0.0	dry to	FILL		\no odor, no staining, trace glass fragm fine SAND, with silt trace fine gravel, (10YR 3/2) very /_	
-4- - -	1.6	0.0	moist moist to	NR FILL		dark grayish brown, non plastic, soft to odor, no staining, some ash and cinde medium SAND, little silt and ceramics,	rs. (10YR 3/4) dark	
-5 - -6			wet	NR		yellowish brown, non plastic, loose, dr. no staining, some ash and coal. NO RECOVERY		135-P3C-BB25A-5.0-5.5
-7—	1.5	0.0	wet	FILL		fine to medium SAND, with ash and fir gravel, (10YR 3/2) very dark grayish by loose, moist to wet, no odor, no staining cinder fragments.	rown, non plastic,	135-P3C-BB25A-7.0-7.5
-8-				NR		NO RECOVERY fine to medium SAND, with brick and f		
-9	1.5	0.0	moist	FILL		gravel, (10YR 4/2) dark grayish brown, wet, no odor, no staining, some fill materials.	non plastic, loose, terial and	135-P3C-BB25A-8.8-9.3
_ -10		0.0		NR		NO RECOVERY medium to coarse SAND, with ash and gravel, (7.5YR 3/1) very dark gray, nor		135-P3C-BB25A-9.0-9.5
- -11	0.8	0.0	moist	FILL NR		\moist to wet, no odor, no staining. \NO RECOVERY fine to medium silty SAND, with ash an	nd fill material,	135-P3C-BB25A-10.8-11.3
_ -12 		0.0			××××	\((7.5YR 2.5/1)\) black, non plastic, soft, r\(\)odor, no staining.\(\) NO RECOVERY	noist to wet, no	135-P3C-BB25A-12.0-12.5
-		0.0 2.3	wet moist	FILL	<u> </u>	fine silty SAND, trace cinders, little me sand, (7.5YR 2.5/1) black, non plastic,		135-P3C-BB25A-12.5-13.0
-13 <u> </u>	1.5			NR	1, 11,	1 \ , \ \ , \ \ , \ \ \ \ \ \ \ \ \ \ \	with 80% organic	135-P3C-BB25A-12.8-13.3
-14 -	1.8					plastic, medium, stiff, moist, slight organistaning. Soils consistent with MM.		
-15 <u> </u>	1.0					NO NEOUVERNI		135-P3C-BB25A-14.8-15.3 135-P3C-BB25A-15.3-15.8
				PT		PEAT (degraded vegetated material), fibers and 20% orgainc silt, (7.5YR 4/2 plastic, medium, stiff, moist, slight orgastaining. Soils consistent with MM.	!) brown, non	
	ow surface o		COPR - chroi GGM - green		essing res	idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	posits MGP - manu	factured gas plant omate chemical production was

Boring ID: 135-P3C-BB26A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1

	Number:				[Orilling Method: Geoprobe	<u>Coordinates</u> (NJSPI	NAD83) x: 611279.3946
Date St	arted Drill	ling: 5	5/23/2013	9:10:00 AM	ı	Rig Type:		IAD83) y: 682591.5949
				3 10:40:00 AM	Л	Core Size: 3 in	Boring Total Depth:	
	By: AB				l l		Depth to Water:	
			rula Prope	rty			Surface Elevation:	12.14 ft NAVD88
Depth								
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickne	ess:	Sample ID
		0.0	dry	ASPHALT		ASPHALT, weathered and sub-base, (10 non plastic, dense, dry.	YR 2/1) black,	
,	2	0.0	slightly	FILL	\bowtie	fine to medium silty SAND, some gravel,	little cinders	
			moist			trace brick, trace glass, trace coal, (10YF grayish brown, non plastic, medium dens	R 4/2) dark se, slightly moist.	135-P3C-BB26A-1.0-1.5
		0.0	slightly	FILL		fine to medium silty SAND, some gravel,		
	1.8	0.0	moist	FILL	\bowtie	trace brick, (10YR 4/2) dark grayish brow	n, non plastic,	
-3	1.0		slightly moist		\bowtie	\dense, slightly moist. ASH, some cinders, little gravel, trace bri	ick (10YR 5/1)	135-P3C-BB26A-3.0-3.5
\dashv			1110131		\bowtie	gray, non plastic, loose, slightly moist.	ion, (10111 0/1)	
-4		16		NR	XXXXX	NO RECOVERY		1
		4.6	wet	FILL	\bowtie	ASH, some cinders, little gravel, trace ce		
-5	1.7					brick, (10YR 5/2) grayish brown, non plas	stic, loose, wet.	135-P3C-BB26A-5.0-5.5
4		0.0	wet	FILL		SILT, some cinders, little gravel, little rub	ber, (10YR 2/1)	.551 00 55207-0.0-0.5
_6				NR		black, non plastic, loose, wet.]
٦		0.0	wet	FILL	 	NO RECOVERY		
٦	_	0.0	wet	FILL		SILT, some organics, little cinders, (10YF	R 2/1) black, non /	1
-7- -	2			_		\plastic, loose, wet. ASH, some cinders, little gravel, (10YR 4 non plastic, loose, wet.	//1) dark gray,	135-P3C-BB26A-7.0-7.5
-8-		0.0	wet	FILL		ASH, some cinders, little coal, trace cera	mics, (10YR	
\neg	4 -				\bowtie	4/1) dark gray, non plastic, loose, wet.		
-9	1.7				\bowtie			135-P3C-BB26A-9.0-9.5
- 4					\bowtie			
_10				NR		NO RECOVERY		
10		0.0	wet	FILL	 	ASH, some cinders, little coal, little wood	fragments,	
	17				\bowtie	(10YR 4/1) dark gray, non plastic, loose,	wet.	
-11	1.7				\bowtie			135-P3C-BB26A-11.0-11.5
-					\bowtie			
-12		0.0		NR		NO RECOVERY		1
		0.0	wet	FILL	\bowtie	ASH, some cinders, little gravel, trace wo	ood, (10YR 4/1)	
42	1.2	0.0	moist	FILL		dark gray, non plastic, loose, wet. SILT, some roots, little cinders, little ash,	(10VD 3/2) year	135-P3C-BB26A-12.7-13.2
-13		3.0	1110131		×××××	dark grayish brown, non plastic, loose, m		1
\dashv				NR		NO RECOVERY		
-14		0.0	moist	FILL	XXXX	fine silty SAND, little roots, little clay, trac	re hrick trace	1
\dashv			1110131	, ILL	\bowtie	shells, (10YR 5/2) grayish brown, low pla	sticity, soft.	405 000 0000 446 := :
-15	2				\bowtie	moist.	y ,	135-P3C-BB26A-14.6-15.1
		2.1	moist	PT	11/11/	PEAT (degraded vegetated material), 80		135-P3C-BB26A-15.1-15.6
16					1/ <u>1// 1</u>	20% organic silt, (10YR 4/3) brown, low p		
-16		2.3	moist	PT	11/11/	moist, slight sulfur odor. Soils consistent PEAT (degraded vegetated material), 75		
\dashv	_	1.8	moist	ОН		25% organic silt/clay, (10YR 4/2) dark gr		1
-17	2			J.,		medium plasticity, soft, moist, slight sulfu		
_		2.0		C.T.	<u></u>	consistent with MM.		
_18 		2.2	moist	PT	<u> </u>	silty CLAY, some (30%) roots, (10YR 4/1		
						\plasticity, soft, moist, slight sulfur odor. S with UNDorg.	ouis consistent	
						PEAT (degraded vegetated material), 80	% organic fibers	
						20% organic silt, (10YR 4/2) dark grayish	brown, medium	
						plasticity, soft, moist, slight sulfur odor. S		
						with MM.		
1-4					<u> </u>			
	ow surface o	grade	COPR - chro	omite ore proce	ssing resi			factured gas plant
	adow mat		GGM - gree		5	UNDorg - organic undisturbed native deposits		omate chemical production was
						1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this borin		

12:5

PPG LOGS.GDT - 6/6/1

30 Knightsbridge Road, Piscataway, NJ 0885 732.564.3200 office telephone

Boring ID: 135-P3C-BB29A

Page: 1

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

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611242.863

 Date Started Drilling:
 3/21/2014 9:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682506.181

 Date Finished Drilling:
 3/21/2014 11:20:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Physical Location: Narula Property (Note bas = 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 FILL 135-P3C-BB29A-2.0-2.5 fine to medium SAND, with ash, some cinders, little coal, dry 5 trace wood fragments, (2.5Y 4/1) dark gray, loose, dry, slight hydrocarbon odor, no staining. 135-P3C-BB29A-4.0-4.5 0.0 moist **FILL** fine to medium SAND, with ash, some cinders, little glass fragments, trace ceramics, (2.5Y 4/1) dark gray, loose, moist to to wet, moderate hydrocarbon odor, hydrocarbon staining. wet 135-P3C-BB29A-6.0-6.5 0.0 **FILL** fine silty SAND, some cinders, little wood fragments, little moist 5 coarse gravel, trace ceramics, (2.5Y 4/1) dark gray, soft, moist, slight hydrocarbon odor, hydrocarbon staining. 135-P3C-BB29A-8.0-8.5 9 0.0 CINDERS, with fine to medium sand, little wood fragments, **FILL** dry trace ceramics, trace glass fragments, (2.5Y 3/1) very dark to gray, loose, dry to moist, slight hydrocarbon odor, moist 135-P3C-BB29A-10.0-10.5 0.0 **FILL** moist hydrocarbon staining. to CINDERS, with ash, fine to medium sand, some coarse wet gravel, little glass fragments, trace wood fragments, (2.5Y 4/1) dark gray, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining. 12 135-P3C-BB29A-12.0-12.5 5 13 135-P3C-BB29A-14.0-14.5 0.0 **FILL** sandy CINDERS, some ash, some fine to medium sand, dry (2.5Y 3/1) very dark gray, medium plasticity, soft, dry to moist moist, moderate organic odor. 16 135-P3C-BB29A-16.0-16.5 0.0 135-P3C-BB29A-16.5-17.0 dry OL UNDorg organic SILT, some organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, dry to moist, no odor, no staining. 5 Soils consistent with UNDorg. moist 18 19 20

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.

Boring ID: 135-P3C-BB30A

Page: 1

	Number:					Drilling Method: Geoprobe		NAD83) x: 611229.37
				12:15:00 PM		Rig Type:		IAD83) y: 682479.44
	nished Dr I By: SS	ıııng:	3/21/2014	1:05:00 PM		Core Size: 2.0 in Project Manager: Scott Mikaelian	Boring Total Depth: Depth to Water:	20 π
		n: Na	rula Proper	tv		r roject manager. Scott mikaelian	Surface Elevation:	10 35 ft NAVD88
	5541101		JIG I TOPE	•1			, Juliado Elevation.	
Depth lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	kness:	Sample ID
-1 -1		0.0		CONCRETE		CONCRETE		
-2	5	0.0	dry	FILL		fine to medium SAND, some ash, little 3/2) dark brown, loose, dry, no odor, r		135-P3C-BB30A-2.0-2.5
-4		0.0	dry	FILL		fine to medium SAND, and coarse gra light brown, loose, dry, no odor, no sta		135-P3C-BB30A-4.0-4.5
-5-		0.0	dry to	FILL		CINDERS, some ash, trace ceramic, fragments, (7.5YR 3/2) dark brown, lo		
-6— -7— -	5		moist			no odor, no staining.		135-P3C-BB30A-6.0-6.5
-8 -9 -								135-P3C-BB30A-8.0-8.5
-10 		0.0	slight moist - moist	FILL		CINDERS, some ash, little glass fragr trace wood fragments, (7.5YR 5/1) gra moist to moist, slight hydrocarbon odd staining.	ay, loose, slightly	135-P3C-BB30A-10.0-10.5
- 13 - - 14 -	5							135-P3C-BB30A-14.0-14.5
15 – –		0.0	slight moist	FILL		CINDERS, some ash, little sand, (7.5 (10R 3/2) dusky red, (5YR 6/1) gray, ((7.5YŔ 5/1) gray,	
-16 -17	5	0.0	moist dry	FILL		loose, slightly moist to moist, no odor, sandy SILT, little coarse gravel, fine to (7.5YR 4/3) brown, medium plasticity, no staining.	o medium sand,	135-P3C-BB30A-16.0-16.5
18— - 19— - 20—	3	0.0	slight moist - moist	OL		UNDorg organic SILT, 90% organic si fibers, (7.5YR 4/2) brown, low plasticit moist to moist, no odor, no staining. S UNDorg.	ty, soft, slightly	135-P3C-BB30A-17.5-18.0 135-P3C-BB30A-18.0-18.5
otes:	ow surface gadow mat		COPR - chro	omite ore proce	ssing res	idue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo		ofactured gas plant

Boring ID: 135-P3C-CC25A

Page: 1

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

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611328.5 Date Started Drilling: 9/21/2013 12:30:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682594.6

Date Finished Drilling: 9/21/2013 3:00:00 PM Core Size: 3 in Boring Total Depth: 21 ft

_ogged Physica	al Locatio	n: Na	rula Proper	ty		roject Manager: Chris Martell De		
							(Note	bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness	3 :	Sample ID
_ _1		0.0		CONCRETE		CONCRETE, (.5in of void)		
-		0.0	dry	FILL		fine to medium SAND, some cinders, coal, lit	ttle fine to	
-2— - -3—	3.5	0.0	dry	FILL		medium gravel, trace COPR, (5YR 3/4) dark non plastic, loose, dry, no odor, no staining. ASH, some cinders, coal, little wood fragmen 5/2) grayish brown, non plastic, loose, dry, no	reddish brown, hts, brick, (10YR	135-P3C-CC25A-3.0-3.
-4				NR		staining. NO RECOVERY		
-5-		0.0	dry	FILL		ASH, some cinders, coal, little wood fragmen	nts, brick, coarse	135-P3C-CC25A-5.0-5.
-6- -		0.0	wet	FILL		gravel, (10YR 5/2) grayish brown, non plastic, loose, dry, no odor, no staining. CINDERS, with ash, some coal, wood fragments, little coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.		
-7— - -8—	5					no odor, no staining.		135-P3C-CC25A-7.0-7.
-9 - -10		0.0		FILL		fine to see the ONDEDO with only		135-P3C-CC25A-9.0-9.
-11 -12	5	0.0	wet	FILL		fine to medium silty CINDERS, with ash, son fragments, little coarse gravel, (7.5YR 2.5/1) plastic, loose, wet, no odor, no staining.	ne coai, wood black, non	135-P3C-CC25A-11.0-1
-13 - -14	-							135-P3C-CC25A-13.0-13
-15 — - -16 — -		0.0	dry	FILL		ASH, some cinders, coal, little wood fragmen gravel, ceramics, (7.5YR 2.5/1) black, non pl no odor, no staining.	nts, brick, coarse lastic, loose, dry,	135-P3C-CC25A-15.0-1
-17 - -18	5							135-P3C-CC25A-17.0-17
-19 - -20								135-P3C-CC25A-19.0-19
20 — — — —21 —	1	0.0	dry	FILL		ASH, some cinders, coal, little wood fragmen gravel, ceramics, (7.5YR 2.5/1) black, non ploo odor, no staining.		

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-CC26A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611314.2 Date Started Drilling: 8/24/2013 1:00:00 PM Coordinates (NJSPNAD83) y: 682566.2 Rig Type: Date Finished Drilling: 8/24/2013 3:10:00 PM Core Size: 3 in Boring Total Depth: 20 ft Depth to Water: Logged By: JF Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 13.6 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE 3 CONCRETE 0.0 **FILL** FILL MATERIAL, as cinders, coal slag, some silt and fine dry 5 to medium sized gravel, trace ash, (7.5YR 2.5/3) very dark brown, non plastic, loose to medium dense, dry to 135-P3C-CC26A-3.0-3.5 slightly moist, no odor, no staining. 135-P3C-CC26A-5.0-5.5 180 wet **FILL** FILL MATERIAL, as cinders and ash, some coal slag, trace ceramics, (7.5YR 7/1) light gray, non plastic, loose to medium dense, wet to saturated, moderate solvent odor, sheen, 8.5' - strong solvent oder. PPM = 180, sheen in water. Solvents may be smearing in the "vadose" zone. 135-P3C-CC26A-7.0-7.5 5 135-P3C-CC26A-9.0-9.5 60 **FILL** FILL MATERIAL, as cinders and ash, some coal slag, wet trace ceramics, (7.5YR 7/1) light gray, non plastic, loose to medium dense, wet to saturated, moderate solvent 135-P3C-CC26A-11.0-11.5 odor, sheen, ppm@ 13' = 60 ppm. 12 5 135-P3C-CC26A-13.0-13.5 135-P3C-CC26A-15.0-15.5 0.0 FILL FILL MATERIAL, as ash and cinders with some coal wet slag, trace ceramics, (7.5YR 7/1) light gray, non plastic, loose, wet, no odor, no staining, PPM @ 15.0'=3.0. 16 135-P3C-CC26A-17.0-17.5 5 0.0 moist **FILL** Disturbed organic SILT, with some coal dust, trace cinders, (7.5YR 3/1) very dark gray, medium plasticity, 135-P3C-CC26A-18.5-19.0 soft, moist, slight organic odor, no staining. 19 135-P3C-CC26A-19.0-19.5 0.9 moist РТ PEAT (degraded vegetated material), organic fibers 90%, organic silts 10%, non plastic, stiff, moist, moderate 1, 11, 1 organic odor, no staining. Soils consistent with MM. 20

2012-09 RA PPG LOGS

A.GDT - 11/21/17 11:25

bgs - below surface grade MM - meadow mat

COPR - chromite ore processing residue GGM - green grey mud

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

MGP - manufactured gas plant CCPW - chromate chemical production waste

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

A E C O M

Boring ID: 135-P3C-CC27A

30 Knightsbridge Road, Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611296.705 Date Started Drilling: 3/21/2014 11:25:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682546.233 Date Finished Drilling: 3/21/2014 2:44:00 PM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: Logged By: MI Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 13.58 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log (ft bgs) CONCRETE 3 CONCRETE 0.0 FILL fine to medium SAND, little coal, ash, cinders, (10YR dry 5/6) yellowish brown, loose to hard, dry to slightly moist, to 135-P3C-CC27A-2.0-2.5 5 slight no odor, no staining. moist 135-P3C-CC27A-4.0-4.5 0.0 FILL ASH, with cinders, coal, little wood fragments, (7.5YR slightly moist 7/1) light gray, loose, slightly moist, no odor, no staining. ASH, with cinders, coal, some fine sand, little fine gravel, trace oil-like material, (7.5YR 5/1) gray, loose, moist, 12.0 moist **FILL** slight naphthalene odor, sheen. 135-P3C-CC27A-6.0-6.5 4 135-P3C-CC27A-8.0-8.5 NR NO RECOVERY 135-P3C-CC27A-10.0-10.5 0.0 slightly **FILL** ASH, with cinders, coal, little wood fragments, ceramics, fine sand, (7.5YR 4/1) dark gray, loose, slightly moist, no moist odor, no staining. 12 135-P3C-CC27A-12.0-12.5 5 13 135-P3C-CC27A-14.0-14.5 0.0 FILL slightly ASH, with cinders, coal, little wood fragments, ceramics, moist fine sand, (7.5YR 4/1) dark gray, loose, slightly moist, no 0.0 **FILL** moist odor, no staining. 16 135-P3C-CC27A-16.0-16.5 SILT, little fine sand, trace cinders, coal, wood 0.0 **FILL** moist fragments, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.
SILT, little fine sand, trace fine gravel, roots, (10YR 5/8) 135-P3C-CC27A-17.0-17.5 3.5 yellowish brown, low plasticity, soft to stiff, moist, no 135-P3C-CC27A-17.5-18.0 0.0 РТ slightly odor, no staining. moist 11/ PEAT (degraded vegetated material), 80% organics fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, NR 19 slightly moist, strong organic odor, no staining. Soils consistent with MM. NO RECOVERY 20

- 2012-09 RA PPG_LOGS_

A.GDT - 11/21/17 11

bgs - below surface grade MM - meadow mat

face grade COPR - chromite ore processing residue GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

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



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-V41A

	Name: F Number:		arfield Ave			Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPI	Page: 1
				7:55:00 AM		Rig Type:		AD83) y: 682275.375
		illing:	7/19/2013	6:54:00 AM		Core Size: 3 in	Boring Total Depth:	
	I By: MI		40= 1444			Project Manager: Chris Martell	Depth to Water: NA	\
Physica	al Location	n: Site	e 135 - V41	IA .			(Not	e bgs = below ground surface)
Depth							•	,
Range ft bgs)	Recovery (ft/ft)	(ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thic	kness:	Sample ID
-1-	2	0.0	slightly moist	FILL		fine to medium sandy, with fine to me brick, fill material, (7.5YR 4/2) brown, slightly moist, no odor, no staining.	non plastic loose,	
-2 		0.0	slightly moist	FILL		weathered BRICK, with fine silty sand gravel, (5YR 4/4) reddish brown, non	plastic, loose to	
-3-	1.1	0.0	slightly moist	FILL		soft, slightly moist, no odor, no stainir fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose	little brick, (5YR	
				NR		moist, no odor, no staining. NO RECOVERY	/	
4 -	_	0.0	slightly moist	FILL		fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose		
-5-	2	0.0	dry	7 122		\moist, no odor, no staining. fine to medium SAND, some cinders, (7.5YR 2.5/3) very dark brown, non pl	coal, little brick, astic, loose, dry, no	135-P3C-V41A-5.0-5.5
-6 7	1.6	17.2	slightly moist	FILL		odor, no staining. CINDERS, with coal, little ash, fine sa black, non plastic, loose, slightly mois odor, slight sheen.		135-P3C-V41A-7.0-7.5
-8-		10.1	- 1:1-41-	NR	****	NO RECOVERY		
9	1.7	10.1	slightly moist	FILL		CINDERS, with coal, little ash, fine sa black, non plastic, loose, slightly mois odor, slight sheen.	st, slight petroleum	135-P3C-V41A-9.0-9.5
- 10		0.0	moist	NR FILL	- - - - - - - - - - - - - - - - - - -	NO RECOVERY fine to medium silty SAND, some cind	ters ash coal	
11-	1.6					(7.5YR 3/2) dark brown, non plastic, l no odor, no staining.		135-P3C-V41A-11.0-11.5
-12		0.0	moist	NR FILL		NO RECOVERY fine to medium silty SAND, some cind	ders, ash, coal,	
13	1.5					(7.5YR 3/2) dark brown, non plastic, l no odor, no staining.	oose to soft, moist,	135-P3C-V41A-13.0-13.5
-14		0.0		NR	****	NO RECOVERY	. (40)(5,40)	
	2	0.0	moist	FILL		SILT, some fine sand, little coarse gradark grayish brown, low plasticity, sof staining.	t, moist, no odor, no	
. 13								135-P3C-V41A-15.0-15.5
16 17	2	1.3	dry slightly moist	PT PT	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	20% organic silt, non plastic, stiff, dry odor, no staining. Soils consistent wit PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, dry	, strong organic h MM. 80% organic fibers, , strong organic	135-P3C-V41A-15.5-16.0 135-P3C-V41A-15.5-16.0
-18					<u> </u>	odor, no staining. Soils consistent wit	II IVIIVI.	
				hadin book	21/07 : 21/1	1M/UND confirmed to be 1 ft thick 3) No CCPW (C	ODD or COM)	

Boring ID: 135-P3C-W38A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

	Name: F					Drilling Company: SGS North America	a	A DOO' 01007= 7:-
	Number:			.OF.OO ANA		Drilling Method: Geoprobe		AD83) x: 610987.347
			4/18/2014 9	9:30:00 AM		Rig Type: Core Size: 3 in		AD83) y: 682332.618
	By: EW		4/10/2014	9.30.00 AIVI		Project Manager: Scott Mikaelian	Boring Total Depth: Depth to Water:	10 11
			rula Proper	tv		Project Manager: Scott Mikaelian	Surface Elevation: 9	27 ft NIA\/DQQ
	ai Locatio	i. iva	luia Fropei	ty		1	Surface Elevation.	7.37 IL NAVDOO
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickne	ess:	Sample ID
_	1 0.5	0.0	dry	FILL		fine to medium SAND, trace silt and fine 4/3) brown, non plastic soft, dry to moist staining, fill material		
'	0.5	0.0	dry	FILL	\bowtie	fine to medium SAND, and concrete sor		135-P3C-W38A-1.0-1.5
	1.8	0.0	dry	FILL	\bowtie	(7.5YR 3/4) dark brown, non plastic soft	, dry to moist no	
-2 - -3	1.0	0.0	moist	FILL		\text{\lambda crushed contours} \text{\lambda contours} \text{\lambda contours}	edium dense, dry	135-P3C-W38A-3.0-3.5
\dashv	1.2				\bowtie	3/3) dark brown, low plasticity, soft, mois		
-4	1.8	0.0	moist dry	FILL FILL		fine to medium silty SAND, with cinders, wood debris, (10YR 4/2) dark grayish bry black, medium dense, moist no odor no fine to medium silty SAND, with coal,cin wood fragments, (10YR 5/2) grayish bro	, some ash, little rown, (5Y 2.5/1) staining der,ash some	135-P3C-W38A-5.0-5.5
	00	0.0		F		loose to soft, dry to slightly moist no odd		
-6 - -7-	1.5	0.0	slightly moist	FILL FILL		NO RECOVERY fine silty SAND, some ash,cinders,coal I medium gravel, (7.5YR 5/1) gray, non pl soft, slightly moist no staining	little fine to lastic loose to	135-P3C-W38A-7.0-7.5
+	U	0.0		FILL		NO RECOVERY		
-8-	11	0.0	slightly	FILL		fine to medium, some ash,cinders,ceran	nice little fine to	
-9	0		moist			medium gravel, trace glass, rubber, (7.5 gray, non plastic loose to soft, slightly m	YR 4/1) dark	135-P3C-W38A-8.5-9.0
	4.0	0.0		FILL		NO RECOVERY		
-10 - -11	— 1.6 —	0.0	moist	FILL		ASH, with fine sand, some cinders,wood ceramics,coal,trace glass, (7.5YR 4/1) of plastic loose, moist no odor no staining		135-P3C-W38A-10.5-11.0
40	1.5	0.0		FILL		NO RECOVERY		
-12 - -13		0.0	moist	FILL		ASH, with fine sand, some cinders,wood ceramics,coal,trace glass, (7.5YR 4/1) d plastic loose, moist no odor no staining		135-P3C-W38A-12.5-13.0
+	0.5	0.0	moist	FILL		SILT, little roots trace fine sand, (7.5YR	2 5/3) very dark	
-14 	1.3	0.0	moist	FILL		brown, low plasticity soft, moist no odor SILT, little roots trace fine sand, fill mate	no staining	
-15	0					2.5/3) very dark brown, low plasticity sof no staining		135-P3C-W38A-14.5-15.0
+		0.0		FILL	\bowtie	NO RECOVERY		
-16	0.5	0.0	moist	FILL	\bowtie	SILT, little roots trace fine sand, fill mate	orial (7.5VP	135-P3C-W38A-16.0-16.5
4	0.3	1.7			<u> </u>	2.5/3) very dark brown, low plasticity sof		135-P3C-W38A-16.5-17.0
-17 -	1.2	2.1	moist moist	OL PT	<u> </u>	\no staining	anic fibers,	130-1 30-W30A-10.5-17.0
-18 					N/, N/,	moderate organic odor no staining. Soils UNDorg. PEAT (degraded vegetated material), 80 20% organic silt, (7.5YR 3/3) dark browr stiff, moist strong organic odor no stainin consistent with MM.	ow organic fibers n, non plastic	
	ow surface g	ırade	COPR - chro	mite ore proce	ssing res	idue UNDno - non-organic undisturbed native depo UNDorg - organic undisturbed native deposits		actured gas plant mate chemical production was

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-W39A

Date St		ling: 5	5/20/2013 9	10:45:00 AM		Drilling Method: Geoprobe Rig Type: Core Size: 3 in		NAD83) x: 610970.8412 NAD83) y: 682308.8313
	By: MI	iiiiig.	3/20/2013	10.43.00 /	(IVI	Project Manager: Scott Mikaelian	Depth to Water:	1011
		n: Nai	rula Proper	ty			Surface Elevation:	9.36 ft NAVD88
)onth	Recovery (ft/ft)	PID	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	mess:	Sample ID
-1	2	0.0	slightly moist slightly moist	FILL FILL		medium to coarse SAND, little fine gravery dark brown, non plastic, loose, sliodor, no staining. fine to medium silty SAND, with fine to little crushed concrete, brick, (5YR 4/4 non plastic, hard, slightly moist, no ode	ghtly moist, no coarse gravel, reddish brown,	
-2 -3	1	0.0		FILL NR		fine silty SAND, some wood fragments coarse gravel, (5YR 4/3) reddish browlose to soft. NO RECOVERY	s, fill material, little	
-4 -5 -	1.8	0.0	dry	FILL		ASH, with fine to medium sand and cir fragements, little glass, (10YR 4/1) da plastic, loose, dry, no odor, no staining	rk gray, non	135-P3C-W39A-5.0-5.5
-6 - -7	2	0.0	dry	NR FILL		NO RECOVERY ASH, with fine to medium sand and cir fragements, little glass, (10YR 4/1) dar plastic, loose, dry, no odor, no staining	rk gray, non	135-P3C-W39A-7.0-7.5
-8- - -9	1.5	196.0	moist	FILL		TAR-LIKE MATERIAL, with fine to coa ash, cinders, coal, wood fragments, tra 2.5/1) black, non plastic, loose, moist, sheen.	ace silt, (7.5YR	135-P3C-W39A-9.0-9.5
40				NR		NO RECOVERY		
-10 - -11	1.7	0.0	dry	FILL		ASH, with fine to medium sand and cir fragements, little glass, silt, ceramics, gray, non plastic, loose, dry, no odor, r	(10YR 4/1) dark	135-P3C-W39A-11.0-11.5
-12		0.0		NR	_	NO RECOVERY		
_ -13 _ -14	2	0.0	dry moist	FILL FILL		ASH, with fine to medium sand and cir fragements, little glass, silt, ceramics, gray, non plastic, loose, dry, no odor, r SILT, some roots, little ash, wood frag (7.5YR 4/2) brown, low plasticity, soft, staining.	(10YR 4/1) dark no staining. ments, fill material,	135-P3C-W39A-13.0-13.5 135-P3C-W39A-13.5-14.0
'-		1.2		OL		LINDorg SILT 90% organic silt 10% c	organic fibers.	135-P3C-W39A-14.0-14.5
15	2	2.3	dry	PT	<u>''</u> '''	(7.5YR 2.5/1) black, low plasticity, soft odor, no staining. Soils consistent with PEAT (degraded vegetated material).	r, moderate organic / r UNDorg.	
-16		0.0	moist	MH		20% organic silt, (7.5YR 3/2) dark browstiff, dry, strong organic odor, no stainiconsistent with MM. UNDno SILT, with roots, little organics grayish brown, low plasticity, soft to deforganic odor, no staining. Soils consist	ing. Soils , (10YR 5/2) ense, moist, slight	
IM - mea	ow surface of adow mat		GGM - greer			sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depose 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this b	sits CCPW - chro	factured gas plant omate chemical production was

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/21/2014 8:10:00 AM

Boring ID: 135-P3C-W40A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610957.968 Rig Type: Coordinates (NJSPNAD83) y: 682280.982

Date Finished Drilling: 4/21/2014 9:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: FM Project Manager: Chris Martell

Donth							
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, (10YR	
-1 -2 -3	5	0.0	dry	FILL		4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, some glass fragments, trace concrete, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-1.0-1.5
		0.0	dry	FILL		fine to medium SAND, little ash, some brick, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-3.0-3.
-5 - -6 -7		0.0	dry	FILL		ASH, and cinders, some fine to medium sand, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-5.0-5.
-8 - -9	5	0.0	dry	FILL		fine to medium SAND, with ash, some cinders, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-9.0-9.
\dashv							135-F3C-W40A-9.0-9.
-10 - -11		87.3	wet	FILL		fine to medium SAND, with cinders and ash, (5YR 3/1) very dark gray, non plastic, loose, wet, moderate hydrocarbon odor, sheen.	135-P3C-W40A-11.0-11
-12 -	5	0.0	dry	FILL		fine to medium SAND, some silt, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	_
_13							135-P3C-W40A-13.0-13
-14		0.0	dry dry	FILL FILL		fine to medium silty SAND, trace glass, coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-14.4-14
-15		0.0	dry	PT	<u> </u>	fine to medium silty SAND, trace wood fragments, trace organic fibers, (5YR 4/1) dark gray, non plastic, soft, dry, no	135-P3C-W40A-14.9-15
-16	5	0.0	dry dry to moist	PT OL		odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, non plastic, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry, slight organic odor, no staining, UNDorg. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (5YR 4/1) dark gray, low plasticity, soft, dry to moist, slight organic odor, no staining. Soils consistent with UNDorg.	

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Boring ID: 135-P3C-X36A

Project Project	Number:	60240	1730			Drilling Method: Geoprobe	Coordinates (N ISPN	IAD83) x: 611040.1545
			5/13/2013 1	0·30·00 ΔN		Rig Type:	•	AD83) y: 682373.699
			5/13/2013			Core Size: 3 in	Boring Total Depth:	
	By : AB		3/13/2013	12.00.00 F		Project Manager: Scott Mikaelian	Depth to Water:	10 11
			ula Propert	37		Project Manager. Scott Mikaellan	Surface Elevation:	0 0 # NIA\/D00
Hysic	ai Locatio	II. INAI	uia Froperi	.у		1	Surface Elevation.	9.9 IL NAV DOO
Depth lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	kness:	Sample ID
_	4.0	0.0	slightly moist	FILL		fine silty SAND, some fill material, (10 grayish brown, non plastic, medium de		
-1	1.8	0.0	slightly moist	FILL		fine to coarse SAND, some asphalt pa material, (10YR 3/2) very dark grayish loose, slightly moist.		
-2-		0.0	slightly moist	NR FILL	-	NO RECOVERY fine silty SAND, some fill material, little	e gravel, (10YR	
-3	2	0.0	slightly	FILL		3/2) very dark grayish brown, non plas slightly moist.		
-4-			moist			fine silty SAND, some concrete, some weathered asphalt, (10YR 4/2) dark gr		
-5-	1.6	0.0	moist	FILL		plastic, dense, slightly moist. ASH, little gravel, little fine to medium dark gray, non plastic, loose, moist.	sand, (10YR 4/1)	
-6-				NR		NO RECOVERY		
-7	1.4	0.0	wet	FILL		ASH, some cinders, little gravel, (10Yl grayish brown, non plastic, loose, wet.		135-P3C-X36A-6.0-6.5
-8-				NR		NO RECOVERY		405 DOO VOOA 0 0 0 5
-9	1.4	0.0	wet	FILL		ASH, little wood, little gravel, (10YR 2. plastic, loose, wet, slight HC odor, she		135-P3C-X36A-8.0-8.5
-10				NR		NO RECOVERY		
-11—	1.2	0.0	wet	FILL		ASH, some cinders, some coal, (10YF non plastic, loose, wet, moderate HC		135-P3C-X36A-10.0-10.5
				NR		NO RECOVERY		
12 - 13	1.2	0.0	wet	FILL		ASH, some cinders, little fine to mediu 3/1) very dark gray, non plastic, loose, odor, sheen.		135-P3C-X36A-12.0-12.5
+				NR		NO RECOVERY		
14 		0.0	wet	FILL		ASH, some cinders, some coal, (10YF non plastic, loose, wet, slight sulfur of		135-P3C-X36A-14.0-14.5
15	1.8	0.0	moist	FILL		SILT, little wood fragments, (10YR 2/1		
16		0.0		NR	XXXX	plasticity, soft, moist, slight sulfur odo	r <u> </u>	135-P3C-X36A-16.0-16.5
_	1.8	0.0	moist -	FILL PT		fine silty SAND, little cinders, little root brown, non plastic, medium dense, medium		135-P3C-X36A-16.5-17.0
-17 -	1.0				1, 11, 11	PEAT (degraded vegetated material),	80% organic fibers,	
-18				NR		medium dense, moist, slight sulfur ode	w plasticity, or. Soils consistent /	
						\with MM. NO RECOVERY		
	ow surface (COPR - chroi		essing res			factured gas plant mate chemical production was
N/I - me	adow mat		GGM - green	arev mud		UNDorg - organic undisturbed native depos	eite ('('P\M - chro	mate chemical production was



Boring ID: 135-P3C-X36AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611032.182 **Date Started Drilling:** 12/2/2014 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682379.051

Date Finished Drilling: 12/2/2014 11:10:00 AM Boring Total Depth: 5 ft Core Size: 3.0 in Logged By: SS Depth to Water: NA Project Manager: Scott Mikaelian

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1-		0.0	dry	FILL		ASH, little asphalt, little fine gravel, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-P3C-X36AR-0.0-0.
-2 -3	5	0.0	dry	FILL		fine to medium SAND, little crushed concrete, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	
-4 -5		0.0	dry	FILL		ASH, some coal, trace debris, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	

2012-09 RA PPG LOGS A.GDT - 11/21/17 11:25

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-X37A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611024.647 Date Started Drilling: 5/20/2013 11:00:00 AM Coordinates (NJSPNAD83) y: 682352.911 Rig Type: Date Finished Drilling: 5/20/2013 1:45:00 PM Core Size: 3 in Boring Total Depth: 18 ft Depth to Water: Logged By: MI Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 9.84 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ID (ft/ft) (ppm) Content Log (ft bgs) 0.0 FILL fine to medium SAND, some fine gravel little silt, trace 1.8 slightly brick, crushed concrete, (7.5YR 3/2) dark brown, non moist plastic loose, slightly moist no odor no staining 135-P3C-X37A-1.0-1.5 0.2 0.0 dry NR fine to medium SAND, some brick, little medium gravel, slightly trace debris, (5YR 4/3) reddish brown, dense, dry no 0.0 FILL odor no staining moist SILT, with fine sand little concrete, glass, (7.5YR 5/4) 135-P3C-X37A-3.0-3.5 0.3 brown, non plastic soft, slightly moist no odor no staining 0.0 slightly FILL 0.4 fine to medium SAND, some fine gravel little silt, trace FILL 0.5 0.0 moist brick, crushed concrete, (7.5YR 3/2) dark brown, non dry FILL 0.0 15 plastic loose, slightly moist no odor no staining fine to medium SAND, some cinders, ash, trace coal, slightly 0.0 FILL moist (10YR 4/2) dark grayish brown, medium dense, dry no 135-P3C-X37A-5.0-5.5 moist odor no staining fine to medium SAND, some fine gravel little cinders, coal, wood fragments, (7.5YR 2.5/3) very dark 53.6 FILL moist brown, non plastic loose, slightly moist no odor no staining 135-P3C-X37A-7.0-7.5 ASH, some fine sand some cinders, coal, wood fragments, little ceramics glass, (10YR 4/1) dark gray, 0.0 FILL 2 non plastic loose, moist no odor no staining 0.0 **FILL** moist ASH, some fine sand some cinders, coal, wood fragments, tar like material, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist moderate tar odor 135-P3C-X37A-9.0-9.5 sheen NO RECOVERY ASH, some fine sand some cinders, coal, wood 0.0 moist **FILL** fragments, little ceramics glass, (10YR 4/1) dark gray, 135-P3C-X37A-10.5-11.0 non plastic loose, moist no odor no staining ASH, some fine sand some cinders, coal, wood 0.0 **FILL** fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining NO RECOVERY 0.0 moist FILL ASH, some fine sand some cinders, coal, wood 135-P3C-X37A-12.5-13.0 fragments, little ceramics, medium gravel, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining n 0.0 FILL NO RECOVERY 0.0 **FILL** moist ASH, some fine sand some cinders, coal, wood fragments, little ceramics, medium gravel, (10YR 4/1) 135-P3C-X37A-14.5-15.0 dark gray, non plastic loose, moist no odor no staining 8.0 0.0 FILL SILT. some fine to coarse sand little coarse gravel, roots, moist (5YR 5/2) reddish gray, non plastic soft, moist no odor no 135-P3C-X37A-15.7-16.2 0.2 staining 0.0 moist **FILL** 135-P3C-X37A-16.2-16.7 1.8 SILT, some fine to coarse sand little coarse gravel, roots, (5YR 5/2) reddish gray, non plastic soft, moist no odor no 2.1 dry 11, staining 11, 11, PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, (7.5YR 3/2) dark brown, non plastic stiff, dry strong organic odor no staining. Soils consistent with MM bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

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.

Boring ID: 135-P3C-X38A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611003.693

			4/24/2014 8 4/24/2014	9:55:00 AM		Rig Type: Core Size: 2 in	Boring Total Depth:	NAD83) y: 682323.121
	IBy: ES	illing.	4/24/2014	9.33.00 AIV		Project Manager: Scott Mikaelian	Depth to Water:	. 2011
		a. No	rula Proper	ts /		Froject Mariager. Scott Mikaellan	Surface Elevation:	12 EO # NA\/D00
riysica	ai Locatioi	i. Na	ruia Proper	ty	1		Surface Elevation:	13.59 IL NAVD66
Depth lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thi	ickness:	Sample ID
_ -1 - -2	5	0.0	dry	FILL		fine to coarse SAND, some fine to c cinders, little coal, trace brick, trace (10YR 4/2) dark grayish brown, dens staining.	salt precipitate,	135-P3C-X38A-1.0-1.5
-3 - -4 -		0.0	dry to moist	FILL		fine to medium silty SAND, some as wood debris, trace coal, glass, (10Y brown, dense, dry to moist, no odor,	R 4/2) dark grayish	135-P3C-X38A-3.0-3.5
-6-		0.0	moist	FILL		fine to medium silty SAND, with cinc glass, (7.5R 3/3) dusky red, loose to moist, no odor, no staining.		135-P3C-X38A-5.0-5.5
-7-		0.0	wet	FILL		fine to medium silty SAND, little cinc glass, (10YR 4/2) dark grayish brow wet, no odor, no staining.		405 DOO VOOL TO T
-8 -9	5					wet, no odor, no staining.		135-P3C-X38A-7.0-7.5
10		0.0	saturated	FILL		fine to medium silty SAND, with fine		
-11 -12 -13	4					trace ash, wood debris, (10YR 5/1) saturated, no odor, no staining.	gray, very loose,	135-P3C-X38A-11.0-11.5
-14 -				NR		NO RECOVERY		
15		0.0			XXXX	and Old T Balls of the Street Co	(FD F/0)1:1	135-P3C-X38A-15.0-15.5
-16	5	0.0	moist to dry moist	FILL PT		PEAT (degraded vegetated material 20% organic silt, (7.5YR 2.5/2) very stiff, moist, strong organic odor, no sconsistent with MM.	odor, no staining.), 80% organic fibers, dark brown, medium	135-P3C-X38A-15.5-16.0
-19 - -20		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% (10YR 5/1) gray, low plasticity, soft, odor, no staining. Soils consistent w	moist, slight organic	
M - mea	ow surface g adow mat		GGM - greer			idue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	oosits CCPW - chi	ufactured gas plant romate chemical production was

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Boring ID: 135-P3C-X39A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610998
Date Started Drilling: 4/23/2014 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682292
Date Finished Drilling: 4/23/2014 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

Depth Lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
-1- -				NR		NO RECOVERY	
-2- - -3	3.2	0.0	dry to moist	FILL		fine to coarse SAND, with cinders, ash, little fine gravel, trace glass, brick, (10YR 4/2) dark grayish brown, loose to dense, dry to moist, no odor, no staining.	135-P3C-X39A-1.8-2.3
				NR		NO RECOVERY	135-P3C-A39A-3.5-4.1
-5		0.0	moist	FILL		ASH, with cinders, little fine to coarse sand, trace coal,	_
-6 -7	5		moiot	112		glass, (10YR 4/1) dark gray, dense, moist, no odor, no staining.	135-P3C-X39A-5.5-6.0
-8 -9							135-P3C-X39A-7.5-8.
_		0.0	dry	FILL		sandy SILT, trace cinders, ash, ceramics, (10YR 4/1) dark gray, low plasticity, medium stiff, dry, no odor, no staining.	135-P3C-X39A-9.5-10
-10 -11 -12		0.0	wet	FILL		fine to medium silty SAND, with ash, cinders, some fine to medium gravel, trace coal, glass, (10YR 3/1) very dark gray, medium dense, wet, no odor, no staining.	135-P3C-X39A-11.5-12
-13 -13 - -1				MD		NO DECOVERY	135-P3C-X39A-13.5-14
_				NR		NO RECOVERY	
15 — —		0.0	moist	FILL		sandy SILT, trace ash, trace fibers, (5YR 3/2) dark reddish brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-X39A-15.5-16
-16 -17	_	0.0	moist	PT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	135-P3C-X39A-16.0-16
- 18 - -	5	0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
-19 - - -20 -		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	

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Boring ID: 135-P3C-X40A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610979.088

 Date Started Drilling:
 3/22/2014 10:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682263.952

 Date Finished Drilling:
 3/22/2014 11:20:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

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

Physical Location: Marula Property

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
-1 2 	5	0.0	slightly moist	FILL		CINDERS, some fine to medium sand, little ash, trace brick, (10YR 5/4) yellowish brown, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-X40A-1.0-1.5
-3 -4 - 4							135-P3C-X40A-3.0-3.5
-5		0.0	slightly moist	FILL		fine to medium silty SAND, little fine gravel, trace cinders, (10YR 5/1) gray, non plastic, very loose, slightly moist, no	135-P3C-X40A-5.0-5.5
-6		0.0	slightly moist	FILL		odor, no staining, subrounded well graded. CINDERS, some ash, little brick, little coal, little sand, (10YR 5/4) yellowish brown, non plastic, loose, slightly moist, no	
- 8 - 8 - 9	5					odór, no staining, subrounded well graded.	135-P3C-X40A-7.0-7.5
- 10							135-P3C-X40A-9.0-9.5
- 11		0.0	moist to wet	FILL		SILT, some cinders, some ash, little fine sand, little coal, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet, no odor, no staining.	405 D00 V40A 44 0 44
	5	0.0	moist to wet	FILL		fine to medium silty SAND, little gravel, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet, no odor, no staining.	135-P3C-X40A-11.0-11.
-13 - -14 -							135-P3C-X40A-13.0-13.
-15 - -16		0.0	moist to wet	FILL		fine to medium SAND, trace fine gravel, trace metal debris, (10YR 3/1) very dark gray, non plastic, very loose, moist to wet, no odor, no staining.	135-P3C-X40A-15.0-15.
-1		0.0	moist	OL		SILT, trace fine gravel, (10YR 3/1) very dark gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg.	
-18 18 	5	0.0	slightly moist moist	OL PT		SILT, some clay, little roots, (10YR 5/1) gray, low plasticity, soft, slightly moist, no odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, (5GY 4/2) dark grayish brown, low plasticity, medium stiff, moist, slight sulfur odor, no staining. Soils consistent with MM.	135-P3C-X40A-17.0-17. 135-P3C-X40A-17.5-18.
20							

Project Number: 60240739

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Boring ID: 135-P3C-X41A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610962.766 Date Started Drilling: 3/22/2014 10:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682247.563

Date Finished Drilling: 3/22/2014 12:05:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: AG Project Manager: Chris Martell Physical Location: Narula Property

ecovery (ft/ft)	PID (ppm) 0.0 0.0	Moisture Content slightly moist	USCS CONCRETE FILL	Graphic Log	Surface Cover and Thickness: CONCRETE fine to medium silty SAND, some ash, little coal, little cinders, (10YR 3/4) dark yellowish brown, medium dense, slightly moist, no odor, no staining	Sample ID 135-P3C-X41A-1.0-1.5
5	0.0				fine to medium silty SAND, some ash, little coal, little cinders, (10YR 3/4) dark yellowish brown, medium dense,	135-P3C-X41A-1.0-1.5
5			FILL		cinders, (10YR 3/4) dark yellowish brown, medium dense,	135-P3C-X41A-1.0-1.5
	0.0					
	0.0	1				135-P3C-X41A-3.0-3.5
		slightly moist	FILL		ASH, some cinders, little fine to medium sand, trace brick, (10YR 4/1) dark gray, non plastic, medium dense, slightly moist	135-P3C-X41A-5.0-5.5
5	0.0	slightly moist	FILL		Coarse SILICATE MATERIAL, some medium to coarse sand, (10YR 5/1) gray, non plastic, dense, slightly moist	135-P3C-X41A-7.0-7.5
	0.0	moist to wet	FILL		fine to medium silty SAND, some cinders, trace coal, trace fine gravel, (5YR 3/2) dark reddish brown, non plastic, medium dense, moist to wet, no odor, no staining, subrounded	135-P3C-X41A-9.0-9.5
	0.0	wet	FILL		fine to medium silty SAND, some cinders, (10YR 4/2) dark grayish brown, non plastic, medium dense, wet, slight petroleum odor, sheen	135-P3C-X41A-11.0-11
5 .	0.0	wet	FILL		fine to medium silty SAND, some cinders, (10YR 4/2) dark grayish brown, non plastic, medium dense, wet	135-P3C-X41A-13.0-13
	0.0	moist to wet	FILL		SILT, little clay, little cinders, little wood, trace subangular coarse gravel, (5YR 3/2) dark reddish brown, (10YR 4/2) dark gravish brown, moist to wet	135-P3C-X41A-15.0-15
	0.0	slightly	SM		fine silty SAND, (10YR 5/1) gray, medium dense, slightly	135-P3C-X41A-16.0-16 135-P3C-X41A-16.5-17
5 .	0.0	moist	PT	\(\frac{1}{2} \fr	PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, no odor, no staining. Soils consistent with MM	
	5 5	5 0.0 5 0.0 0.0 5 0.0	0.0 moist to wet	moist	moist 0.0 moist to wet 0.0 wet FILL 0.0 wet FILL 0.0 moist to wet 0.0 slightly moist 0.0 moist PT 0.0 wet vet 0.0 moist PT 0.0 wet vet 0.0 wet 0	moist Sand, (10YR 5/1) gray, non plastic, dense, slightly moist O.0

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Boring ID: 135-P3C-Y33A

							ordinates (N.ISPN	
	Number:							IAD83) x: 611108.467
				10:50:00 AM				AD83) y: 682439.566
			5/22/2013	3 10:55:00 AN			ring Total Depth:	18 ft
	IBy: AB						pth to Water:	
Physica	al Locatio	n: Nai	ula Prope	rty		Sui	rface Elevation:	9.93 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickness:	:	Sample ID
	2	0.0	slightly moist	ASPHALT		ASPHALT, weathered fragments and sub-ba 2/1) black, non plastic, loose, slightly moist.	ase, (10YR	
-1	۷	0.0	slightly moist	FILL		fine silty SAND, some gravel little asphalt, (street reddish brown, non plastic, dense, slightly m		
2			dry	CONCRETE	N - 4	CONCRETE, (10YR 7/1) light gray, non plas	stic, dense,	
-		0.0	dry	CONCRETE	0 4 4 5	\dry.		
⊢	•				P 4 4 P	CONCRETE, little fine to medium sand little	silt, (10YR	
-3	2	0.0	moist	FILL		7/1) light gray, non plastic, dense, dry.	/┌┤	
		5.5	moist	FILL	\bowtie	WOOD PARTICLES, (10YR 5/6) yellowish to	brown, non	
_4.					\bowtie	\plastic, medium dense, moist. \[\int fine to medium silty SAND, some cinders transfer to the content of	aco wood	
-4-		0.0	dry	FILL		(10YR 3/4) dark yellowish brown, non plastic		
\dashv		3.4	moist	FILL	\bowtie	\\dense, moist, iron oxide staining.	,ouidiii //	405 D00 \/004 / 7 = 5
-5-	1.2	0.0	moist	FILL		fine to medium silty SAND, little cinders, asl		135-P3C-Y33A-4.7-5.2
_		0.0	to	NR		│ \coal, ceramics, (10YR 5/2) grayish brown, n		
			wet			dense, dry, no odor, no staining.		
-6-		0.0	wet	FILL		fine to medium silty SAND, some rock fragn		
\dashv			-		\bowtie	cinders, trace brick, (10YR 4/2) dark grayish	n prown, non	
-7-	1.3				\bowtie	plastic, medium dense, moist, iron oxide sta ASH, some cinders some ceramics, little gla	ass (10YR	135-P3C-Y33A-6.7-7.2
		0.0		NR	XXXXX	ASA, some cinders some ceramics, little gis		
		0.0		INK		NO RECOVERY		
-8-		4.5	wet	FILL		\\ASH, some cinders, little gravel little wood, l		
\dashv					\bowtie	\\(10YR 3/1) very dark gray, non plastic, loose		
-9	1.3				\bowtie	NO RECOVERY	/	135-P3C-Y33A-8.7-9.2
_		0.0		ND	××××	ASH, some cinders, some gravel little glass		
7		0.0		NR		ceramics, (10YR 3/1) very dark gray, non playet.	astic, ioose,	
-10		0.0	wet	FILL	XXXX	NO RECOVERY		
	1		WCt	1 122		SILT, some ash, some cinders little glass, li (10YR 2/1) black, non plastic, loose, wet.	ittle ceramics,	135-P3C-Y33A-10.5-11.0
-11	•	0.0		NR		NO RECOVERY		
12								
-12		1.5	wet	FILL		ASH, some cinders, somer gravel trace met	tal, (10YR	
\dashv		8.3	moist	FILL	\bowtie	3/2) very dark grayish brown, non plastic, lo	ose, wet.	135-P3C-Y33A-12.5-13.0
-13	2				\bowtie	fine SAND, some ash, little cinders trace bri	ick, (10YR	
4		4.0	moist	FILL		4/2) dark grayish brown, non plastic, mediur moist.		
-14		0.0	moist	FILL		fine silty SAND, little cinders little roots, trac (10YR 3/2) very dark grayish brown, mediun		135-P3C-Y33A-14.1-14.6
\dashv		0.0	moiet	PT	<u> </u>	\soft, moist.	. , , , , ,	135-P3C-Y33A-14.6-15.1
-15	1.1		moist		<u> </u>	fine silty SAND, little gravel, trace cinders tra		.55 7 55 7557 14.0 70.1
4		0.0		NR		\\((10YR 5/2)\) grayish brown, low plasticity, me	edium dense, //	
-16					<u></u>	│	organic fibers	
10		0.0	moist	OH		PEAT (degraded vegetated material), 80% of the control of the co		
⊣	1.0					moist, moderate sulfur odor. Soils consisten	nt with MM.	
-17	1.6				KYYYY,	NO RECOVERY		
\dashv						clayey SILT, some roots trace shells, (10YR		
-18		0.0		NR		gray, medium plasticity, soft, moist, slight su	ultur odor.	
.5						Soils consistent with UNDorg. NO RECOVERY	//	
						NAO ULOOATU		
otes:			005-					
gs - belo	ow surface gadow mat		COPR - chr	omite ore proce	ssing res	due UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits		factured gas plant omate chemical production was

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Boring ID: 135-P3C-Y34A

	Name: F					Drilling Company: SGS North America	Coordinates (NJCD)	(AD02) C11001 0C10
	Number:			40.00 DM		Drilling Method: Geoprobe	1	IAD83) x: 611091.9612
			5/21/2013 1			Rig Type:	,	AD83) y: 682417.7792
		illing:	5/21/2013	2:29:00 PN		Core Size: 3 in	Boring Total Depth:	16 ft
	d By: MI					Project Manager: Scott Mikaelian	Depth to Water:	
hysic	al Locatio	n: Nar	ula Propert	У			Surface Elevation:	9.75 ft NAVD88
Depth Range	Recovery		Moisture	USCS	Graphi	c Surface Cover and Thick	ness:	Sample
t bgs)	(ft/ft)	(ppm)			Log			ID
-		0.0	slightly moist	FILL		fine to medium SAND, with little fine to (7.5YR 2.5/3) very dark brown, non pla		
-1	1.4	0.0				moist, no odor, no staining. fine to medium silty SAND, little fine to		
-2		0.0	slightly	NR FILL	 	little coal, trace brick, (5YR 4/4) reddis plastic, loose to soft, no odor, no stain NO RECOVERY	n brown, non ing.	
-3 -	1.8		moist			fine silty SAND, some fine to coarse g trace brick, (5YR 3/4) dark reddish bro loose to soft, slightly moist, no odor, n	wn, non plastic,	
-4		0.0		NR		NO RECOVERY		
_		0.0	slightly moist	FILL		fine silty SAND, some fine to coarse g trace brick, (5YR 3/4) dark reddish bro	ravel, little coal, wn, non plastic,	135-P3C-Y34A-4.5-5.0
-5 	1			NR		loose to soft, slightly moist, no odor, no NO RECOVERY		
-6		0.0		Eu i	XXXX	A CI L with fine point a second	anta sinda	
-7-	1.4	0.0	moist	FILL		ASH, with fine sand, some wood fragn coal, little ceramics, (7.5YR 4/1) dark (loose, moist, no odor, no staining.	gray, non plastic,	135-P3C-Y34A-6.5-7.0
				NR		NO RECOVERY		
-9	1.2	0.0	moist	FILL		ASH, with fine sand, some wood fragn coal, little ceramics, (7.5YR 4/1) dark (loose, moist, no odor, no staining.		135-P3C-Y34A-8.5-9.0
9 –				NR	XXXX	NO RECOVERY		
-10 -		0.0	moist	FILL		ASH, with fine sand, some wood fragn coal, little ceramics, (7.5YR 4/1) dark (135-P3C-Y34A-10.5-11.0
-11 -	1			NR		loose, moist, no odor, no staining. NO RECOVERY		
12 <u> </u>	1	0.0	moist	FILL		SILT, some fine to medium sand, little roots, (7.5YR 4/2) brown, low plasticity		135-P3C-Y34A-12.5-13.0
13 <u> </u>	1			NR		odor, no staining. NO RECOVERY		
14		0.0	moist	FILL		SILT, some fine to medium sand, little	fine gravel roots	135-P3C-Y34A-14.0-14.5
, -	2	2.6	dry	PT	<u> </u>	(7.5YR 2.5/3) very dark brown, low pla		135-P3C-Y34A-14.5-15.0
15 <u> </u>	_	1.1	moist	MH	<u> </u>	PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, dry,		
-16				· · · · ·	11111	Odor, no staining. Soils consistent with UNDno SILT, with roots, little organics grayish brown, low plasticity, soft to stionganic odor, no staining. Soils consistent with the control of	MM. , (10YR 4/2) dark ff, moist, slight	
	ow surface gadow mat		COPR - chroi GGM - green		essing res	sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		actured gas plant mate chemical production was
						e 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this b		mate enemied production was

Boring ID: 135-P3C-Z30A

Project						Drilling Company: SGS North America	Coordinates (N. 100)	NADO2) vi. 644475 7044
	t Number:			0:00:00 AM		Drilling Method: Geoprobe Rig Type:		NAD83) x: 611175.7811 NAD83) y: 682506.4345
				10:30:00 AIVI		Core Size: 3 in	Boring Total Depth:	
	d By : AB		3/22/2013	10.30.00 A		Project Manager: Scott Mikaelian	Depth to Water:	10 11
			ula Proper	tv		10ject manager. 300tt milkaelian	Surface Elevation:	10 19 ft NAVD88
	ui Localio	ıı ıval	aia i Topel	Ly			Juliace Lievation.	10.10 IL INAV DOO
Depth Range t bgs)		PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
		0.0	slightly	ASPHALT		ASPHALT, weathered fragments and s	sub-base, (10YR	
_	1	0.0	moist	FILL		2/1) black, non plastic, loose, slightly r	noist.	
-1 <i>-</i>	2		slightly			fine to coarse SAND, some gravel, sor	ne weathered	135-P3C-Z30A-1.0-1.5
_		155	moist slightly	FILL		asphalt, (10YR 2/1) black, non plastic, moist.	loose, slightly	-
-2			moist		\bowtie	fine silty SAND, some rock fragments,	little cinders.	
_		662	moist	FILL		\ (10YR 3/2) very dark grayish brown, no	on plastic, medium /	
_	2				\bowtie	\dense, slightly moist, moderate petrole	eum odor. /	
-3	_				\bowtie	fine to medium silty SAND, some grav	el, little ash, little	135-P3C-Z30A-3.0-3.5
_	-				\bowtie	cinders, trace glass, trace coal, (10YR plastic, medium dense, moist, strong p	2/1) black, non	
-4		005	_		\bowtie	<u> </u>		-
_]	825	wet	FILL		ASH, some cinders, little sand, little gr		
_	1.6	700		F	\bowtie	very dark gray, non plastic, medium de	rise, wet, strong	-
-5	1	792	wet	FILL	\bowtie	ASH, some cinders, little glass fragme	nts, little coal,	135-P3C-Z30A-5.0-5.5
_	1			NR	 XXXX	(10YR 2/1) black, non plastic, loose, w	et, strong	-
-6		105	wet	FILL	XXXX	petroleum odor, sheen.	/	-
_	-	.00	WEL	I ILL		NO RECOVERY some ash, little glass fragments, little l	orick little	135-P3C-Z30A-6.5-7.0
-7	1.2					ceramics, (10YR 3/2) very dark grayisl		155-F 50-Z30A-0.5-7.0
•				NR	\sim	plastic, loose, wet, strong petroleum of		†
_				1411		NO RECOVERY		
-8-		90.8	wet	FILL		CINDERS, some ash, little gravel, little	ceramics. little	1
_	1					glass, (10YR 3/1) very dark gray, non	plastic, loose, wet,	135-P3C-Z30A-8.5-9.0
-9	1			ND	XXXX	strong petroleum odor, sheen.		
_	1			NR		NO RECOVERY		
-1∩					L			
-10		37.4	wet	FILL		ASH, some cinders, little ceramics, little		
_						glass, (10YR 2/1) black, non plastic, lo	ose, wet,	135-P3C-Z30A-10.5-11.0
-11	1.4					moderate petroleum odor, sheen.		
_	-			NR	XXXX	NO RECOVERY		-
-12		40 -						_
_		42.5	wet	FILL	\bowtie	ASH, some cinders, little glass fragme trace shells, (10YR 2/1) black, non pla		
_10	1.2					slight petroleum odor.	SIIC, IUUSE, WEL,	135-P3C-Z30A-12.5-13.0
-13] ·· <u>-</u>			NR	 	NO RECOVERY		-
_	1			INIX		INURECUVERT		
-14		82.7	wet	FILL	XXXX	CINDERS, some ash, little glass fragn	nents trace brick	1
_	1	50.0	moist	FILL		(10YR 2/1) black, non plastic, loose, w	et, moderate	135-P3C-Z30A-14.5-15.0
-15	2					petroleum odor.	,	10.0
_	1	55.6	moist	FILL		SILT, some ash, little cinders, little roo		135-P3C-Z30A-15.4-15.9
_16		440			XXXX	black, medium plasticity, soft, moist, s	iigrit petroleum	
-16		143	moist	PT	11/11/11	fine silty SAND, little cinders, little root	s, trace brick,	135-P3C-Z30A-15.9-16.4
_	1.6	120	moist	PT	1/ 1//	\ (10YR 4/2) dark grayish brown, non pla		
-17	1.6				11/ 11/	\slight petroleum odor.	000/ anacris fil	
_	-				ļ	PEAT (degraded vegetated material), 20% organic silt, (10YR 4/3) brown, no	bu% organic tibers,	-
-18				NR		moist,. Soils consistent with MM.	יון אומטנוט, וטטטט,	
						PEAT (degraded vegetated material),		
						20% organic silt, (10YR 3/3) dark brow	n, low plasticity,	
						soft, moist, moderate sulfur odor. Soils	s consistent with	
						MM. NO RECOVERY		
						(
otes:								
	ow surface of			mite ore proce	essing res			ıfactured gas plant
NA	eadow mat			n grey mud		UNDorg - organic undisturbed native depos	ito CCDM · · ·	omate chemical production was

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-Z31A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611160.2745 Date Started Drilling: 5/21/2013 11:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682481.647 Date Finished Drilling: 5/21/2013 2:30:00 PM Core Size: 3 in Boring Total Depth: 16 ft Depth to Water: Logged By: AB Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 10.08 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ID (ft/ft) (ppm) Content Log (ft bgs) 0.0 **ASPHALT** ASPHALT, weathered fragments and sub base, (10YR slightly moist 2/1) black, non plastic, dense, slightly moist. 2 0.0 slightly **FILL** fine to medium silty SAND, some gravel, trace brick, 135-P3C-Z31A-1.0-1.5 moist trace coal, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist. 0.0 fine to medium silty SAND, some gravel, trace coal, trace FILL moist wood, trace plastic, (10YR 3/3) dark brown, non plastic, 2 loose, moist. 135-P3C-Z31A-3.0-3.5 0.0 **FILL** ASH, some cinders, little gravel, trace metal, (10YR 4/1) moist dark gray, non plastic, loose, moist. 14.4 ASH, some cinders, little coal, little gravel, trace fill wet **FILL** material, (10YR 2/1) black, non plastic, loose, wet, slight 1.5 petroleum odor, sheen. 135-P3C-Z31A-5.0-5.5 NO RECOVERY NR 2.3 FILL ASH, some cinders, little glass fragments, trace metal, wet (10YR 2/1) black, non plastic, loose, wet, slight 135-P3C-731A-6 5-7 0 petroleum odor, sheen NR NO RECOVERY 0.0 ASH, some cinders, little glass fragments, little gravel, trace fill material, (10YR 3/1) very dark gray, non plastic, **FILL** wet 135-P3C-Z31A-8.5-9.0 1.8 loose, wet, slight petroleum odor, sheen. NO RECOVERY NR 0.0 wet fine to medium CINDERS, little ash, little glass FILL 135-P3C-Z31A-10.5-11.0 fragments, little gravel, trace metal, (10YR 2/1) black, 1.3 non plastic, loose, wet, slight burnt odor. NR NO RECOVERY 12 0.0 wet FILL fine to medium CINDERS, little ash, little gravel, little coal, (10YR 2/1) black, non plastic, loose, wet. 0.0 wet **FILL** 135-P3C-Z31A-12.5-13.0 1.1 SILT, little ash, little cinders, trace roots, (10YR 2/1) black, medium plasticity, soft, wet. NR 0.0 **FILL** wet SILT. little ash. little cinders, trace roots, (10YR 2/1) black, medium plasticity, soft, wet. 135-P3C-Z31A-14.5-15.0 0.0 **FILL** wet 2 fine to medium silty SAND, some gravel, little cinders, 135-P3C-Z31A-15.0-15.5 17.2 PT moist (5YR 4/3) reddish brown, non plastic, loose, wet PEAT (degraded vegetated material), 80% organic fibers, 11/ 20% organic silt, (10YR 4/3) brown, low plasticity, soft, 16 moist, moderate sulfur odor. Soils consistent with MM

2012-09 RA PPG LOGS A.GDT - 11/21/17 11:25

bgs - below surface grade MM - meadow mat

COPR - chromite ore processing residue GGM - green grey mud

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

MGP - manufactured gas plant CCPW - chromate chemical production waste

comments: 1) 3 attempts were made to obtain best recovery 2) MMUND 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: 135-P3C-Z32A

	Name: F Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPI	NAD83) x: 611143.7679
				9:00:00 AM		Rig Type:		IAD83) y: 682462.8594
				10:45:00 AN		Core Size: 3 in	Boring Total Depth:	
	By: AB	·····				Project Manager: Scott Mikaelian	Depth to Water:	
		n: Na	rula Prope	rtv	-	ojosa managon - ossa mmasnan	Surface Elevation:	10 16 ft NAVD88
	ai Looutio		ula i iopo				Curiaco Elovación	10.10 10 10 10
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickr	ness:	Sample ID
	0.5	0.0	slightly	ASPHALT		ASPHALT, weathered fragments and s	ub base, (10YR	
\dashv	1.5	0.0	moist	FILL	$\times\!\!\times\!\!\times\!\!\times$	2/1) black, non plastic, medium dense,	slightly moist	-
-1		0.0	slightly	I ILL	XXXX	fine to medium SAND, some angular g		135-P3C-Z32A-1.0-1.5
4			moist		\ggg	material, (10YR 2/1) black, non plastic, slightly moist	medium dense,	135-P3C-Z3ZA-1.0-1.5
-2	1.1				$\times\!\!\times\!\!\times$	Slightly moist		
_	1.1	0.0	slightly	FILL	XXX	fine to medium silty SAND, some grave		
			moist		\bowtie	glass, little cinders, (10YR 3/2) very da	k grayish brown,	
-3	0.9				\bowtie	non plastic, medium dense, slightly mo		135-P3C-Z32A-3.0-3.5
		0.0	moist	FILL	\bowtie	ASH, some cinders, little fine to mediur		100-1 00-202A-0.0-0.0
,	10				\bowtie	fragments, trace brick, (10YR 4/1) dark	gray, non plastic,	
-4	1.8	0.0	wet	FILL	\bowtie	loose, moist	nto traco briek]
\dashv					\bowtie	ASH, some cinders, little glass fragmer trace fill material, (10YR 2/1) black, nor		
-5					\bowtie	wet, slight burnt odor	, piastio, 1003 0 ,	135 D2C 7224 5.0.5.5
					XXX			135-P3C-Z32A-5.0-5.5
\prod	0				\bowtie	No PERSON I		1
-6-	0.5	0.0	wet	FILL		NO RECOVERY	/ // // // // // // // // // // // // /	1
+	1.5	17.9		FILL FILL		ASH, some cinders, little fine to mediur 2/1) black, non plastic, loose, wet, sligh	II sana, (10YK	1
-7		0.0	wet	FILL	\bowtie	ASH, some cinders, little ceramics little	gravel (10VP	
<i>'</i>						4/1) dark gray, non plastic, loose, wet,		135-P3C-Z32A-7.0-7.5
-8	0.8				>>>>			425 D2C 7224 0.0.0 5
		0.0	wet	FILL	\bowtie	ASH, some cinders, little ceramics little	gravel, trace	135-P3C-Z32A-8.0-8.5
	0				\bowtie	metal, (10YR 2/1) black, non plastic, lo	ose, wet, slight	_
-9		0.0		FILL	\bowtie	burnt odor NO RECOVERY		
\dashv					\bowtie	NORECOVERT		
-10	1				\bowtie	<u> </u>		405 500 7004 40 0 40 5
		0.0	wet	FILL	\bowtie	ASH, some cinders, little glass fragmer		135-P3C-Z32A-10.0-10.5
]	0				\bowtie	trace metal, (10YR 2/1) black, non plas slight burnt odor	tic, loose, wet,	
-11		0.0		FILL		NO RECOVERY		
	0.0				\ggg			
-12	0.8	0.0	wet	FILL		CINDERS, some ash trace metal, trace	fill material,	135-P3C-Z32A-12.0-12.5
\dashv	0				\bowtie	(10YR 2/1) black, non plastic, loose, we		
-13	U	0.0		FILL		odor		1
					\bowtie	NO RECOVERY	_	
					\bowtie	8		
-14	8.0	0.0	moist	FILL		fine to medium silty SAND, little gravel	little cinders (5YR	
\dashv	1.2				\bowtie	4/2) dark reddish gray, low plasticity, m		135-P3C-Z32A-14.3-14.8
-15	1.4	2.3	moist	PT	<u> </u>	moist		135-P3C-Z32A-14.8-15.3
					1/ 1/1/	PEAT (degraded vegetated material), 8	0% organic fibers,	
,					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	20 /0 Organic Silt, (10 1 K 4/2) dark grayis	sn brown, low	
-16					N// N/	plasticity, soft, moist, moderate sulfur c	dur. Solis	
						CONSISTENT WITH IMIN.		
-4								
	ow surface g			omite ore proce	ssing res			factured gas plant
M - me			GGM - gree	n arov		UNDorg - organic undisturbed native deposit	CODIA -1	omate chemical production was

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/20/2014 11:20:00 AM

Boring ID: 135-P3C-Z35A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America

Drilling Method: Bucket Auger Coordinates (NJSPNAD83) x: 611108.276 Rig Type: Coordinates (NJSPNAD83) y: 682372.412

Date Finished Drilling: 3/20/2014 1:10:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: ES Project Manager: Chris Martell

Physical Location: Narula 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 P Q P	CONCRETE	
-1- 2- 	5	0.0	dry	FILL		fine to coarse SAND, with cinders, little ash, trace coal, wood fragments, (5YR 2.5/2) dark reddish brown, medium dense, dry, no odor, no staining.	135-P3C-Z35A-1.0-1.5
-3 -4 4							135-P3C-Z35A-3.0-3.5
-5		0.0	dry	FILL		CINDERS, with ash, (5YR 3/1) very dark gray, loose, dry, no odor, no staining.	135-P3C-Z35A-5.0-5.5
-6 - 		0.0	dry	FILL		fine to medium SAND, some gravel, little ash, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	
	5						135-P3C-Z35A-7.0-7.5
-8 -		0.0	wet	FILL		medium to coarse gravelly SAND, with cinders, ash, little glass fragments, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining.	
-9 - -10							135-P3C-Z35A-9.0-9.5
-11 -11		0.0	wet	FILL		medium to coarse gravelly SAND, with cinders, ash, little glass fragments, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining.	135-P3C-Z35A-11.0-11
-12 - -13	5						135-P3C-Z35A-13.0-13
-14 - -							
-15 _		0.0	wet	FILL		SILT, with wood fragments, (7.5YR 3/1) very dark gray, low	135-P3C-Z35A-15.0-15
-16		0.0	moist	SM		plasticity, soft, wet, no odor, no staining. UNDno, SILT, with fine sand, (7.5YR 5/1) gray, low	135-P3C-Z35A-15.5-16
-1 -1	5	0.0	moist	PT	<u> </u>	plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist,	
-18 <u> </u>		0.0	moist	OL		strong organic odor, no staining. Soils consistent with MM. UNDorg, SILT, 80% organic silt, 20% organic fibers, (7.5YR	
-19 - - -20 -		0.0	moist	SM		5/1) gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDno, SILT, (10YR 6/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.	
20							
	. 1) 2 ::			ablata t		IND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inten	

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-Z37A

Page: 1

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

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611081.196 Date Started Drilling: 3/20/2014 10:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682318.928

Date Finished Drilling: 3/20/2014 11:15:00 AM Boring Total Depth: 20 ft Core Size: 2.0 in

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

Depth							, 5
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.		CONCRETE	D P 4 P	CONCRETE	
-1		0.	dry	FILL		CINDERS, (5YR 2.5/1) black, loose, dry, no odor, no staining.	135-P3C-Z37A-1.0-1.5
-2- 3-	5	0.	dry	FILL		ASH, and cinders, (10YR 5/2) grayish brown, loose, dr odor, no staining.	y, no 135-P3C-Z37A-3.0-3.5
-4 -5							
-6		0.	dry	FILL		CINDERS, with ash, some medium to coarse sand, litt coarse gravel, trace glass, (5YR 4/1) dark gray, loose, no odor, no staining.	dry,
-7-		0.	dry	FILL		silty SAND, some cinders, ash, little to trace glass, (7.5	
- 8 - 8 8	5	0.	to <u>moist</u> moist	FILL		3/2) dark brown, medium dense, dry to moist, no odor, staining. CINDERS, with ash, little gravel, little glass, (5YR 4/1) gray, loose, moist, no odor, no staining.	/ 150 1 55 2577 116 116
-9 -1		0.	wot	FILL		modium to coarse gravelly SAND little glass fragments	135-P3C-Z37A-9.0-9.5
			wet			medium to coarse gravelly SAND, little glass fragments trace brick, (7.5YR 4/1) dark gray, medium dense, wet odor.	, no 135-P3C-Z37A-11.0-11.
-12 - -	5	0.	wet	FILL		medium to coarse SAND, with coarse gravel, some cin and ash cinders, (7.5YR 5/1) gray, medium dense, we odor, no staining.	iders t, no
-13 -14 							135-P3C-Z37A-13.0-13.
-15 		0.	moist	FILL		silty SAND, little fibers, (10YR 5/2) grayish brown, soft	135-P3C-Z37A-15.0-15.
\dashv		0.	dry	OL		moist, no odor, no staining.	135-P3C-737Δ-15 5-16
-16 - -17	5	0.	dry	PT	\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1	UNDorg SILT, 70% organic silt, 30% organic fibers, (1 5/1) gray, low plasticity, soft, dry, slight organic odor, n staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic fibe	o /rs,
	Š	0.	dry	OL		20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, o strong organic odor, no staining. Soils consistent with UNDorg SILT, 80% organic silt, 20% organic fibers, (1	MM/ 0YR
-19 -		0.	moist	SM		5/2) grayish brown, dry, slight organic odor, no staining Soils consistent with UNDorg. UNDno SILT, (10YR 5/1) gray, low plasticity, soft, mois odor, no staining. Soils consistent with UNDno.	/
2							
	4) 0 -11			-ht-'- ht		ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present	



Boring ID: 135-SI-AA36A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60322149Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611121.53Date Started Drilling:8/28/2015 8:00:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682332.2Date Finished Drilling:8/28/2015 8:01:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10

epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_ -1				CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).	
-2	5	0.0	dry	FILL		CINDERS, some ash, little brick fragments,coal slag, coal fragments(0.3' of brown sand at bottom), loose,dry,no odor,iron oxide staining.	135-SI-AA36A-1.5-2.0
-5— -6— -7— -8— -9—	5	0.0	moist	FILL		ASH, with cinders,some fine sand, little fine gravel,wood fragments,fill material, (7.5YR 3/1) very dark gray,loose,moist,no odor,no staining.	135-SI-AA36A-9.5-10.0
10— - 11— -		0.0	moist to wet	FILL		ASH,with cinders,some fine gravel,fine to medium sand,(7.5YR 2.5/1) black,moist to wet,no odor,no staining. DTW @ 10.0	
-12 -13 -14	3		wet	FILL NR		SILT,with fine sand,trace fibers,(2.5YR 5/1) reddish gray,soft,wet,no odor,no staining. NO RECOVERY.	
_ 15							
- 16 - -		2.1	moist moist	FILL PT	\(\frac{\fir}}}}}}{\frac	SILT, and fine sand,trace fibers,medium gravel,(2.5YR 5/1) reddish gray,soft,moist, no odor,no staining. PEAT (degraded vegetated material),(70% organic fibers, 30% organic silt),(7.5YR 3/2) dark brown,stiff,moist,moderate organic odor,no staining.	
-17 -18 -19 -20	5	0.8	moist	OL		Soils consistent with MM. UNDorg SILT,(90% organic fibers, 10% organic silt),(10YR 4/2) dark grayish brown,soft,moist,slight organic odor,no staining. Soils consistent with UNDorg.	



Boring ID: 135-W41A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610948
Date Started Drilling: 9/10/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682253.3
Date Finished Drilling: 9/10/2015 1:20:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 12.5
Physical Location: Former Narula Property - Bld 51		

epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1				CONCRETE		CONCRETE, (advanced via starbit, 0.8' void space).	
-2	3	1.6	moist	FILL		CINDERS,and ash,little wood fragments,coal fragments,trace brick fragments,(7.5YR 2.5/2) very dark brown,moist,no odor,iron oxide staining.	135-W41A-1.3-1.8 135-W41A-2.5-3.0
-3				NR		NO RECOVERY.	
-4 -5 -6	4	1.6	moist	FILL		CINDERS,and ash,little wood fragments,coal fragments,trace brick fragments,(7.5YR 2.5/1) black,moist,no odor,iron oxide staining.	135-W41A-4.5-5.0
7-							135-W41A-6.5-7.0
9	3	3348	moist	FILL		CINDERS,and ash,little wood fragments,coal fragments(petroleum impacts @8.5-8.8), (7.5YR 2.5/1) black,loose,moist,strong petroleum odor,hydrocarbon staining.	135-W41A-8.5-9.0
11-				NR		NO RECOVERY.	135-W41A-10.5-11.0
12 - 13	4	>9999	wet	FILL		fine SAND,with cinders,some wood fragments,fine to medium gravel,(10YR 3/2) very dark grayish brown,wet,strong hydrocarbon odor, hydrocarbon staining.	135-W41A-12.5-13.0
14 - 15 -	7	16.4	moist	FILL		SILT,some fine sand,fine to coarse gravel,little wood fragments,(10YR 2/2) very dark brown,moist,no staining,slight odor,DTW @12.5'.	135-W41A-14.5-15.0
-16 -17	2	2.1	wet moist	FILL PT		SILT,trace fine gravel,trace organic fibers,(10YR 3/3) dark brown,wet,slight organic odor,no staining. PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),medium dense,moist,moderate organic odor,no staining. Soils consistent with MM.	135-W41A-15.8-16.3 135-W41A-16.3-16.8
18 — 19 —	2			NR		NO RECOVERY.	
20							



Boring ID: 135-X42A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:610962.6Date Started Drilling:9/9/2015 8:30:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682212.8Date Finished Drilling:9/9/2015 9:50:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10.0Physical Location:Former Narula Property - Bld 51

	ΛΛ			Log	Surface Cover and Thickness:	Sample ID
	0.0		CONCRETE	COP COP CO	CONCRETE, (0.8' concrete core recovered, 0.8' of void space).	
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-1.6-2.1 135-X42A-2.5-3.0
			NR		NO RECOVERY.	
3	0.0	moist	FILL		CINDERS,with ash,some coal fragments,trace wood fragments,trace brick fragments,(5Y 4/1) dark gray,moist,no odor,iron oxide staining.	135-X42A-4.5-5.0
			NR		NO RECOVERY.	135-X42A-6.5-7.0
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
	0.0		<u></u>			135-X42A-10.5-11.0
3	0.0	wet	FILL		tine 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
			NR		NO RECOVERY.	135-X42A-14.5-15.0
	0.0	wet	FILL		SILT, and fine sands, some coarse gravel, trace organic	135-X42A-16.3-16.8
4	0.0	moist	PT		odor,no staining. 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.	135-X42A-16.8-17.3
				<u> </u>		
	3	3 0.0 4 0.0 3 0.0 0.0	3	0.0 moist FILL	3 O.0 moist FILL NR O.0 slightly moist FILL NR O.0 wet FILL NR O.0 wet FILL O.0 moist PT O.0 wet VELL O.0	0.0 moist FILL CINDERS,with ash,some coal fragments, trace wood fragments, trace brick fragments, (5Y 4/1) dark gray, moist, no odor, iron oxide staining.

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.



Boring ID: 135-Y35A

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Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611081.45Date Started Drilling:8/26/2015 8:30:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682385.99Date Finished Drilling:8/26/2015 9:55:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10.0Physical Location:Former Narula Property - Bld 65

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
_ _1				CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).	
-2 -	4	0.0	dry	FILL		CINDERS,some ash,little fine to medium sand, fine gravel,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide staining.	135-Y35A-1.5-2.0
-4				NR		NO RECOVERY.	135-Y35A-3.0-3.5
_				INIX		NO RECOVER 1.	
-5 - -6 -		0.0	moist	FILL		ASH,and fine to medium sand,some medium gravel,little cinders,trace fibers,fill material, (7.5YR 4/1) dark gray,moist,no odor,no staining.	135-Y35A-5.0-5.5
-7 -8 -9	4.5	0.0	moist	FILL		fine to medium SAND,with silt,little cinders,fine gravel,(7.5YR 4/2) brown, loose,moist no odor,no staining.	135-Y35A-7.0-7.5
_				NR		NO RECOVERY.	135-Y35A-9.0-9.5
-10 -		0.0	wet	FILL		fine to medium SAND,with silt,(brown silt lens @ 10.0-10.2) some fine to medium gravel,little cinders,little	
-11 -12 -13	3.5					ash,fill material,(7.5YR 3/1) very dark gray,loose,wet,no odor,no staining. DTW @ 10.0'	135-Y35A-11.0-11.5
_ -14	-			NR		NO RECOVERY.	130-130A-13.U-13.S
_ -15							
-		103.2	moist	FILL FILL		SILT,and fine to medium sand, little fine to medium gravel,trace fibers,(7.5YR 4/1) dark gray,moist,moderate	135-Y35A-15.0-15.5
16		0.0	wet	FILL		\solvent odor,no staining. fine to coarse SAND, and fine to medium gravel, some	135-Y35A-15.7-16.2 135-Y35A-16.2-16.7
_ _17	5	1.7	moist	PT	1, 11, 11, 11	cinders, little ash, fill material, (7.5YR 3/1) very dark gray, loose, wet no odor no staining. fine to coarse SAND, and mile to medium gravel	133-133A-10.2-10.7
-18					<u> </u>	(grades coarser with depth), trace cinders, ash,(7.5YR 3/1) very dark gray,loose,wet, no odor, no staining.	
_ -19					<u> </u>	PEAT (degraded vegetated material), (70% organic silt,30% organic fibers), (10YR 4/2) dark grayish brown,	
_					71/ 71/	low plasticity soft, moist moderate organic odor no staining. Soils consistent with MM.	
-20							



Boring ID: 135-Y36A

Page: 1

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

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611067.9

Date Started Drilling: 8/28/2015 11:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682359.2

Date Finished Drilling: 8/28/2015 12:50:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: M.Irving Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: Former Narula Property - Bld 65

epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1		0.0		CONCRETE		CONCRETE, (advanced via starbit, .5' void space).	
2	4	0.0	dry	FILL		CINDERS,and ash,little coal fragments,weathered concrete,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide staining.	135-Y36A-1.5-2.0
4—				NR		NO RECOVERY.	135-Y36A-3.5-4.0
5— 6— 7—		0.0	moist	FILL		ASH,some cinders,little fill material,glass and wood fragments, (7.5YR 5/1) gray,moist,no odor,no staining.	135-Y36A-5.5-6.0
8— 9—	5						135-Y36A-7.5-8.0
10-		0.0		FILL		ASH, with cinders,little fine to medium gravel and fill material,(7.5YR 2.5/1) black,loose,slight solvent odor,black staining.	135-Y36A-9.5-10.0
12-	4						135-Y36A-11.5-12.0
13 <u> </u>		0.0	moist	FILL		SILT, and fine sand, trace fibers, medium gravel, (2.5YR 5/1) reddish gray, soft, moist,no odor,no staining.	135-Y36A-13.5-14.0
15				NR		NO RECOVERY.	
-		35.3	moist	FILL		SILT,some fine sand,little fibers,(10YR 4/1) dark gray,soft,moist,moderate solvent odor,no staining.	135-Y36A-15.5-16.0
16— — 17——	3	1.2	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers),(10YR 4/2) dark grayish brown,low plasticity soft, moist,moderate organic odor,no staining. Soils consistent with UNDorg.	135-Y36A-16.0-16.5
18 -		0.0		NR		NO RECOVERY.	
19—							
						//UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any in	



Boring ID: 135-Y37A

Page: 1

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

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611054.5

Date Started Drilling: 8/27/2015 9:15:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682332.4

Date Finished Drilling: 8/27/2015 10:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: M.Irving Project Manager: Scott Mikaelian Depth to Water: 10.0

epth	D	חח	Maistre		0		0
ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				CONCRETE	P 4 4 P	CONCRETE, (advnaced via starbit, .5' void space).	
-1-							
-2	5	0.0	moist	FILL		fine to medium SAND, some cinders, trace slag, crushed concrete, (2.5YR 3/3) dark reddish brown, loose, moist, no odor, no staining, (chromium leachate staining @ 1.5-1.8)	135-Y37A-1.5-2.0
-3							
-4		0.0	dry	FILL		CINDERS, some ash,little coal fragments,wood fragments,trace brick fragments (brown sand lens @ 3.8-4.0),(7.5YR 2.5/1) black, loose,dry,no odor,iron oxide staining.	135-Y37A-3.5-4.0
-5-		0.0	slightly	FILL		ASH,some cinders,coal fragments,(7.5YR 5/1)	
-6 -7			moist			gray,loose,slightly moist,no odor,iron oxide staining.	135-Y37A-5.5-6.0
-8-	4						135-Y37A-7.5-8.0
		0.0	moist	FILL		CINDERS, and fine to medium sand, some fine	135-Y37A-8.5-9.0
-9				NR	****	gravel,little ash,wood fragments,fibers,(7.5YR 4/1) dark gray,loose,moist,no odor,no staining. NO RECOVERY.	
11-		0.0	wet	FILL		CINDERS, and fine to medium sand, some fine to medium gravel, little ash, wood fragments, trace ceramics, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining, DTW @ 10.0.	135-Y37A-10.0-10.5
12— - 13—	5						135-Y37A-12.0-12.5
14		0.0	moist	FILL		fine to medium SAND,little fill material, (7.5YR 3/2) dark brown,loose,moist,no odor,no staining.	135-Y37A-14.0-14.5
15		0.0	moist	FILL		fine SAND,and silt,little fine gravel,(2.5YR 5/1) reddish	
40						gray,loose,moist,no odor,no staining.	135-Y37A-15.5-16.0
-16 - -17 -	3	1.3	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers),(7.5YR 3/3) dark brown,soft, moist,moderate organic odor,no staining. Soils consistent with UNDorg.	135-Y37A-16.0-16.5
-18				NR		NO RECOVERY.	
19—							
20							



Boring ID: 135-Y39A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611027.43Date Started Drilling:8/25/2015 9:50:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682278.84Date Finished Drilling:8/25/2015 12:15:00 PMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:11.0Physical Location:Former Narula Property - Bld 55

epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1		0.0		CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).	
2— - 3—	2.5	0.0	dry	FILL		CINDERS,some fine to medium sand,litle fine gravel,trace coal fragments,(5YR 4/4) reddish brown,loose,dry,iron oxide staining.	135-Y39A-1.5-2.0
4-				NR		NO RECOVERY.	135-Y39A-3.5-4.0
5— 6—		0.0	moist	FILL		ASH, and cinders, some wood fragments, fine sand, little silt, trace coal fragments, (10YR 5/1) gray, moist, no odor, no staining.	135-Y39A-5.5-6.0
7— 8—	5	0.0	moist	FILL		ASH,some fine to medium sand(red fine sand lens @7.0-7.3) little wood fragments,fine to medium gravel,trace fibers,(7.5YR 3/1) very dark gray,loose,moist,no odor,no staining.	135-Y39A-7.5-8.0
9—				NR		NO RECOVERY.	135-Y39A-8.5-9.0
10-		0.0		-	XXXXX	OH T	
- 1	_	0.0	wet	FILL		SILT,some fine to medium sand,little wood fragments,fine to medium gravel,trace ash(@10.0-10.3),(7.5YR 3/1) very dark gray,soft,wet,no odor,no staining, DTW @ 11.0.	135-Y39A-10.5-11.0
	5						135-Y39A-12.5-13.0
15		46.5	moist	FILL		SILT,and fine to medium sand,little fine to medium	135-Y39A-14.5-15.0
		40.5	moist	FILL		gravel, slight hydrocarbon odor @ 15.0-15.3, (2.5YR 5/1) reddish gray,soft, moist,no staining.	135-Y39A-15.5-16.0
16— — 17— —	5	1.3	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers),(less fibourus with depth), low plasticity stiff to soft, moist,slight organic odor,no staining. Soils consistent with UNDorg.	135-Y39A-16.0-16.5
18 -							
20							



Boring ID: 135-Y40A

Page: 1

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

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611014.8

Date Started Drilling: 9/11/2015 8:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682251.1

Date Finished Drilling: 9/11/2015 9:20:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: LM Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: Former Narula Property - Bld 51

Depth lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1		0.0		CONCRETE		CONCRETE, (advanced via starbit 1.0' of void space.)	
-2-	3	0.0	dry	FILL		ASH,some cinders,little coal fragments,(10YR 5/2) grayish brown,dry,no odor,iron oxide staining.	135-Y40A-1.5-2.0 135-Y40A-2.5-3.0
-3				NR		NO RECOVERY.	100-140/4-2.0-0.0
-4 -5 		0.0	dry	FILL		ASH,some cinders,little coal fragments,(10YR 5/2) grayish brown,dry,no odor,iron oxide staining.	135-Y40A-4.5-5.0
-6	3	0.0	moist	FILL		CINDERS,little ash,trace coarse gravel,trace coal slag,(5Y 2.5/1) black,moist,iron oxide staining.	135-Y40A-6.5-7.0
				NR		NO RECOVERY.	
8		44.7	dry	FILL		ASH,some cinders,little coal fragments,(10YR 4/2) dark grayish brown,dry,slight petroleum odor,hydrocarbon staining.	135-Y40A-8.5-9.0
10-	4	1.2	moist	FILL		fine to medium SAND,some soot, (10YR 2/2) very dark brown,moist,no odor,no staining.	
11—		0.0	moist	FILL		CINDERS,some ash,little fine to medium gravel,little concrete,(10YR 5/1) gray,moist,no odor,iron oxide staining.	135-Y40A-10.5-11.0
12 <u> </u>		0.0	moist	FILL		fine SAND, little ash, trace silt, (10YR 2/2) very dark brown,moist,no odor,no staining.	135-Y40A-12.5-13.0
14— - 15—	4	0.0	moist	FILL		SILT, little fine sands, little organics, (10YR 2/2) very dark brown,moist, no odor,trace black staining.	135-Y40A-14.5-15.0
16							135-Y40A-15.5-16.0
17—	4	0.0	moist	OL		UNDorg(90% organic silts 10% organic fibers), stiff, moist slight organic odor, no staining. Soils consistent with UNDorg.	135-Y40A-16.0-16.5
19							
20					<u></u>		



Project Number: 60314351

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-Y41A

Page: 1

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

Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611000.4 **Date Started Drilling:** 9/10/2015 12:00:00 PM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682225.3

Date Finished Drilling: 9/10/2015 1:00:00 PM Boring Total Depth: 20 ft Core Size: 2.0 in

Logged By: LM Depth to Water: NA Project Manager: Scott Mikaelian

epth ange	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness	Sample
bgs)	(ft/ft)	(ppm)	Content	0303	Log	Surface Cover and Thickness:	ID
1-				CONCRETE	A A A A A A A A A A A A A A A A A A A	CONCRETE, (advanced via starbit 0.8' void space.).	
2-	3.7	0.0	dry	FILL		ASH, with cinders, little coal fragments, little brick fragments, (10YR 2/2) very dark brown, dry no odor no staining.	135-Y41A-1.3-1.8
3-		0.0	dry	FILL		BRICK, with weathered brick.	
4				NR		NO RECOVERY.	
5— 6—	3	moist brick fragments., (2.5		ASH, with interbeded cinders, little coal fragments, little brick fragments., (2.5Y 3/1) very dark gray, slightly moist, slight hydorcarbon odor, iron oxide and hydrocarbon staining.	135-Y41A-4.5-5.0 135-Y41A-6.5-7.0		
7—				NR		NO RECOVERY.	139-141A-0.5-7.U
8-		0.0	moist	FILL		ASH, and fine to medium sands, some cinders, (10YR	
o			HIOISI			3/1) very dark gray,moist,no odor,no staining.	135-Y41A-8.5-9.0
10—	4	0.0	moist	FILL		fine to medium SAND, little ash, (10YR 2/1) black, moist, no odor, no staining.	
1 							135-Y41A-10.5-11.0
- 3		0.0	wet	et FILL fine to medium SAND,little ash,(10YR 2/1) black, wet, no odor, no staining.			135-Y41A-12.5-13.0
14— - 15—	4	0.0	wet	FILL		SILT,some fine sand,trace ash,(10YR 3/3) dark brown,wet,no odor,no staining.	135-Y41A-14.5-15.0
							135-Y41A-15.5-16.0
16 — - 17—		0.0	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR 5/2) grayish brown,soft, moist,no odor,no staining. Soils consistent with UNDorg.	135-Y41A-16.0-16.5
18 —	4						
19—							
20							



Boring ID: 135-Y42A

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	_
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610991.6
Date Started Drilling: 9/9/2015 8:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682207
Date Finished Drilling: 9/9/2015 11:50:00 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	

fragments,trace wood loose, slightly moist, no
fragments,trace wood 135-Y42A-1.3-1.
loose, slightly moist, no
fragments,(brick @ bose,slightly moist,no 135-Y42A-4.5-5.
135-Y42A-6.5-7.
el,some cinders,little wood ose,moist to wet,no odor,no
135-Y42A-10.5-1
ay,loose,moist,no odor,no 135-Y42A-12.5-13 anics,(brown silt with ne gravel,(2.5YR 5/1) or,no staining.
135-Y42A-14.5-1
anics,trace fine gravel, noist,no odor,no staining. It, 10% organic fibers), soft,moist,slight organic
ent with UNDorg. aterial), (80% organic R 3/3) dark brown, dor,no staining. Soils



Boring ID: 135-Z33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611135.3 Date Started Drilling: 9/3/2015 10:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682426 Date Finished Drilling: 9/3/2015 11:20:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: MI Depth to Water: 10.0 Project Manager: Scott Mikaelian

epth	_	DID					0 1	
ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
_ -1				CONCRETE	T P C P C P C P C P C P C P C P C P C P	CONCRETE, (advanced via starbit, 0.5' void space).		
-2 -3 -	5	0.0	dry	FILL		CINDERS, and ash,coal fragment,little wood fragments,fine gravel,(10YR 3/4) dark yellowish brown,loose,dry,no odor,iron oxide staining.	135-Z33A-1.5-2.0	
-4 - -5		0.0	maint	FILL		CIL T some fine cond come mothling (cob lone @ 5.0.5.2)		
6		0.0	moist	FILL		SILT,some fine sand,some mottling,(ash lens @ 5.0-5.2), (10YR 5/4) yellowish brown,medium stiff,moist,no odor,no staining.	135-Z33A-5.5-6.0	
-7—	1.0 - - 5		slightly moist	FILL		CINDERS, and fine sand, little coal slag, fine to medium gravel, (7.5YR 2.5/1) black, loose, slightly moist, no odor, no staining.		
-8	-	0.0	moist	FILL		CINDERS,some fine to medium gravel,little ash,(7.5YR 4/1) dark gray, loose,moist,no odor,no staining.	135-Z33A-7.5-8.0	
-9						4, 1) dank gray, 10030, moist, no odor, no staining.	135-Z33A-9.5-10.0	
10 <u> </u>			wet	FILL		CINDERS,some fine to medium gravel,ash,trace wood fragments,(7.5YR 4/1) dark gray,wet,no odor,no staining, DTW @ 10.0'.		
12— - 13—	4	4						135-Z33A-11.5-12.0
14—				NR		NO RECOVERY.	135-Z33A-13.5-14.0	
15 <u> </u>		0.0	moist	FILL		fine SAND,little silt,(black silt lens @15.0-15.2) mottling,trace fine to medium gravel, fibers,(10YR 5/4)	135-Z33A-15.4-15.9	
16 <u> </u>	5	1.8	moist	OL		yellowish brown,dense,moist,no odor,no staining. UNDorg SILT, (90% organic fibers, 10% organic silt, less fibrous with depth), (7.5YR 3/2) dark brown, moist slight organic odor no staining. Soils consistent with UNDorg.	135-Z33A-15.9-16.4	
18 — — 19 —								
- -20								



Boring ID: 135-Z34A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611121.8Date Started Drilling:9/3/2015 7:30:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682399.2Date Finished Drilling:9/3/2015 9:05:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:Former Narula Property - Bld 71

pth nge gs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
ys)		0.0		001100555	2 K. A	201107575	
_		0.0		CONCRETE	4 4 4 4	CONCRETE, (advanced via starbit.)	
ı —					A A A A		
_					P P P P		
2—					P 6 4 P		
-	5				2 4 4 4		
3—					7 4 4 7		
-		0,0	slightly	FILL		CINDERS,some ash,fine sand,little coal	135-Z34A-3.5-4.0
1—			moisť			fragments,(7.5YR 2.5/1) black,loose,slightly moist,no	
						odor,iron oxide staining.	
5—		0.0	slightly	FILL		CINDERS,some ash,fine sand,little coal fragments,wood	135-Z34A-5.0-5.5
\Box			moist			fragments fine gravel,cinders(brown silt lens @ 6.7-7.0),(10YR 3/6) dark yellowish brown,loose,slightly	
5						moist,no odor, iron oxide staining.	
,							
	5	0.0	moist	FILL		CINDERS, some ash, little fine sand, fine to medium	135-Z34A-7.0-7.5
3—						gravel,trace wood fragments,(7.5YR 2.5/1) black, loose,moist,no odor,no staining.	
						, , , , , ,	
,_							135-Z34A-9.0-9.5
-							133-23474-9.0-9.3
0-		0.0	moist	FILL		CINDERS, and ash,little fine sand,fine to medium	
-		0.0	moist	FILL		gravel,(7.5YR 2.5/1) black,loose,moist,no odor,no	
1						staining.	135-Z34A-11.0-11.5
-							
2—							
	4						
3		0.0	moist	FILL		SILT,trace fibers,(7.5YR 3/2) dark brown,low plasticity	135-Z34A-13.0-13.5
, –						soft, moist,no odor,slight black staining.	
4—				NR		NO RECOVERY.	
5							125 7244 15 0 15 5
-		0.0	moist	FILL		fine SAND,some silt,mottling,(10YR 5/4) yellowish brown,dense,moist,no odor,no staining.	135-Z34A-15.0-15.5 135-Z34A-15.5-16.0
6		0.0	moint	01			135-Z34A-16.0-16.5
-		0.0	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers, less fibrous with depth) (10YR 4/2) dark grayish brown,low	100 2047 (10.0 10.0
7—	_					plasticity soft, moist, no odor. Soils consistent with	
\dashv	5					UNDorg.	
8-							
\Box							
9—							
$^{\prime}$							
0							

Boring ID: 135-Z36A

	Number:	PPG G8	1730		I	Drilling Method: Direct Push	Coordinates (N ISD	PNAD83) x: 611094.8	
				10:07:00 AM		Drilling Method: Direct Push Rig Type:		NAD83) x: 611094.8 NAD83) y: 682345.7	
		illing:	8/26/2015	5 11:00:00 A		Core Size: 2.0 in	Boring Total Depth:	: 20 π	
	By: MI					Project Manager: Scott Mikaelian	Depth to Water:	44.0.5(NIA) (D00	
nysica	al Locatio	n: Nai	ruia		1	1	Surface Elevation:	14.2 ft NAVD88	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickr	ness:	Sample ID	
-1				CONCRETE		CONCRETE,(advanced via starbit,.5' v	oid space).		
-2 - -3	1.5	0.0	dry	FILL		CINDERS, with fine to medium sand, little medium gravel, trace coal fragments, wo fragments, (7.5YR 2.5/1) black, loose, droxide staining.	ood	135-Z36A-1.5-2.0 135-Z36A-3.0-3.5	
-4				NR		NO RECOVERY.			
-5 -6		0.0	moist	FILL		fine to medium sand, little fine to medium	sH, with cinders,(iron oxide staining @5.0-5.7'),some e to medium sand,little fine to medium gravel,fill aterial,glass fragments,wood fragments,(7.5YR 4/1) rk gray,moist.		
-7 -8 -	5							135-Z36A-7.0-7.5	
-10 -11 -12	3.5	0.0	moist	FILL		ASH, with cinders,some fine to medium medium gravel,fill material,glass fragmedark gray,moist,no odor,no staining.		135-Z36A-9.0-9.5	
- 13 - - 14 -				NR		NO RECOVERY.		135-Z36A-13.0-13.5 	
15		0.0	moist	FILL		SILT,trace fibers,fill material, (7.5YR 3/plasticity soft,moist,no odor,no staining	2) dark brown,low	135-Z36A-15.0-15.5	
16-		0.0	wet	FILL		fine to medium SAND, some silt, trace fi	ne to medium	135-Z36A-15.7-16.2	
17— 18— 19—	5	2.1	moist	PT		gravel,(2.5YR 6/1) reddish gray,loose,v staining. PEAT (degraded vegetated material),(7 fibers, 30% organic silt,(7.5YR 3/2) dar moderate organic odor,no staining. Soi MM.	vet,no odor,no 70% organic k brown,stiff,moist	135-Z36A-16.2-16.7	
20					<u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>				
	ow surface g		COPR - chro	omite ore proce	essing res	idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native deposi		ufactured gas plant	



Boring ID: 135-Z38A

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Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611067.8Date Started Drilling:8/24/2015 11:05:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682292.1Date Finished Drilling:8/24/2015 12:35:00 PMCore Size:2.0 inBoring Total Depth:15 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10.0

Depth Range	Recovery	PID	Moisture	USCS	Graphic	Surface Cover and Thickness:	Sample
t bgs)	(ft/ft)	(ppm)			Log		ID
_ -1-		0.0		CONCRETE	O P O P O P O P O P O P O P O P O P O P	CONCRETE, (advanced via starbit, 0.5' void space).	
	3.5	0.0	dry	FILL		ASH,and cinders,trace fill material,wood fragments,(7.5YR 2.5/1) black,loose,dry,no odor,no staining.	135-Z38A-1.5-2.0
-3		0.0	dry	FILL		fine to medium SAND,little medium gravel,(5YR 4/3) reddish brown,loose,dry,no odor,no staining.	135-Z38A-3.0-3.5
-4- <u>-</u>		0.0		NR		NO RECOVERY.	
-5 -6		0.0	moist	FILL		ASH, with cinders, some fill material, little fine to medium gravel, silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-Z38A-5.0-5.5
-7 <i></i>	4						135-Z38A-7.0-7.5
-8 -							135-Z38A-8.0-8.5
-9 -		0.0		NR		NO RECOVERY.	
-10 - -11		0.0	wet	FILL		ASH, and cinders, some fill material, little fine to medium gravel, silt, wet, no odor, no staining, DTW @ 10.0'bgs.	135-Z38A-10.0-10.5
_ _12		0.0		PT		DEAT (de made des materials (000) amaria	135-Z38A-11.3-11.8 135-Z38A-11.8-12.3
-13 -13 -14 -15	5	0.0	moist	F1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PEAT (degraded vegetated material),(90% organic fibers, 10% organic silt),(7.5YR 3/2) dark brown,low plasticity soft,moist,slight organic odor,no staining. Soils consistent with MM.	



PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/8/15 15:30

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-Z39A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611054.2 Date Started Drilling: 8/24/2015 12:45:00 PM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682265.4 Date Finished Drilling: 8/24/2015 2:30:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged	By: MI			<u> </u>		Project Manager: Scott Mikaelian	Depth to Water: NA	
Physica	al Location	1: For	mer Narul	a Property - E	3ld 55		(Note	bgs = below ground surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thickne		Sample ID
		0.0		CONCRETE	0 4 0	CONCRETE, (advanced via starbit, 0.5'	void space).	
1								
2	5	0.0	dry	FILL		CINDERS,some ash,trace brick fragmer fragments,weathered concrete,(10YR 3/brown,loose, dry,no odor,iron oxide stair	6) dark yellowish	135-Z39A-1.5-2.0 135-Z39A-2.0-2.5
3 4 		0.0		CONCRETE	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CONCRETE.	y.	
——5— — —		0.0	moist	FILL		fine to medium SAND,trace ash (7.5YR brown,orange mottling,dense,moist,no o		
6 7 8	4							135-Z39A-6.0-6.5 135-Z39A-8.0-6.5
 9		0.0						100 2007 010 010
		0.0		NR		NO RECOVERY.		
—10— —11—		0.0	wet	FILL		ASH,some cinders,little fine sand,silt,fill fibers trace,(7.5YR 4/1) dark gray,loose, staining.	material,trace wet,no odor,no	135-Z39A-10.0-10.5
 12 13	5	0.0	moist	FILL		SILT, some fine to medium sand(brown 11.0-11.5, trace fibers) little fine gravel, reddish brown,loose, moist to wet,no od	(5YR 3/4) dark	135-Z39A-12.0-12.5
—14— – –								135-Z39A-14.0-14.5
15		0.0	wet	FILL		SILT, and fine to medium sand,little fine	gravel,(5YR 4/3)	135-Z39A-15.0-15.5
16 17	5	0.9	slightly moist moist	PT OL	\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1	reddish brown,soft,wet,no odor,no staini PEAT (degraded vegetated material), (8 fibers, 20% organic silt), (7.5YR 3/2) dar stiff,slightly moist,moderate organic odo Soils consistent with MM. UNDorg SILT (90% organic silt, 10% org	0% organic rk brown, r,no staining.	135-Z39A-15.5-16.0
—18 — — —19 —						fibrous with depth, (10YR 4/2) dark gray plasticity medium soft, moist slight orgar staining. Soils consistent with UNDorg.	ish brown, low	
20								
Commer	nts: 1) 3 atte	mpts we	ere made to	obtain best reco	very 2) I	MM/UND confirmed to be 1 ft thick 3) No CCPW (COP	R or GGM) present in any i	nterval of this boring.



Boring ID: 135-Z40A

Page: 1

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

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611036.1

Date Started Drilling: 8/25/2015 8:01:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682244.6

Date Finished Drilling: 8/25/2015 9:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: MI Project Manager: Scott Mikaelian Depth to Water: 10.0

Physical Location: Former Narula Property - Bld 51

Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
-1-		0.0		CONCRETE		CONCRETE, (advanced via starbit, 0.5' of void space).	
-2-	3.5	0.0	dry	FILL		CINDERS,some ash,little coal slag,wood fragments,(7.5YR 2.5/1) black,loose, dry,no odor,no staining.	135-Z40A-1.5-2.0
-3 -4				NR		NO RECOVERY.	135-Z40A-3.0-3.5
-5 - -6		0.0	moist	FILL		SILT, and fine sand, little ash, cinders, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining.	135-Z40A-5.0-5.5
-7— -8— -9—	5	84.8	moist	FILL		SILT, and fine sand,trace fine gravel ash cinders,hydrocarbon impacts @ 7.3-7.8,(10YR 4/2) dark grayish brown,soft,moist moderate petroleum odor,sheen on bottom	135-Z40A-7.0-7.5 135-Z40A-9.0-9.5
-10 - -11		0.0	moist	FILL		ASH,some cinders,fine to medium gravel, fill material,loose,moist to wet,slight hydrocarbon odor,hydrocarbon staining, @ 10.5-11.0, DTW @ 10.0'.	135-Z40A-11.0-11.5
-12	4	0.0	wet	FILL		SILT,some fine to medium sand,trace fibers,(7.5YR 3/2) dark brown,soft,wet,no odor,no staining.	
-13		0.0	saturated	FILL		SILT, and fine to medium sand,(2.5YR 5/1) reddish gray,very soft,saturated,no odor,no staining.	135-Z40A-13.0-13.5 135-Z40A-13.5-14.0
-14		1.6	moist	PT	<u> </u>	PEAT, (80% organic fibers, 20% organic silt),(7.5YR 3/2) dark brown, soft to stiff, moist,slight organic odor,no staining. Soils consistent with MM.	135-Z40A-14.0-14.5
-15 - - -16 -		0.7	moist	OL		UNDorg SILT,(80% organic silt, 20% organic fibers) (less fibrous with depth), (7.5YR 3/2) dark brown,soft to stiff,moist,slight organic odor,no staining. Soils consistent with UNDorg.	
-17 - -18	5						
-19							
20							

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.



Boring ID: 135-Z41A

Project	Number:	6031	arfield Ave 4351			Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	
				8:25:00 AM		Rig Type: Geoprobe 7822DT	Coordinates (NJSPN	
		illing:	8/31/2013	5 10:00:00 AN		Core Size: 3.0 in Project Manager: Scott Mikaelian	Boring Total Depth: Depth to Water: 7.0	20 π
	d By: MI	n: For	rmor Narul	a Property - E			Depth to water. 7.0	
пузіс	ai Locatioi	1. 10	THE INALU	a r roperty - L	JIG DI (Sueet)	(Note	bgs = below ground surface)
Depth Range It bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	ness:	Sample ID
		0.0	dry	ASPHALT	XXXX	ASPHALT.		135-Z41-0.1-0.6
_		0.0	ury	FILL FILL		fine to medium SAND, and fine to med brick and asphalt fragments,(10YR 3/2	ium gravel,trace	
_1		0.0		FILL		brown,loose,dry,no odor,no staining.) very dark grayisii	
-2 - -3	4	0.0	moist	FILL		crushed CONCRETE. fine to medium SAND, and cinders,sor medium to coarse gravel,(7.5YR 2.5/1) black,loose,moist,no odor,iron oxide st		135-Z41-1.5-2.0 135-Z41-3.5-4.0
-4				NR		NO RECOVERY.		100 211 0.0 1.0
\dashv				INIX		NO NEGOVERT.		
-5-		0.0	moist	FILL		fine to medium SAND, and ash,little cir	nders,fill	
-6 -7						material,(7.5YR 2.5/1) black,loose,moi staining.	st,no odor,no	135-Z41-5.5-6.0
	5	4.8	moist	FILL		SILT, and fine sand, little gravel,large r @ 7.5-8.0,soft,moist to wet,no odor,slion DTW @ 7.0'.	rubber like material ght black staining,	135-Z41-7.5-8.0
0 _		0.0	moist	FILL	\ggg	SILT, and fine sand, little medium to co		
-9 						gravel,(7.5YR 4/2) brown,soft,moist,no	odor,no staining.	135-Z41-9.5-10.0
-10 11 12	E	0.0	moist	FILL		SILT, and fine sand, interbedded with r gravel, orange mottling, (5YR 4/3) reddis brown, soft, moist, no odor, no staining.		135-Z41-11.5-12.0
4.0	5				>>>			135-Z41-12.5-13.0
-13		1.8	slightly	PT	<u> </u>	TEAT (degraded vegetated material), (135-Z41-13.0-13.5
		0.9	moist	OL		fibers, 10% organic silt),(7.5YR 3/2) da moist,stiff,moderate organic odor,no st	irk brown,slightly	135-Z41-13.5-14.0
14			moist			\consistent with MM.	/	
-15		1.1		01		UNDorg SILT, (80% organic silt, 20% organic silt	organic fibers), pist slight organic	
_ _16		1.1	moist	OL		odor,no staining. Soils consistent with UNDorg SILT, (80% organic silt, 20% of fibers), (7.5YR 3/2) dark brown, soft to s	UNDorg. / brganic / stiff, moist slight	
,						organic odor,no staining. Soils consiste	ent with UNDorg.	
-17	5							
						-		
-18 								
_19 						7		
						+		
20								

A E C O M

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-V41AR

	732.564.32	200 office	telephone					Page: 1
	t Name: F					Drilling Company: SGS North America		
	t Number:			10.00.00.111		Drilling Method: Direct Push		NAD83) x: 610910.8
				10:00:00 AM		Rig Type:		NAD83) y: 682257.8
		illing:	11/4/2016	9:30:00 AM		Core Size:	Boring Total Depth:	15 ft
	d By: ES					Project Manager: Scott Mikaelian	Depth to Water:	
Physic	al Locatio	n: Act	ual - Smitl	n PDI	_	<u> </u>	Surface Elevation:	10.1 ft NAVD88
Depth Range (ft bgs)	/#/#\	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thick	ness:	Sample ID
1 	5	307	dry	FILL		fine to medium SAND, some ash, (7.5' brown, medium dense, dry, moderate f no staining.	/R 3/3) dark uel oil-like odor,	
3 			dry to wet	FILL		ASH, some fine to medium sand, (5Y 5 dry to wet, moderate fuel oil like-odor a at 4.0 feet.	5/1) gray, loose, nd staining, water	
5 6 7 8	. 5	58	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, slight fu and staining.		
 9 10		2.0	wet	FILL		fine to medium SAND, some ash, little reddish brown, medium dense, wet, no		ASM-V41AR-8.0-8.5 ASM-V41AR-10.0-10.5
11 12 13	4.5		wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odo	r, no staining.	ASM-V41AR-12.0-12.5 ASM-V41AR-13.0-13.5
 14 			dry	PT	<u> </u>	20% organic silt, (5YR 3/3) dark reddis slight organic odor, no staining. Soils c	h brown, stiff, dry,	ASM-V41AR-13.5-14.0
Notes:	low surface o	arodo.	COPP	NR		idue UNDno - non-organic undisturbed native de	posito MCD	ufactured gas plant
MM - me	eadow mat		GGM - gree	n grey mud		UNDorg - organic undisturbed native deposited this by a 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this by	ts CCPW - chr	omate chemical production waste

	ECO		tawav N.I.088	54				Boring	ID: EF-19	
	732.564.3200	office te	elephone		Duillin a d	3	000		Page: 1	
Project Name: PPG Soil RIWP Project Number: 6015-4801 Date Started Drilling: 4/19/2011 Date Finished Drilling: 4/19/2011					Drilling Company: SGS Drilling Method: Airknife/Geoprobe Rig Type: Airknife/Geoprobe Core Size: 2 in			Coordinates (NJSPNAD83) x: 611215.886 Coordinates (NJSPNAD83) y: 682371.915 Boring Total Depth: 25 ft		
Logged E	By: B. Da	niels,	M. Merdin		Project I	Manager: F	Robert Cataldo	Depth to Water: 5/23.5 ft		
riiysicai	Location.	_ Faci	TIC Avenue	; 				(Note bgs = below ground	d surface)	
Depth Range (ft bgs)	Recovery (ft/ft)		Moisture Content		USCS	Graphic Log	S	urface Cover and Thickness:	Sample Number	
1 -		0		2			Black Asphalt		EF-B19_0.	
2		0	dry	3 6	Fill		medium angular G	R 3/2) fine SAND, some Silt, little fine to ravel, trace Cobbles, medium dense, dry. No	EF-B19_2.	
3		0	dry	6	FIII			e SAND, GRAVEL and Fill Material (slag,	EF-B19_2.	
4		0					ash, cinders), very	loose, dry. No odor.	EF-B19_4.	
5		24.2								
6	-	98.6	wet	3	Fill		SAND, little fine an	dish Gray (5YR 4/2) SILT and fine to medium igular Gravel and Concrete, trace Coal, loose,	EF-B19_6.	
7	4.5				Fill		wet. Napthalene o No Recovery	dor.		
8	1.5						-			
9	-									
10	-	33.4			- :::				EF-B19_10	
11 _		1.7	wet	3	Fill		Same as above.		EF-B19_11	
12	1.1				Fill		No Recovery			
13	'.'									
14	-									
15		18.5	moint	3	Fill		Doddish Proup (2)	5YR 4/3) fine SAND, little very fine Sand and	EF-B19_15 EF-B19_15.	
16		143	moist	3	ΓIII		Silt, medium dense		LI -B 19_13.	
17	3.4	191	moist	7	PT	<u> </u>	Dark Reddish Brov	vn (5YR 3/2) PEAT, Organics, little Silty Clay,	EF-B19_17	
18	0.4					1/2 1/2 1/2	semi-cohesive, me	dium stiff, moist. Sulfur odor.	EF-B19_17.	
19	1				PT	<u> </u>	No Recovery			
20		3.5	moist	7	PT	\(\frac{1}{2} \) \(\fra	Same as above in	terbedded with Red-Brown Silty Sand.		
21		4	HIOIST	'		1, 11, 11,	Jame as above, in	terbedded with Ned-Brown Sing Sand.		
22	4.3	101	wet	8	SP		Gray (Gley1 3/0) vo	ery fine to fine SAND, trace Silt, medium	EF-B19_22	
23		113					dense, wet. No od	oi.		
24	1									
25					SP		No Recovery End of boring at 25	5 ft.		
26]						01 551111g at 20			
27	1									
28										
29	1									
30	1									
31]									
32										
33	1									
34	<u> </u>									
35										

AECOM

Boring ID: EF-77

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Project Name: PPG Soil RIWP Drilling Company: SGS
Project Number: 6015-4801 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611289.093
Date Started Drilling: 8/5/2011 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682499.735
Date Finished Drilling: 8/5/2011 Core Size: 2 in Boring Total Depth: 25 ft
Logged By: M. Merdinger Project Manager: Robert Cataldo Depth to Water: 6/22 ft

Date Finished Drilling: 8/5/2011					Core Siz			Boring Total Depth: 25 ft	
Logged By: M. Merdinger Prysical Location: Inside Site 133 Building.						Manager: R	obert Cataldo Depth to Water: 6/22 ft	Depth to Water: 6/22 ft	
Priysicai	Location:	IIISIU	e Sile 133	Dulluli	ıg.		(Note bgs = below ground s	urface)	
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Thickness:	Sample Numbe	
1 -		0	dry	1	Fill	PAAPA	Concrete Slab		
		0							
2	5		-1		E::	P 5 4 P 5	Ond Opposite Olah		
3		0	dry dry	3	Fill Fill		2nd Concrete Slab Brown (7.5YR 4/2) to Black SILT and FILL (brick, cinders, coal,	EF-B77_	
4		0					glass), trace Gravel, loose. No odor.	EF-B77_4	
5		0							
6		0	wet	6	Fill		Gray (10YR 5/1) ASH and CINDERS, loose, wet at 6.0'. No odor.	EF-B77_(
7							odor.		
	2		wet	6	Fill		No Recovery		
8									
9									
10		1.1						EF-B77_1	
11		0	wet	6	Fill		Same as above, petroleum odor.		
12									
13	2		wet	6	Fill		No Recovery		
_									
14		0 7							
15		2.7	wet	6	Fill		Same as above, petroleum odor.	EF-B77_1	
16		1							
17	_		moist	7	PT		Dark Reddish Brown (5YR 4/3) PEAT, Organics, medium dense. Sulfur odor.		
18	2		moist	7	PT	<u> </u>	No Recovery		
19						1, <u>11, 11, 1</u>			
		2.8				1/ 1// 1//		FF D77 (
20			moist	7	PT	71/2 11/2 V	Same as above, little Silty Clay.	EF-B77_2	
21		3.7				1, 11, 11,	,,,,,,, .		
22	2.5	0	4		OD	11, 11, 1	Once (Olar 4 0/0) and fire OAND trace Oil good in the Alexander	EF-B77_2	
23	2.5		wet	8 8	SP SP		Gray (Gley1 6/0) very fine SAND, trace Silt, medium dense. No odor.	-	
24							No Recovery		
25									
							End of boring at 25 ft.		
26									
27									
28									
29									
30									
31									
32									
J <u>_</u>									
		1	i	1					
33									

AECOM

Boring ID: EF-78

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611331.4604 Date Started Drilling: 8/12/2011 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682609.4402 Date Finished Drilling: 8/12/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5/23 ft Logged By: M. Merdinger JERSEY\GARFIELD AVENUE GROUP OF SITES\GARFIELD AVENUE GROUP OF SITES.GP. Physical Location: Inside Site 135 Building (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) dry 1 Fill Concrete Slab 0 EF-B78_1.5 2 Concrete and Black SILT, some Ash and Cinders, loose. No Fill moist 6 1.9 moist 6 Fill 3 No Recovery 4 0 5 EF-B78 5.0 6 Fill Brown (7.5YR 4/2) CINDERS and SILT, little wood, slag and wet 6 Fill metal, loose. No odor. wet No Recovery 0.5 8 9 0 10 EF-B78 10.0 6 Fill Black CINDERS and SILT, little wood, slag and metal, loose. wet 0 11 Slight tar odor. 12 wet 6 Fill No Recovery 1.3 STD US LAB.GDT - 9/21/11 12:05 - C:/DOCUMENTS AND SETTINGS/STANCHAKM/MY DOCUMENTS/MY EQUIS WORK/PPG 13 14 0 15 EF-B78 15.0 6 Fill Same as above. wet 10.1 EF-B78_16.0 16 Grayish Brown (10YR 5/2) Silty CLAY and PEAT, some to high moist 11/ 11/ Organics, medium dense. Sulfur odor. 17 PT 71 71 71 moist No Recovery 7 1.8 18 1/ 1/1/ 1/1/ 11/11/11/11 19 1, 11, 11, 1.3 20 11, 11, 1 moist 7 PT Dark Reddish Brown (5YR 4/3) PEAT, high Organics, trace Silty 41.7 21 Clay, medium dense. Sulfur odor. 11/ 11/ 65.8 22 11/ 11/ 1 3.3 11/ 11/ 23 SP Gray (Gley1 5/0) very fine SAND, loose. No odor. 8 wet 24 SP wet No Recovery 25 End of boring at 25 ft. 26 27 28 29 30 31 32 33 34 GINT Comments: No COPR/GGM identified at this location.