Remedial Action Report – Forrest Street Properties (AOC FSP-1A, AOC FSP-1B, AOC FSP-2A, and AOC FSP-2B) Soil Garfield Avenue Group PPG, Jersey City, New Jersey

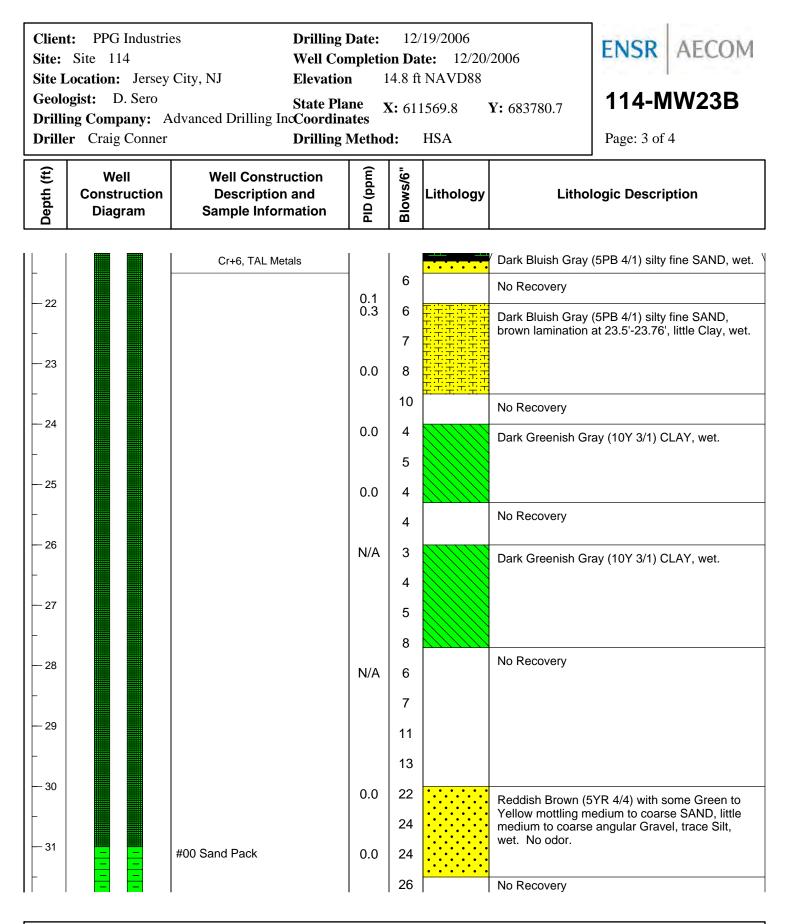
Appendix H

Boring Logs

Boring logs for the remaining sample locations in Forrest Street Properties (Block 21501, Lot 15) 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.

Site L Geolo Drilli	Site 114 cocation: Jersey gist: D. Sero	Well Con City, NJ Elevation State Pla Advanced Drilling IncCoordin	mpletion 1 n 1 nne 2 ates	on Da 14.8 fi X: 61	/19/2006 te: 12/20/ NAVD88 1569.8 HSA	/2006 Y: 683780.7	ENSR AECOM 114-MW23B Page: 1 of 4
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	(udd) Ga Lithology Lith			ogic Description
		Concrete Steel PVC Bent-cement grout 114-MW23BA (2-2.5) Cr+6, TAL Metals	0.0	15 8 9 6 5		medium Sand and	wn (5YR 3/3) silty FILL, d debris (wood, glass), dry. wn (2.5YR 2.5/4) SILT, trace gravel, dry.
- 4 5 -			0.0 0.0 0.0	3 4 3 1 - 2		Brown (7.5YR 5/8 Gravel, wet. No c No Recovery) clayey fine SAND, trace fine odor.
6 7 8		114-MW23BB (6-7) Cr+6, TAL Metals 114-MW23BBD (6-7) Cr+6, TAL Metals	0.0	1 1 2 1		Reddish Brown (5 odor.) clayey fine SAND layers and YR 3/4) COPR (75%) wet. No GAND, trace medium to fine odor.
			0.0	2 2 5 7		Fall in from above Dark Reddish Bro SAND, trace Grav No Recovery	wn (5YR 3/4) clayey fine
		114-MW23BC (10-10.5) Cr+6, TAL Metals	0.0	6	$\begin{array}{c} \times & \times & \times \\ & \times & \times \\ \times & \times & \times \end{array}$		n (5YR 3/4) clayey SAND, and medium angular Gravel,

Site L Geolo Drillin	Site 114 cocation: Jersey ogist: D. Sero	Well Con City, NJ Elevation State Pla Advanced Drilling IncCoordin	mpletion 1 n 1 nne 2 ates	on Da 4.88 K: 61	ft NAVD88		ENSR AECOM 114-MW23B Page: 2 of 4
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Litho	logic Description
- 11				3 2 4	× × × ×	wet. No odor. No Recovery	
- 13			0.0	6 8 6	× × × × × × × × × × × × × × × × × × ×	trace fine Gravel a wet. No odor.	vn (5YR 3/4) clayey SAND, and medium angular Gravel, wn (5YR 3/4) clayey medium , wet. No odor.
- - 14 -			0.0	6 1 2	× × × ×		wn (5YR 3/4) clayey SAND, ium GRAVEL, wet. No odor.
- 15 - 16			0.0	1 3		NO RECOVERY	
- 17		114-MW23BD (16-16.5) Cr+6, TAL Metals 114-MW23BE (16.5-17) Cr+6, TAL Metals	0.0	2 32	$\begin{array}{c} \times & \times & \times \\ \times & \times & \times \\ \times & \times & \times \\ \times & \times &$		wn (5YR 3/4) clayey SAND, ium GRAVEL, wet. No odor.
			0.0 N/A	11 3 2		Meadow mat. Str	ong organic odor.
- 19				2 3 2			
- 20		114-MW23BF (20.0-21.0)	13.2	2 6		Meadow mat. Bla	ack organic SILT and PEAT,
		MS/MSD, Cr+6, TAL Metals	0.1	11 9			erial, wet. Strong sulfur odor.



Site L Geolo Drillin	Site 114 cocation: Jersey gist: D. Sero	City, NJ Elevation State Pla Advanced Drilling IncCoordin	mpletion 1 n 1 nne 2 ates	on Da 4.8 ft K: 61	19/2006 te: 12/20/ NAVD88 1569.8 HSA	2006 Y: 683780.7	ENSR AECOM 114-MW23B Page: 4 of 4
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- 32 		#1 Sand Pack	0.0	30 27 24		Yellow mottling m	YR 4/4) with some Green to edium to coarse SAND, little angular Gravel, trace Silt,
- 34 -			0.0	28 31 19		Yellow mottling m	YR 4/4) with some Green to edium to coarse SAND, little angular Gravel, trace Silt,
— 35 -		PVC Screen	0.0	19 22		No Recovery	
- 36 - 37			0.0	8 9	н н н н н н н н н н н н н н н н н н н н	Red (2.5YR 4/6) s laminations, wet.	ilty fine SAND, fine No odor.
- 38			0.0	8 19 9	• • • • • • •		
- 39			0.0	11 14			SAND, trace Silt, wet. No odor.
- 40			0.0	19 12	·····	No Recovery	CAND troop Silt wat No odor
			0.0	12 13		neu (2.01K 4/0) €	SAND, trace Silt, wet. No odor.
42				18		End of Boring at 4	12 ft.



Boring ID: 114-MW24A

	t Name: F					Drilling Company: SGS North America		D00
	Number:					Drilling Method: Hurricane	Coordinates (NJSPNA	
	tarted Dril					Rig Type:	Coordinates (NJSPNA	
	inished Dr			1		Core Size: 12 in	Boring Total Depth:	15 ft
	d By: M. M					Project Manager: Scott Mikaelian	Depth to Water: NA	
hysic	al Locatio	n: For	rest St				Surface Elevation: 1	1.7 ft NAVD88
Jonth								
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
			dry	ASPHALT	XXXXX	Asphalt and Gravel		MW24A-0.0
-1 -1			dry	FILL		Very Dark Gravish Brown (10YR 3/2) fin and fine to medium rounded Gravel (5% medium dense.		
-2			dry	FILL	\times	Dark Reddish Brown (5YR 3/2) fine to m	edium SAND and	MW24A-2.0
			wet	CONCRETE		fine to medium rounded Gravel (10% CC medium dense. Green-stained CONCRETE, weathered.	DPR), little Silt,	
-4			wet	FILL		Black SILT, little fine angular Gravel, loo	se. Coal tar odor.	
			wet	FILL		Black-stained medium to coarse crushed		MW24A-5.0
			wet	VOID	~~~~	glass, ceramics), little fine to coarse San Slight coal tar odor. No Recovery.	d and Silt, loose.	
-9			wet	FILL		Black-stained medium to coarse crushed glass, ceramics), little fine to coarse San		MW24A-10.0
-11 -12 -13 -13 -14						sheen from 13.6 to 14.0 ft. Strong coal		
-14			moist	PEAT		Dark Reddish Brown (5YR 3/2) PEAT, h	igh Organics, some	MW24A-14.0
-	1		moiet	SILT		Silt, stiff. Sulfur and coal tar odor.		
-15			moist	AND		Reddish Brown (2.5YR 5/4) SILT and fin	e angular Gravel,	
				AND GRAVEL NULL		trace fine Sand, very densé. End of boring at 15 ft. Well set at 14 ft.	/	
	low surface eadow mat		COPR - chr GGM - gree	romite ore proce en grey mud	essing r	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - manufa ssits CCPW - chror	actured gas plant nate chemical production wa



Boring ID: 114-P2B1-S14B

			arfield Ave			Drilling Company: SGS North America			
	Number:					Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611582.5625		
Date St	tarted Dril	ling: 1	/21/2013 1	:50:00 PM		Rig Type:	Coordinates (NJSPNAD83) y: 683779.625		
Date Fi	nished Dr	illing:	1/22/2012	<u>11:10:00 A</u>	M	Core Size: 3 in	Boring Total Depth:	20.5 ft	
	By: BD					Project Manager: Chris Martell	Depth to Water: NA	\	
Physica	al Locatio	n: S14	4B						
							(Not	e bgs = below ground surface)	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID	
-1	2	0.0	dry	FILL		fine to medium SAND, with fine to coa silt, (7.5YR 3/1) very dark gray, non pla odor, no staining.			
-2 -3	1.6	0.0	moist	FILL		fine silty SAND, with fine to coarse gra with brick, (7.5YR 3/2) dark brown, nor moist, no odor, no staining.			
-4				NR		NO RECOVERY			
	1.2	0.0	moist	FILL		fine silty SAND, little fine gravel, (7.5Y non plastic, dense, moist, no odor, no			
-6				NR		NO RECOVERY			
-7	1	0.0	moist	FILL		fine silty SAND, with fine to coarse gra (7.5YR 4/6) strong brown, non plastic, odor, no staining.			
-8				NR		NORECOVERY			
-9	0			NR		NO RECOVERY			
-10		0.0	dry	FILL		fine to medium SAND, trace fine grave	I. trace brick.		
_ _11	2	0.0	-			(7.5YR 3/2) dark brown, non plastic, so odor, no staining.	oft, dry to moist, no		
			slightly moist	FILL		fine silty SAND, (5YR 3/4) dark reddist 3/4) dark brown, non plastic, dense, sli odor, no staining.			
-13	2	0.0	moist	FILL		fine SAND, some fine gravel, trace silt yellowish brown, non plastic, soft, mois			
		0.0	moist to wet	FILL		 staining. fine to medium silty SAND, with fine to (5YR 3/1) very dark gray, non plastic. 		114-P2B1-S14B-13.0-1	
-14		0.0	moist	FILL		(5YR 3/1) very dark gray, non plastic, l no odor, no staining.		114-P2B1-S14B-14.0-14	
-15 -	0.6		to wet	NR		fine to medium silty SAND, with fine to (5YR 3/1) very dark gray (7.5YR 3/2) d plastic loose, moist to wet, no odor, no NO RECOVERY	ark brown, non /	114-P2B1-S14B-14.0-14	
-16		0.0	moist to	FILL		fine to medium SAND, some silt and fi gravel, (7.5YR 3/1) very dark gray, nor		114-P2B1-S14B-16.0-10	
-17	0.8		wet	NR		moist to wet, no odor, no staining. NO RECOVERY	,,		
-18 -19	1.7	0.0	moist to wet	FILL		fine to medium SAND, with fine to coa subangular, (7.5YR 3/2) dark brown, lc dense, moist to wet, no odor, no staini	w plasticity,	114-P2B1-S14B-18.0-1	
_20	0.5	0.0		NR		NO RECOVERY			
-	0.5	0.0	moist to wet	FILL		fine to medium SAND, with fine to coa subangular, (7.5YR 3/2) dark brown, lo dense, moist to wet, no odor, no staini	w plasticity,	114-P2B1-S14B-20.0-20	
ommen	nts: 1) 3 atte	empts we	re made to o	btain best rec	overy 2)	No CCPW (COPR or GGM) present in any interval c	f this boring		



Boring ID: 114-P2B1-S15B

	Name: F					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611596.0587		
):50:00 AM		Rig Type:		AD83) y: 683806.4021	
				10:40:00 A		Core Size: 3 in	Boring Total Depth:		
	By: EW					Project Manager: Scott Mikaelian	Depth to Water: NA		
	al Locatio		5B				Surface Elevation: 2		
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID	
_1	2	0.0	dry	FILL		fine to medium SAND with silt and fine to (7.5YR 5/4) brown, non plastic, dense, d staining.	o coarse gravel, Iry, no odor, no		
		0.0	dry	FILL		fine to medium GRAVEL with fine to me			
-2 -3	1.4	0.0	dry	FILL		3/1) very dark gray, non plastic, loose, du staining. fine silty SAND with fine to medium grav (7.5YR 4/2) brown, non plastic, medium	el some brick,		
_				NR		no staining.	····, ···,		
-a_						NO RECOVERY			
-5	1	0.0	dry	FILL		fine silty SAND with fine gravel trace coa brown, non plastic, dense, dry, no odor,		114-P2B1-S15B-4.5-5.0	
- -				NR		NO RECOVERY			
-6 -7	0								
-8		0.0	dry	FILL		SILT, some gravel with rock fragments, ((2.5YR 4/4) reddish		
-9	2		,			brown, non plastic, dense, dry, no odor,	no staining.	114-P2B1-S15B-8.5-9.0	
-10		0.0		FILL		SILT, fine to medium sand gravel with ro (2.5YR 4/4) reddish brown, non plastic, o no staining.	ck fragments, dense, dry, no odor,		
-11	1.3						-	114-P2B1-S15B-10.5-11.0	
-12				NR		NO RECOVERY			
13	1.3	0.0		FILL		SILT, some fine to medium sand, some s gravel, (5YR 4/4) reddish brown, non pla odor, no staining.		114-P2B1-S15B-12.5-13.0	
				NR		NO RECOVERY			
-14		0.0	moist	FILL		fine silty SAND, some gravel, (5YR 4/4) plastic, dense, moist to wet, no odor, no		114-P2B1-S15B-14.5-14.8	
15	0.8			NR		NO RECOVERY	-		
-16 -17	1.5	0.0	wet	FILL		fine to medium silty SAND, trace clay, so 4/4) reddish brown, low plasticity, medium odor, no staining.		114-P2B1-S15B-16.5-17.0	
-				NR	X	NO RECOVERY			
-18	1.5	0.0	wet	FILL		fine to medium silty SAND, little clay, sor reddish brown, low plasticity, dense, wet staining.		114-P2B1-S15B-18.5-19.0	
~				NR		NO RECOVERY			
-20	0.5	0.0	moist	FILL		fine to medium silty SAND, some gravel, greenish gray, non plastic, dense, moist, odor, sheen.		114-P2B1-S15B-20.0-20.5	
M - me	ow surface adow mat		GGM - gree	n grey mud		esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - manut osits CCPW - chro	actured gas plant mate chemical production wa	

AECOM	
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Boring ID: FS18

Page: 1

	t Name: F					Drilling Company: SGS North America	Coordinates (NUCD)	AD02) vi 644604.0	
	t Number:					Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611684.6 Coordinates (NJSPNAD83) y: 683680.2		
			3/17/2014 8			Rig Type: Core Size: 3 in	· · · · ·		
	d By: EW		3/17/2014	12:30:00 P			Boring Total Depth: Depth to Water: NA		
			root Ctroot	F010		Project Manager: Scott Mikaelian	Surface Elevation:		
nysic	al Locatio	n: For	rest Street	- F518	1	1	Surface Elevation:	11.6 TE NAVD88	
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	mess:	Sample ID	
		0.0	dry	FILL		fine to medium SAND, with medium gra aggregate, (7.5YR 4/1) dark gray, non p		FS18-0.0-0.5	
-1		0.0	dry to slight	FILL		odor, no staining. fine silty SAND, with fine to medium gra brown, non plastic, soft, dry to slightly m			
-2	4.5	0.0	moist slightly	FILL		Staining. COPR, with fine sand, (5YR 3/4) dark re		FS18-2.0-2.5	
-3		0.0	moist slightly moist	FILL		A plastic, soft, slightly moist, no odor, no s fine to medium SAND, with ash and cine very dark gray, non plastic, loose, slightly	ders, (7.5YR 3/1)		
-4		0.0	slightly moist	FILL		staining. fine SAND, trace silt with cinders, (10YF brown, non plastic, loose, slightly moist,		FS18-4.0-4.5	
			7	NR		NO RECOVERY			
-5		0.0	moist	FILL		fine SAND, and silt, (7.5YR 4/2) brown, loose, moist, no odor, no staining.	non plastic, soft to		
-6 -7		29.4	moist	FILL		SILT, with cinders, trace fine sand, (7.5 plastic, moist, no staining, MGP-like ma odors.		FS18-6.0-6.5	
-8	3.5	0.0	wet	FILL		medium SAND, with fine gravel, (7.5YR non plastic, soft to loose, wet, no odor, r		FS18-8.0-8.5	
9				NR		NO RECOVERY			
10 11		0.0	moist	FILL		fine to medium SAND, trace fine gravel, dark brown, non plastic, loose, moist, no fine SAND, trace fine to medium gravel.	o odor, no staining.	FS18-10.0-10.5	
	5	10.0	moist			non plastic, soft, moist, slight tar odor, n		FS18-12.0-12.5	
13 14		0.0	wet	FILL		fine silty SAND, (7.5YR 4/2) brown, non odor, no staining.	plastic, soft, wet, no	FS18-14.0-14.5	
-								FS16-14.0-14.5	
15 16		0.0	moist to wet	SM		medium SAND, with fine to medium gra reddish brown, non plastic, loose, moist staining, red fine sands. Soils consisten	to wet, no odor, no		
	4						-	FS18-16.0-16.5	
18 		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brow moist to wet, no odor, no staining, red fi consistent with UNDno.		FS18-18.0-18.5	
19 -				NR		NO RECOVERY			
20—		0.0	moist	SM		medium SAND, (5YR 4/4) reddish brow	n, non plastic. loose.	FS18-20.0-20.5	
 21 	•	-	to wet			moist to wet, no odor, no staining, red fi consistent with UNDno.			
o tes: s - bel ⁄I - me	low surface adow mat	grade	COPR - chro GGM - gree		cessing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu	factured gas plant	



Boring ID: FS18

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NUS	PNAD83) x: 611684.6	
				3:50:00 AM		Rig Type:		NAD83) y: _683680.2	
				12:30:00 AM		Core Size: 3 in	Boring Total Depth		
	By: EW		5/11/2014	12.00.00111		Project Manager: Scott Mikaelian	Depth to Water: N		
hysic	al Locatio	n: For	rest Street	- FS18			Surface Elevation:		
				1010	1				
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Th	ickness:	Sample ID	
-23	5							FS18-22.0-22.5	
23 								FS18-24.0-24.5	
-25		0.0	moist	SM		medium SAND, (5YR 4/4) reddish bro	own, non plastic, loose,	_	
-26			to wet			moist to wet, no odor, no staining, red consistent with UNDno.	l fine sands. Soils	FS18-26.0-26.5	
	4								
28 -								FS18-28.0-28.5	
29 –				NR		NO RECOVERY			
30 31		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish bro moist to wet, no odor, no staining, red consistent with UNDno.	own, non plastic, loose, l fine sands. Soils	FS18-30.0-30.5	
-32 	4.5						FS18-32.0-32.5		
-				NR		NO RECOVERY		FS18-34.0-34.5	
35 — —		0.0	moist to	SM		medium SAND, (5YR 4/4) reddish bro moist to wet, no odor, no staining, red	own, non plastic, loose, I fine sands. Soils	_	
-36	4		wet			consistent with UNDno.		FS18-36.0-36.5	
-38								FS18-38.0-38.5	
39 				NR		NO RECOVERY			
otes:	low surface	grade					ve denosite MCP mo		
M - me mments:	eadow mat	graue	GGM - gree	n grey mud	coony h	esidue UNDno - non-organic undisturbed nativ UNDorg - organic undisturbed native d	eposits CCPW - cl	nufactured gas plant hromate chemical production wa	



Boring ID: FS25

Page: 1

_	Name: F Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611703.9			
				9:00:00 AM		Rig Type:		ordinates (NJSPNAD83) y: 683733.7		
				5 11:30:00 A		Core Size: 2 in	Boring Total Depth: 35 ft			
	By: EW					Project Manager: Scott Mikaelian	Depth to Water: NA			
			rest Street	- FS25			Surface Elevation:	8.4 ft NAVD88		
-										
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphie Log	c Surface Cover and Thickr	iess:	Sample ID		
_ 1—		0.0	slightly moist	FILL		UNDno medium to coarse SAND, with as gravel, (7.5YR 2.5/1) black, slightly moist staining.		FS25-0.0-0.5		
		0.0	slightly	FILL		fine SAND, with medium gravel and cera	mics, (7.5YR 3/2)			
2—		0.0	moist	FILL		dark brown, slightly moist, no odor, no sta	aining.	FS25-2.0-2.5		
3	3.5	0.0	slightly moist			fine to medium SAND, little fine sand and (7.5YR 4/2) brown, slightly moist, no odo COPR identified @ 3.0-3.5' bgs.	I wood fragments,	FS25-3.0-3.5		
4				NR		NO RECOVERY.				
5		0.0	slightly moist	FILL		fine to medium SAND, little medium grav reddish brown, slightly moist, no odor, no		FS25-5.0-5.5		
			moist				stanning.			
· _		0.0				Å		FS25-6.0-6.5		
-		0.0		NR		CONCRETE NO RECOVERY.				
7	4									
3		0.0	slightly moist	FILL		fine to medium SAND, little medium grav reddish brown, slightly moist, no odor, no		FS25-8.0-8.5		
9				NR		NO RECOVERY.				
0 1 -		0.0	wet	FILL		fine to medium SAND, little fine to mediu 4/2) brown, wet, no odor, no staining.	m gravel, (7.5YR	FS25-10.0-10.5		
2						X	-	FS25-12.0-12.5		
-	3	20.7	wet	FILL		 coarse GRAVEL, with fine sand, (7.5YR) 	0. E/D) yony dorly			
3 4 -		20.7	wet	NR		brown, wet, napthalene-like odor, sheen. NO RECOVERY.				
5		0.0	wet	FILL		fine to medium SAND, with coarse grave		FS25-15.0-15.5		
6				SM		Fine SAND, some silt, trace roots, (10YR brown, moist, no odor, no staining. Soils UNDno.	5/2) grayish	FS25-16.0-16.5		
7	3.5	0.0	moist	SM		UNDno fine to medium SAND, little fine of reddish brown, moist, no odor, no staining with UNDno.	ravel, (5YR 4/3) g. Soils consistent	FS25-18.0-18.5		
4				NR		NO RECOVERY.		F323-10.0-10.3		
9				-						
0		0.0	moist	SM	ा संस्थ	LIND no fino to modium CAND with first	o modium group	FS25-20.0-20.5		
_ 1		0.0	moist	JIVI		UNDno fine to medium SAND, with fine t (5YR 3/2) dark reddish brown, moist, no Soils consistent with UNDno.				
es: - bel - me	ow surface	grade	COPR - chro GGM - gree	omite ore pro	cessing re	- ssidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - manuf	actured gas plant mate chemical production w		



Boring ID: FS25

	t Name: F					Drilling Company: SGS North America		NAD02) V. 611700.0
	Number:			00.00		Drilling Method: Geoprobe		NAD83) x: 611703.9
			6/15/2015 9			Rig Type:		NAD83) y: 683733.7
			6/15/2015	11:30:00 AI		Core Size: 2 in	Boring Total Depth	
.oggec	By: EW	. . .	mont 01/'	F005		Project Manager: Scott Mikaelian	Depth to Water: N	
nysic	al Locatio	n: ⊢or	rest Street	- FS25	1		Surface Elevation:	18.4 ft NAVD88
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and T	Thickness:	Sample ID
 	4.5							FS25-22.0-22.5
_				NR		NO RECOVERY.		F525-24.0-24.5
25		0.0	moist	SM		UNDno fine to medium SAND, with (5YR 3/2) dark reddish brown, mois Soils consistent with UNDno.	fine to medium gravel, t, no odor, no staining.	_
-26 -27	3.5	0.0	slightly moist	SM		UNDno fine to medium SAND, (5YF brown, slightly moist, no odor, no sta	R 3/2) dark reddish aining. Soils consistent	FS25-26.0-26.5
-28				NR		NO RECOVERY.		FS25-28.0-28.5
-30 -31		0.0 slightly moist		SM		UNDno fine to medium SAND, (5YF brown, slightly moist, no odor, no sta with UNDno.	FS25-30.0-30.5	
-32 	4.5							FS25-32.0-32.5
-34				NR		NO RECOVERY.		FS25-34.0-34.5
-35								
lotes: gs - bel <u>IM - me</u> omments:	low surface adow mat	grade	COPR - chro GGM - gree	omite ore proo	cessing re	sidue UNDno - non-organic undisturbed na UNDorg - organic undisturbed native	ative deposits MGP - mar deposits CCPW - cf	nufactured gas plant rromate chemical production wa

Ground surface elevation = 14.6 ft NAVD88

	2.1		Project N	umber:						Boring ID:	0-0
	AEC	M.	Site:		PAG-St Burnd	TE 114 -	NORTH	PLOPSI TER O	ery firm#2	Doring ID: Sheet: Drilling Method:	1 GT-19 1 4/44 10 Itsa
			1.	1						Ground Elev.	
Projec Drilling	t Manager:	· 50		Logged By: Driller:		USA USA	Date Started: 420 Date Finished: 422			Depth of Boring: Water Level:	50'
Depth	Elevation	Counts	ab Sample ID	Recovery	Moisture	Gid	. sosn		192210	Classification of I	
feet	feet	Blow	S QE	Feet	Wo	-	15	1 .		USCS; Modified B	implatas
0-1	1 1001	1 .	1-1	Treel		ppm	1-	1Asou			ameistei
1-2	CHEM ANM GTH9-	9-12	GF19.	12/12"	Day	00	Fuc	DARK	BROWN 10	3/4" Stowie YR3/3 F-SAND, IRANEL, CONCrete	CITTLE 2090 W-C SAND AND BRICK, DAY, SOR
2-4-	1315 1315 1317	6-1/2" -1	GF-19 2-4	9/24"	DRy	0.0	Fuc				2.5/3 F-C S.AND, LOOSE, DRY 8092 COPL
4	Critian Anal GJ-19	15-9 1-1	G719 4-6	15/24"	WRY	000000000000000000000000000000000000000	FILL	BOTTO F-M	SAND, UT	DARE LEDDISH	BROWN 2.54R 3/3 FRAIESSYNCIAM, OCOPR
90	1335	1-1	G719 48	2/24"	WZt	00	FILL	SAA			
10	-	3-3 4-7	GTF19 810	12/24"	WRT	00	Fuc	VFSF	KASHCI WD, COO	SE, WET 10%	COPR. SUIGHT
12_	CHRM AAM GT-19 10:12 DJP2	10.9 7.5	GT-19 10-12	12/24 "	WRT	00	Fuc	ASHO	CINORRS	6, 10°20 COPP.	SUGALT, PETROleun
244	GT-119 10-12	3-8 14-14	GF-19 12-14	11/261"	Moist	00	Fill	BOT	" SAA tom 9" 1 D, Some e260 % Si	TARE BEADISH C focurre 2001	BAN 5YR412 VF.1 OM-SCHROMOCANNO D. MEDDANKE, MOIST
4-16		9-15 14-13	GT-19 1446	NR	1.	1 .	1 .		Eavery		
6	67-19 16-17 141.4	4-2 5-4	GT-19 16-18	12/24"	MOIST	00	SP PT	FG	E, 10% 5	ED, DENSE, MO	25/4 F-SAND, 10 W-C SAND AND 15T
8.		97 77	GT-19 18-20	e 4/24"	MIDIST	60	1	PRA			
20 22		3-4 5-4	Git-19 2022	24/24"	MOIST.		-	YK3 Botton	11,0RGM	HIGLENT 5/N	LY DARK GRAY 7.5 ASTIC, MOIST, SOFF ORGANIC SILTIAND ASE SOFF, MOD PLASTIC

Ground surface elevation = 14.6 ft NAVD88

	1.1		Project I	Number:	1			· · · ·	1	1.
	AE	COM	* Site:		000	175 11	-	02411 0.0.000	Boring ID:	GT-19
		CON			1945	AR II	4-N	DRTH PROPERT	t7 Sheet	1
				4	BOUNT	stud-N	DRIM C	ENTER OF IRMI		141/4 " ID itsA
	t Manage			Logged By	r KAn	STUR	Date	Started: 1476	Ground Elev.:	-30'
Drilling	1	1· 5	GS	Driller:	RA	HUSA	Date	Finished: 407	It Water Level:	H-41
ulden feet	Elevation	Blow Counts	Lab Sample ID	Recovery	Moisture				Classification of Material	
	1 reet	1.	1	Feet		ppm	1	1	USCS; Modified B	
22 24		78	GF19 22-24	1 1/4	Woist To URMY WOIST	0.0		GRADING CRAYGLEN	to BOTTOWN 10	V ORGANIC SECT " of DARKGREENISH F-SAND, TRACE 25% , UPERY MUDIST
-24-		2-3	GF-19 24-24	18/24	moist	00	ML	to tRACE, 10	RCIRAY 5431 DYONF SAND AND ST, TRACE 22400	2 SILT, WITCE DCLAY, Soft, MA- SpegAnles
26-28-	-	12- 2-	GT-19 26-28	14/24 "	MOIST	00	me	SAA		
28-30-		3-6 6-7	G1-19 2830	19/24	Moisr to Viry Moisí	00	ML	ANGULAR R	ED SILTSTONEGI	WATCE, 2040C- CALEL, CUTTLE fir. SAND, SOFT, Mast
30- 32		12-13	GF19 30-32	12/24.4	Vitiky Miast	000	SP	REDDISH BE	Lown 2.54R 4/3	VF-FSAND, CUTTE SILT AND CLAU, DANSE, VEM WAST
34-		21-73 25-73	Qt19 32-34	15/24"	บริษัญ แนงเรร	00 00	SW	20% C-SAN	10 ANDFM RO	WD, Some to WHE UNDED to SubRains URD, DENSE, URLY
4-36			GIT-19 34-36	7/24"	wet	0.0	SW			ND, TEACE 25%0 ZD-PRIVSE, W.ET
2 - 38_			GT-19 36-38	12/24"	ileiy illast to wet	6.5	5W to. GM	LITTLE, 1040C	ARGEAVEL, INC.	- MSAND, UTTLE Etsing wITH DEPTH, Yo SILT, UERY.
B. 40		i1-18 14-27	G7-19 38-40	12/24.1	mast	00	SP	TOP 2" SIAA BOTTOM 10"-R	EDDIS-1 BLOWN 2.3 VFSAND ABOUT 3	91911, HARE 2 1092
12	•	19-19 18-26	GT-19 40-42	15/24."	MOIST	00	SP	to tence 10%	SILT. In 21 "BADO	VF-SAND, WATE S, TEACK «SON F-SAND . HEDDENSE, MOIST
244		1716 15-20		14/24"	MOIST	00 00	S	REDDISH BED 2590 F.SAND V	ON 2.5YR 4/41 AND SUT. MED DE	IF-SAWD, TRACE USE, VERY MOIST

Gr	ound	surfac	e eleva		14.6 ft N	AVD	88	
		COM		-unuter-	BOUNDI	G SITI	E114 -	Boring ID: GT-19 NORTH PROFERTY ENTER OF IRM #2 Drilling Method: 41/14 "ID HSA Ground Elev.:
Project Drilling	Manager Co.:		45	Logged By Driller:	E KAN	TOR		Started: 4/26/11 Depth of Boring: - 50'
the t	teet Elevation	Blow Counts	Lab Sample ID	Alanocay. Feet	Molsture	ala ppm	nscs.	Finished: 4 27 11 Water Level: 7/- 4/ Classification of Material USCS; Modified Burmeister
44_	-	7-10	G.F.19 44-46	18/24	M018†	00 00 0.0	SP	REDDISH BLOWN 254R 4/4 F-SAND, LITTLE 201 CLAMEYSILT BANDS AROUND 45', 12 AND 112 " MICK, LOOSE TO MED DENSE, MOIST
48-			GF19 46-48	14/24"	UTERY Moist	00 00 00	SP SP	TOP 4. "-2" CLAMEY SILT BAND AELOW 2"F-SAN BOTTOWN 12" REDDISH BROWN 2.5YR 4/4 VF-SANJ MED. DENSE, DERY AND IST
8 70 .	-	6-10 15-24	GT-19 4850	16/24	Moist to Using Moist	00.00	50	TOPILI'' REDDISH BROWN 254R4/4 F-VFSAN MED DENSE MOIST. BOTTOM 2"- BEDDISH BROWN 2-54R4/4 UF- SAND, MED. DENSE, VERY MOIST
					-			END BORING AT SO FEET
				÷			•	
1.1.				-				
				-				
T		-		-	•			
	•							
				•••				



Boring ID: ICO-19

Project	Name: F Number: arted Drill	60240	0739			Drilling Company: SGS North America Drilling Method: Geoprobe Rig Type:		NAD83) x: 611639.361 IAD83) y: 683733.753
	nished Dr					Core Size: 12	Boring Total Depth:	
	By: B. D			nger		Project Manager: Scott Mikaelian	Depth to Water:	
	al Locatio		,				Surface Elevation:	17.7 ft NAVD88
Jonth								
Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
_			dry	ASPHALT		Black Asphalt		ICO-19-0.5
-1 -2			dry	FILL		Very Dark Gray (7.5YR 3/1) fine to coa fine to coarse sub-rounded GRAVEL, I		
			moist	FILL		Dark Brown (7.5YR 3/2) fine to coarse some fine to coarse angular gravel, littl		ICO-19-2.0
-3			dry	CONCRETE		debris) loose, no odor Concrete		
-4			wet	FILL		Dark Brown (7.5YR 3/2) fine to coarse some fine to coarse angular Gravel, litt debris) loose, wet at 3.1 ft., no odor		ICO-19-4.0
-5			wet	FILL		Very Dark Brown (10YR 3/2) crushed f	ine to medium	
-6			moist	FILL		GRAVEL, trace Silt, loose, no odor Very Dark Brown (10YR 3/2) SILT, little	e fine Sand, soft,	
			wet			<u>\no odor</u> Very Dark Brown (10YR 3/2) SILT and GRAVEL, COPR (80%), little medium 3		ICO-19-6.5
			moist	FILL		odor Very Dark Brown (10YR 3/2) SILT, little		-
-8			wet			 <u>no odor</u> Brown (7.5YR 3/2) FILL (ash), little Cin moderately soft, no odor 	ders and Silt,	ICO-19-8.0
-9			wet	NR		No Recovery	/	
-10			wet		****			ICO-19-10.0
-11			wet	NR		coarse Sand to fine rounded Gravel, lit sandy Silt, loose to soft, no odor No Recovery		
-12								
-13								
-14								
-15			moist	SM		Reddish Brown (2.5YR 4/3) fine SAND		
						trace medium Sand, reed-like organics moderately dense, no odor	at 16.5' to 16.7',	ICO-19-16.0
-17			moist	PT			ne Silt, trace Clay,	
_ 18			moist	NR				ICO-19-17.5
_ _19								
-20								
otes: as - belo	ow surface <u>c</u>	Irade	COPR - chr	omite ore proces	sina rea	sidue UNDno - non-organic undisturbed native de	posits MGP - manu	factured gas plant
	adow mat		GGM - gree			UNDorg - organic undisturbed native depos		omate chemical production wast



Boring ID: NFS-PDI-S14B

	t Name: F					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinatos (NUSD	NAD83) x: 611589.2										
	Recovery PID I Moisture USCS																	
						Rig Type: Core Size: 3.0 in	Coordinates (NJSPN											
		ming:	9/20/2010	0.40.00 AIVI		Project Manager: Scott Mikaelian	Boring Total Depth: Depth to Water: 16											
		n. Act		t St Droportic		Project Manager: Scott Mikaelian	Surface Elevation:											
nysic	ai Localio	n. Act		I SI FIOPEILIE	<u> </u>		Surface Elevation.	12.94 IL NAVD88										
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	kness:	Sample ID										
	4.5	0.0		FILL		3" Trap Rock and DGA above liner												
-3 -4			dry	FILL		fine to medium silty SAND, little fine to concrete, (5YR 4/4) reddish brown, med odor, no staining.												
	1			NR		NO RECOVERY												
-5 -6 -7 -8	3.5	0.0	moist	FILL		fine silty SAND, some fine to medium g (5YR 4/3) reddish brown, medium dens staining.												
_9 _9	-	0.0	0.0	0.0	0.0		NR		NO RECOVERY									
-11 -12 -12	. 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	moist	FILL		fine silty SAND, trace fine gravel, (5YR medium dense, moist, no odor, no stain	4/3) reddish brown, ing.	
-13 -14 -													NR		NO RECOVERY		-	
-15 -16 		0.0	wet	FILL		fine to medium silty SAND, some fine to (5YR 4/4) reddish brown, medium dens staining, water at 16.0 feet.	o medium gravel, e, wet, no odor, no											
-17 -18	5		dry	PT		stiff dry no odor no staining Soils con	n brown, medium	NFS-PDI-S14B-17.0-17.5										
 			moist	OL		Organic SILT, 80% organic silt, 20% org gray, soft, moist, no odor, no staining. S UNDorg.	ganic fibers, (5Y 5/1) oils consistent with											
lotes:																		
ĬМ - me	low surface eadow mat		GGM - greer	n grey mud	-	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep ft thick 3) No COPR or GGM present in any interval of this boring.	deposits MGP - manu oosits CCPW - chu	ufactured gas plant romate chemical production wa										



Boring ID: NFS-PDI-S15B

roject	Name: F	60240)739			Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	AD83) x: 611598.2
ate St	arted Dril	ling: 🤇	9/20/2016 8	3:45:00 AM		Rig Type:	Coordinates (NJSPN/	AD83) y: _683806
ate Fi	nished Dr			9:30:00 AM		Core Size: 3.0 in	Boring Total Depth:	20.5 ft
ogged	By: ES					Project Manager: Scott Mikaelian	Depth to Water: 16	
		n: Act	ual - Forres	st St Propertie			Surface Elevation:	15.11 ft NAVD88
a na tha								
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
-1		0.0		FILL		3" Trap Rock and DGA above liner		
-2 -3 -4	4.5		moist FILL			fine to medium SAND, some fine to medium SAND, some fine to medium do coal, (7.5YR 6/3) light brown, medium do odor, no staining.		
-				NR		NO RECOVERY		
5		0.0						
6 7 -8	3.5	0.0	dry	FILL		fine silty SAND, some fine gravel, (5YR medium dense, dry, no odor, no staining		
9				NR		NO RECOVERY		
10— — 11— —		1.0	moist	FILL		fine to medium silty SAND, trace fine to 4/3) reddish brown, dense, moist, slight staining.	coarse gravel, (5YR petroleum odor, no	
12— — 13— _ 14—	2			NR		NO RECOVERY		
15 <u> </u>	5	15.4	wet	FILL		fine to medium silty SAND, trace fine to 4/4) reddish brown, dense, wet, moderal no stainning, sheen, water at 16.0 feet.	coarse gravel, (5YR e petroleum odor,	
18 19								
-					\bigotimes	8		
20		4.0			\bigotimes	8		
-	1	1.0			\boxtimes	X		NFS-PDI-S15B-20.0-20.5
otes: s - bel	ow surface adow mat	grade	COPR - chr GGM - gree	omite ore proc	essing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native depo	deposits MGP - manu	factured gas plant omate chemical production wa



Boring ID: NFS-PDI-T12B

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinator (NLICD	NAD83) x: 611590.8
			8/30/2016 9	0.30.00 AM		Rig Type:		NAD83) y: 683727.3
				10:30:00 AM	1	Core Size: 3.0 in	Boring Total Depth:	
	d By: TI	migi	0/00/2010	10.00.0074	••	Project Manager: Scott Mikaelian	Depth to Water: 11	
		n: Act	ual - Forres	t St Propertie	es - PDI		Surface Elevation:	
							Currace Elevation	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		0.0	dry	FILL		coarse GRAVEL, (5Y 5/1) gray, loose, di staining.	ry, no odor, no	
-1			moist	FILL		(7.5YR 3/2) dark brown, medium dense, staining.		NFS-PDI-T12B-0.5-1.0
-3 -4	4.5		moist	FILL		SILT, little fine sand and fill debris, (7.5Y medium dense, moist, no odor, no staini		NFS-PDI-T12B-4.0-4.5
	-							_
-5				NR	h	NO RECOVERY		4
-6	-	0.0	moist	FILL		SILT, little fine sand and fill debris, (7.5Y medium dense, moist, no odor, no staini		NFS-PDI-T12B-6.0-6.5
-7 -8	4							NFS-PDI-T12B-8.0-8.5
_9				NR		NO RECOVERY		-
-10	-	0.6	moist	FILL		coarse SAND, little fine to medium grave brown, loose, moist, no odor, no staining		NFS-PDI-T12B-10.0-10.5
-11 - -12	-		wet	FILL		CINDERS, (5Y 2.5/1) black, loose, wet, water at 11.0 feet.	no odor, no staining,	NFS-PDI-T12B-12.0-12.5
-13	4.5							
-14						8		NFS-PDI-T12B-14.0-14.5
_	1			NR		NO RECOVERY		1
-15 -16	-	71.3	wet	FILL		CINDERS, (7.5YR 2.5/1) black, dense, v odor, product staining.	vet, strong MGP-like	
-17	5							NFS-PDI-T12B-16.0-16.5
-18	1		wet	FILL		SILT, little fine to coarse gravel, trace fin reddish brown, soft, wet, slight MGP-like	e sand, (5YR 4/3)	NFS-PDI-T12B-18.0-18.5
-19	1					XX	coor, no commy.	NFS-PDI-T12B-18.5-19.0
-19 		dry PT M/2 M/2 PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.			brown, stiff, dry,	NFS-PDI-T12B-19.0-19.5		
20								
VĬM - me	low surface eadow mat	0	GGM - greer	n grey mud		esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo ft thick 3) No COPR or GGM present in any interval of this boring.	leposits MGP - man ssits CCPW - ch	ufactured gas plant romate chemical production



Boring ID: NFS-PDI-T12BR

Date Sta Date Fir Logged Physica	nished Dr By: ES	ling: illing:	11/11/2016	9:35:00 AM				AD83) x: 611588.3	
Date Fir ogged Physica Depth Range	nished Dr By: ES al Locatio	illing:					a andinata a /NI ICDN	AD00\ 000700 C	
Depth Range	By: ES al Locatio		11/11/20					AD83) y: 683720.6	
Physica Depth Range	al Locatio Recovery	n: Act		<u>16 10:15:00 /</u>			oring Total Depth:		
Depth Range	Recovery	n: Act					epth to Water: 11		
Range			ual - Forre	st St Properti	<u>es - PDI</u>	S	urface Elevation:	18.6 ft NAVD88	
-1		PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickness	5:	Sample ID	
_ -1									
-1-		0.8	dry	FILL		3" Trap Rock and DGA above liner		NFS-PDI-T12BR-0.2-0.7	
-			dry	FILL		fine to medium SAND, some fill debris, trace 4/3) brown, medium dense, dry, no odor, no			
-2								NFS-PDI-T12BR-2.0-2.5	
-3	5								
-4								NFS-PDI-T12BR-4.0-4.5	
-5		1.5	-					NF3-FUF112DR-4,0-4,3	
-6								NFS-PDI-T12BR-6.0-6.5	
-7	5							NF3-PDF1120R-0.0-0.3	
_8									
-9			dry	FILL		fine to medium SAND, some ash slag, (5YR brown, medium dense, dry, no odor, no stain		NFS-PDI-T12BR-8.0-8.5	
-10		3.4	1					NFS-PDI-T12BR-10.0-10.5	
-11		0.4	wet	wet FILL fine to co			fine to coarse SAND, little concrete and fill de and silt, (7.5YR 4/2) brown, medium dense, staining, water at 11.0 feet.		
-12 -13 	5								NFS-PDI-T12BR-12.0-12.5
-14								NFS-PDI-T12BR-14.0-14.5	
4									
-15		30.2	wet	FILL		CINDERS, little ash, (5Y 2.5/1) black, loose, MGP-like odor, product staining, sheen.	wet, moderate		
-16 -17	F							NFS-PDI-T12BR-16.0-16.5	
	5							NFS-PDI-T12BR-18.0-18.5	
-19									
						<u>}</u>			
٦			wet	FILL		fine to medium silty SAND, some coarse gra	vel, little	NFS-PDI-T12BR-19.5-20.0	
-20		5.0	moist	PT		cinders, trace organics, (5YR 4/3) reddish br	own, medium	NFS-PDI-T12BR-20.0-20.5	
4					1/ 1/1	dense, wet, no odor, no staining.	rganic fibers		
-21						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, moist, slight MGP-like odor, no staining. Soils consistent wtih MM.			
otes:						· · · · ·			
gs - belo	ow surface	grade	COPR - chr	omite ore proc	cessing re	sidue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits	sits MGP - manu	factured gas plant omate chemical production wa	



Boring ID: NFS-PDI-T12BR



Boring ID: NFS-PDI-T13B

	t Name: F					Drilling Company: SGS North America	.	14 DOOL 011	
	t Number:					Drilling Method: Direct Push	Coordinates (NJSPN		
				7:45:00 AM		Rig Type:	Coordinates (NJSPN		
		illing:	8/31/2016	8:45:00 AM		Core Size: 3.0 in	Boring Total Depth:		
	d By: TI					Project Manager: Scott Mikaelian	Depth to Water: 12		
hysic	al Locatio	n: Act	ual - Forre	st St Propertie	es - PDI		Surface Elevation:	19.93 ft NAVD88	
)epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID	
		0.0	dry	FILL		coarse GRAVEL, (5Y 5/1) gray, medium	dense, dry, no		
-1 -2			dry	FILL		odor, no staining. medium to coarse SAND, little asphalt m dark brown, medium dense, dry, no odor		NFS-PDI-T13B-0.5-1.0 NFS-PDI-T13B-2.0-2.5	
-3 -3	4.5		moist	FILL		SILT, some fine sand, concrete and brick brown, medium dense, moist, no odor, n			
_	-				\bowtie				
-5				NR		NO RECOVERY			
-6 -7		0.0	moist	FILL		SILT, some fine sand, concrete and brick brown, medium dense, moist, no odor, n		NFS-PDI-T13B-6.0-6.5	
-8 -8 -9	. 5							NFS-PDI-T13B-8.0-8.5	
	-	0.0	0.0	moist	FILL	loose, moist, no odor, no staining.	fine to coarse SAND, little silt, (5YR 4/3) loose, moist, no odor, no staining.	reddish brown,	NFS-PDI-T13B-10.0-10.5
12— — 13— —	4.5			wet	FILL			NFS-PDI-T13B-12.0-12.5	
14	1					X		NFS-PDI-T13B-14.0-14.5	
_	1				<u>txxxx</u>			•	
-15		0.0	wet	NR FILL		NO RECOVERY CINDERS, (5YR 2.5/1) black, loose, satu staining.	urated, no odor, no		
	-		wet	FILL		fine SAND, little silt and organics, trace r	metal debris (5YR	NFS-PDI-T13B-16.0-16.5	
17	4					4/3) reddish brown, soft, wet, no odor, no		NFS-PDI-T13B-17.0-17.5	
-18			dry	PT	M M PEAT (degraded vegetated material), 80% organic fibers V V/2 V/2 <td>NFS-PDI-T13B-17.5-18.0</td>			NFS-PDI-T13B-17.5-18.0	
-19				NR		NO RECOVERY			
-20									
M - me	eadow mat	0	GGM - gree	n grey mud	Ū	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo ft thick 3) No COPR or GGM present in any interval of this boring.	deposits MGP - manu ssits CCPW - chr	factured gas plant omate chemical production wa	



Boring ID: NFS-PDI-T14B

	t Name: _ [t Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NISP	NAD83) x: 611608.3
				9:15:00 AM		Rig Type:		NAD83) y: 683766.3
				6 10:15:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	d By: TI	g.	0/01/2010	10.10.0074		Project Manager: Scott Mikaelian	Depth to Water: 12	
		n. Act	ual - Forre	st St Propertie			Surface Elevation:	
nyarc							ourrace Lievation.	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		0.0	dry	FILL		coarse GRAVEL, (5Y 5/1) gray, medium	dense, dry, no	
_	1		dry	FILL	1888 A	odor, no staining.		NFS-PDI-T14B-0.5-1.0
-1 -2 -3	4.5		to moist	, ILL		fine to coarse SAND, little silt and fill deb brown, loose, dry to moist, no odor, no st	rris, (7.5YR 4/2) taining.	NFS-PDI-T14B-2.0-2.5
-4	1					8		NFS-PDI-T14B-4.0-4.5
_	1			NR		NO RECOVERY		-
-5		0.0	maint				fill dobria (7.5VD	-
_	4	0.0	moist	FILL		fine to coarse SAND, little concrete and f 3/2) dark brown, medium dense, moist, r		
-6 -7	- 4					green-yellowish staining on concrete.		NFS-PDI-T14B-6.0-6.5
-8	-							NFS-PDI-T14B-8.0-8.5
-9	-			NR		NO RECOVERY		-
10		0.0	moiot	FILL		fine to esperas CAND little silt trace esper	as aroual and fill	NFS-PDI-T14B-10.0-10.5
 -11 -	-	0.0	debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining.					
-12 -13 -	4.5		wet	FILL		fine SAND, some silt, little coarse gravel, brown, medium dense, wet, no odor, no s 12.0 feet.	coarse graver, (STR 4/S) reduisin	NFS-PDI-T14B-12.0-12.5
-14	-					X		NFS-PDI-T14B-14.0-14.5
_	-			NID	<u>kxxxx</u>			-
-15	_	0.0	wet	NR FILL		NO RECOVERY coarse SAND, some silt, little coarse gra reddish brown, medium dense, wet, no o	vel, (5YR 4/3) dor, no staining.	-
-16	-					X	-	NFS-PDI-T14B-16.0-16.5
 -17	4							
18 — —	-							NFS-PDI-T14B-18.0-18.5
-19	1			NR		NO RECOVERY		1
-20		0.0	wet	FILL		fine SAND, some coarse gravel, little silt,	(5VD 1/2) roddiab	NFS-PDI-T14B-20.0-20.5
-21	1	0.0	wei	LILL		brown, medium dense, wet, no odor, no		
gs - be		grade			essing r	esidue UNDno - non-organic undisturbed native c	leposits MGP - man	ufactured gas plant
И́М - me	eadow mat	•	GGM - gree	n grey mud	Ū	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo ft thick 3) No COPR or GGM present in any interval of this boring.	deposits MGP - man osits CCPW - ch	ufactured gas plant romate chemical productior



Boring ID: NFS-PDI-T15B

	t Name: F					Drilling Company: SGS North America		A DOO) 044000
	Number:			45.00 411		Drilling Method: Direct Push	Coordinates (NJSP	
			9/2/2016 7:			Rig Type:	Coordinates (NJSPN	
		illing:	9/2/2016	8:45:00 AM		Core Size: 3.0 in	Boring Total Depth:	20 ft
	By: ES	-				Project Manager: Scott Mikaelian	Depth to Water: 8	00 F0 (1 1 1 · · · · · · · · · · · · · · · ·
nysic	al Locatio	n: Act	ual - Forres	st St Propertie	es - PDI		Surface Elevation:	23.53 ft NAVD88
)epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thickr	ness:	Sample ID
_		0.0		FILL		3" Stone cover		
-1				FILL		fine to coarse SAND, little coarse gravel dark brown, medium dense, moist, no od		NFS-PDI-T15B-0.5-1.0
-3 -3 -4	4.5							NFS-PDI-T15B-2.0-2.5 NFS-PDI-T15B-4.0-4.5
_				ND				-
-5				NR	h	NO RECOVERY		4
-		0.0	moist	FILL		fine to coarse SAND, little coarse gravel		
			moist	FILL		dark brown, loose, moist, no odor, no sta fine SAND, little coarse gravel, (5YR 4/3)	Ining.	
-6 -7 -8	3.5		to wet			medium dense, moist to wet, no odor, no 8.0 feet.) readish brown, o staining, water at	NFS-PDI-T15B-6.0-6.5
0						X		NFS-PDI-T15B-8.0-8.5
-9 -				NR		NO RECOVERY		
10— — 11— —		0.0	wet	FILL		SILT, some fine sand, trace coarse grave brown, medium dense, wet, no odor, no s		NFS-PDI-T15B-10.0-10.5
12— — 13— —	4.5							NFS-PDI-T15B-12.0-12.5
14						8		NFS-PDI-T15B-14.0-14.5
-				NR	+××××	NO RECOVERY		-
15 <u></u>		0.0	wet	FILL		SILT, some fine sand, little coarse gravel 4/3) reddish brown, medium dense, wet, staining.	l, trace wood, (5YR no odor, no	-
16 17 -	3.5							NFS-PDI-T15B-16.0-16.5
18						8		NFS-PDI-T15B-18.0-18.5
19				NR		NO RECOVERY, Refusal at 19.0 feet.		
20								
otes: Is - bel	low surface adow mat	grade	COPR - chr GGM - gree		essing r	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - manu	ufactured gas plant omate chemical production wa



Boring ID: NFS-PDI-T15BR

Project Name: Project Number:					Drilling Company: SGS North America Drilling Method: Sonic Drill	Coordinates (NJSPN	AD83) x: 611623 341
Date Started Dri			00:00 AM		Rig Type:	Coordinates (NJSPNA	
Date Finished D					Core Size: 3.0 in	Boring Total Depth:	
.ogged By: EA					Project Manager: Scott Mikaelian	Depth to Water: 15	
hysical Locatio	n: Act	ual - Forres	st St Propertie	es - Sup	plemental PDI	Surface Elevation: 2	3.496 ft NAVD88
Depth Range ft bgs)		Moisture Content	USCS	Graphi Log		ness:	Sample ID
-1	0.0	moist	ASPHALT FILL		ASPHALT ASH, trace fine to coarse gravel, (5YR 2 moist, no odor, no staining.	5/1) black, loose,	
 5 5		moist	FILL		fine to medium silty SAND, little fine to c 4/3) reddish brown, medium dense, moi staining.		
-5 -6 -7 -			NR		No Recovery		
-8 -9 -10 -11 -12	0.0		FILL		BOULDERS and COBBLES, (5YR 4/1) staining.		
-13		moist	FILL		fine to medium silty SAND, trace fine to 4/3) reddish brown, medium dense, moi staining, water at 15.0 feet.	coarse gravel, (5YR st to wet, no odor, no	
-17			NR		No Recovery		
-18	0.0		FILL		BOULDER, (5YR 6/1) gray, no staining.		
5 21							



Boring ID: NFS-PDI-T15BR

Page.	2
гаус.	2

Project	Name: F	60240	0739			Drilling Company: SGS North America Drilling Method: Sonic Drill		AD83) x: 611623.341
				6 10:00:00 AN		Rig Type:		AD83) y: 683792.146
			11/16/201	<u>16 12:00:00 F</u>	M	Core Size: 3.0 in	Boring Total Depth:	28 ft
	BY: EA					Project Manager: Scott Mikaelian	Depth to Water: 15	
hysic	al Locatio	n: Act	ual - Forre	st St Propertie	es - Sup	plemental PDI	Surface Elevation:	23.496 ft NAVD88
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graph Log	Surface Cover and Thick	kness:	Sample ID
_			wet	FILL		fine SAND, some silt, trace fine to med	um gravel (5YR 5/1)	NFS-PDI-T15BR-22.5-23.0
-23		0.0	moist	PT	$\underline{\mathbb{W}}$	gray, loose, wet, no odor, no staining.		NFS-PDI-T15BR-23.0-23.5
 		0.0	moist	P1	<u>1, 1, 1,</u> <u>1, 1, 1,</u> <u>1, 1, 1,</u>	PEAT (degraded vegetated material), 80 20% organic silt, (5YR 3/3) dark reddist 2 2 2 3 4 3 4 4 4 4 4 5 4 4 4 4 4 4 4 5 4 4 4 4 4 4 4 4 4 5 4 4 4 4 5 4 4 4 5 5 4 4 5 5 5 6 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 </td <td>n brown, stiff, moist,</td> <td></td>	n brown, stiff, moist,	
-	5				<u> <u> </u></u>			
-26			wet	ML		SILT, (5YR 6/1) gray, soft, wet, no odor consistent with UNDno.	, no staining. Soils	
-27								
	low surface adow mat	grade		omite ore proc n grey mud	essing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu osits <u>CCPW - chro</u>	factured gas plant omate chemical production was



Boring ID: NFS-PDI-U12B

Project						Drilling Company: SGS North America		
	t Number:					Drilling Method: Direct Push		NAD83) x: 611611.9
				7:35:00 AM		Rig Type:		NAD83) y: 683707.1
Date Fi	inished Dr	illing:	8/30/2016	8:35:00 AM		Core Size: 3.0 in	Boring Total Depth:	20 ft
.ogged	d By: TI					Project Manager: Scott Mikaelian	Depth to Water: 10).5
hysic	al Locatio	n: Act	ual - Forres	st St Properti	es - PDI		Surface Elevation:	17.2 ft NAVD88
Depth Range	Recovery		Moisture Content	USCS	Graphi Log		ness:	Sample
t bgs)		0.0		FILL		coarse GRAVEL, (5Y 5/1) gray, loose, di	n na adar na	
_	-	0.0	dry			staining.	ry, no odor, no	
-1 - -2	-		dry	FILL		fine to medium SAND, some fine to coar 3/2) dark brown, loose, dry, no odor, no		NFS-PDI-U12B-0.5-1.0
-3	5							NFS-PDI-U12B-2.0-2.5
_	-		moist	FILL		Silty fine sand, little fill debris, (5YR 4/3) medium dense, moist, no odor, no staini		
-4 -5]	0.0						NFS-PDI-U12B-4.0-4.5
-6	{							NFS-PDI-U12B-6.0-6.5
	5							
-8	-							NFS-PDI-U12B-8.0-8.5
-9			moist to wet	FILL		fine to coarse SAND, little silt, trace fill d dark brown, medium dense, moist to wel staining, water at 10.5 feet.		-
-10 -11	-	0.0						NFS-PDI-U12B-10.0-10.5
-12 -13	5		wet	FILL		CINDERS, (5Y 2.5/1) black, loose, wet, odor, product soaked.	strong MGP-like	NFS-PDI-U12B-12.0-12.5
-14	-							NFS-PDI-U12B-14.0-14.5
-15	-	15.4						
-16	1				\otimes	X		
						8		NFS-PDI-U12B-16.0-16.5
-17	4.5		dry	PT		30% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, strong organic odor, no	brown (7.5YR 4/2)	NFS-PDI-U12B-16.5-17.0
-18	-		moist	ML		Organic SILT, 10% organic fibers, 90% (5/1) gray, soft, moist, slight organic odor	organic silt, (5YR , no staining. Soils	-
-19	-					consistent with UNDorg.		_
-20				NR		NO RECOVERY		
otes:								
qs - be	low surface eadow mat	grade	COPR - chr GGM - gree	omite ore proc n arev mud	essing r	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - man osits CCPW - ch	ufactured gas plant romate chemical production wa



Boring ID: NFS-PDI-U13B

	t Name: F					Drilling Company: SGS North America		A DOO) 04 1000 0
	t Number:					Drilling Method: Direct Push	Coordinates (NJSPN	
				9:05:00 AM		Rig Type:	Coordinates (NJSPN	
			8/30/2016	<u>5 11:00:00 Al</u>		Core Size: 3.0 in	Boring Total Depth:	
	d By: Eric			st St Properti		Project Manager: Scott Mikaelian	Depth to Water: 12 Surface Elevation:	
nysic	al Locatio	n: Act	ual - Forres	st St Properti	es - PDI		Surface Elevation:	18.1 TT NAVD88
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		1.3	dry	FILL		fine to medium SAND, little roots, little g		NFS-PDI-U13B-0.0-0.5
-1			dry	FILL		gray, medium dense, dry, no odor, no sta ASPHALT MILLINGS, (5YR 2.5/1) black staining.	aining. ., dry, no odor, no	
-2	5		dry	FILL		fine to medium SAND, some fill debris, (medium dense, dry, no odor, no staining		NFS-PDI-U13B-2.0-2.5
-3			dry	FILL		Concrete debris, dry, no odor, no stainin	g.	
-4			dry	FILL		fine to medium SAND, some fine to med brick, (5YR 4/4) reddish brown, medium no staining.		NFS-PDI-U13B-4.0-4.5
-5 -6		2.4	dry	FILL		fine to medium SAND, some fill debris, (medium dense, dry, no odor, no staining		
-0 _7	5							NFS-PDI-U13B-6.0-6.5
-8	-		da (FILL		Concrete debrie, dry no oder, groon stei	ning	NFS-PDI-U13B-8.0-8.5
-9	-		dry	FILL		Concrete debris, dry, no odor, green stai	ning.	
-10 11 -	-	3.7	dry	FILL		fine SAND, some fine gravel, trace orgar light brown, medium dense, dry, no odor		NFS-PDI-U13B-10.0-10.5
-12	5		wet	FILL		ASH, (9.5/10YR_/1) white, soft, wet, no water at 12.0 feet.	odor, no staining,	NFS-PDI-U13B-12.0-12.5
-13	-		wet	FILL		CINDERS, some silt, (5YR 2.5/1) black, MGP-like odor and staining.	loose, wet, slight	
-14	-					×		NFS-PDI-U13B-14.0-14.5
-15			wet	FILL		SILT, little wood, (5Y 2.5/1) black, soft, v	vet, moderate	
_		9.6	wet	FILL		MGP-like odor, product soaked. fine silty SAND, some fine gravel, little w reddish brown, medium dense, wet, sligh	rood, (5YR 4/4) ht MGP-like odor,	
-16 -17						product staining.		NFS-PDI-U13B-16.0-16.5
-18	5					8		NFS-PDI-U13B-18.0-18.5
_	-					8		NFS-PDI-U13B-18.5-19.0
-19	-		dry	PT		0 EAT (degraded vegetated material), 70		NFS-PDI-U13B-19.0-19.5
-20						slight MGP like odor and staining. Soils o	consistent with MM.	
	low surface eadow mat		COPR - chr GGM - gree		 cessing r	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo		factured gas plant omate chemical production wa



Boring ID: NFS-PDI-U14B

Date Sta Date Fin Logged Physica	Number: arted Dril nished Dr	ling: 🛛				Drilling Method: Direct Push	Coordinates (NJSPN	- UIIU34.4
Date Fir .ogged Physica	nished Dr			10·30·00 AM		Rig Type:	Coordinatos (N ISPN/	AD83) y: 683752.9
ogged. hysica		illina				Core Size: 3.0 in	Boring Total Depth:	
hysica	BV K V/V		0/01/2010	0.00 A		Project Manager: Scott Mikaelian	Depth to Water: 12	21 11
Jonth			ual - Forre	st St Properti			Surface Elevation:	
Depth				St St Fluperti			Surface Elevation.	19.70 IL NAVD00
Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		0.0		FILL	XXXX	DGA	_	NFS-PDI-U14B-0.2-0.7
-			dry	FILL		fine to medium SAND, trace fine to medi		NI 64 DI-014D-0.2-0.7
-1			dry	FILL		6/3) light brown, loose, dry, no odor, no s ASPHALT MILLINGS, (5YR 2.5/1) black odor, no staining.	staining, loose, dry, no	
-3	5		dry to moist	FILL		fine to medium silty SAND, little fill debris brown, dense, dry to moist, no odor, no s		NFS-PDI-U14B-2.0-2.5
-5								NFS-PDI-U14B-4.0-4.5
		0.0	moist	FILL		fine to coarse SAND, some fill debris, (7 brown, dense, moist, no odor, no staining		
-7	3.5							NFS-PDI-U14B-6.0-6.5
-8								NFS-PDI-U14B-8.0-8.5
-9				NR		No Recovery		
-10		0.0	dry	FILL		fine to medium SAND, little fine gravel, (7.5YR 6/3) light	NFS-PDI-U14B-10.0-10.5
-11			moist to wet	FILL		fine to coarse SAND, some fine to mediu fragments, (7.5YR 3/3) dark brown, med wet, no odor, no staining, water at 12.0 f	ium dense, moist to	
-12 -13 -13	4.5						-	NFS-PDI-U14B-12.0-12.5
-14				NR		No Recovery		NFS-PDI-U14B-14.0-14.5
-1 5 —		0.0	wet	FILL		fine to medium SAND, little fine to coarse fragments, (5YR 4/4) reddish brown, me		
-16 -17						saturated, no odor, no staining.		NFS-PDI-U14B-16.0-16.5
-18	5						-	NFS-PDI-U14B-18.0-18.5
-19						X		
-20						X		
_	1	0.0				X		NFS-PDI-U14B-20.0-20.5
-21								
otes: gs - belo	ow surface adow mat	grade	COPR - chr GGM - gree	omite ore proc	essing re	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	leposits MGP - manuf	actured gas plant mate chemical production wa



Boring ID: NFS-PDI-U15B

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSP	NAD83) x: _611648.7
				1:00:00 AM		Rig Type:	Coordinates (NJSPN	
		illing:	9/2/2016	12:00:00 PM		Core Size: 3.0 in	Boring Total Depth:	15 ft
	d By: ES					Project Manager: Scott Mikaelian	Depth to Water: 8	
hysic	al Locatio	n: Act	ual - Forre	st St Propertie	<u>s - PDI</u>	1	Surface Elevation:	22.05 ft NAVD88
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		0.0		ASPHALT	~~~~	ASPHALT		
-1	4.5		moist	FILL		fine to coarse SAND, little silt and coarse (7.5YR 3/2) dark brown, loose, moist, no	e gravel, trace brick, o odor, no staining.	NFS-PDI-U15B-0.3-0.8
4						X		
						8		NFS-PDI-U15B-4.0-4.5
5				NR		NO RECOVERY		
5		0.0	moist	FILL	\otimes	fine SAND, some silt, little coarse gravel		
6 7	3.5		to wet			brown, medium dense, moist to wet, no o water at 8.0 feet.	odor no staining,	NFS-PDI-U15B-6.0-6.5
8—	-					×		NFS-PDI-U15B-8.0-8.5
	-				\bowtie			
·9 	-			NR		NO RECOVERY		
 11	-	0.0	wet	FILL		fine SAND, some silt, little coarse gravel, brown, medium dense, wet, no odor, no		NFS-PDI-U15B-10.0-10.5
12— — 13—	4.5							NFS-PDI-U15B-12.0-12.5
14—	-					8		NFS-PDI-U15B-14.0-14.5
_	1			NR	XXXX	NO RECOVERY, Refusal at 15.0 feet		-
Л - me	eadow mat	0	GGM - gree	n grey mud	0	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo If thick 3) No COPR or GGM present in any interval of this boring.	leposits MGP - manı ssits CCPW - chr	ufactured gas plant romate chemical production wa



Boring ID: NFS-PDI-U15BR

	t Name: F					Drilling Company: SGS North America	Coordinates (11/07)	A D02) W. 044050 5
	t Number:			0.20.00 DN 4		Drilling Method: sonic rig Rig Type:	Coordinates (NJSP Coordinates (NJSPN	NAD83) x: 611650.5
				2:30:00 PM		Core Size: 3.0 in		
	d By: E. A		211/2017	10:35:00 AM		Project Manager: Scott Mikaelian	Boring Total Depth: Depth to Water: 16	
			ual - Forror	t St Droporti		plemental PDI	Surface Elevation:	
	al Lucaliu				<u>es - Sup</u>		Surface Elevation.	22.0 IL NAVD00
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thick	ness:	Sample ID
1 _2 _3		0.0	dry	FILL		fine to coarse SAND, some fine to coars 2.5/1) black, medium dense, dry, no odd	e gravel, (7.5YR r, no staining.	
-4 -5	. 8		dry	FILL		fine to medium SAND, trace silt and fill obrown, medium dense, dry, no odor, no		
-6 -7			moist	FILL		fine SAND, some silt and fine to medium brown, loose, moist, no odor, no staining		
-8 -9	. 10	0.0	dry	FILL		BOULDERS, trace cobbles, medium to o silt, (5Y 5/1) gray, dense, dry, no odor, r 16.0 feet.	io staining, water at	
23 24		0.0	moist moist	FILL PT			ng. % organic fibers.	NFS-PDI-U15BR-23.5-24.0 NFS-PDI-U15BR-24.0-24.5
_25	. 5					10% organic silt, (5YR 3/3) dark reddish slight organic odor, no staining. Soils co	brown, soft, moist,	
-27 -28			moist	OL		organic SILT, (2.5Y 5/1) gray, medium s no staining. Soils consistent with UNDor	tiff, moist, no odor, g.	
VĪM - me	low surface eadow mat	-	GGM - gree	n grey mud		esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu osits CCPW - chr	/ ufactured gas plant omate chemical production wa



Boring ID: NFS-PDI-V12B

roject			1720			Drilling Method: Direct Duck	Coordinates (NUCD)	AD02) VI 644607 5
	t Number:			7.20.00 ^**		Drilling Method: Direct Push	Coordinates (NJSPN	AD83) x: 611637.5
				7:30:00 AM		Core Size: 3.0 in	· · · · ·	
				9:00:00 AM			Boring Total Depth:	20 11
	d By: Eric					Project Manager: Scott Mikaelian	Depth to Water: 9	
nysic	al Locatio	n: Act	ual - Forres	st St Propertie	es - PDI	1	Surface Elevation:	14.3 ft NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickr	iess:	Sample ID
		1.0	dry	FILL		medium to coarse GRAVEL, (5Y 5/1) gra	v. loose. drv. no	
_			dry	FILL		odor, no staining.		NFS-PDI-V12B-0.4-0.9
-1	-		dry	FILL		fine to medium SAND, some asphalt, little		
-2			ary			 4/4) reddish brown, medium dense, dry, r staining. ASPHALT MILLINGS, (5Y 2.5/1) black, long staining. 		NFS-PDI-V12B-2.0-2.5
-3 -4	. 5		dry	FILL		fine to medium SAND, some fill debris, (7 medium dense, dry, no odor, no staining.	7.5YR 4/3) brown,	NFS-PDI-V12B-4.0-4.5
_	-							
5			dry	FILL		Concrete debris, dry, no odor, no staining	·	
		1.6	dry	FILL		fine to medium SAND, some ash slag, (5 brown, medium dense, dry, no odor, no s	YR 4/4) reddish taining.	
-6 			dry	FILL		fine to medium SAND, some fine gravel, (7.5YR 4/3) brown, medium dense, dry, r		NFS-PDI-V12B-6.0-6.5
/	5		wet	FILL		CINDERS, some fine to medium sand, (5 loose, wet, moderate MGP-like odor and 9.0 feet.		
8 9 -								NFS-PDI-V12B-8.0-8.5
10 		19.5	wet	FILL		CINDERS, (5YR 2.5/1) black, loose, wet, MGP-like odor, product soaked.	moderate	NFS-PDI-V12B-10.0-10.5
12— — 13— —	. 5							NFS-PDI-V12B-12.0-12.5
14 _								NFS-PDI-V12B-14.0-14.5
15		9.5				Å		NFS-PDI-V12B-15.0-15.5
			dry	PT			brown, stiff, dry,	NFS-PDI-V12B-15.5-16.0
— 17— — 18—	5		wet	SM		SILT, trace organics, (7.5YR 6/4) light brood of the staining. Soils consistent with Ul	own, soft, wet, no	
_ 19—			wet	SP		fine to coarse SAND, some fine to mediu reddish brown, medium dense, wet, no o		
						Soils consistent with UNDno.	-	
	low surface adow mat		COPR - chr GGM - gree		essing r	esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo		I Ifactured gas plant omate chemical production w



Boring ID: NFS-PDI-V13B

	Name: F Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSD	VAD83) x: 611648.5
				9:30:00 AM		Rig Type:	Coordinates (NJSPN	
				511:00:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	By: ES	innig.	0/20/2010	/ 11.00.00 An		Project Manager: Scott Mikaelian	Depth to Water: 8	2011
		n: Act	ual - Forres	st St Propertie			Surface Elevation:	15 29 ft NA\/D88
	ai Ecoutio				1		editade Eletationi	
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickn	ess:	Sample ID
-1		0.0		FILL		ASPHALT MILLINGS, no odor, no stainin	g.	NFS-PDI-V13B-0.0-0.5
2 	5		dry	FILL		fine to medium SAND, some fill debris, (7 medium dense, dry, no odor, no staining.	7.5YR 4/2) brown,	NFS-PDI-V13B-2.0-2.5
-			dry	FILL	×	fine to medium SAND, little ash slag nodu	lles trace fine	-
5-		0.0		FILL	IXXX	gravel, (5YR 4/3) reddish brown, medium		-
6	4	0.0	dry	FILL		\odor, no staining. fine to medium SAND, little cinders, (7.5\ medium dense, dry, no odor, no staining.	- /	NFS-PDI-V13B-6.0-6.5
-	4		wet	FILL		CINDERS, little ash, (7.5YR 2.5/1) black,	loose, wet, no	-
8						odor, no staining, water at 8.0 feet.		NFS-PDI-V13B-8.0-8.5
9				NR		NO RECOVERY		-
0		0.0	wet	FILL		CINDERS, (7.5YR 2.5/1) black, loose, we staining.	et, no odor, no	NFS-PDI-V13B-10.0-10.5
'' 2			wet	FILL		fine silty SAND, little fine gravel, (5YR 5/3 medium dense, wet, no odor, no staining.		
13	4.5							NFS-PDI-V13B-12.0-12.5
4				NR		NO RECOVERY		NFS-PDI-V13B-14.0-14.5
15-		0.0					C(2) light reduich	NFS-PDI-V13B-15.0-15.5
4		0.0	wet	FILL		SILT, little organic fibers, trace ash, (5YR brown, soft, wet, no odor, no staining.		NFS-PDI-V13B-15.5-16.0
6			dry	PT		PEAT (degraded vegetated material) 80%	prown, stiff, dry,	-
17			moist	OL	<u>⊢</u> — -	Organic SILT, 80% organic silt, 20% orga	nic fibers, (7.5YR	-
8	5		wet	SM		 3/2) dark brown, soft, moist, slight organic Soils consistent with UNDorg. fine silty SAND, (5Y 5/1) gray, medium de 	c odor, no staining.	
 19			wet	SP		no staining. Soils consistent with UNDno. fine to coarse SAND, little fine to medium reddish brown, dense, wet, no odor, no st	gravel, (5YR 5/3)	-
 20						consistent with UNDno.		
tes: s - bel	ow surface adow mat	grade	COPR - chro GGM - gree	omite ore proc	essing re	esidue UNDno - non-organic undisturbed native do UNDrog - organic undisturbed native depos	eposits MGP - man	L ufactured gas plant romate chemical production w



Boring ID: NFS-PDI-V14BR

roject						Drilling Company: SGS North America	· · · · · · · · · · · · · · · · · · ·	
	t Number:					Drilling Method: Sonic Drill	Coordinates (NJSPN	
				10:40:00 AN		Rig Type:	Coordinates (NJSPN/	
			11/14/201	l6 12:55:00 P		Core Size: 3.0 in	Boring Total Depth:	18 ft
	By: Kyle					Project Manager: Scott Mikaelian	Depth to Water: NA	
hysic	al Locatio	n: Act	ual - Forre	st St Propertie	s - Sup	plemental PDI	Surface Elevation:	8.219 ft NAVD88
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		1.5		ASPHALT		ASPHALT		
-1 -2			dry to moist	FILL		fine to coarse SAND, little silt, fill debris, black, medium dense, dry to moist, no or		
. –				FILL		BOULDER, (5YR 2.5/1) black, no stainir	ıg.	
-3	_		moist	FILL		SILT, little fill debris, (5YR 2.5/1) black, f no staining.	firm, moist, no odor,	
-4	. 5			FILL		BOULDER, (5YR 6/1) gray, no staining.		
-5 -6 -7				NR	~~~~	NO RECOVERY		
-8 -8 -9		0.0	moist	FILL		fine to coarse GRAVEL, (5YR 6/1) gray, moist, no odor, no staining.	medium dense,	
 10 11 -	4			FILL		BOULDER, (5YR 4/1) dark gray, no stain	ning.	
12				NR	KXXXXX	NO RECOVERY		
13— — 14— —		0.0	moist to wet	FILL		SILT, some fine to coarse gravel, (7.5YR to wet, no odor, no staining, water at 16.		NFS-PDI-V14BR-13.0-13.5
15 <u></u>	5							NFS-PDI-V14BR-15.0-15.5
16					\bigotimes	X	-	NFS-PDI-V14BR-16.0-16.5
 17 18			moist	PT		40% organic silt, (5YR 2.5/1) black, mois	st. slight organic	NFS-PDI-V14BR-16.5-17.0
-								
o tes: s - bel VI - me		grade	COPR - chr GGM - gree	omite ore proc	essing re	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - manuf	actured gas plant mate chemical production wa



Boring ID: NFS-PDI-V15B

	Name: F					Drilling Company: SGS North America Drilling Method: Direct Push Coordinates (NJSP)		NAD83) x 611675 5	
				1:00:00 AM		Rig Type: Coordinates (NJSP) Core Size: 3.0 in Project Manager: Scott Mikaelian Depth to Water: 12			
				12:00:00 PM					
	By: ES	g.	0/ 1/2010	12.00.001111					
		n Act	ual - Forres	st St Propertie			Surface Elevation:		
-		7.00					Currace Elevation		
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID	
		0.0		ASPHALT	XXXX	ASPHALT		NFS-PDI-V15B-0.2-0.7	
-1			dry	FILL		ASPHALT MILLINGS, (5YR 2.5/1) black dry, no odor, no staining.	k, medium dense,		
-2	_		dry	FILL	\boxtimes	fine to medium SAND, little ash, trace co	oal, (5YR 3/3) dark	NFS-PDI-V15B-2.0-2.5	
-3 -3	5	0.0	dry	FILL		reddish brown, medium dense, dry, no odor, no staining. fine to medium SAND, some fine to medium gravel, (5YR 6/3) light reddish brown, medium dense, dry, no odor, no staining. fine to medium SAND, some fine to medium gravel, trace			
-5			moist	FILL			NFS-PDI-V15B-4.0-4.5		
-6	3.5	0.0	moist F1				silt, (5YR 4/4) reddish brown, medium dense, moist, no		
-7 -7 -8								NFS-PDI-V15B-6.0-6.5	
_					\bowtie			NF3-FDI-V13B-0.0-0.3	
-9				NR		NO RECOVERY			
-10 -11 12	4.5	0.0	wet FILL	FILL	L	fine SAND, little silt and cobbles, (5YR 4/4) reddish brown, dense, wet, no odor, no staining, water at 12.0 feet.	NFS-PDI-V15B-10.0-10.5		
-12 -13 -								NFS-PDI-V15B-12.0-12.5	
-14						8		NFS-PDI-V15B-14.0-14.5	
				NR		Refusal at 14.5 feet			
otes: gs - bel M - me mments:	adow mat	-	COPR - chr GGM - gree	omite ore proc	essing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native depo	deposits MGP - manu osits CCPW - chr	factured gas plant omate chemical production wa	



Boring ID: NFS-PDI-V15BR

Date Finish Logged By: Physical Lc Physical Lc Opepth Rec Image Image Image	8	ing: 2 Iling: cs	2/7/2017 10 2/7/2017 2	0:55:00 AM 2:35:00 PM ot St Propertie USCS FILL FILL FILL	F C F	fine SAND, trace silt and fill debris, (5YF brown, medium dense, dry, no odor, no s fine to coarse SAND, trace fine to coarse black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	R 2.5/2) dark reddish staining. e gravel, (5YR 2.5/1) taining.	D83) y: 683768.5 28 ft
Pate Finish ogged By: hysical Lc pepth Rec (fi -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -12 -12 -12 -12 -12 -12	hed Dri : E. A ocatior covery ft/ft) 8	Illing: cs n: Act PID (ppm) 0.0	2/7/2017 2 ual - Forres Moisture Content dry dry	2:35:00 PM at St Properti USCS FILL FILL	C F es - Supp Graphic	Core Size: 3.0 in Project Manager: Scott Mikaelian lemental PDI Surface Cover and Thick fine SAND, trace silt and fill debris, (5YF brown, medium dense, dry, no odor, no s fine to coarse SAND, trace fine to coarse black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	Boring Total Depth: 2 Depth to Water: 22.5 Surface Elevation: 2 ness: R 2.5/2) dark reddish staining. e gravel, (5YR 2.5/1) taining.	28 ft 5 1.3 ft NAVD88 Sample
ogged By: hysical Lc pepth Rec -1 - -1 - -1 - -1 - -2 - -3 - -4 - -5 - -6 - -7 - -8 - -9 - -10 - -11 - -12 -	r: E. Ar ocation covery ft/ft) 8	r: Act PID (ppm) 0.0	ual - Forres Moisture Content dry dry	USCS FILL FILL	Fes - Supp Graphic	Project Manager: Scott Mikaelian lemental PDI Surface Cover and Thick fine SAND, trace silt and fill debris, (5YF brown, medium dense, dry, no odor, no s fine to coarse SAND, trace fine to coarse black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	Depth to Water: 22.5 Surface Elevation: 2 ness: 2 R 2.5/2) dark reddish staining. 2 e gravel, (5YR 2.5/1) taining. 2 to coarse gravel, 2	5 1.3 ft NAVD88 Sample
hysical Lc pepth ange bgs) Rec (ff -1 - -2 - -3 - -4 - -5 - -6 - -7 - -6 - -7 - -6 - -10 - -11 - -12 -	8	PID (ppm) 0.0	Moisture Content dry dry	USCS FILL FILL	es - Supp Graphic	Surface Cover and Thick fine SAND, trace silt and fill debris, (5YF brown, medium dense, dry, no odor, no s fine to coarse SAND, trace fine to coarse black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	Surface Elevation: 2 ness: R 2.5/2) dark reddish staining. e gravel, (5YR 2.5/1) taining. to coarse gravel,	1.3 ft NAVD88 Sample
-epth ange bgs) -1 -1 -2 -3 -3 4 	8	PID (ppm) 0.0	Moisture Content dry dry	USCS FILL FILL	Graphic	Surface Cover and Thick fine SAND, trace silt and fill debris, (5YF brown, medium dense, dry, no odor, no s fine to coarse SAND, trace fine to coarse black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	ness: R 2.5/2) dark reddish staining. e gravel, (5YR 2.5/1) taining.	Sample
ange (ff -1	8 8	(ppm) 0.0	Content dry dry	FILL		fine SAND, trace silt and fill debris, (5YF brown, medium dense, dry, no odor, no s fine to coarse SAND, trace fine to coarse black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	R 2.5/2) dark reddish staining. e gravel, (5YR 2.5/1) taining.	
-4 4 5 			dry	FILL		fine to coarse SAND, trace fine to coarse black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	e gravel, (5YR 2.5/1) taining.	
-4 		0.0				black, medium dense, dry, no odor, no s fine to medium SAND, trace silt and fine	taining.	
-4 		0.0	dry	FILL				
10	_			FILL		fine to medium SAND, trace silt and fine to coarse gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.		
	5		dry FILL			BOULDER, trace cobbles and medium to coarse gravel, (5Y 5/1) gray, dense, dry, no odor, no staining.		
16 17	5	0.0						
18 20 21 22 	5	0.0						
23			moist	FILL	<u>kxxx</u>	SILT, trace fine sand and fine to medium		NFS-PDI-V15BR-22.5-23.0
 24 25	5	0.0	moist	PT		dark brown, soft, moist, no odor, no stair feet. PEAT (degraded vegetated material), 80 20% organic silt, (5YR 3/3) dark reddish slight organic odor, no staining. Soils con	% organic fibers, brown, soft, moist,	NFS-PDI-V15BR-23.0-23.5
26 			moist	OL		organic SILT, (5Y 5/1) gray, medium stif staining. Soils consistent with UNDorg.	f, moist, no odor, no	
-								
otes:	urfoc -	arode		omito ora	oooine		doposito MOD	natural and plant
gs - below s M - meadow	surrace (grade	COPR - chro GGM - gree	ornite ore proc	essing res	sidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	ueposits MGP - manufa	actured gas plant mate chemical production wa



Boring ID: NFS-PDI-W12BR

Page: 1

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NISDA	IAD83) x: 611663.271
				8:50:00 AM		Rig Type:		AD83) y: 683673.419
				6 9:30:00 AN		Core Size: 3.0 in	Boring Total Depth:	
	d By: ES					Project Manager: Scott Mikaelian	Depth to Water: 5	
		n: Act	ual - Forres	st St Properti			Surface Elevation:	11.38 ft NAVD88
Depth Range ft bgs)	Recovery	PID (ppm)	Moisture	USCS	Graphi Log			Sample ID
		1.5	dry	FILL		fine to coarse SAND, some fine to mediu debris, (7.5YR 4/2) brown, medium dens staining.	um gravel, little fill se, dry, no odor, no	
-3 -4			dry to moist	FILL		fine to medium SAND, little ash, trace cir dark brown, medium dense, dry to moist odor, no staining.		
_5 _6 _7	4	24.0	wet	FILL		CINDERS, (7.5YR 2.5/1) black, loose, w MGP-like odor, no staining, sheen, water		NFS-PDI-W12BR-6.0-6.5
-8 -9 -10	-			NR		NO RECOVERY		NFS-PDI-W12BR-8.0-8.5
10		2.0	wet	FILL		CINDERS, (5Y 2.5/1) black, loose, wet,	moderate MGP-like	
11 -12	5		wet	FILL		odor, no staining, sheen. fine silty SAND, little fine gravel, concret (7.5YR 6/3) light brown, medium dense, staining.		NFS-PDI-W12BR-12.0-12.5
-13 -14			wet	SP		fine to coarse SAND, some fine to mediu reddish brown, medium dense, wet, no c Soils consistent with UNDno.	ım gravel, (5YR 4/4) dor, no staining.	NFS-PDI-W12BR-14.0-14.5
-15	-	0.0						
-16 -17	5							NFS-PDI-W12BR-16.0-16.5
-18 -19								NFS-PDI-W12BR-18.0-18.5
-20 -21	. 1	0.0						NFS-PDI-W12BR-20.0-20.5
/ĪM - me	eadow mat	-	GGM - gree	n grey mud	-	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo I ft thick 3) No COPR or GGM present in any interval of this boring.	leposits MGP - manu sits CCPW - chro	factured gas plant omate chemical production wa



Boring ID: NFS-PDI-W13B

	Name: F					Drilling Company: SGS North America		
	Number:					Drilling Method: Direct Push	Coordinates (NJSPN	
				9:50:00 AM		Rig Type:	Coordinates (NJSPN	
Date Fi	inished Dr	illing:	8/26/2016	6 10:50:00 AM	Ν	Core Size: 3.0 in	Boring Total Depth:	15 ft
	By: Eric					Project Manager: Scott Mikaelian	Depth to Water: 6.5	
				st St Propertie			Surface Elevation:	
-							Currado Elovationi	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickr	ness:	Sample ID
_		0.0		FILL		ASPHALT MILLINGS, some fine gravel, staining.	no odor, no	NFS-PDI-W13B-0.2-0.7
-1 -2			dry	FILL		fine to medium SAND, some fine gravel, brown, medium dense, dry, no odor, no s		NFS-PDI-W13B-1.0-1.5
-3	5			FILL		Concrete debris, no odor, no staining.		
-4			dry to sl. moist	FILL		fine to medium SAND, trace coal, (5YR 4 medium dense, dry to slightly moist, no o		NFS-PDI-W13B-3.0-3.5
-5— — -6—		0.0	slightly moist	FILL		fine to coarse SAND, some medium grav (7.5YR 3/3) dark brown, medium dense, odor, no staining.	slightly moist, no	NFS-PDI-W13B-5.0-5.5
-7	5		wet	FILL		fine to medium silty SAND, little fine grav brown, medium dense, wet, no odor, no s 6.5 feet.	rel, (7.5YR 4/3) staining, water at	NFS-PDI-W13B-7.0-7.5
-8			wet	FILL		Tar-like material, (5YR 2.5/1) black, med staining, slight tar-like odor.	ium stiff, wet, no	
-9			wet	FILL		fine to medium silty SAND, some fine gra reddish brown, medium dense, wet, no o		
-10		1.2	wet	FILL		fine silty SAND, some fine gravel, trace a		NFS-PDI-W13B-9.0-9.5
-11						reddish brown, medium dense, wet, no o	dor, no staining.	NFS-PDI-W13B-11.0-11.5
_								NFS-PDI-W13B-11.5-12.0
-12	4.5		dry	PT		PEAT (degraded vegetated material), 809	% organic fibers.	NFS-PDI-W13B-12.0-12.5
-13 -13 -14	4.5		wet	SM		20% organic silt, (5YR 3/3) dark reddish slight organic odor, no staining. Soils con fine silty SAND, trace organic fibers, (7.5 brown, medium dense, wet, no odor, no s consistent with UNDno.	brown, stiff, dry, sistent with MM. SYR 6/3) light	NFS-PDI-W13B-12.5-13.0
				NR		NO RECOVERY		
M - me	eadow mat	0	GGM - gree	n grey mud		esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo ft thick 3) No COPR or GGM present in any interval of this boring.	leposits MGP - manu sits CCPW - chro	factured gas plant omate chemical production wa



Boring ID: NFS-PDI-W14B

Page: 1

Project Project	Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	IAD83) x: 611688.8
				7:30:00 AM		Rig Type:	Coordinates (NJSPN	
				9:05:00 AN		Core Size: 3.0 in	Boring Total Depth:	
	By: KW					Project Manager: Scott Mikaelian	Depth to Water: 7	
hysic	al Locatio	n: Act	ual - Forres	st St Properti	<u>es - PDI</u>	· · · · · · · · · · · · · · · · · · ·	Surface Elevation:	17.06 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
		0.0	dry	FILL		fine to medium SAND, some silt and fine trace fill debris, (7.5YR 3/3) dark brown, no staining.		
-2	3.5		dry to moist	FILL		silty SAND, little fine to medium gravel a 4/3) reddish brown, loose, dry to moist, r		
-3			moist	FILL		sandy SILT, trace fine to medium gravel	and fill debris, (5YR	
				NR		4/4) reddish brown, loose, moist, no odo No Recovery	r, no staining.	
-5 -6 -7	2.5	0.0	moist to wet	FILL		SILT, some fine to coarse gravel, little fir reddish brown, medium dense, moist to staining, water at 7.0 feet.	ne sand, (5YR 4/4) wet, no odor, no	
 	2.5			NR		No Recovery		
-10 -11 -12 -13 -	5	0.0	wet	FILL		SILT, some fine to coarse gravel, little fir reddish brown, medium dense, wet, no o		
-14								NFS-PDI-W14B-14.0-14.5
-15		0.0	wet	FILL		SILT, some fine to coarse gravel, little fir reddish brown, medium dense, wet, no c		NFS-PDI-W14B-15.5-16.0
-16			moist	OL		Organic SILT, 80% organic silt 20% orga	anic fibers, (7.5YR	NFS-PDI-W14B-16.0-16.5
	3.5		moist	ML		2.5/1) black, dense, moist, slight organic Soils consistent with UNDorg. SILT, trace organics, (5YR 4/3) reddish	brown, dense, moist,	
	0.0		moist	SW			n gravel, (5YR 4/3)	
				NR		Soils consistent with UNDno. No Recovery		
ĬM - me	adow mat	•	GGM - gree	n grey mud		sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native depu t thick 3) No COPR or GGM present in any interval of this boring.	deposits MGP - manu osits CCPW - chr	factured gas plant omate chemical production wa



Boring ID: NFS-PDI-W15B

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (N.ISP	NAD83) x: 611702.3
				8:45:00 AM		Rig Type:	Coordinates (NJSPN	
				6 9:40:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	d By: KW					Project Manager: Scott Mikaelian	Depth to Water: 7	
			ual - Forres	st St Propertie			Surface Elevation:	
-							Currace Elevation.	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickr	ness:	Sample ID
		0.0	dry	ASPHALT	$\times\!\!\times\!\!\times\!\!\times$	ASPHALT		NFS-PDI-W15B-0.2-0.7
			-	FILL		ASPHALT MILLINGS, (5YR 2.5/1) black	, loose, dry, no 🖉 🖉	-
-1	1		dry to	FILL	\boxtimes	 A odor, no staining. fine to medium SAND, little medium to compare the staining. 		
_	-		moist		\boxtimes	fill debris, (5YR 4/4) reddish brown, medi		
-2	-					moist, no odor, no staining.		NFS-PDI-W15B-2.0-2.5
_	5				\bigotimes			NFS-PDI-W15B-2.0-2.5
					\boxtimes	×		
-3						8		
	-				\boxtimes	8		
-4	-					8		NFS-PDI-W15B-4.0-4.5
_					\boxtimes	×		NFS-PDI-W 15B-4.0-4.5
_					\boxtimes	×		
-5		0.0	moist	FILL	\bigotimes	fine to coarse SAND, some medium to co	oarse gravel, little fill	1
_	-		to		\bigotimes	debris, (5YR 4/4) reddish brown, dense,		
-6	-		wet		\boxtimes	odor, no staining, water at 7.0 feet.		NFS-PDI-W15B-6.0-6.5
_						×		NFS-PDI-W 15B-0.0-0.5
_					\boxtimes	8		
-/	1					8		
_	3.5				\boxtimes	×		
-8	-				\boxtimes	×		NFS-PDI-W15B-8.0-8.5
					\boxtimes	<		NI 3-F DFW 13D-0.0-0.3
0				NR		No Recovery		
-9	1							
	1							
-10		0.0	wet	FILL	∞	fine to espres CAND, some ashblas, little	roals frogmonto	NFS-PDI-W15B-10.0-10.5
_	-	0.0	wet	FILL		fine to coarse SAND, some cobbles, little (5YR 4/3) reddish brown, medium dense	wet no odor no	
-11					\boxtimes	staining.	,,,	
						8 č		
_	1				\boxtimes	X		
-12	1				\boxtimes	X		NFS-PDI-W15B-12.0-12.5
_	4.5				\boxtimes	×		
-13	-				\bigotimes	×		
_					\boxtimes	×		
					\boxtimes	×		
-14	1				\boxtimes	X		NFS-PDI-W15B-14.0-14.5
	1			NR	1××××	No Recovery		1
-15		0.0	wet	FILL		sandy SILT, trace rock fragments, (5YR	1/1) roddiab brawn	-
_	4	0.0	wei	FILL	\bigotimes	loose, wet, no odor, no staining.		
-16	1							
10					\bigotimes	8		NFS-PDI-W15B-16.0-16.5
. –]				\bigotimes	×		
-17	1_				\bigotimes	Å		
_	5				\bigotimes	Ř		
-18	4					×		NFS-PDI-W15B-18.0-18.5
	1					×		INFO-FUI-W 10B-10.0-18.5
10						X		
-19	1				\bigotimes	×		
_	1				\bigotimes	X		
-20		0.0			\bigotimes	×		NFS-PDI-W15B-20.0-20.5
	1	0.0				8		
-21					\boxtimes	×		
<u>-</u> 1								
otes:	1	1		i				I
	low surface	grade	COPR - chr	omite ore proc n grey mud	essing r	esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - manu	ufactured gas plant romate chemical production wa
NA	eadow mat							



Boring ID: NFS-PDI-W16B

Project Number: 60240739 Date Started Drilling: 9/2/2016 9:45:00 AM Date Finished Drilling: 9/2/2016 10:45:00 A .ogged By: ES Physical Location: Actual - Forrest St Proper Depth Range (ft/ft) Recovery (ft/ft) PID (ppm) Moisture Content USCS -1 0.0 dry FILL -2 3.5 0.0 dry FILL -3 0.0 dry FILL -4 0.0 dry FILL -5 0.0 dry FILL -6 0.0 dry FILL -7 5 0.0 dry FILL -6 0.0 dry FILL -7 5 0.0 dry FILL -10 0.0 dry FILL -11 -11 -11 -11 -11 -13 5 0.0 dry FILL -14 -13 0.0 dry FILL -14 -14 -14 -1	rties - PD Graph Log	hic Surface Cover and Thick	, dry, no odor, no ium gravel, little ium dense, dry, no	AD83) y: _683770.7 _20 ft
Parte Finished Drilling: 9/2/2016 10:45:00 A ogged By: ES hysical Location: Actual - Forrest St Proper Depth lange t bgs) Recovery (ft/ft) PID (ppm) Moisture Content USCS -1 0.0 dry ASPHAL FILL -1 3.5 0.0 dry FILL -2 3.5 0.0 dry FILL -3 0.0 dry FILL -4 0.0 dry FILL -5 0.0 dry FILL -6 0.0 dry FILL -6 0.0 dry FILL -7 5 0.0 dry FILL -10 0.0 dry FILL -11 5 1 1 -12 5 1 1 -14 0.0 dry FILL -14 0.0 dry FILL -14 0.0 dry FILL -14 0.0 dry FILL -14 0.0	rties - PD Graph Log	Core Size: 3.0 in Project Manager: Scott Mikaelian Di Surface Cover and Thicking ASPHALT ASPHALT MILLINGS, (5YR 2.5/1) black staining. fine to medium SAND, some fine to mediconcrete, (5YR 4/4) reddish brown, medicodor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medicodor, no staining. NO RECOVERY	Boring Total Depth: Depth to Water: NA Surface Elevation: 2 ness: , dry, no odor, no ium gravel, little ium dense, dry, no	20 ft 21.41 ft NAVD88 Sample ID NFS-PDI-W16B-0.2-0.7 NFS-PDI-W16B-1.0-1.5
ogged By: ES hysical Location: Actual - Forrest St Proper Pepth ange tbgs) Recovery (ft/ft) PID (ppm) Moisture Content USCS -1 0.0 dry ASPHALT FILL -1 3.5 0.0 dry FILL -2 3.5 0.0 dry FILL -3 0.0 dry FILL -4 0.0 dry FILL -5 0.0 dry FILL -6 0.0 dry FILL -7 5 0.0 dry FILL -9 5 0.0 dry FILL -10 0.0 dry FILL -11 5 1 1 -12 5 1 1 -14 0.0 dry FILL -14 0.0 dry FILL -14 0.0 dry FILL -14 0.0 dry FILL -14 0.0 Hyperstrestrict Hyperstrict <	rties - PD Graph Log	Project Manager: Scott Mikaelian Di Surface Cover and Thicks hic Surface Cover and Thicks ASPHALT ASPHALT MILLINGS, (5YR 2.5/1) black staining. fine to medium SAND, some fine to mediconcrete, (5YR 4/4) reddish brown, medicodor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medicodor, no staining.	Depth to Water: NA Surface Elevation: 2 ness: , dry, no odor, no ium gravel, little ium dense, dry, no	21.41 ft NAVD88 Sample ID NFS-PDI-W16B-0.2-0.7 NFS-PDI-W16B-1.0-1.5
hysical Location: Actual - Forrest St Proper leepth ange is bgs Recovery (ft/ft) PID (ppm) Moisture Content USCS -1 0.0 dry ASPHAL -1 - - - -2 3.5 - dry FILL -3 - - - - -4 - - - - -5 0.0 dry FILL - -5 0.0 dry FILL - -6 - - - - - -7 5 - - - - - - -7 5 -	Graph Log	DI hic Surface Cover and Thicks ASPHALT ASPHALT MILLINGS, (5YR 2.5/1) black staining. fine to medium SAND, some fine to med concrete, (5YR 4/4) reddish brown, medi odor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medi	Surface Elevation: 2 ness: , dry, no odor, no ium gravel, little ium dense, dry, no	21.41 ft NAVD88 Sample ID NFS-PDI-W16B-0.2-0.7 NFS-PDI-W16B-1.0-1.5
epth ange bgs)Recovery (ft/ft)PID (ppm)Moisture ContentUSCS -1 0.0 dry $ASPHALFILL-13.50.0dryFILL-23.50.0dryFILL-30.0dryFILL-40.0dryFILL-40.0dryFILL-4-10.0dryFILL-4-10.0dryFILL-4-10.0dryFILL-4-10.0dryFILL-10-10.0dryFILL-11-1-1-1-1-125-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1-1-1-1-14-1$	Graph Log	hic Surface Cover and Thicks ASPHALT ASPHALT MILLINGS, (5YR 2.5/1) black staining. fine to medium SAND, some fine to med concrete, (5YR 4/4) reddish brown, medi odor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medi	ness: , dry, no odor, no ium gravel, little ium dense, dry, no	Sample ID NFS-PDI-W16B-0.2-0.7 NFS-PDI-W16B-1.0-1.5
Ange bgs) Recovery (ft/ft) PID Molsture Content USCS - 0.0 dry ASPHAL ⁻ - 3.5 dry FILL - 3.5 0.0 dry FILL - - 0.0 dry FILL - - 0.0 dry FILL - 0.0 dry FILL - - 0.0 dry FILL - - - 0.0 dry FILL - - - - - - - - 0.0 dry FILL - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<	Log	ASPHALT ASPHALT MILLINGS, (5YR 2.5/1) black staining. fine to medium SAND, some fine to med concrete, (5YR 4/4) reddish brown, medi odor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medi	, dry, no odor, no ium gravel, little ium dense, dry, no	ID NFS-PDI-W16B-0.2-0.7 NFS-PDI-W16B-1.0-1.5
- - ary FILL - - - - - 3.5 - - - 3.5 - - - - - -		ASPHALT MILLINGS, (5YR 2.5/1) black staining. fine to medium SAND, some fine to med concrete, (5YR 4/4) reddish brown, medi odor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medi	ium gravel, little ium dense, dry, no	NFS-PDI-W16B-1.0-1.5
2 - 3.5 3 - 3.5 3 - 4 - 5 8 - 5 8 - 5 8 - 7 - 5 8 - 7 - 5 8 - 7 - 5 10 - 0.0 dry FILL 10 - 0.0 dry FILL 11 - 7 12 - 5 13 - 14 - 15 14 - 15 0.0 dry FILL 14 - 15 0.0 dry FILL 15 - 0.0 dry FILL 16 - 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18		fine to medium SAND, some fine to medi concrete, (5YR 4/4) reddish brown, medi odor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medi	ium đense, dry, no 	
2 - 3.5 3 - 4 - 5 - 5 8 - 5 9 - 5 10 - 5 11 - 5 13 - 5 13 - 5 14 - 6 - 7 - 5 13 - 7 - 5 13 - 7 - 5 13 - 7 - 5 14 - 7 - 5 13 - 7 - 5 13 - 7 - 5 13 - 7 - 5 13 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7		 concrete, (5YR 4/4) reddish brown, medi odor, no staining. NO RECOVERY fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medi 	ium đense, dry, no 	NFS-PDI-W16B-3.0-3.5
4		fine to medium SAND, some fine to coar concrete, (5YR 4/4) reddish brown, medi		
0.0 dry FILL 6 - - 7 - 5 8 - - 9 - - 0 0.0 dry FILL 0 0.0 dry FILL 1 - - - 2 - 5 - 3 - - - 5 0.0 dry FILL - - - - - 5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -		concrete, (5YR 4/4) reddish brown, medi		
5 5 0.0 dry FILL 7 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		concrete, (5YR 4/4) reddish brown, medi	se gravel and	NFS-PDI-W16B-5.0-5.5
8				
- - dry FILL 0 - 0.0 dry FILL 1 - - - 2 - 5 - 3 - - - 4 - - - 5 0.0 dry FILL 6 - - - 7 - NP		8	-	NFS-PDI-W16B-7.0-7.5
9 0.0 dry FILL 1 5 3 5 3 5 5 0.0 dry FILL 6 7 NP		8	-	NFS-PDI-W16B-8.0-8.5
- 0.0 dry FILL 		COBBLES, trace medium to coarse grav dense, dry, no odor, no staining.	el, (5Y 5/1) gray,	
6 0.0 dry FILL 7 NP		COBBLES, trace medium to coarse grav dense, dry, no odor, no staining.	el, (5Y 5/1) gray,	
2 NR NR		COBBLES, trace medium to coarse grav dense, dry, no odor, no staining.	el, (5Y 5/1) gray,	
		NO RECOVERY, Refusal at 17.0 feet.		
9				
20				
tes: - below surface grade COPR - chromite ore pr	1	residue UNDno - non-organic undisturbed native o	tenosite MCD month	factured gas plant mate chemical production v



Boring ID: NFS-PDI-W16BR

	t Name: F					Drilling Company: SGS North America		
	t Number:					Drilling Method: Sonic	Coordinates (NJSPN/	
	tarted Dril					Rig Type:	Coordinates (NJSPNA	
ate Fi	inished Dr	illing:	2/8/2017	10:50:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	d By: E.A					Project Manager: Scott Mikaelian	Depth to Water: 19.5	
hysic	al Locatio	n: Act	ual - Forre	st St Propertie	s - Supp	emental PDI	Surface Elevation: 2	1.4 ft NAVD88
Depth Lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
		0.0		ASPHALT		ASPHALT		
			dry	FILL	\boxtimes	fine to coarse SAND, some fine to coars	e gravel, (5YR	
-1	3		dry	FILL	\otimes	2.5/1) black, medium dense, dry, no odc	r, no staining.	
-2— — -3—						BOULDER, (5Y 5/1) gray, dense, dry, n	o odor, no staining.	
-4 -5	5	0.0	moist	FILL		fine to medium SAND, little silt, trace fin (7.5YR 4/2) brown, medium dense, mois staining.		
-6 -7			dry	FILL		BOULDER, trace cobbles and medium t 5/1) gray, dense, dry, no odor, no stainir	o coarse gravel, (5Y g.	
-8		0.0	-					
_10 _11 _12 _12	5							
13— 14— 15— 16— 17— 17— 18—	5	0.0						
	-	0.0			\boxtimes			
19					\bigotimes	\$		
-			L				(D. 4/0) L	NFS-PDI-W16BR-19.5-20.0
20			moist	FILL	\times	SILT, some fine to medium gravel, (7.5) moist, no odor, no staining, water at 19.	R 4/2) brown, soft,	NFS-PDI-W16BR-19.5-20.0 NFS-PDI-W16BR-20.0-20.5
_	5		moist	PT			% organic fibers	
21-					<u>// \// \</u>	30% organic silt, (5YR 3/3) dark reddish	brown, soft, moist	
_			moist	OL	<u></u>	slight organic odor, no staining. Soils co	nsistent with MM.	
-22	1		moist			organic SILT, some fine sand, (7.5YR 5	(1) gray, medium	
	1				<u> </u>	stiff, moist, no odor, no staining. Soils co	onsistent with	
-23						UNDorg.	/†	
otes:								
a ha	low surface	grade			essing re	sidue UNDno - non-organic undisturbed native		actured gas plant
	adow mat		GGM - gree			UNDorg - organic undisturbed native dep		mate chemical production wa



Boring ID: NFS-PDI-X14B

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Project						Drilling Company: SGS North America	-	
	t Number:					Drilling Method: Direct Push		NAD83) x: 611716.2
				9:10:00 AM		Rig Type:		IAD83) y: 683712.2
ate Fi	inished Dr	illing:	8/29/2016	<u>5 11:00:00 AN</u>	Λ	Core Size: 3.0 in	Boring Total Depth:	
	di By: KW					Project Manager: Scott Mikaelian	Depth to Water: 12	
hysic	al Locatio	n: Act	ual - Forres	st St Propertie	s - PDI		Surface Elevation:	17.47 ft NAVD88
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	iness:	Sample ID
		0.0						
_ -1 _ -2	-	0.0	dry	<u>ASPHALT</u> FILL		Asphalt and gravel sub-base fine to medium silty SAND, little fill debri reddish brown, medium dense, dry to m staining		NFS-PDI-X14B-0.2-0.7
-3 -4	5							NFS-PDI-X14B-4.0-4.5
_	-					× · · · · · · · · · · · · · · · · · · ·		
-5		0.0		F 11 /				-
-6	-	0.0	moist	FILL		fine to medium silty SAND, some fine to fill debris, (5YR 3/3) dark reddish brown moist no odor no staining		NFS-PDI-X14B-6.0-6.5
-7	4							NFS-PDI-X14B-8.0-8.5
	-					8		
9				NR		No Recovery		-
_								
	-	0.0	moist	FILL		fine to medium silty SAND, some mediu little fill debris, (7.5YR 3/3) dark brown, moist to wet no odor no staining, water a	medium dense,	NFS-PDI-X14B-10.0-10.5
12 13 -	4.5							NFS-PDI-X14B-12.0-12.5
14	-					×		NFS-PDI-X14B-14.0-14.5
_					pxxxx			-
15				NR		No Recovery		
		0.0	moist	FILL		fine to medium silty SAND, some fine to	coarse gravel, (5YR	NFS-PDI-X14B-15.0-15.5
10			moist	ML	T	4/4) reddish brown, dense, moist no odd SILT, little fine sand, trace organics, (5Y	R 5/1) grav stiff	NFS-PDI-X14B-15.5-16.0
16— — 17—						moist no odor no staining. Soils consiste	ent with UNDno.	NFS-PDI-X14B-16.0-16.5
	5							
18 —	-							NFS-PDI-X14B-18.0-18.5
19— — 20—	-		moist	SP		fine to coarse SAND, trace fine to mediu reddish brown, loose, moist no odor no s consistent with UNDno.	staining. Soils	
-0 -21	1	0.0	moist	SP		fine to coarse SAND, trace fine to mediu reddish brown, loose, moist no odor no s consistent with UNDno.	um gravel, (5YR 4/4) staining. Soils	NFS-PDI-X14B-20.0-20.5
o tes: js - bel M - me	low surface eadow mat	grade	COPR - chr GGM - gree	omite ore proc	essing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - man	ufactured gas plant romate chemical production wa



-19

-20-

-21

Notes:

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: NFS-PDI-X15B

_	t Name: F					Drilling Company: SGS North America		A D02)		
	t Number:			11.10.00 414		Drilling Method: Direct Push		NAD83) x: 611729.2		
				11:40:00 AM		Rig Type: Core Size: 3.0 in	Coordinates (NJSPN			
			9/8/2016	7:30:00 AM			Boring Total Depth:			
	d By: KW					Project Manager: Scott Mikaelian	Depth to Water: 7.5			
iysic	al Locatio	n: Act	ual - Forres	st St Propertie	s - PDI		Surface Elevation:	19.85 ft NAVD88		
epth ange bgs)		PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	ness:	Sample ID		
		0.0	ي سام	ASPHALT	XXXX	ASPHALT	_	NFS-PDI-X15B-0.2-0.7		
_	1		dry	FILL		fine to coarse SAND, little fine gravel, tra		-		
1 -	_		dry to moist	FILL		(7.5YR 3/3) dark brown, loose, dry, no or fine to medium silty SAND, some mediur with rock fragments, trace fill debris, (5Y brown, medium dense, dry to moist, no c	n to coarse gravel R 4/4) reddish			
2 3 -	4.5						dor, no stanning.	NFS-PDI-X15B-2.0-2.5		
4—	-				\otimes	X		NFS-PDI-X15B-4.0-4.5		
-	-			ND	\sim			-		
5				NR		No Recovery		1		
Ŭ _		0.0	moist	FILL	\boxtimes	fine to coarse SAND, little fine to coarse				
	1		to		\bigotimes	fill debris, (5YR 4/4) reddish brown, med				
6—			wet		\boxtimes	wet, no odor, no staining, water at 7.5 fe	el.	NFS-PDI-X15B-6.0-6.5		
- -7 -	4									
8	-							NFS-PDI-X15B-8.0-8.5		
-9				NR		No Recovery				
	-	0.0	wet	FILL		fine to coarse SAND, some rock fragmer (7.5YR 3/3) dark brown, loose, wet, no o		NFS-PDI-X15B-10.0-10.5		
12	-			FILL		fine to medium silty SAND, little rock frag	monto troco fill	NFS-PDI-X15B-12.0-12.5		
- 13	4.5			FILL		debris, (5YR 4/4) reddish brown, dense, staining.	wet, no odor, no			
14—	+					X X X		NFS-PDI-X15B-14.0-14.5		
-	1			NR		No Recovery		1		
15 -	-	0.0	wet	FILL		fine to coarse silty SAND, little rock fragr debris, (5YR 4/4) reddish brown, mediun	nents, trace fill n dense, wet, no	1		
6 	-					odor, no staining.		NFS-PDI-X15B-16.0-16.5		
_	5				\bigotimes	â		NFS-PDI-X15B-17.5-18.0		
18	4				KXXX	8		NFS-PDI-X15B-17.5-18.0		

SILT, trace organics, (7.5YR 5/3) brown, dense, moist, no

odor, no staining. Soils consistent with UNDno.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/7/16 23:33 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits 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.

moist

0.0

1

ML

MGP - manufactured gas plant CCPW - chromate chemical production waste

NFS-PDI-X15B-18.0-18.5

NFS-PDI-X15B-20.0-20.5



Boring ID: NFS-PDI-X16B

	t Name: <u>F</u> t Number:		1730			Drilling Method: Direct Push	Coordinates (NJSPN	AD83) v. 611720.0
rojeci	tortod Dril	00240	9/2/2016 7:	20.00 414		Rig Type:		
ate S	iniched Dri	illing: 3	0/2/2010 7.	9:40:00 AM		Core Size: 3.0 in	Coordinates (NJSPN Boring Total Depth:	
		ming.	9/2/2010 3	9.40.00 AIVI				
uggeo	d By: ES	n : ^-'		t St Propertie		Project Manager: Scott Mikaelian	Depth to Water: 8.5 Surface Elevation:	
nysic	al Locatio	n: Act	ual - Forres	st St Propertie	es - PDI	1	Surface Elevation:	
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		0.0		ASPHALT		ASPHALT	_	
 -1 -2			dry	FILL		fine to medium SAND, little asphalt and gravel, (7.5YR 2.5/3) very dark brown, n no odor, no staining.	nedium dense, dry,	
- 3	4		dry	FILL		fine to medium SAND, little fill debris, (7 brown, medium dense, dry, no odor, no		
4	-			NR		NO RECOVERY		
5— —	-	0.0	dry to wet	FILL		fine to medium SAND, some fine to med and coal, (5YR 4/4) reddish brown, med wet, no odor, no staining, water at 8.5 fe	ium dense, dry to	
0 7	3.5		wei			the start, no orden ing, water at 0.0 re		NFS-PDI-X16B-6.0-6.5
8						8		NFS-PDI-X16B-8.0-8.5
9	-			NR		NO RECOVERY		
10— 11— 12—	3.5	0.0	wet	FILL		fine to medium SAND, some fine to coar cobbles, (5YR 4/4) reddish brown, medir odor, no staining.	rse gravel and um dense, wet, no	NFS-PDI-X16B-10.0-10.5 NFS-PDI-X16B-12.0-12.5
13	-					8 		
14 	-			NR		NO RECOVERY, Refusal at 13.5 feet		
	low surface eadow mat	grade	COPR - chro GGM - gree	omite ore proc	essing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu	l factured gas plant omate chemical production w



Boring ID: NFS-PDI-X16BR

roject	t Name: F t Number:	60240)739			Drilling Company: SGS North America Drilling Method: Sonic		NAD83) x: 611738.191
				10:00:00 AN		Rig Type:		NAD83) y: 683758.24
			11/15/201	16 1:40:00 PN		Core Size: 3.0 in	Boring Total Depth:	
	d By: Eric			at St Droportic		Project Manager: Scott Mikaelian	Depth to Water: 18 Surface Elevation:	
TIYSIC	ai Localio	n. Aci		st St Propertie	<u> s - Sup</u>		Surface Elevation.	21.117 IL NAVD00
Depth Lange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thick	ness:	Sample ID
		0.0		ASPHALT		ASPHALT		
-1 -2	-		moist	FILL		fine to medium SAND, trace fine to coar reddish brown, medium dense, moist, no		NFS-PDI-X16BR-0.5-1.0 NFS-PDI-X16BR-2.0-2.5
_						8		
-3			moist	FILL		fine silty SAND, trace fine gravel, (5YR 4 medium dense, moist, no odor, no staini		_
-4 -5	8						-	NFS-PDI-X16BR-4.0-4.5
_				FILL		BOULDER, (5YR 6/1) gray, no staining.		
-6 -7 -	-		moist	FILL		fine silty SAND, trace fine gravel, (5YR 4 medium dense, moist, no odor, no staini	1/3) reddish brown, ng.	
-8		0.0		FILL		BOULDER, (5YR 4/1) dark gray, no stai	nina	-
-9	5							
13 14 15 16 17 40	. 5	0.0		FILL		BOULDER, (5YR 6/1) gray, no staining.		
-18		0.0	moist	ML	ĬĬĬ	SILT, (7.5YR 4/2) brown, firm, moist to		NFS-PDI-X16BR-18.0-18.5
			to wet			staining, water at 18.5 feet. Soils consis		NFS-PDI-X16BR-18.5-19.0
20— — 21— —	5							NFS-PDI-X16BR-20.0-20.5
	low surface adow mat	grade	COPR - chr GGM - gree		essing r	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native depu	deposits MGP - man osits CCPW - ch	ufactured gas plant promate chemical production wa



Project Name: PPG Garfield Ave

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-X16BR

Page: 2

Project	t Number:	60240)739			Drillin	g Method:	Sonic		Coordinates (N	NJSPN	AD83) x: 611738.191
Date St	tarted Dril	ling:	11/15/2016	6 10:00:00 AN		Rig Ty	vpe:			Coordinates (N	IJSPN/	AD83) y: 683758.24
				16 1:40:00 PN		Core S	Size: 3.0 ir	<u></u> ו		Boring Total De		
	d By: Eric							Scott Mikaelian		Depth to Water		
Physic	al Locatio	n: Act	ual - Forre	st St Propertie	s - Suc	plemer	ntal PDI					21.117 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)		Moisture	USCS	Graphi Log			Surface Cover and	d Thickn			Sample ID
												NFS-PDI-X16BR-22.0-22.5
-23												
I												
I												
Notes:	•										I	
bgs - be	low surface	grade	COPR - chr	omite ore proc	essing r	esidue	UNDno - no	n-organic undisturbed ganic undisturbed nat	l native de	posits MGP	- manuf	factured gas plant or production waste
MM - me	eadow mat		GGM - gree	en grey mud			UNDorg - or	ganic undisturbed nat	tive depos	sits CCPV	v - chro	mate chemical production waste

ents: 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.

Drilling Company: SGS North America

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/13/16 18:55 Comn



Boring ID: PSEG-SB37B

	Name: F					Drilling Company: SGS North America	Oceanding to a (NUC)	NA D02) 011005 0
	Number:			12.00.00 -		Drilling Method: Direct Push		NAD83) x: 611605.6
				1:20:00 PM		Rig Type: Core Size: 3.0 in		NAD83) y: _683804.9
	IBy: ES	ming:	912012010	1:30:00 PM		Project Manager: Scott Mikaelian	Boring Total Depth Depth to Water: N	
veia	allocatio	n : ^~+	ual - Forros	t St Propertie			Surface Elevation:	
				SI SI FIUPEILLE	<u>ə - ri</u>		Junace Elevation:	
epth inge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
1		0.0		FILL		3" Trap Rock and DGA above liner		
2 3 4	4.5		slightly moist	FILL		fine to medium SAND, some fine to med coal, (7.5YR 6/3) light brown, medium d no odor, no staining.	lium gravel, trace ense, slightly moist,	PSEG-SB37B-1.7-2.2 PSEG-SB37B-3.7-4.2
					XXXX	8		
5				NR		NO RECOVERY		
_ر		0.0	dry	FILL		fine silty SAND, some fine to medium gr	avel, (5YR 4/4)	
6 7 -	3.5					reddish brown, medium dense, dry, no o	dor, no staining.	PSEG-SB37B-5.7-6.2
з—						X		PSEG-SB37B-7.7-8.2
-					×XXX	8		4
- I				NR		NO RECOVERY		
9								
0								
tes: s - bel 1 - me	ow surface	grade	COPR - chru GGM - gree	omite ore proc n grey mud	essing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native depo	deposits MGP - mar osits CCPW - ct	nufactured gas plant

-3EG_ 8B-45 Client: PPG Industries / Off-Site ENSR AECOM Project Number: 05510-107-300 BORING ID. REG-SB-45 Site Location: Jersey City, NJ Coordinates: Elevation Sheet: 1 of Drilling Method: HSA Monitoring Well Installed: Sample Type(s): HAN & WUGEL / SALIT SPON Boring Diameter: Screened Interval: Weather: dry k Logged By: ARON KANN Date/Time Started P/1/06 10 08 Depth of Boring. AD Drilling Contractor: Date/Time Finished: Ground Elevation: Water Level: ample Depth (ft) Recovery (inches) Headspace (ppm) icologic sample l ab Sample ID Blows per 6" Depth (ft) Lab Sample Depth (Ft.) MATERIALS: Color, size, range, MAIN COMPONENT, minor U.S.C.S component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known) D-5 : Light brown () SILT, FIN material (Stone, brick), little (10.10) = PSEQ-58- (00-0-5) MS/MSD (10.20)2 PSEG-SB-45B(1.5-2.0) PSEC-SB-45BD(1.5-2.0) Gravel , dry , no odor. (11. 20) TSEG-STS-45C (S-0-5-5) 5-7': Brown Sandy SILT Trace gravel, no oder, moist. 7-9' game as above. PSE9-39-45 D(9:0-9:5) 9-11: Brown, Smly SILT 21.35 11-13 - Refused and Recovery. 12 13 13 - pejusal recty NO MO 17 Boding has to rectore with different drill he thad . Time Depth to groundwater while drilling NOTES:

ENSR AECOM	Client: PPG Industries	BORING ID:	
EINSK AECOM	Site: Site 114	PSEG-SB46	
Start Date:	Project: Site Investigation	Page: 1 of 3	
11/30/2006	Coordinates: X-611661.117 Y-683681.939	Depth of Boring: 26.00	
End Date:	Elevation:	Geologist: M. Merdinger	
11/30/2006	Drill Subcontractor: Advanced Drilling Inc	Driller:	
Deptn (tt) Lithology	Description PID Sat	nple ID Sample Parameters	

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. 0	 			
2	FILL: Dark Yellowish Brown (10YR 3/4) SILT and FILL material (stone, brick, concrete), trace fine Gravel, ~1% COPR. No odor. NR: No Recovery	N/A	PSEG-SB46A (1.5-2.0)	MS/MSD, Cr+6, TAL Metals
4	FILL: Very Dark Brown (10YR 2/2) SILTY SAND, some fine to medium Gravel, wet. No odor. FILL: Very Dark Brown (10YR 2/2) and Dark Yellowish	0.0 ppm	PSEG-SB46B (4.0-5.0) PSEG-SB46BD (4.0-5.0)	Cr+6, TAL Metals
6-	FILL: Very Dark Brown (TOYR 2/2) and Dark Yellowish Brown (10YR 4/4) SILT, little Clay, trace fine to medium Gravel, wet. No odor. NR: No Recovery FILL: Very Dark Brown (10YR 2/2) SAND, little Silt and fine Gravel, wet. No odor.	0.0 ppm		
8-	FILL: COAL. NR: No Recovery FILL: COAL and COAL TAR, moist. Napthalene odor. PEAT: PEAT covered in Coal Tar, moist. Napthalene	N/A	PSEG-SB46C	Cr+6, TAL Metals
	Odor.		(8.5-9.0)	

ENSR AECOM	Client: PPG Industries	BORING ID:	
ENSK ALCOM	Site: Site 114	PSEG-SB46	
Start Date:	Project: Site Investigation	Page: 2 of 3	
11/30/2006	Coordinates: X-611661.117 Y-683681.939	Depth of Boring: 26.00	
End Date:	Elevation:	Geologist: M. Merdinger	
11/30/2006	Drill Subcontractor: Advanced Drilling Inc	Driller:	
Deptn (tt) Lithology	Description PID Sat	nple ID Sample Parameters	

		NR: No Recovery			
10+		CLAY: Brown (7.5YR 4/5) CLAY, moist. Napthalene odor.	N/A	PSEG-SB46D (10.0-10.5)	Cr+6, TAL Metals
-		PEAT: PEAT, moist. Napthalene odor.	N/A	PSEG-SB46E (11.0-11.5)	Cr+6, TAL Metals
12+		NR: No Recovery			
		PEAT: PEAT, moist. Napthalene odor.			
-	-X-X-X-X -X-X-X-X	CLAY AND SAND: Reddish Brown (5YR 5/3) very fine SANDY CLAY and ORGANICS, trace Silt, moist. No odor.			
14 —	- \ - \ - \	NR: No Recovery			
-	-\\- -\\-	CLAY AND SAND: Reddish Brown (5YR 5/3) very fine SANDY CLAY and ORGANICS, trace Silt, moist. No odor.	N/A	PSEG-SB46F (14.5-15.0)	Cr+6, TAL Metals
		CLAY AND SAND: Reddish Gray (5YR 5/2) very fine SANDY CLAY, moist. No odor.			
16+	-\\\	GRAVEL: Gray ROCKS, trace Weak Red (10R 4/3) Shale.			
		NR: No Recovery			
-		CLAY AND SAND: Reddish Gray (5YR 5/2) very fine SANDY CLAY, moist.			
18 —	·····	SAND: Weak Red (10R 4/4) SAND, little fine to coarse Gravel and Silt, trace Clay, moist. No odor.			
	••••••••••••••••••••••••••••••••••••••	NR: No Recovery			

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

ENSR AECOM	Client: PPG Industries	BORING ID:	
ENSK AECOM	Site: Site 114	PSEG-SB46	
Start Date:	Project: Site Investigation	Page: 3 of 3	
11/30/2006	Coordinates: X-611661.117 Y-683681.939	Depth of Boring: 26.00	
End Date:	Elevation:	Geologist: M. Merdinger	
11/30/2006	Drill Subcontractor: Advanced Drilling Inc	Driller:	
Depth (ft) Lithology	Description PID Sat	nple ID Sample Parameters	

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I		l/	N/A	PSEG-SB46G	MS/MSD, Cr+6, TAL Metals
-		SAND: Weak Red (10R 4/4) SAND, little fine to coarse Gravel and Silt, trace Clay, moist. No odor.		(18.5-19.0)	
		SAND: Weak Red (10R 4/4) medium to coarse SAND, and medium to coarse Gravel, little Silt, wet. No odor.			
20 -		NR: No Recovery			
-		SAND: Weak Red (10R 4/4) fine to coarse SAND, trace Silt, wet. No odor.			
22-		SAND: Weak Red (10R 4/4) very fine SAND, trace Silt, wet, MGP at 22.8 ft.	N/A	PSEG-SB46H (22.0-23.0) PSEG-SB46HD (22.0-23.0)	Cr+6, TAL Metals
		NR: No Recovery			
24		SAND: Weak Red (10R 4/4) coarse SAND, wet.			
		SAND: Weak Red (10R 4/4) coarse SAND, wet.			
		SILT: Weak Red (10R 4/4) coarse SAND, wet.			
I ₂₆ ⊥	_	NR: No Recovery			
		NULL: End of Boring at 26 ft.			

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