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***Appendix C***  
***Environmental Probes and Testing***

TABLE NO. 1  
LIQUID LEVEL MEASUREMENTS - APRIL 24, 2020  
SOUTH AMBOY FERRY TERMINAL (FORMER CONRAIL SITE)

Well ID	Permit No.	Northing	Easting	Ground Elevation	Outer Casing Elevation	Top of PVC	PID Reading (ppm)	Depth to Product (ft.)	Depth to Water (ft.)	Depth to Bottom (ft.)	Product Thickness (ft.)	Ground Water Elevation	Comments
PR-1	E201704450	603215.6	553710.81	9.9	12.11	11.63	35.6	6.57	7.75	13	1.18	--	Accurate GW elevation cannot be calculated without the specific gravity of the product
PR-2	E201704451	603127.02	553771.9	8.6	10.87	10.32	0	--	5.44	14.9	--	4.88	
PR-3	E201704452	603096.94	553588.53	9.7	11.9	11.5	0	--	4.14	13.3	--	7.36	
PR-4	E201704453	603206.73	553849.3	8.7	11.07	10.62	--	--	--	14.7	--	--	Well Destroyed
PR-5	E201704454	603153.53	553716.49	9.3	11.57	11.03	0	--	5.85	15.1	--	5.18	
PR-6	E201704457	603019.27	553358.45	10.9	13.22	12.74	2.8	6.12	--	13	--	--	Product viscosity too high to obtain an accurate product thickness and DTW measurements
PR-7	E201704455	603256.26	553630.07	12.7	14.7	14.11	0	--	8.12	20	--	5.99	
PR-8	E201704458	602993.78	553440.78	10.6	12.56	12.08	0	--	5.03	13.1	--	7.05	

TABLE NO. 2  
SOIL SAMPLE ANALYTICAL RESULTS  
13749.001 - SOUTH AMBOY FERRY TERMINAL

SAMPLE ID: LAB ID:				FPA-2 L2051941-01 11/19/2020 9.5' - 10.0'				FPA-5 L2051941-02 11/19/2020 9.5' - 10.0'				FPA-6 L2051941-04 11/19/2020 9.5' - 10.0'				FPA-8 L2051941-05 11/19/2020 4.5' - 5.0'				FPA-11 L2051941-07 11/19/2020 9.5' - 10.0'				FPA-13 L2051941-08 11/19/2020 9.5' - 10.0'			
COLLECTION DATE:				SOIL				SOIL				SOIL				SOIL				SOIL							
SAMPLE DEPTH:				SOIL				SOIL				SOIL				SOIL				SOIL							
SAMPLE MATRIX:				SOIL				SOIL				SOIL				SOIL				SOIL							
Parameters	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
<b>Extractable Petroleum Hydrocarbons (EPH) Category II</b>																											
Total EPH	NA	NA	5300	169		27.7	27.7	120		29.3	29.3	ND		27.6	27.6	-		-	-	-		-	-	137		26.7	26.7
<b>EPH Category II - Fractionated</b>																											
C9-C12 Aliphatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	333		86.3	86.3	800		96.6	96.6	-		-	-
C12-C16 Aliphatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	1650		57.5	57.5	2160		64.4	64.4	-		-	-
C16-C21 Aliphatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	1290		86.3	86.3	1340		96.6	96.6	-		-	-
C21-C40 Aliphatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	1460		288	288	398		322	322	-		-	-
C10-C12 Aromatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	85.3		57.5	57.5	88.5		64.4	64.4	-		-	-
C12-C16 Aromatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	518		86.3	86.3	365		96.6	96.6	-		-	-
C16-C21 Aromatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	975		144	144	565		161	161	-		-	-
C21-C36 Aromatics	NA	NA	NA	-		-	-	-		-	-	-		-	-	330		230	230	ND		258	258	-		-	-
Total EPH	NA	NA	SS	-		-	-	-		-	-	-		-	-	6640		57.5	57.5	5720		64.4	64.4	-		-	-
<b>Polychlorinated Biphenyls (PCBS)</b>																											
Aroclor 1254	1.6	NA	0.25	ND		0.0379	0.00415	0.0186	JP	0.0408	0.00446	ND		0.0395	0.00432	ND		0.0374	0.00409	0.0158	JP	0.0408	0.00446	ND		0.0376	0.00412
Aroclor 1260	1.6	NA	0.25	0.00918	J	0.0379	0.00701	0.0105	J	0.0408	0.00754	ND		0.0395	0.0073	0.0362	J	0.0374	0.0069	0.0099	J	0.0408	0.00754	ND		0.0376	0.00696
PCBs, Total	1.6	NA	0.25	0.00918	J	0.0379	0.00337	0.0291	J	0.0408	0.00362	ND		0.0395	0.0035	0.0362	J	0.0374	0.00332	0.0257	J	0.0408	0.00362	ND		0.0376	0.00334
<b>General Chemistry</b>																											
Solids, Total	NA	NA	NA	83.1		0.1	NA	79.2		0.1	NA	82.4		0.1	NA	88		0.1	NA	79.5		0.1	NA	88.3		0.1	NA

SAMPLE ID: LAB ID:				FPA-14 L2051941-09 11/19/2020 8.5' - 9.0'				FPA-16 L2051941-10 11/19/2020 8.5' - 9.0'				FPA-19 L2051941-13 11/19/2020 9.5' - 10.0'				FPA-20 L2051941-14 11/19/2020 9.5' - 10.0'				FPA-21 L2051941-15 11/19/2020 9.5' - 10.0'				FPA-22 L2051941-16 11/19/2020 9.5' - 10.0'			
COLLECTION DATE:				SOIL				SOIL				SOIL				SOIL				SOIL							
SAMPLE DEPTH:				SOIL				SOIL				SOIL				SOIL				SOIL							
SAMPLE MATRIX:				SOIL				SOIL				SOIL				SOIL				SOIL							
Parameters	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
<b>EPH Category II</b>																											
Total EPH	NA	NA	5300	-		-	-	-		-	-	963		26.1	26.1	107		27.9	27.9	41.4		27.7	27.7	-		-	-
<b>EPH Category II - Fractionated</b>																											
C9-C12 Aliphatics	NA	NA	NA	478		88.9	88.9	226		44.6	44.6	-		-	-	-		-	-	-		-	-	683		44.3	44.3
C12-C16 Aliphatics	NA	NA	NA	1950		59.3	59.3	1010		29.8	29.8	-		-	-	-		-	-	-		-	-	1740		29.5	29.5
C16-C21 Aliphatics	NA	NA	NA	1250		88.9	88.9	712		44.6	44.6	-		-	-	-		-	-	-		-	-	910		44.3	44.3
C21-C40 Aliphatics	NA	NA	NA	ND		296	296	320		149	149	-		-	-	-		-	-	-		-	-	217		148	148
C10-C12 Aromatics	NA	NA	NA	96.3		59.3	59.3	50.1		29.8	29.8	-		-	-	-		-	-	-		-	-	39.6		29.5	29.5
C12-C16 Aromatics	NA	NA	NA	556		88.9	88.9	306		44.6	44.6	-		-	-	-		-	-	-		-	-	138		44.3	44.3
C16-C21 Aromatics	NA	NA	NA	921		148	148	572		74.4	74.4	-		-	-	-		-	-	-		-	-	214		73.8	73.8
C21-C36 Aromatics	NA	NA	NA	ND		237	237	ND		119	119	-		-	-	-		-	-	-		-	-	ND		118	118
Total EPH	NA	NA	SS	5250		59.3	59.3	3200		29.8	29.8	-		-	-	-		-	-	-		-	-	3940		29.5	29.5
<b>Polychlorinated Biphenyls (PCBS)</b>																											
Aroclor 1254	1.6	NA	0.25	ND		0.0366	0.004	0.00829	JP	0.037	0.00405	ND		0.0365	0.004	ND		0.0376	0.00412	ND		0.0384	0.0042	ND		0.0374	0.00409
Aroclor 1260	1.6	NA	0.25	0.00831	J	0.0366	0.00676	ND		0.037	0.00684	ND		0.0365	0.00675	ND		0.0376	0.00696	ND		0.0384	0.00709	ND		0.0374	0.0069
PCBs, Total	1.6	NA	0.25	0.00831	J	0.0366	0.00325	0.00829	J	0.037	0.00328	ND		0.0365	0.00324	ND		0.0376	0.00334	ND		0.0384	0.00341	ND		0.0374	0.00332
<b>General Chemistry</b>																											
Solids, Total	NA	NA	NA	87		0.1	NA	87.8		0.1	NA	89.6		0.1	NA	83.8		0.1	NA	83.3		0.1	NA	87.3		0.1	NA

All units are presented in milligrams per kilogram (mg/kg) unless stated otherwise

SS - Sample Specific Standard generated utilizing the 2021 NJDEP EPH Category II, Ingestion/Dermal Calculator

-- - Sample not analyzed for this parameter

J - Designates the concentration is below the Quantitation Limit (RL) but above the Method Detection Limit (MDL); therefore, the concentration is considered estimated.

P - Designates the relative percent difference (RPD) between the two gas chromatography results exceeds the method-specified criteria for this analyte.

NA - Standard not applicable because appropriate toxicological information does not exist, the groundwater remediation standard is a secondary standard, or the calculated health based criterion exceeds one million mg/kg or the soil saturation limit.

ND - Not Detected at the method detection limit (MDL).

RISRS - Residential Inhalation Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021

RIDSRS - Residential Ingestion/Dermal Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021

MGWSRS - Migration to Groundwater Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021

**Bold values and highlighted cells indicate the concentration exceeds the more stringent of the RISRS or RIDSRS**

**Blue and blue colored values indicate the concentration exceeds the MGWSRS**

**Red Bold values indicate the Method Detection Limit (MDL) is elevated and may exceed the applicable standards.**

TABLE NO. 3  
SOIL SAMPLE ANALYTICAL RESULTS  
13749.001 - SOUTH AMBOY FERRY TERMINAL - JANUARY 2021 INVESTIGATION

SAMPLE ID:				FPA-25			FPA-27			FPA-28			FPA-31			FPA-33						
LAB ID:				L2103432-01			L2103432-02			L2103432-03			L2103432-04			L2103432-05						
COLLECTION DATE:				1/20/2021			1/20/2021			1/20/2021			1/20/2021			1/20/2021						
SAMPLE DEPTH:				6.5' - 7.0'			7.5' - 8.0'			7.5' - 8.0'			7.5' - 8.0'			6.0' - 6.5'						
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL						
Parameters	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL			
<b>Extractable Petroleum Hydrocarbons (EPH)</b>																						
Total EPH	NA	NA	5300	593		27	27	ND		28.1	28.1	-		-	-	52.9		33.9	33.9			
<b>EPH - Fractionated</b>																						
C9-C12 Aliphatics	NA	NA	NA	-		-	-	-		-	-	1280		92.1	92.1	-		-	247	39.4	39.4	
C12-C16 Aliphatics	NA	NA	NA	-		-	-	-		-	-	2920		61.4	61.4	-		-	1020	26.3	26.3	
C16-C21 Aliphatics	NA	NA	NA	-		-	-	-		-	-	1670		92.1	92.1	-		-	708	39.4	39.4	
C21-C40 Aliphatics	NA	NA	NA	-		-	-	-		-	-	434		307	307	-		-	379	131	131	
C10-C12 Aromatics	NA	NA	NA	-		-	-	-		-	-	78		61.4	61.4	-		-	36.9	26.3	26.3	
C12-C16 Aromatics	NA	NA	NA	-		-	-	-		-	-	248		92.1	92.1	-		-	313	39.4	39.4	
C16-C21 Aromatics	NA	NA	NA	-		-	-	-		-	-	346		154	154	-		-	534	65.7	65.7	
C21-C36 Aromatics	NA	NA	NA	-		-	-	-		-	-	ND		246	246	-		-	ND	105	105	
Total EPH	NA	NA	SS	-		-	-	-		-	-	<b>6980</b>		61.4	61.4	-		-	3240	26.3	26.3	
<b>General Chemistry</b>																						
Solids, Total	NA	NA	NA	85		0.1	NA	83.5		0.1	NA	82.3		0.1	NA	68.7		0.1	NA	80.1	0.1	NA

SAMPLE ID:				FPA-33B			FPA-34			FPA-34B			FPA-36			FPA-37						
LAB ID:				L2103432-06			L2103432-07			L2103432-08			L2103432-09			L2103432-10						
COLLECTION DATE:				1/20/2021			1/20/2021			1/20/2021			1/20/2021			1/20/2021						
SAMPLE DEPTH:				9.0' - 9.5'			6.0' - 6.5'			9.0' - 9.5'			9.0' - 9.5'			9.0' - 9.5'						
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL						
Parameters	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL			
<b>Extractable Petroleum Hydrocarbons (EPH)</b>																						
Total EPH	NA	NA	5300	ND		28.8	28.8	2030		26.9	26.9	ND		26.4	26.4	2100		27.8	27.8	ND	26.5	26.5
<b>General Chemistry</b>																						
Solids, Total	NA	NA	NA	82		0.1	NA	84.8		0.1	NA	85.6		0.1	NA	82.7		0.1	NA	87.1	0.1	NA

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MGWSRS - Migration to Groundwater Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021

**Bold values and highlighted cells indicate the concentration exceeds the more stringent of the RISRS or RIDSRS**

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**Red Bold values indicate the Method Detection Limit (MDL) is elevated and may exceed the applicable standards.**



TABLE NO. 4  
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY - ADDITIONAL DELINEATION SAMPLES  
13749.001 - SOUTH AMBOY FERRY TERMINAL

SAMPLE ID:				FPA-40B				FPA-41B				FPA-42				FPA-43B				FPA-44B				FPA-45B			
LAB ID:				L2111958-02				L2111958-04				L2111958-05				L2111958-07				L2111958-09				L2111958-11			
COLLECTION DATE:				3/9/2021				3/9/2021				3/9/2021				3/9/2021				3/9/2021							
SAMPLE DEPTH:				7.0' - 7.5'				7.5' - 8.0'				6.5' - 7.0'				7.0' - 7.5'				8.0' - 8.5'							
SAMPLE MATRIX:				SOIL				SOIL				SOIL				SOIL				SOIL							
Parameters	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
<b>Extractable Petroleum Hydrocarbons (EPH)</b>																											
Total EPH	NA	NA	5300	133		27.5	27.5	-		-	-	294		26.4	26.4	ND		27	27	1080		27.8	27.8	1280		28.4	28.4
<b>EPH - Fractionated</b>																											
C9-C12 Aliphatics	NA	NA	NA	-		-	-	1300		185	185	-		-	-	-		-	-	-		-	-	-		-	-
C12-C16 Aliphatics	NA	NA	NA	-		-	-	5080		124	124	-		-	-	-		-	-	-		-	-	-		-	-
C16-C21 Aliphatics	NA	NA	NA	-		-	-	3820		185	185	-		-	-	-		-	-	-		-	-	-		-	-
C21-C40 Aliphatics	NA	NA	NA	-		-	-	ND		618	618	-		-	-	-		-	-	-		-	-	-		-	-
C10-C12 Aromatics	NA	NA	NA	-		-	-	325		124	124	-		-	-	-		-	-	-		-	-	-		-	-
C12-C16 Aromatics	NA	NA	NA	-		-	-	1920		185	185	-		-	-	-		-	-	-		-	-	-		-	-
C16-C21 Aromatics	NA	NA	NA	-		-	-	3020		309	309	-		-	-	-		-	-	-		-	-	-		-	-
C21-C36 Aromatics	NA	NA	NA	-		-	-	ND		494	494	-		-	-	-		-	-	-		-	-	-		-	-
Total EPH	NA	NA	SS	-		-	-	15500		124	124	-		-	-	-		-	-	-		-	-	-		-	-
<b>General Chemistry</b>																											
Solids, Total	NA	NA	NA	85.8		0.1	NA	83.4		0.1	NA	87.7		0.1	NA	85.1		0.1	NA	84.2		0.1	NA	84		0.1	NA

SAMPLE ID:				FPA-46B				FPA-47B				FPA-48				FPA-49B				FPA-50B				FPA-51B				FPA-52			
LAB ID:				L2111958-13				L2111958-15				L2111958-16				L2111958-18				L2111958-20				L2111958-22				L2111958-23			
COLLECTION DATE:				3/10/2021				3/10/2021				3/10/2021				3/10/2021				3/10/2021				3/10/2021							
SAMPLE DEPTH:				7.5' - 8.0'				6.0' - 6.5'				6.0' - 6.5'				5.5' - 6.0'				7.5' - 8.0'				8.0' - 8.5'				11.0' - 11.5' (5.0' - 5.5')			
SAMPLE MATRIX:				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL							
Parameters	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
<b>Extractable Petroleum Hydrocarbons (EPH)</b>																															
Total EPH	NA	NA	5300	726		31.2	31.2	-		-	-	936		26.2	26.2	-		-	-	-		-	-	-		-	-	-	-	-	
<b>EPH - Fractionated</b>																															
C9-C12 Aliphatics	NA	NA	NA	-		-	-	1060		85	85	-		-	-	321		17.8	17.8	899		90.4	90.4	1950		182	182	597		189	189
C12-C16 Aliphatics	NA	NA	NA	-		-	-	3420		56.7	56.7	-		-	-	851		11.8	11.8	2680		60.3	60.3	7220		121	121	2540		126	126
C16-C21 Aliphatics	NA	NA	NA	-		-	-	2450		85	85	-		-	-	656		17.8	17.8	2130		90.4	90.4	6440		182	182	1940		189	189
C21-C40 Aliphatics	NA	NA	NA	-		-	-	993		283	283	-		-	-	552		59.3	59.3	1300		301	301	4140		607	607	ND		629	629
C10-C12 Aromatics	NA	NA	NA	-		-	-	287		56.7	56.7	-		-	-	25.1		11.8	11.8	120		60.3	60.3	382		121	121	213		126	126
C12-C16 Aromatics	NA	NA	NA	-		-	-	1310		85	85	-		-	-	149		17.8	17.8	629		90.4	90.4	2180		182	182	1250		189	189
C16-C21 Aromatics	NA	NA	NA	-		-	-	2030		142	142	-		-	-	308		29.6	29.6	1140		151	151	4180		304	304	1800		315	315
C21-C36 Aromatics	NA	NA	NA	-		-	-	296		227	227	-		-	-	116		47.4	47.4	ND		241	241	885		486	486	ND		504	504
Total EPH	NA	NA	SS	-		-	-	11800		56.7	56.7	-		-	-	2980		11.8	11.8	8900		60.3	60.3	27400		121	121	8340		126	126
<b>General Chemistry</b>																															
Solids, Total	NA	NA	NA	76.3		0.1	NA	89.3		0.1	NA	89.6		0.1	NA	85.4		0.1	NA	85.4		0.1	NA	86.9		0.1	NA	82.7		0.1	NA

All units are presented in milligrams per kilogram (mg/kg) unless stated otherwise

SS - Sample Specific Standard generated utilizing the 2021 NJDEP EPH Category II, Ingestion/Dermal Calculator

-- - Sample not analyzed for this parameter

J - Designates the concentration is below the Quantitation Limit (RL) but above the Method Detection Limit (MDL); therefore, the concentration is considered estimated.

P - Designates the relative percent difference (RPD) between the two gas chromatography results exceeds the method-specified criteria for this analyte.

NA - Standard not applicable because appropriate toxicological information does not exist, the groundwater remediation standard is a secondary standard, or the calculated health based criterion exceeds one million mg/kg or the soil saturation limit.

ND - Not Detected at the method detection limit (MDL).

RISRS - Residential Inhalation Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021

RIDSRS - Residential Ingestion/Dermal Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021

MGWSRS - Migration to Groundwater Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021

**Bold values and highlighted cells indicate the concentration exceeds the more stringent of the RISRS or RIDSRS**

**Blue and blue colored values indicate the concentration exceeds the MGWSRS**

**Red Bold values indicate the Method Detection Limit (MDL) is elevated and may exceed the applicable standards.**

TABLE NO. 5  
IN-SITU WASTE CLASSIFICATION ANALYTICAL RESULTS - BACKFILL MATERIAL  
13749.001 - SOUTH AMBOY FERRY TERMINAL

Parameters	SAMPLE ID: LAB ID: COLLECTION DATE: SAMPLE DEPTH: SAMPLE MATRIX:			FPA-40 L2111958-01 3/9/2021 Composite 0-3' SOIL				FPA-41 L2111958-03 3/9/2021 Composite 0-3' SOIL				FPA-43 L2111958-06 3/9/2021 Composite 0-3' SOIL				FPA-44 L2111958-08 3/9/2021 Composite 0-3' SOIL				FPA-45 L2111958-10 3/9/2021 Composite 0-3' SOIL			
	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
<b>Extractable Petroleum Hydrocarbons (EPH)</b>																							
Total EPH	NA	NA	5300	ND		25.9	25.9	47.2		24.7	24.7	ND		23.9	23.9	ND		25.1	25.1	ND		23.9	23.9
<b>Gasoline Range Organics (GRO)</b>																							
C9-C12 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C12-C16 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C16-C21 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C21-C40 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C10-C12 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C12-C16 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C16-C21 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C21-C36 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
Total EPH	NA	NA	5300	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
<b>Volatile Organic Compounds (VOCs)</b>																							
Total VOCs	NA	NA	NA	ND		--	--	ND		--	--	ND		--	--	ND		--	--	ND		--	--
<b>Volatile Organic Compound TICs</b>																							
Unknown	NA	NA	NA	--		--	--	0.002	J	ND	ND	--		--	--	--		--	--	--		--	--
Unknown	NA	NA	NA	--		--	--	0.002	J	ND	ND	--		--	--	--		--	--	--		--	--
Unknown	NA	NA	NA	--		--	--	0.003	J	ND	ND	--		--	--	--		--	--	--		--	--
Unknown Naphthalene	NA	NA	NA	--		--	--	0.002	J	ND	ND	--		--	--	--		--	--	--		--	--
Unknown Naphthalene	NA	NA	NA	--		--	--	0.003	J	ND	ND	--		--	--	--		--	--	--		--	--
Total TIC Compounds	NA	NA	NA	--		--	--	0.012	J	ND	ND	--		--	--	--		--	--	--		--	--
<b>Semivolatile Organic Compounds (SVOCs)</b>																							
Fluoranthene	NA	NA	2400	0.13		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02
Benzo(a)anthracene	0.71	78000	5.1	0.059		0.059	0.02	ND		0.058	0.019	ND		0.058	0.019	ND		0.059	0.02	ND		0.059	0.02
Benzo(a)pyrene	NA	3500	0.51	0.056	J	0.13	0.043	ND		0.13	0.042	ND		0.12	0.042	ND		0.13	0.043	ND		0.13	0.043
Benzo(b)fluoranthene	NA	78000	5.1	0.072		0.044	0.015	ND		0.044	0.014	ND		0.043	0.014	ND		0.044	0.015	ND		0.044	0.014
Benzo(k)fluoranthene	NA	780000	51	0.025	J	0.037	0.012	ND		0.036	0.012	ND		0.036	0.012	ND		0.037	0.012	ND		0.037	0.012
Chrysene	NA	NA	510	0.054	J	0.1	0.018	ND		0.1	0.018	ND		0.1	0.018	ND		0.1	0.018	ND		0.1	0.018
Anthracene	NA	NA	18000	0.022	J	0.1	0.016	ND		0.1	0.015	ND		0.1	0.015	ND		0.1	0.016	ND		0.1	0.016
Benzo(ghi)perylene	NA	NA	NA	0.032	J	0.14	0.021	ND		0.14	0.02	ND		0.14	0.02	ND		0.14	0.021	ND		0.14	0.02
Phenanthrene	NA	NA	NA	0.074	J	0.1	0.013	0.016	J	0.1	0.012	ND		0.1	0.012	ND		0.1	0.013	ND		0.1	0.012
Indeno(1,2,3-cd)pyrene	NA	78000	5.1	0.038	J	0.074	0.024	ND		0.073	0.024	ND		0.072	0.024	ND		0.074	0.024	ND		0.073	0.024
Pyrene	NA	NA	1800	0.1		0.1	0.015	ND		0.1	0.015	ND		0.1	0.015	ND		0.1	0.015	ND		0.1	0.015
2-Methylnaphthalene	3.1	NA	240	ND		0.21	0.019	0.033	J	0.21	0.018	0.027	J	0.21	0.018	ND		0.21	0.018	ND		0.21	0.018
Carbazole	NA	NA	NA	0.014	J	0.18	0.011	ND		0.17	0.011	ND		0.17	0.011	ND		0.18	0.011	ND		0.17	0.011
Total SVOCs	NA	NA	NA	0.676	--	--	--	0.049	--	--	--	0.027	--	--	--	--	--	--	--	--	--	--	--
<b>Semivolatile Organic Compound TICs</b>																							
Unknown Amide	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
Unknown Alkane	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
Unknown	NA	NA	NA	--		--	--	0.148	J	ND	ND	0.191	J	ND	ND	--		--	--	--		--	--
Total TIC Compounds	NA	NA	NA	--		--	--	0.148	J	ND	ND	0.191	J	ND	ND	--		--	--	--		--	--
<b>Pesticides</b>																							
Total Pesticides	NA	NA	NA	ND		--	--	ND		--	--	ND		--	--	ND		--	--	ND		--	--
<b>Polychlorinated Biphenyls (PCBs)</b>																							
PCBs, Total	1.6	NA	0.25	ND		0.0344	0.00305	ND		0.033	0.00293	ND		0.0329	0.00292	ND		0.0335	0.00298	ND		0.0346	0.00308
<b>Total Metals</b>																							
Aluminum, Total	NA	NA	78000	12200		8.44	2.28	7980		8.16	2.2	11700		8.18	2.21	12100		8.04	2.17	10400		8.3	2.24
Arsenic, Total	19	1100	19	0.591	J	0.844	0.176	0.375	J	0.816	0.17	0.531	J	0.818	0.17	0.748	J	0.804	0.167	0.556	J	0.83	0.172
Barium, Total	2100	870000	16000	21.6		0.844	0.147	14		0.816	0.142	24.1		0.818	0.142	44.9		0.804	0.14	32.4		0.83	0.144
Cadmium, Total	1.9	2600	71	0.666	J	0.844	0.083	0.457	J	0.816	0.08	0.589	J	0.818	0.08	0.611	J	0.804	0.079	0.564	J	0.83	0.081
Calcium, Total	NA	NA	NA	9170		8.44	2.95	7400		8.16	2.85	10200		8.18	2.86	10100		8.04	2.81	8530		8.3	2.9
Chromium, Total	NA	NA	NA	18.7		0.844	0.081	11.9		0.816	0.078	16.7		0.818	0.079	17		0.804	0.077	16.2		0.83	0.08
Cobalt, Total	90	520	23	20.8		1.69	0.14	14.4		1.63	0.135	18.4		1.64	0.136	19.1		1.61	0.134	17.5		1.66	0.138
Copper, Total	910	NA	3100	98.7		0.844	0.218	60.8		0.816	0.21	68.5		0.818	0.211	76.1		0.804	0.207	74.4		0.83	0.214
Iron, Total	NA	NA	NA	27800		4.22	0.762	19300		4.08	0.736	24900		4.09	0.738	25400		4.02	0.726	23300		4.15	0.749
Lead, Total	90	NA	400	3.74	J	4.22	0.226	1.7	J	4.08	0.218	2.3	J	4.09	0.219	2.61	J	4.02	0.216	2.43	J	4.15	0.222
Magnesium, Total	NA	NA	NA	15100		8.44	1.3	9390		8.16	1.26	12600		8.18	1.26	12900		8.04	1.24	11000		8.3	1.28
Manganese, Total	NA	87000	1900	370		0.844	0.134	224		0.816	0.13	302		0.818	0.13	306		0.804	0.128	272		0.83	0.132
Nickel, Total	48	20000	1600	36.6		2.11	0.204	27.2		2.04	0.197	32.7		2.04	0.198	33.7		2.01	0.195	31.9		2.07	0.201
Potassium, Total	NA	NA	NA	150	J	211	12.2	103	J	204	11.7	123	J	204	11.8	144	J	201	11.6	144	J	207	11.9
Selenium, Total	11	NA	390	0.27	J	1.69	0.218	ND		1.63	0.21	ND		1.64	0.211	ND		1.61	0.207	ND		1.66	0.214
Sodium, Total	NA	NA	NA	585		169	2.66	450		163	2.57	901		164	2.58	909		161	2.53	1200		166	2.61
Vanadium, Total	NA	170000	390	58.1		0.844	0.171	35.5		0.816	0.166	50.3		0.818	0.166	52.4		0.804	0.163	46.8		0.83	0.168
Zinc, Total	930	NA	23000	40.6		4.22	0.247	24.5		4.08	0.239	35.4		4.09	0.24	35		4.02	0.236	32.6		4.15	0.243
<b>HAZARDOUS WASTE CRITERIA</b>																							
<b>TCLP Metals</b>																							
Arsenic, TCLP			5	ND		1	0.019	ND		1	0.019	ND		1	0.019	ND		1	0.019	ND		1	0.019
Barium, TCLP			100	0.121	J	0.5	0.021	0.221	J	0.5	0.021	0.137	J	0.5	0.021	0.162	J	0.5	0.021	0.159	J	0.5	0.021
Cadmium, TCLP			1	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Chromium, TCLP			5	ND		0.2	0.021	ND		0.2	0.021												

TABLE NO. 5  
IN-SITU WASTE CLASSIFICATION ANALYTICAL RESULTS - BACKFILL MATERIAL  
13749.001 - SOUTH AMBOY FERRY TERMINAL

Parameters	SAMPLE ID: LAB ID: COLLECTION DATE: SAMPLE DEPTH: SAMPLE MATRIX:			FPA-46 L2111958-12 3/10/2021 Composite 0-3' SOIL				FPA-47 L2111958-14 3/10/2021 Composite 0-3' SOIL				FPA-49 L2111958-17 3/10/2021 Composite 0-3' SOIL				FPA-50 L2111958-19 3/10/2021 Composite 0-3' SOIL				FPA-51 L2111958-21 3/10/2021 Composite 0-3' SOIL			
	MGWSRS	RISRS	RIDSRS	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
<b>Extractable Petroleum Hydrocarbons (EPH)</b>																							
Total EPH	NA	NA	5300	ND		24	24	ND		23.6	23.6	ND		24	24	42		24.5	24.5	ND		24.5	24.5
<b>Gasoline Range Organics (GRO)</b>																							
C9-C12 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C12-C16 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C16-C21 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C21-C40 Aliphatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C10-C12 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C12-C16 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C16-C21 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
C21-C36 Aromatics	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
Total EPH	NA	NA	5300	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
<b>Volatile Organic Compounds (VOCs)</b>																							
Total VOCs	NA	NA	NA	ND		-	-	ND		-	-	ND		-	-	ND		-	-	ND		-	-
<b>Volatile Organic Compound TICs</b>																							
Total TIC Compounds	NA	NA	NA	ND		--	--	ND		--	--	ND		--	--	ND		--	--	ND		--	--
<b>Semivolatile Organic Compounds (SVOCs)</b>																							
Benzo(b)fluoranthene	NA	78000	5.1	ND		0.043	0.014	ND		0.043	0.014	0.015	J	0.043	0.014	ND		0.044	0.014	ND		0.043	0.014
Phenanthrene	NA	NA	NA	ND		0.1	0.012	ND		0.1	0.012	0.013	J	0.1	0.012	0.02	J	0.1	0.012	ND		0.1	0.012
2-Methylnaphthalene	3.1	NA	240	ND		0.2	0.018	0.035	J	0.2	0.018	0.021	J	0.2	0.018	ND		0.21	0.018	0.026	J	0.21	0.018
Total SVOCs	NA	NA	NA	ND		-	-	0.035		-	-	0.049		-	-	0.02		-	-	0.026		-	-
<b>Semivolatile Organic Compound TICs</b>																							
Unknown Amide	NA	NA	NA	--		--	--	--		--	--	0.209	J	ND	ND	--		--	--	--		--	--
Unknown Alkane	NA	NA	NA	--		--	--	--		--	--	--		--	--	0.175	J	ND	ND	--		--	--
Unknown	NA	NA	NA	--		--	--	--		--	--	--		--	--	--		--	--	--		--	--
No Tentatively Identified Compounds	NA	NA	NA	ND		ND	ND	ND		ND	ND	--		--	--	--		--	--	ND		ND	ND
Total TIC Compounds	NA	NA	NA	--		--	--	--		--	--	0.209	J	ND	ND	0.175	J	ND	ND	--		--	--
<b>Pesticides</b>																							
Total Pesticides	NA	NA	NA	NA		--	--	NA		--	--	NA		--	--	NA		--	--	NA		--	--
<b>Polychlorinated Biphenyls (PCBs)</b>																							
PCBs, Total	1.6	NA	0.25	ND		0.0338	0.003	ND		0.0347	0.00308	ND		0.0332	0.00295	ND		0.0341	0.00303	ND		0.0334	0.00297
<b>Total Metals</b>																							
Aluminum, Total	NA	NA	78000	10300		7.96	2.15	14200		8.04	2.17	11600		8.38	2.26	12400		8.3	2.24	15500		8.42	2.27
Arsenic, Total	19	1100	19	0.533	J	0.796	0.166	1.04		0.804	0.167	0.47	J	0.838	0.174	0.863		0.83	0.173	0.698	J	0.842	0.175
Barium, Total	2100	870000	16000	19		0.796	0.138	46		0.804	0.14	24.9		0.838	0.146	61.8		0.83	0.144	38.6		0.842	0.146
Cadmium, Total	1.9	2600	71	0.605	J	0.796	0.078	0.675	J	0.804	0.079	0.629	J	0.838	0.082	0.589	J	0.83	0.081	0.673	J	0.842	0.083
Calcium, Total	NA	NA	NA	9510		7.96	2.78	12000		8.04	2.81	9220		8.38	2.93	9900		8.3	2.9	13600		8.42	2.94
Chromium, Total	NA	NA	NA	16.6		0.796	0.076	21.3		0.804	0.077	18.9		0.838	0.081	17.5		0.83	0.08	21.2		0.842	0.081
Cobalt, Total	90	520	23	18.1		1.59	0.132	21.3		1.61	0.133	19.6		1.68	0.139	18.7		1.66	0.138	21.8		1.68	0.14
Copper, Total	910	NA	3100	78.2		0.796	0.205	101		0.804	0.207	105		0.838	0.216	95.1		0.83	0.214	111		0.842	0.217
Iron, Total	NA	NA	NA	24300		3.98	0.719	28400		4.02	0.726	25100		4.19	0.757	25000		4.15	0.75	28800		4.21	0.76
Lead, Total	90	NA	400	2.42	J	3.98	0.213	5.86		4.02	0.215	2.34	J	4.19	0.225	2.9	J	4.15	0.222	2.78	J	4.21	0.226
Magnesium, Total	NA	NA	NA	11700		7.96	1.22	14100		8.04	1.24	12300		8.38	1.29	12600		8.3	1.28	15000		8.42	1.3
Manganese, Total	NA	87000	1900	273		0.796	0.126	362		0.804	0.128	314		0.838	0.133	306		0.83	0.132	366		0.842	0.134
Nickel, Total	48	20000	1600	34.7		1.99	0.193	36.5		2.01	0.194	34.3		2.1	0.203	33.2		2.08	0.201	37.2		2.1	0.204
Potassium, Total	NA	NA	NA	179	J	199	11.5	146	J	201	11.6	124	J	210	12.1	140	J	208	12	87.4	J	210	12.1
Sodium, Total	NA	NA	NA	811		159	2.51	1120		161	2.53	723		168	2.64	1180		166	2.62	890		168	2.65
Vanadium, Total	NA	170000	390	48.6		0.796	0.162	59.9		0.804	0.163	51.2		0.838	0.17	51.4		0.83	0.168	59.8		0.842	0.171
Zinc, Total	930	NA	23000	33.2		3.98	0.233	40		4.02	0.235	35.6		4.19	0.246	33.9		4.15	0.243	38		4.21	0.247
<b>HAZARDOUS WASTE CRITERIA</b>																							
<b>TCLP Metals</b>																							
Arsenic, TCLP		5		ND		1	0.019	ND		1	0.019	ND		1	0.019	ND		1	0.019	ND		1	0.019
Barium, TCLP		100		0.135	J	0.5	0.021	0.173	J	0.5	0.021	0.118	J	0.5	0.021	0.165	J	0.5	0.021	0.175	J	0.5	0.021
Cadmium, TCLP		1		ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Chromium, TCLP		5		ND		0.2	0.021	ND		0.2	0.021	ND		0.2	0.021	ND		0.2	0.021	ND		0.2	0.021
Lead, TCLP		5		0.029	J	0.5	0.027	ND		0.5	0.027	ND		0.5	0.027	ND		0.5	0.027	ND		0.5	0.027
Mercury, TCLP		0.2		ND		0.001	0.0005	ND		0.001	0.0005	ND		0.001	0.0005	0.0005	J	0.001	0.0005	ND		0.001	0.0005
Selenium, TCLP		1		ND		0.5	0.035	ND		0.5	0.035	ND		0.5	0.035	ND		0.5	0.035	ND		0.5	0.035
Silver, TCLP		5		ND		0.1	0.028	ND		0.1	0.028	ND		0.1	0.028	ND		0.1	0.028	ND		0.1	0.028
<b>General Chemistry</b>																							
Solids, Total		NA		96.8		0.1	NA	95.8		0.1	NA	94.5		0.1	NA	95.6		0.1	NA	94.9		0.1	NA
Cyanide, Total		NA		ND		0.99	0.21	ND		0.98	0.21	ND		1	0.22	ND		1	0.22	ND		0.99	0.21
pH (H)		≤ 2 and ≥ 12.5		8.9		ND	NA	8.9		ND	NA	8.2		ND	NA	8.8		ND	NA	8.9		ND	NA
Cyanide, Reactive		250		ND		10	10	ND		10	10	ND		10	10	ND		10	10	ND		10	10
Sulfide, Reactive		500		ND		10	10	ND		10	10	ND		10	10	ND		10	10	ND		10	10
<b>Ignitability</b>																							
Ignitability		≤ 140°F		NI		ND	NA	NI		ND	NA	NI		ND	NA	NI		ND	NA	NI		ND	NA

All units are presented in milligrams per kilogram (mg/kg) unless stated otherwise  
SS - Sample Specific Standard generated utilizing the 2021 NJDEP EPH Category II, Ingestion/Dermal Calculator  
-- - Sample not analyzed for this parameter  
J - Designates the concentration is below the Quantitation Limit (RL) but above the Method Detection Limit (MDL); therefore, the concentration is considered estimated.  
NA - Standard not applicable because appropriate toxicological information does not exist, the groundwater remediation standard is a secondary standard, or the calculated health based criterion exceeds one million mg/kg or the soil saturation limit.  
ND - Not Detected at the method detection limit (MDL).  
RISRS - Residential Inhalation Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021  
RIDSRS - Residential Ingestion/Dermal Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021  
MGWSRS - Migration to Groundwater Soil Remediation Standards, per N.J.A.C. 7:26D last amended May 17, 2021  
**Bold values and highlighted cells indicate the concentration exceeds the more stringent of the RISRS or RIDSRS**  
**Blue and blue colored values indicate the concentration exceeds the MGWSRS**  
**Red Bold values indicate the Method Detection Limit (MDL) is elevated and may exceed the applicable standards.**

**COMPOSITION-SPECIFIC EXTRACTABLE PETROLEUM HYDROCARBON (EPH) SOIL REMEDIATION CRITERION (SRC) CALCULATOR  
FOR NON-#2 FUEL OIL/DIESEL OIL PETROLEUM HYDROCARBON MIXTURES (Version 3.0, October 18, 2017)**

**DATA ENTRY CELLS**

ENTER ALL CONCENTRATIONS AS MILLIGRAMS/KILOGRAM (mg/kg)  
 FOR NON DETECT VALUES, ENTER "0" or "ND" (without the quotation marks)  
 REMEMBER TO ENTER ACTUAL SAMPLE IDENTIFICATION IN PLACE OF "SAMPLE 1", ETC.  
 REMEMBER TO INDICATE WHETHER THE SAMPLE IS "RESIDENTIAL" (R) OR "NON-RESIDENTIAL" (N) [OR USE DROP-DOWN LIST]  
 ALL DATA MUST BE ENTERED FOR EACH SAMPLE FOR THE EPH CRITERION TO BE CALCULATED  
 CLICK ON THE "CALCULATE EPH SRC" BUTTON TO CALCULATE THE SAMPLE-SPECIFIC EPH SOIL REMEDIATION CRITERION  
 IF YOU CHANGE ANY INPUT DATA, YOU MUST CLICK ON "CALCULATE EPH SRC" AGAIN TO RECALCULATE THE SOIL REMEDIATION CRITERION  
 IF THE RESULTS FROM THE GC ANALYSIS INDICATE AN EPH CONCENTRATION LESS THAN 1,700 mg/kg, IT IS NOT NECESSARY TO USE THIS CALCULATOR

EC* RANGE / SAMPLE ID	FPA-8	FPA-11	FPA-14	FPA-16	FPA-22	
Enter Residential or Non-Residential	Residential	Residential	Residential	Residential	Residential	
ALIPHATICS	EC9-EC12	333.0	800.0	478.0	226.0	683.0
	EC12-EC16	1,650.0	2,160.0	1,950.0	1,010.0	1,740.0
	EC16-EC21	1,290.0	1,340.0	1,250.0	712.0	910.0
	EC21-EC40	1,460.0	398.0	0.0	320.0	217.0
AROMATICS	EC10-EC12	85.3	88.5	96.3	50.1	39.6
	EC12-EC16	518.0	365.0	556.0	306.0	138.0
	EC16-EC21	975.0	565.0	921.0	572.0	214.0
	EC21-EC36	330.0	0.0	0.0	0.0	0.0
<b>Total Concentration (mg/kg)</b>	<b>6,641.3</b>	<b>5,716.5</b>	<b>5,251.3</b>	<b>3,196.1</b>	<b>3,941.6</b>	

Calculated EPH SRC# (mg/kg)	5,000	5,800	4,500	4,800	6,600
Allowable% EPH SRC (mg/kg)	5,000	5,800	4,500	4,800	6,600
ABOVE/BELOW ALLOWABLE EPH SRC (i.e., PASS or FAIL)	ABOVE (FAIL)	BELOW (PASS)	ABOVE (FAIL)	BELOW (PASS)	BELOW (PASS)

\* = Equivalent Carbon

# = Soil Remediation Criterion

% = Accounts for residual product

17,000^ = Default maximum value for all non-#2 fuel oil/diesel oil petroleum hydrocarbon mixtures

**Calculate EPH SRC**

**Print Results**

**Intro Message**

**Reset Data**

**Instructions**

**Run Date = 12/02/2020**



SAMPLE ID:	FPA-2	FPA-5	FPA-6	FPA-8	FPA-11	FPA-13
COLLECTION DATE:	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020
SAMPLE DEPTH:	9.5' - 10.0'	9.5' - 10.0'	9.5' - 10.0'	4.5' - 5.0'	9.5' - 10.0'	9.5' - 10.0'
ANALYTE	DFPC	Conc	Conc	Conc	Conc	Conc
EPH Category II						
Total EPH	8,000	169	120	ND	6640	5720

SAMPLE ID:	FPA-14	FPA-16	FPA-19	FPA-20	FPA-21	FPA-22
COLLECTION DATE:	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020
SAMPLE DEPTH:	8.5' - 9.0'	8.5' - 9.0'	9.5' - 10.0'	9.5' - 10.0'	9.5' - 10.0'	9.5' - 10.0'
ANALYTE	DFPC	Conc	Conc	Conc	Conc	Conc
EPH Category II						
Total EPH	8,000	5250	3200	963	107	41.4

SAMPLE ID:	FPA-25	FPA-27	FPA-28	FPA-31	FPA-33
COLLECTION DATE:	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021
SAMPLE DEPTH:	6.5' - 7.0'	7.5' - 8.0'	7.5' - 8.0'	7.5' - 8.0'	6.0' - 6.5'
ANALYTE	DFPC	Conc	Conc	Conc	Conc
EPH Category II					
Total EPH	8,000	593	ND	6980	52.9

SAMPLE ID:	FPA-33B	FPA-34	FPA-34B	FPA-36	FPA-37
COLLECTION DATE:	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021
SAMPLE DEPTH:	9.0' - 9.5'	6.0' - 6.5'	9.0' - 9.5'	9.0' - 9.5'	9.0' - 9.5'
ANALYTE	RDCSRS	Conc	Conc	Conc	Conc
EPH Category II					
Total EPH	5100	ND	2030	ND	2100

SAMPLE ID:	FPA-40B	FPA-41B	FPA-42	FPA-43B	FPA-44B	FPA-45B
COLLECTION DATE:	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021
SAMPLE DEPTH:	7.0' - 7.5'	7.5' - 8.0'	6.5' - 7.0'	7.0' - 7.5'	7.0' - 7.5'	8.0' - 8.5'
ANALYTE	DFPC	Conc	Conc	Conc	Conc	Conc
EPH Category II						
Total EPH	8,000	133	15500	294	ND	1080

SAMPLE ID:	FPA-46B	FPA-47B	FPA-48	FPA-49B	FPA-50B	FPA-51B	FPA-52
COLLECTION DATE:	3/10/2021	3/10/2021	3/10/2021	3/10/2021	3/10/2021	3/10/2021	3/10/2021
SAMPLE DEPTH:	7.5' - 8.0'	6.0' - 6.5'	6.0' - 6.5'	5.5' - 6.0'	7.5' - 8.0'	8.0' - 8.5'	11.0' - 11.5'
ANALYTE	DFPC	Conc	Conc	Conc	Conc	Conc	Conc
EPH Category II							
Total EPH	8,000	726	11800	936	2980	8900	27400

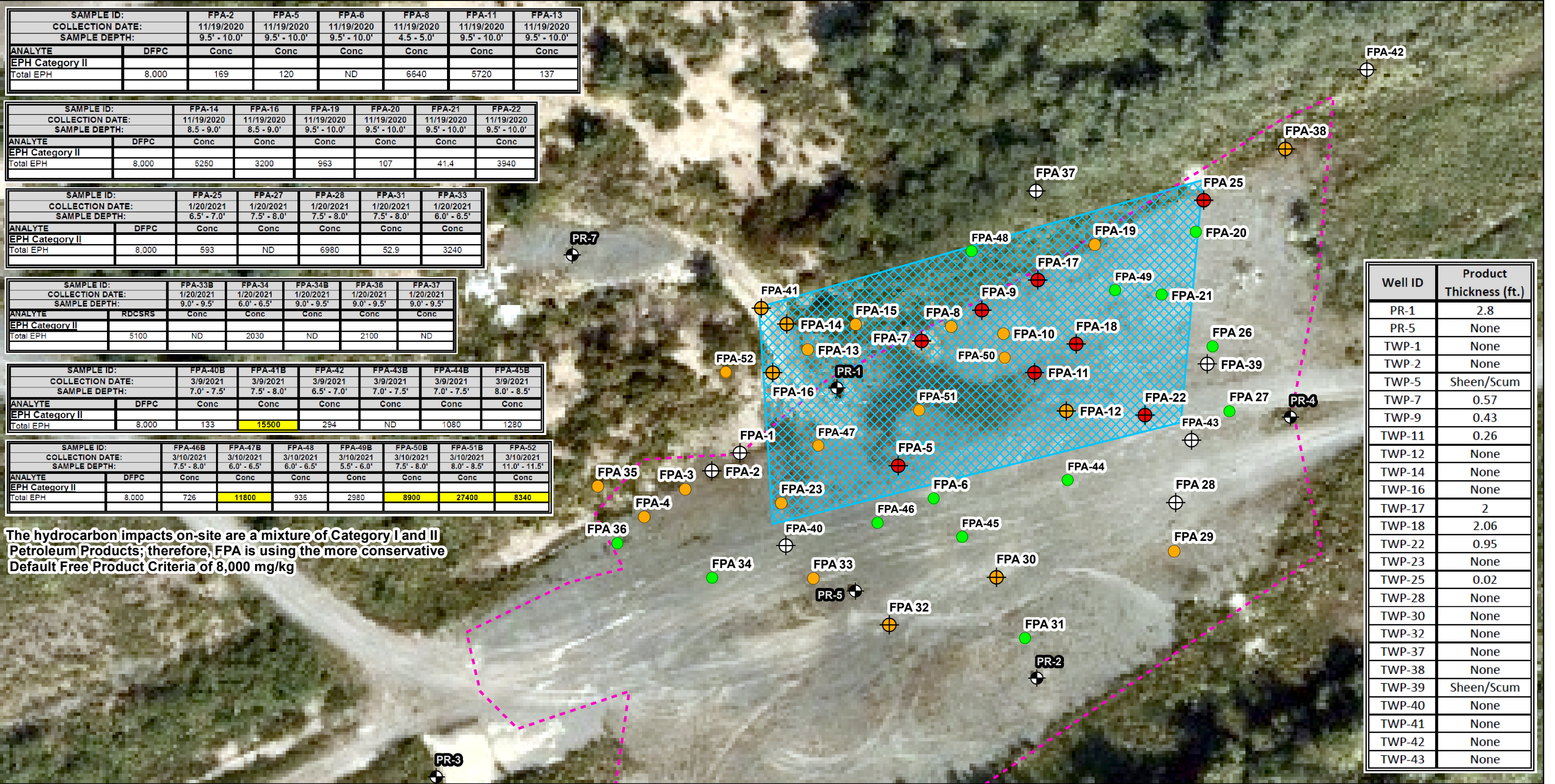
The hydrocarbon impacts on-site are a mixture of Category I and II Petroleum Products; therefore, FPA is using the more conservative Default Free Product Criteria of 8,000 mg/kg

**Legend**

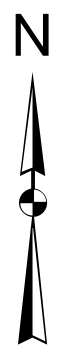
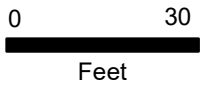
**Soil Boring/TWP Findings**

- Soil Boring Passed Agitation Test
- Soil Boring Failed Agitation Test
- ⊕ Temporary Well Point with No Product
- ⊕ Soil Boring Failed Agitation Test and TWP with No Product
- ⊕ Product Identified in Temporary Well Point
- ⊕ Existing Monitoring Wells
- ⬡ PHENV Excavation Boundary
- ⬢ Estimated Delineation Boundary for Separate Phase on Groundwater

Note: The Estimated Delineation Boundary Measures approximately 9,100 Square Feet



Well ID	Product Thickness (ft.)
PR-1	2.8
PR-5	None
TWP-1	None
TWP-2	None
TWP-5	Sheen/Scum
TWP-7	0.57
TWP-9	0.43
TWP-11	0.26
TWP-12	None
TWP-14	None
TWP-16	None
TWP-17	2
TWP-18	2.06
TWP-22	0.95
TWP-23	None
TWP-25	0.02
TWP-28	None
TWP-30	None
TWP-32	None
TWP-37	None
TWP-38	None
TWP-39	Sheen/Scum
TWP-40	None
TWP-41	None
TWP-42	None
TWP-43	None



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**SOUTH AMBOY FERRY TERMINAL**  
RADFORD FERRY ROAD, SOUTH AMBOY  
MIDDLESEX COUNTY, NEW JERSEY

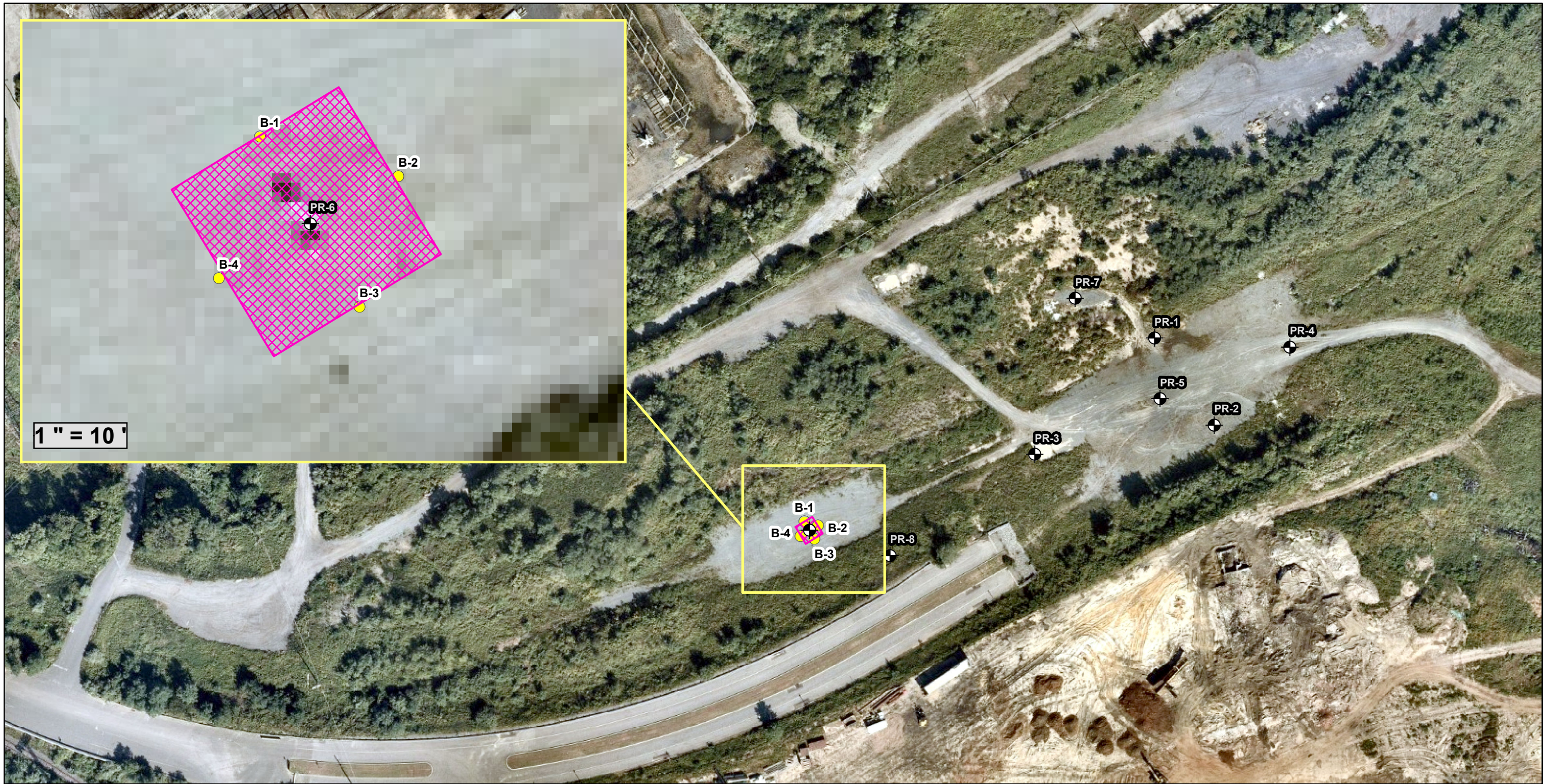
**SEPARATE PHASE DELINEATION AT PR-1**

SCALE: 1" = 30'	BLOCK: 16.02	LOT: XX	DRAWING # <b>1</b>
DATE: 03/30/2021	DRAWN BY: T.M.	PROJECT NUMBER: 13749.002	

Document Path: C:\13749 - South Amboy Ferry Terminal\13749.002 - DWG - 1 - PR1 Product Delineation Plan.mxd  
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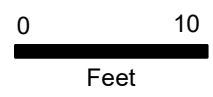


**Legend**

- Existing Monitoring Wells
- Proposed Excavation Boundary at PR-6
- PHENV Samples March 2020

**NOTE:**

- Soil Borings B-1 through B-4 did not show evidence of Product bearing soils to a depth of 10 feet below ground surface.
- The proposed excavation area measures 20 feet by 20 feet by approximatley 10 feet below ground surface.



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<b>SOUTH AMBOY FERRY TERMINAL</b>			
MAIN STREET, SOUTH AMBOY MIDDLESEX COUNTY, NEW JERSEY			
<b>SEPARATE PHASE DELINEATION AT PR-6</b>			
SCALE: 1" = 100'	BLOCK: 16.02	LOT: XX	<b>DRAWING #</b>  <b>2</b>
DATE: 03/30/2021	DRAWN BY: T.M.	PROJECT NUMBER: 13749.002	



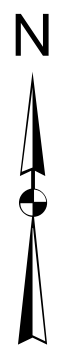
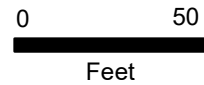
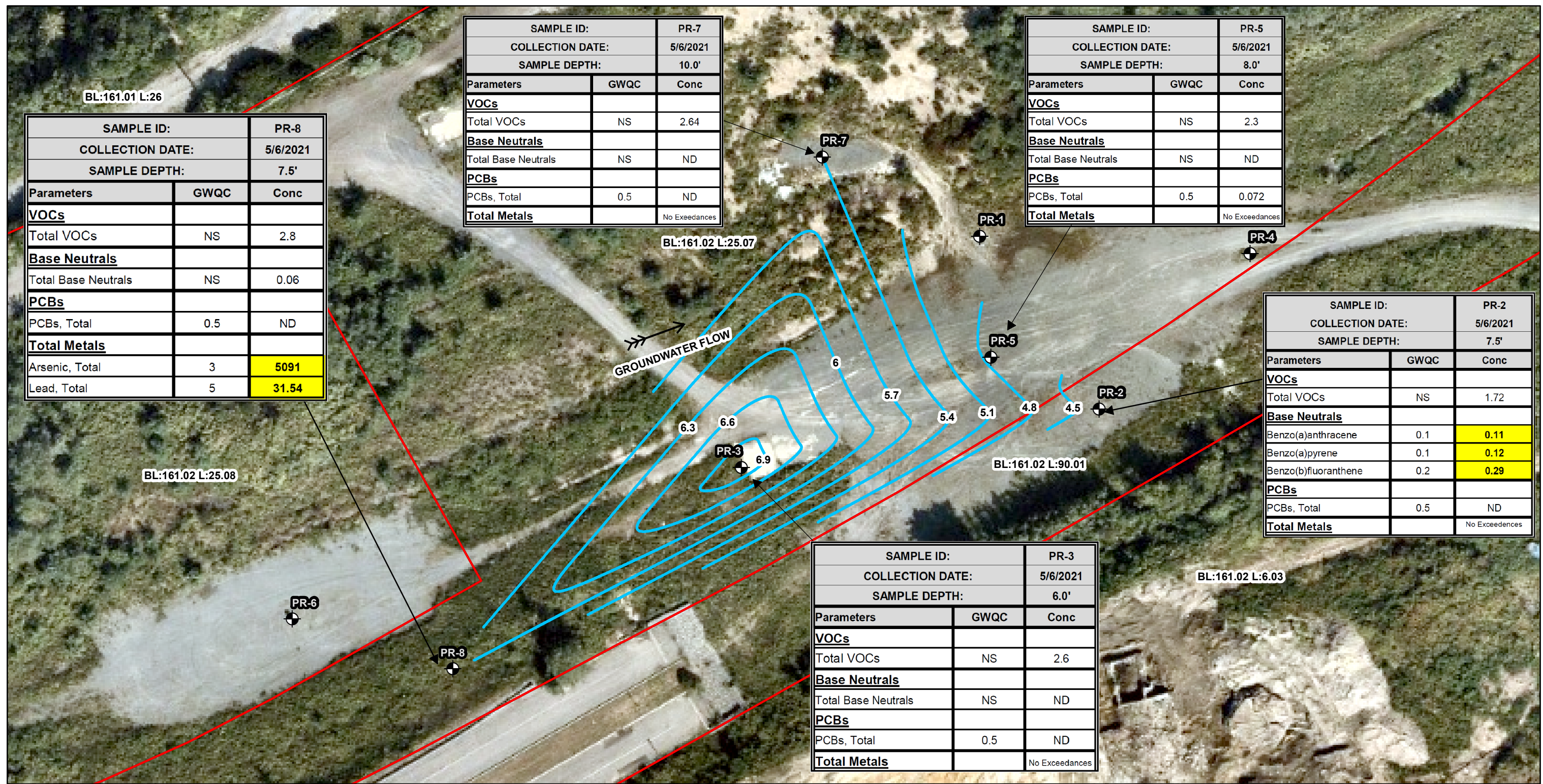
SAMPLE ID:	PR-7	
COLLECTION DATE:	5/6/2021	
SAMPLE DEPTH:	10.0'	
Parameters	GWQC	Conc
<b>VOCs</b>		
Total VOCs	NS	2.64
<b>Base Neutrals</b>		
Total Base Neutrals	NS	ND
<b>PCBs</b>		
PCBs, Total	0.5	ND
<b>Total Metals</b>	No Exceedances	

SAMPLE ID:	PR-5	
COLLECTION DATE:	5/6/2021	
SAMPLE DEPTH:	8.0'	
Parameters	GWQC	Conc
<b>VOCs</b>		
Total VOCs	NS	2.3
<b>Base Neutrals</b>		
Total Base Neutrals	NS	ND
<b>PCBs</b>		
PCBs, Total	0.5	0.072
<b>Total Metals</b>	No Exceedances	

SAMPLE ID:	PR-8	
COLLECTION DATE:	5/6/2021	
SAMPLE DEPTH:	7.5'	
Parameters	GWQC	Conc
<b>VOCs</b>		
Total VOCs	NS	2.8
<b>Base Neutrals</b>		
Total Base Neutrals	NS	0.06
<b>PCBs</b>		
PCBs, Total	0.5	ND
<b>Total Metals</b>	No Exceedances	
Arsenic, Total	3	<b>5091</b>
Lead, Total	5	<b>31.54</b>

SAMPLE ID:	PR-2	
COLLECTION DATE:	5/6/2021	
SAMPLE DEPTH:	7.5'	
Parameters	GWQC	Conc
<b>VOCs</b>		
Total VOCs	NS	1.72
<b>Base Neutrals</b>		
Benzo(a)anthracene	0.1	<b>0.11</b>
Benzo(a)pyrene	0.1	<b>0.12</b>
Benzo(b)fluoranthene	0.2	<b>0.29</b>
<b>PCBs</b>		
PCBs, Total	0.5	ND
<b>Total Metals</b>	No Exceedances	

SAMPLE ID:	PR-3	
COLLECTION DATE:	5/6/2021	
SAMPLE DEPTH:	6.0'	
Parameters	GWQC	Conc
<b>VOCs</b>		
Total VOCs	NS	2.6
<b>Base Neutrals</b>		
Total Base Neutrals	NS	ND
<b>PCBs</b>		
PCBs, Total	0.5	ND
<b>Total Metals</b>	No Exceedances	



**Legend**

- Existing Monitoring Wells
- May 6, 2021 Groundwater Contour
- Subject Property
- Tax Parcels

**NOTE:**  
 GWQC - GROUNDWATER QUALITY CRITERIA

**BOLD VALUES AND HIGHLIGHTED CELLS INDICATE THE CONCENTRATION EXCEEDS THE NJDEP GWQC.**

PR-4 WAS DESTROYED BY A VEHICLE AND COULD NOT BE SAMPLED OR GAUGED.

PR-1 AND PR-6 BOTH HAVE PRODUCT AND THEREFORE A GROUNDWATER SAMPLE OR ACCURATE DEPTH TO WATER MEASUREMENT COULD NOT BE COLLECTED.

**FPA**  
**FRENCH & PARRELLO**  
 ASSOCIATES

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**SOUTH AMBOY FERRY TERMINAL**  
 RADFORD FERRY ROAD, SOUTH AMBOY  
 MIDDLESEX COUNTY, NEW JERSEY

**MAY 6, 2021 GROUNDWATER SAMPLE RESULTS AND CONTOUR MAP**

SCALE: 1" = 50'	BLOCK: 16.02	LOT: 25.07, 25.08 & 90.01	DRAWING # <b>3</b>
DATE: 05/26/2021	DRAWN BY: N.L.	PROJECT NUMBER: 13749.002	

Document Path: C:\13749\13749 - South Amboy Ferry Terminal\13749.002 Survey, Gas, Env\3 - Environmental\CADD\GIS\13749.002 - DWG\_3 - Groundwater Contour Map.mxd  
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-1</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>1 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0				0
2.0 - 3.0				0
3.0 - 4.0				3.4
4.0 - 5.0				1.7
5.0 - 5.5	2.5	Same as 0 to 5 feet.		28
5.5 - 7.0		Tan Mf SAND		38
7.0 - 8.0		Tan Mf SAND, trace Silt. Soils from approximately 7 - 9 feet are saturated with product. Soil/Water Agitation Test Fail. Temporary Well Point (TWP) installed at 10 Feet.		70
8.0 - 9.0				51.4
9.0 - 10.0				33
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				



<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-2</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>2 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f Sand and mf gravel (excavation backfill material)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 5.5	2.5	Same as 0 to 5 feet.		Not Recorded
5.5 - 7.0		Tan Mf SAND		Not Recorded
7.0 - 8.0		Tan/Light Brown Mf SAND, trace Silt. Soils from approximately 7 - 9 feet are saturated with product. Soil/Water Agitation Test Fail. TWP installed at 10 Feet.		Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0			FPA-2 @ 9.5 - 10 Feet	Not Recorded
10.0 - 11.0	5	Tan Mf SAND, trace Silt - heavily water saturated. Slight sheen on GW at 10.5 - 11.5 feet, but generally minimal contamination present.		0.9
11.0 - 12.0				0.5
12.0 - 13.0				0.4
13.0 - 14.0				0
14.0 - 15.0				0
15.0 - 16.0		<b>END of Boring at 15 Feet</b>		
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-3</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>3 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Same as 0 to 5 feet.		Not Recorded
6.0 - 7.0		Tan/Light Brown Mf SAND, trace Silt. Soils from approximately 7 - 9 feet are saturated with product. Soil/Water Agitation Test Fail.		Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0				Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-4</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>4 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Same as 0 to 5 feet.		Not Recorded
6.0 - 7.0		Tan/Light Brown Mf SAND, trace Silt. Soils from approximately 7 - 9 feet are saturated with product. Soil/Water Agitation Test Fail.		Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0				Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-5</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>5 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Same as 0 to 5 feet. *Some Petroleum impacts present		22
6.0 - 7.0		Tan/Light Brown Mf SAND, trace Silt. Soils from approximately 8 - 9 feet are heavily saturated with product. Soil/Water Agitation Test Fail. Product dripping from soil boring liner. TWP set at 10 Feet.		32.1
7.0 - 8.0				38.7
8.0 - 9.0				46
9.0 - 10.0			FPA-5 @ 9.5' - 10'	52.1
10.0 - 11.0	5	Tan Cmf SAND, water saturated. No Petroleum impacts observed.		2.1
11.0 - 12.0			FPA-5B @ 11.5' - 12'	0.9
12.0 - 13.0				0
13.0 - 14.0				0
14.0 - 15.0				0
15.0 - 16.0		<b>END of Boring at 15 Feet</b>		
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-6</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>6 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material) - No environmental impact observed.		0
1.0 - 2.0				0
2.0 - 3.0				0
3.0 - 4.0				0
4.0 - 5.0				0
5.0 - 6.0	2.5	Same as 0 to 5 feet. No petroleum odors  Tan/Light Brown Mf SAND, trace Silt. No Petroleum odors or staining present. Possible delineation point. Soil/Water Agitation Test PASS.		0
6.0 - 7.0				0.4
7.0 - 8.0				0.2
8.0 - 9.0				0
9.0 - 10.0				FPA-6 @ 9.5' - 10'
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-7</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>7 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.0				0.9
2.0 - 3.0		Tan/Yellow SILT and Mf SAND. Certain areas are stained black and have petroleum odors.		17.1
3.0 - 4.0				21
4.0 - 5.0				38.5
5.0 - 6.0	2.5	Tan Mf SAND - Heavy petroleum contamination/product. Soil/Water Agitation Test FAIL at 6.0 and 8.0 Feet.		45.1
6.0 - 7.0				53
7.0 - 8.0		Black Mf SAND. TWP set at 10 Feet.		65.7
8.0 - 9.0				48.2
9.0 - 10.0				34.6
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-8</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>8 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0		Tan/Yellow SILT and Mf SAND. Petroleum impacts present throughout.		Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0			FPA-8 @ 4.5' - 5'	Not Recorded
5.0 - 6.0	2.5	Tan/Light Brown Mf SAND - Heavy Petroleum impacts. Soil/Water Agitation Test FAIL at 7.5 Feet.		Not Recorded
6.0 - 7.0				Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0		Black/Dark Brown SILT and f Sand. Very small amount of organics near 10 feet.		Not Recorded
9.0 - 10.0			FPA-8B @ 9.5' - 10'	Not Recorded
10.0 - 11.0	5	Tan Cmf SAND, water saturated. No Petroleum impacts observed.		Not Recorded
11.0 - 12.0			FPA-8C @ 10.5' - 11-	Not Recorded
12.0 - 13.0				Not Recorded
13.0 - 14.0				Not Recorded
14.0 - 15.0				Not Recorded
15.0 - 16.0		<b>END of Boring at 15 Feet</b>		
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-9</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>9 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0		Tan/Yellow SILT and Mf SAND. Staining and petroleum impacts throughout.		Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Tan Mf SAND - Heavy petroleum contamination/product from 6.0 - 9.0 Feet. Soil/Water Agitation Test FAIL at 7.5 Feet. TWP set at 10 Feet.		Not Recorded
6.0 - 7.0				Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.5				Not Recorded
9.5 - 10.0		Black SILT with organic material.		Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-10</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>10 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0		Tan/Brown Mf SAND. Minor petroleum impacts.		Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Grey/Tan Mf SAND - Heavy petroleum contamination/product from 6.0 - 10.0 Feet. Soil/Water Agitation Test FAIL at 7.5 Feet.		Not Recorded
6.0 - 7.0				Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.5				Not Recorded
9.5 - 10.0		Black SILT with organic material.		Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-11</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>11 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Same as 0 to 5 feet.		Not Recorded
6.0 - 7.0		Grey/Tan Mf SAND - Heavy petroleum contamination/product from 6.0 - 10.0 Feet. Product visible on Geoprobe Drill Rods. Soil/Water Agitation Test FAIL at 7.5 Feet. TWP set at 10 Feet.		Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0			FPA-11 @ 9.5' - 10'	Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-12</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>12 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Same as 0 to 5 feet.		Not Recorded
6.0 - 7.0		Grey/Tan Mf SAND - Heavy petroleum contamination/product from 6.5 - 10.0 Feet. Product visible on Geoprobe liner. Soil/Water Agitation Test FAIL at 7.5 Feet. TWP set at 10 Feet.		Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0				Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-13</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>13 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Tan/Yellow SILT and Mf SAND.		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Tan Mf SAND - Heavy petroleum contamination/product from 6.0 - 10.0 Feet. Soil/Water Agitation Test FAIL at 8 Feet.		Not Recorded
6.0 - 7.0				Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0				FPA-13 @ 9.5' - 10'
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-14</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>14 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Tan/Yellow Mf SAND, little mf gravel. No Petroleum Impacts.		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Same as 0 to 5 Feet.		Not Recorded
6.0 - 7.0		Grey/Black (Stained) f SAND and SILT - Heavy petroleum contamination/product from 7.5 - 9.5 Feet. Soil/Water Agitation Test FAIL at 8 Feet. TWP set at 10 Feet.		Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0			FPA-14 @ 8.5' - 9'	Not Recorded
9.0 - 10.0			Not Recorded	
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>		<b>BORING NO.:</b>		<b>FPA-15</b>	
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>		<b>SHEET NO.:</b>		<b>15 OF 23</b>	
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>		<b>AOC:</b>		<b>AOC-1</b>	
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>		<b>DEPTH TO WATER:</b>		<b>5.5 Feet BGS.</b>	
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>		<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>		
0.0 - 1.0	2.5	Tan/Yellow Mf SAND, little mf gravel. No Petroleum Impacts.			Not Recorded		
1.0 - 2.0					Not Recorded		
2.0 - 3.0					Not Recorded		
3.0 - 4.0					Not Recorded		
4.0 - 5.0					Not Recorded		
5.0 - 6.0	2.5	Same as 0 to 5 Feet.			Not Recorded		
6.0 - 7.0		Grey/Black (Stained) f SAND and SILT - Heavy petroleum contamination/product from 7.5 - 9.5 Feet. Soil/Water Agitation Test FAIL at 7 Feet.			Not Recorded		
7.0 - 8.0					Not Recorded		
8.0 - 9.0					Not Recorded		
9.0 - 10.0					Not Recorded		
10.0 - 11.0		<b>END of Boring at 10 Feet</b>					
11.0 - 12.0							
12.0 - 13.0							
13.0 - 14.0							
14.0 - 15.0							
15.0 - 16.0							
16.0 - 17.0							
17.0 - 18.0							
18.0 - 19.0							
19.0 - 20.0							
20.0 - 21.0							
21.0 - 22.0							
22.0 - 23.0							
23.0 - 24.0							
24.0 - 25.0							
25.0 - 26.0							
26.0 - 27.0							
27.0 - 28.0							
28.0 - 29.0							
29.0 - 30.0							
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>					
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-16</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>16 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Tan/Yellow Mf SAND, little mf gravel. Heavy Petroleum Impacts present. Soil/Water Agitation Test FAIL at 3.0 Feet.		Not Recorded
1.0 - 2.0				Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Same as 0 to 5 Feet.		Not Recorded
6.0 - 7.0				Not Recorded
7.0 - 8.0		Grey/Black (Stained) f SAND and SILT - Heavy staining from 6 to 10. TWP set at 10 Feet.		Not Recorded
8.0 - 9.0			FPA-16 @ 8.5' - 9'	Not Recorded
9.0 - 10.0				Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-17</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>17 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 20, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.0				0
2.0 - 3.0				2.5
3.0 - 4.0				7.5
4.0 - 5.0				44
5.0 - 6.0	2.5	Black Mf SAND - Heavy petroleum contamination/product from 6.0 - 9.0 Feet. Soil/Water Agitation Test FAIL at 7.5 Feet. TWP set at 10 Feet.		60
6.0 - 7.0				72
7.0 - 8.0				121
8.0 - 9.0				16
9.0 - 10.0		Tan Mf SAND - Contamination clears up. Black Organic material from 9.5 - 10 Feet.	FPA-17 @ 9.5' - 10'	7.8
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-18</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>18 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 20, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		Not Recorded
1.0 - 2.5				Not Recorded
2.5 - 3.0		Tan Mf SAND, little Silt. Heavy impacts begin at 3.0 Feet.		Not Recorded
3.0 - 4.0		Free Product Saturated soils.		Not Recorded
4.0 - 5.0				Not Recorded
5.0 - 6.0	2.5	Black Mf SAND - Heavy petroleum contamination/product from 3.0 - 10.0 Feet. Soil/Water Agitation Test FAIL at 3 - 10 Feet. TWP set at 10 Feet.		Not Recorded
6.0 - 7.0				Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0			FPA-18 @ 9.5' - 10'	Not Recorded
10.0 - 11.0	5	Brown/Tan Mf SAND, trace Silt - water saturated. Slight Petroleum sheen at 10.5, but minimal impacts present.		17
11.0 - 12.0				26
12.0 - 13.0				35.7
13.0 - 14.0				5.8
14.0 - 15.0				3.2
15.0 - 16.0		<b>END of Boring at 15 Feet</b>		
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-19</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>19 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 20, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.5				0
2.5 - 3.0		Tan Mf SAND, little Silt. Light impacts from 3.0 to 5.0 Feet.		1.8
3.0 - 4.0				7.9
4.0 - 5.0				55
5.0 - 6.0	2.5	Black Mf SAND - Heavy petroleum contamination/product from 5.0 - 9.0 Feet. Soil/Water Agitation Test FAIL - visible product from 5 - 9 Feet.		70.1
6.0 - 7.0				92
7.0 - 8.0				117
8.0 - 9.0				104
9.0 - 10.0		Grey Mf SAND	FPA-19 @ 9.5' - 10'	16
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-20</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>20 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 20, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.5				0
2.5 - 3.0		Tan Mf SAND, little Silt. Minimal impacts from 3.0 to 5.0 Feet.		0
3.0 - 4.0				0
4.0 - 5.0				6.7
5.0 - 6.0	2.5	Same as 0 - 5 Feet.		55
6.0 - 7.0		Black Mf SAND, trace Silt - Moderate petroleum contamination from 5.0 - 9.0 Feet. Soil/Water Agitation Test PASS. Potential Delineation Point.		38
7.0 - 8.0				111
8.0 - 9.0				21
9.0 - 10.0			FPA-20 @ 9.5' - 10'	14
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-21</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>21 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 20, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.5				0
2.5 - 3.0				0
3.0 - 4.0				0
4.0 - 5.0				Black Mf SAND. Minimal impacts from 4.0 to 6.0 Feet.
5.0 - 6.0	2.5	Same as 0 - 5 Feet.		90.6
6.0 - 7.0		Dark Brown/Tan f SAND, trace Silt - Moderate petroleum contamination. Soil/Water Agitation Test PASS. Potential Delineation Point.		35
7.0 - 8.0				16
8.0 - 9.0				13
9.0 - 10.0				FPA-21 @ 9.5' - 10'
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-22</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>22 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 20, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.5				0
2.5 - 3.0				0
3.0 - 4.0				0
4.0 - 5.0				0
5.0 - 6.0	2.5	Same as 0 to 5 Feet.		0
6.0 - 7.0				136
7.0 - 7.5			Black Mf SAND - Heavy petroleum contamination/product from 7.0 - 7.5 Feet. Soil/Water Agitation Test FAIL at 7.5	
7.5 - 9.0		Dark Brown/Black petroleum impacted f SAND. TWP set at 10 Feet.		112
9.0 - 10.0			FPA-22 @ 9.5' - 10'	60
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-23</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>23 OF 23</b>
<b>DATE:</b>		<b>NOVEMBER 20, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.5				0
2.5 - 3.0				0
3.0 - 4.0				0
4.0 - 5.0				0
5.0 - 6.0	2.5	Same as 0 to 5 Feet.		0
6.0 - 7.0				0
7.0 - 8.0		Brown/Tan MF SAND - Heavy Petroleum Impacts/product present. Soil/Water Agitation Test Fail at 8.0 Feet. TWP set at 10 Feet.		16
8.0 - 9.0				44
9.0 - 10.0				66
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-25</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>1 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.5	2.5	Blue/ Dark Green SILT, little f sand and mf gravel. (excavation backfill material)		0
1.5 - 2.0		Tan SILT, Little mf Sand		0.6
2.0 - 3.0				0.3
3.0 - 4.5				13.8
4.5 - 5.0			Stained Black mf SAND. (Petroleum Odors)	
5.0 - 6.0	4	Grey Cmf SAND, trace Silt and Agitation Test PASS at 6.5 - 7.0. (Petroleum Odors)		25.9
6.0 - 7.0			FPA-25 @ 6.5-7.0	48.7
7.0 - 8.0		Black SILT, little mf Sand. (Petroleum Odors)		6
8.0 - 9.0		Black/Grey Cmf SAND, trace Silt. Soil/Water Agitation Test Pass. Temporary Well Point (TWP) installed at 10 Feet.		3
9.0 - 10.0				2.2
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-26</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>2 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	1.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0				0
2.0 - 3.0				68.6
3.0 - 4.0				13.1
4.0 - 5.0				6.4
5.0 - 6.0	2	Black/Dark Brown Mf SAND, trace Silt. Soil/Water Agitation Test Pass.		2
6.0 - 7.0				0.7
7.0 - 8.0				26
8.0 - 9.0				0.3
9.0 - 10.0				0.1
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				



<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-27</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>3 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0				0.2
2.0 - 3.0				0.3
3.0 - 4.0				0.2
4.0 - 5.0				0.2
5.0 - 6.0	2.5	Tan SILT, little Mf Sand.		0.3
6.0 - 7.0				0.5
7.0 - 8.0		Brown/Dark Brown CMf SAND, trace Silt. Soil/Water Agitation Test Pass.	FPA-27 @ 7.5-8.0	0.2
8.0 - 9.0				0
9.0 - 10.0				0
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-28</b>		
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>4 OF 15</b>		
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>		
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>		
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>		
0.0 - 1.0	3.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		13.7		
1.0 - 2.0				4.4		
2.0 - 3.0				2.8		
3.0 - 4.0				10.7		
4.0 - 5.0				6.1		
5.0 - 6.0	3.5	Same as above - Excavation Backfill. GW at 5.5 with sheen on water within boring.		0.6		
6.0 - 7.0				78.2		
7.0 - 7.5		Black/Dark Brown Mf SAND, trace Silt. Heavy Petroleum Odors. Soil/Water Agitation Test FAIL at 7.5 - 8.0.	FPA-28 @ 7.5-8.0		141.9	
7.5 - 9.0				Dark Brown Mf SAND, trace Silt with moderate petroleum odors. Soil/Water Agitation Test FAIL at 8.0 - 8.5. Temporary Well Point set at 10.0 Feet.		134
9.0 - 10.0						51.3
10.0 - 11.0		<b>END of Boring at 10 Feet</b>				
11.0 - 12.0						
12.0 - 13.0						
13.0 - 14.0						
14.0 - 15.0						
15.0 - 16.0						
16.0 - 17.0						
17.0 - 18.0						
18.0 - 19.0						
19.0 - 20.0						
20.0 - 21.0						
21.0 - 22.0						
22.0 - 23.0						
23.0 - 24.0						
24.0 - 25.0						
25.0 - 26.0						
26.0 - 27.0						
27.0 - 28.0						
28.0 - 29.0						
29.0 - 30.0						
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>				
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.						

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-29</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>5 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		2.3
1.0 - 2.0				1.1
2.0 - 3.0				0.9
3.0 - 4.0				3
4.0 - 5.0				0.6
5.0 - 6.0	3	Same as above - Excavation Backfill.		1.2
6.0 - 7.0				37
7.0 - 7.5			81	
7.5 - 9.0			Dark Brown Mf SAND, trace Silt with moderate petroleum odors. Soil/Water Agitation Test FAIL at 8.0 - 8.5.	
9.0 - 10.0				26.5
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-30</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>6 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0.7
1.0 - 2.0				1.6
2.0 - 3.0				0.9
3.0 - 4.0				0.8
4.0 - 5.0				0.4
5.0 - 6.0	3.5	Same as above - Excavation Backfill. Heavy Sheen on GW in boring sleeve.		1.6
6.0 - 7.0				14.4
7.0 - 7.5				48
7.5 - 9.0		Brown Mf SAND, trace Silt with heavy petroleum staining. Soil/Water Agitation Test FAIL at 8.0 - 8.5.		4.5
9.0 - 10.0		Temporary Well Point set at 10.0 Feet.		2.7
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-31</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>7 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0				0
2.0 - 3.0				0.2
3.0 - 4.0				0.4
4.0 - 5.0				0.5
5.0 - 6.0	4	Same as above - Excavation Backfill.		0.3
6.0 - 7.0		Tan/Yellow mf SAND, trace Silt.		0.7
7.0 - 7.5				0.4
7.5 - 9.0		Black Silt, trace f Sand with organics.	FPA-31 @ 7.5-8.0	0.2
9.0 - 10.0		Black/Dark Brown Cmf SAND. Agitation Test PASS.		0
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-32</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>8 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0.2
1.0 - 2.0				0.3
2.0 - 3.0				0.4
3.0 - 4.0				8.7
4.0 - 5.0				36
5.0 - 6.0	4	Tan/Light Brown Cmf Sand and Silt. (Petroleum Odor and Sheen on soils) Agitation Test FAIL.		4.2
6.0 - 7.0				6
7.0 - 7.5				46.4
7.5 - 9.0				12
9.0 - 10.0		Black/Dark Brown Cmf SAND, trace Silt. Agitation Test FAIL. Temporary Well Point set at 10.0 Feet.		4
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-33</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>9 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		9.1
1.0 - 2.0				3.7
2.0 - 3.0				1.2
3.0 - 4.0				0.6
4.0 - 5.0				0.5
5.0 - 6.0	4	Same as above - Excavation Backfill. GW present with heavy sheen and odors.		9
6.0 - 7.0		Tan/Yellow mf SAND, trace Silt. (Petroleum Odors)	FPA-33 @ 6.0-6.5	24.2
7.0 - 7.5		Brown Cmf SAND, Agitation Test FAIL.		12.9
7.5 - 9.0				2.7
9.0 - 10.0			FPA-33B @ 9.0-9.5	1.7
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-34</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>10 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0.4
1.0 - 2.0				0.4
2.0 - 3.0				0.3
3.0 - 4.0				0.4
4.0 - 5.0				0.4
5.0 - 6.5	3	Red Cmf SAND.		5.3
6.5 - 7.0		Grey/Tan Mf SAND, little Silt. Slight petroleum odors at 6.5 feet, remainder of boring generally clean.	FPA-34 @ 6.0-6.5	11.1
7.0 - 8.0				2.2
8.0 - 9.0		Black Cmf SAND, Agitation Test PASS.		1.5
9.0 - 10.0			FPA-34B @ 9.0-9.5	1.2
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		0.9
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				



<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-35</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>11 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3.5	Dark Brown Cmf Sand and concrete from 0.5 - 1.0.		Not Recorded
1.0 - 2.0		Historic Fill (Black Cmf Sand with coal, slag, glass pieces). Outside Excavation Footprint.		Not Recorded
2.0 - 3.0				Not Recorded
3.0 - 4.0				Not Recorded
4.0 - 5.0			Black Stained SILT and mf Sand.	
5.0 - 6.0	3	Black/Dark Brown SILT and mf Sand with petroleum impacts.		Not Recorded
6.0 - 7.0		Tan/Brown mf SAND, trace Silt. Soil/Water Agitation Test FAIL.		Not Recorded
7.0 - 8.0				Not Recorded
8.0 - 9.0				Not Recorded
9.0 - 10.0				Not Recorded
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-36</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>12 OF 15</b>
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0				0
2.0 - 3.0				0
3.0 - 4.0				0
4.0 - 5.0				0
5.0 - 6.0	3	Red Cmf SAND.		5
6.0 - 7.5		Tan/Brown SILT and mf SAND. (Slight Odors)		19.1
7.5 - 8.0		Brown/Tan Cmf SAND, Agitation Test PASS.		7.2
8.0 - 9.0				4.8
9.0 - 10.0			FPA-36 @ 9.0-9.5	7.8
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
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24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-37</b>	
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>13 OF 15</b>	
<b>DATE:</b>		<b>JANUARY 20, 2021</b>	<b>AOC:</b>	<b>AOC-1 (On Hill)</b>	
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>8.0 Feet BGS.</b>	
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>	
0.0 - 1.0	2	Black Cmf SAND and some organics (topsoil on hill).		0	
1.0 - 2.0		Mix of Tan/Brown Cmf SAND and Silts.		0	
2.0 - 3.0				0	
3.0 - 4.0				0	
4.0 - 5.0				0	
5.0 - 6.0	4	Tan Cmf SAND with petroleum odors.		10.9	
6.0 - 7.0		Brown Cmf SAND.		13.9	
7.0 - 8.0				4.6	
8.0 - 9.0			Tan CM SAND. Groundwater at 8.0 Feet, Agitation Test PASS. Temporary Well Point set at 10.0 feet.		3
9.0 - 10.0				FPA-37 @ 9.0-9.5	2.4
10.0 - 11.0		<b>END of Boring at 10 Feet</b>			
11.0 - 12.0					
12.0 - 13.0					
13.0 - 14.0					
14.0 - 15.0					
15.0 - 16.0					
16.0 - 17.0					
17.0 - 18.0					
18.0 - 19.0					
19.0 - 20.0					
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21.0 - 22.0					
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23.0 - 24.0					
24.0 - 25.0					
25.0 - 26.0					
26.0 - 27.0					
27.0 - 28.0					
28.0 - 29.0					
29.0 - 30.0					
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>			
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-38</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>14 OF 15</b>
<b>DATE:</b>		<b>JANUARY 21, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.0 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/Dark Green SILT, little f Sand and mf gravel. (Excavation Backfill)		0
1.0 - 2.0		Yellow/Tan f SAND and Silt,		17.6
2.0 - 3.0				73
3.0 - 4.0		Black/Dark Brown Cmf SAND, trace Silt. Groundwater at 5.0 Feet. Heavy Petroleum impacts.		46
4.0 - 5.0				61
5.0 - 6.0	3.5	Tan/Brown Mf SAND.		28
6.0 - 7.5				38
7.5 - 8.0		Dark Brown Cmf SAND. Agitation Test PASS. Temporary Well Point set at 10.0 Feet.		7.9
8.0 - 9.0				3.2
9.0 - 10.0				2.2
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-39</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>15 OF 15</b>
<b>DATE:</b>		<b>JANUARY 21, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>5.0 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0				0
2.0 - 3.0				0
3.0 - 4.0				0
4.0 - 5.0				0
5.0 - 6.0	2	Same as Above - Excavation Backfill.		2.2
6.0 - 7.0		Black/Dark Brown Silt, little f Sand.		3.6
7.0 - 8.0		Black Mf SAND, some organics.		1.7
8.0 - 9.0		Tan/Brown Mf SAND, no visible impacts within entire boring. Agitation Test PASS and Temporary Well Point set at 10.0 Feet.		0
9.0 - 10.0				0
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-40</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>1 OF 13</b>
<b>DATE:</b>		<b>MARCH 9, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>7.0 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0			FPA-40 @ 0.0 - 3.0	0
2.0 - 3.0			Composite;	0
3.0 - 4.0			VOCs at 2.5' - 3.0'	0
4.0 - 5.0				0
5.0 - 6.0	2.5	Same as 0 to 5 feet.		0
6.0 - 7.0				0
7.0 - 8.0		Brown Mf SAND, trace Silt. Minimal petroleum impacts noted. Soil/Water Agitation Test Pass at 7.5' - 8.0'. Temporary Well Point (TWP) installed at 10 Feet.	FPA-40B @ 7.0' - 7.5'	3.5
8.0 - 9.0				0.1
9.0 - 10.0				0.1
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-41</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>2 OF 13</b>
<b>DATE:</b>		<b>MARCH 9, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f Sand and mf gravel (excavation backfill material)		0
1.0 - 2.0			FPA-41 @ 0.0' - 2.5'	0
2.0 - 2.5		Composite;	0	
2.5 - 4.0		Brown/Tan Mf SAND VOCs at 2.0' - 2.5'	0	
4.0 - 5.0		Tan/Yellow Mf SAND, trace Clay. *Petroleum odors and staining noted.		5.5
5.0 - 5.5	3	Same as 4.0 - 5.0		16.5
5.5 - 7.0		Black CmF SAND with heavy petroleum impacts. (Product Visible). Agitation Test Fail @ 7.5' - 8.0'		30
7.0 - 8.0			FPA-41B @ 7.5' - 8.0'	37
8.0 - 9.0				65
9.0 - 10.0		Tan/Light Brown Mf SAND, trace Silt. *Much less impacts present. TWP set to 10.0 feet.		13.6
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
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24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-42</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>3 OF 13</b>
<b>DATE:</b>		<b>MARCH 9, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	4	Topsoil (Brown Mf SAND, little Silt). *Outside Excavation Area		1.9
1.0 - 2.0		Tan/Yellow Cmf SAND, little Silts.	No Shallow Sample	0.8
2.0 - 3.0				0.2
3.0 - 4.0				0.2
4.0 - 5.0				1.4
5.0 - 6.0	4	Brown/Tan Cm SAND, trace Clay ribbons.		6.9
6.0 - 7.0		Tan/Grey CM SAND	FPA-42 @ 6.5' - 7.0'	2.2
7.0 - 8.0				1.2
8.0 - 9.0		At 8.5 - Meadow Mat (organics). Then 8.5 - 10.0 is Grey CM Sand, trace f gravel. Agitation Test Pass. TWP set at 10.0 feet.		0.8
9.0 - 10.0				0
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
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23.0 - 24.0				
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25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-43</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>4 OF 13</b>
<b>DATE:</b>		<b>MARCH 9, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material).		0.7
1.0 - 2.0			FPA-43 @ 0.0' - 3.0'	0.2
2.0 - 3.0			Composite;	0.2
3.0 - 4.0			VOCs at 2.5' - 3.0'	0.3
4.0 - 5.0				0.1
5.0 - 6.0	2.5	Same as 0 to 5 feet.		0
6.0 - 7.0				0
7.0 - 8.0			FPA-43B @ 7.0' - 7.5'	0
8.0 - 9.0				0
9.0 - 10.0				0
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
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27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-44</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>5 OF 13</b>
<b>DATE:</b>		<b>MARCH 9, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0			FPA-44 @ 0.0' - 3.0'	0
2.0 - 3.0			Composite;	0
3.0 - 4.0			VOCs at 2.5' - 3.0'	0
4.0 - 5.0				0
5.0 - 6.0	2	Same as 0 to 5 feet. *Some Petroleum impacts present		0.6
6.0 - 7.0		Dark Brown/Black Cmf SAND. * Minor petroleum odors.		1
7.0 - 8.0		Brown Mf SAND, trace Silt. Agitation Test Pass; but faint petro odor on water in test jar.	FPA-44B @ 7.0' - 7.5'	14.7
8.0 - 9.0				2.7
9.0 - 10.0				0.6
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-45</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>6 OF 13</b>
<b>DATE:</b>		<b>NOVEMBER 19, 2020</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>7.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material) - No environmental impact observed.		0
1.0 - 2.0			FPA-45 @ 0.0' - 3.0'	0
2.0 - 3.0			Composite;	0
3.0 - 4.0			VOCs at 2.5' - 3.0'	0
4.0 - 5.0				0
5.0 - 6.0	2.5	Same as 0 to 5 feet. Groundwater interface approximately 8.0 feet. Mild contamination around GW interface.		0
6.0 - 7.0				0
7.0 - 8.0				11.2
8.0 - 9.0			FPA-45B @ 8.0' - 8.5'	0.4
9.0 - 10.0			0	
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-46</b>	
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>7 OF 13</b>	
<b>DATE:</b>		<b>MARCH 10, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>	
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>	
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>	
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0	
1.0 - 2.0			FPA-46 @ 0.0' - 3.0'	0	
2.0 - 3.0			Composite;	0	
3.0 - 4.0			VOCs at 2.5' - 3.0'	0	
4.0 - 5.0				0	
5.0 - 6.0	2.5	Same as above (excavation Backfill).		0	
6.0 - 7.0				9.4	
7.0 - 8.0			Black (stained) Mf SAND, trace Silt. *Moderate petroleum odors. Agitation Test PASS at 7.5' - 8.0'.	FPA-46B @ 7.5' - 8.0'	3.7
8.0 - 9.0			Black SILT with organics at 8.5 feet. Then Brown MF SAND		1.2
9.0 - 10.0			to 10 feet.		0.3
10.0 - 11.0		<b>END of Boring at 10 Feet</b>			
11.0 - 12.0					
12.0 - 13.0					
13.0 - 14.0					
14.0 - 15.0					
15.0 - 16.0					
16.0 - 17.0					
17.0 - 18.0					
18.0 - 19.0					
19.0 - 20.0					
20.0 - 21.0					
21.0 - 22.0					
22.0 - 23.0					
23.0 - 24.0					
24.0 - 25.0					
25.0 - 26.0					
26.0 - 27.0					
27.0 - 28.0					
28.0 - 29.0					
29.0 - 30.0					
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>			
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-47</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>8 OF 13</b>
<b>DATE:</b>		<b>MARCH 10, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.0			FPA-47 @ 0.0' - 3.0'	0
2.0 - 3.0			Composite;	0
3.0 - 4.0			VOCs at 2.5 - 3.0'	0
4.0 - 5.0				0
5.0 - 5.5	2.5	Same as above (Excavation Backfill)		5
5.5 - 7.0		Brown Cmf SAND, trace Silt - Moderate Petroleum odors.	FPA-47B @ 6.0' - 6.5'	91.7
7.0 - 8.5		Agitation Test FAIL at 6.0' - 6.5' and 7.5' - 8.0'.		72.3
8.0 - 9.0		Black SILT with organics at 8.5 feet. Then Brown MF SAND		15.6
9.0 - 10.0		to 10 feet.		6.9
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
The information presented in this soil boring log details the subsurface conditions observed by the soil inspector at the specific boring location, on the date of drilling. Subsurface conditions may vary across the Project Site. The observations made are for environmental classification purposes only, and are not intended to be utilized for geotechnical purposes.				

<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-48</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>9 OF 13</b>
<b>DATE:</b>		<b>MARCH 10, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.0 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3.5	Comingled Fill - Black/Brown CMf SAND, trace gravel, brick and wood pieces. Anthracite coal form 2.5' - 3.0'.		2.3
1.0 - 2.0			No Shallow Sample	0.5
2.0 - 3.0				1.2
3.0 - 4.0	4	Tan/Yellow CMf SAND, trace clay. Minor to moderate petroleum impacts at 4.0 - 4.5'.		0.3
4.0 - 5.0				13.8
5.0 - 6.0				24.8
6.0 - 7.0	4	Mix of CmF SAND, trace Silt, trace clay with moderate petroleum impacts. Groundwater observed at 6.0 feet.	FPA-48 @ 6.0' - 6.5'	9.6
7.0 - 8.0			Tan CmF SAND, trace Silt.	1.4
8.0 - 9.5			Grey/Brown CmF SAND. Agitation Test PASS @ 4.0' - 4.5' and 6.0' - 6.5'.	1.2
9.5 - 10.0				0.8
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-49</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>10 OF 13</b>
<b>DATE:</b>		<b>MARCH 10, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/Dark Green SILT, little f Sand and mf gravel (Excavation Backfill)		0
1.0 - 2.0			FPA-49 @ 0.0' - 3.0'	0
2.0 - 3.0			Composite;	0
3.0 - 4.0			VOCS at 2.5' - 3.0'	0.2
4.0 - 5.0			Black /Dark Brown Cmf SAND, trace Silt.	37.9
5.0 - 6.0	2.5	Black (stained) Cmf SAND, trace Silt. Agitation Test FAIL at 5.0' - 5.5'. Agitation Test PASS at 6.0' - 6.5' but a sheen/scum present.	FPA-49B @ 5.5' - 6.0'	46.4
6.0 - 7.0				62.2
7.0 - 8.0			Tan/Light Brown Cm SAND	3.9
8.0 - 9.5			Black/Dark Brown Cmf SAND, with little clay and silt.	0.8
9.5 - 10.0			Trace organics close to 10.0 feet.	0.4
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-50</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>11 OF 13</b>
<b>DATE:</b>		<b>MARCH 10, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3.5	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		2.2
1.0 - 2.0			FPA-50 @ 0.0' - 3.0'	1
2.0 - 3.5		Composite;	2.5	
3.5 - 4.0		Tan/Grey SILT and little Mf Sand. *Heavy staining at 4.0 feet. Agitation Test FAIL at 4.0' - 4.5'	VOCs at 2.5' - 3.0'	19.2
4.0 - 5.0				17.1
5.0 - 6.0	3.5	Dark Brown/Grey SILT and Cmf SAND, trace Clay.		27.9
6.0 - 7.0				43
7.0 - 8.0		Grey/Tan CM SAND **Saturated with product. Agitation Test FAIL at 7.5' - 8.0'.	FPA-50B @ 7.5' - 8.0'	45.6
8.0 - 9.0		Tan/Light Brown Cmf SAND - impacts drop off with depth.		101
9.0 - 10.0				15
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-51</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>12 OF 13</b>
<b>DATE:</b>		<b>MARCH 10, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>6.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	3	Blue/ Dark Green SILT, little f sand and mf gravel (excavation backfill material)		0
1.0 - 2.0			FPA-51 @ 0.0' - 3.0'	0
2.0 - 3.0			Composite;	0.1
3.0 - 3.5			VOCs at 2.5' - 3.0'	0.4
3.5 - 5.0		Tan/Grey/Black (Stained) SILT, some Mf SAND. Heavy Staining/odors at 4.0 feet.		11.1
5.0 - 6.0	4	Brown/Black Mf SAND - Heavy petroleum contamination/product from 5.0 - 9.0 Feet. Product visible on Geoprobe liner. Agitation Test FAIL at 6.0' - 6.5' and 8.0' - 8.5'.		26
6.0 - 7.0				24.3
7.0 - 8.0				36.7
8.0 - 9.0			FPA-51B @ 8.0' - 8.5'	33.2
9.0 - 10.0		Light Brown/Tan Cmf SAND		17
10.0 - 11.0		<b>END of Boring at 10 Feet</b>		
11.0 - 12.0				
12.0 - 13.0				
13.0 - 14.0				
14.0 - 15.0				
15.0 - 16.0				
16.0 - 17.0				
17.0 - 18.0				
18.0 - 19.0				
19.0 - 20.0				
20.0 - 21.0				
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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<b>PROJECT NAME:</b>		<b>SOUTH AMBOY FERRY TERMINAL</b>	<b>BORING NO.:</b>	<b>FPA-52 (On Berm)</b>
<b>PROJECT LOCATION:</b>		<b>SOUTH AMBOY, NEW JERSEY</b>	<b>SHEET NO.:</b>	<b>13 OF 13</b>
<b>DATE:</b>		<b>MARCH 10, 2021</b>	<b>AOC:</b>	<b>AOC-1</b>
<b>DRILLING METHOD:</b>		<b>DIRECT PUSH DRILL RIG</b>	<b>DEPTH TO WATER:</b>	<b>10.5 Feet BGS.</b>
<b>DEPTH (FEET)</b>	<b>RECOVERY (FEET)</b>	<b>SOIL DESCRIPTION</b>	<b>SAMPLE DEPTH</b>	<b>PID READINGS</b>
0.0 - 1.0	2.5	Tan CMF SAND, small pieces of anthracite coal at surface.		0.1
1.0 - 2.0		Historic Fill - Black/Brown Cmf Sands, silts and gravel with wood, glass and coal.	No Shallow Sample	0.1
2.0 - 3.0				0.2
3.0 - 4.0				0
4.0 - 5.0				0
5.0 - 6.0	2.5	Tan/Orange SILT, little Mf Sand.		0
6.0 - 7.0				0
7.0 - 8.0				0
8.0 - 9.0				0
9.0 - 10.0			Tan Cm SAND.	
10.0 - 11.0	3.5	Tan/Grey Cmf SAND, little Silt - moderate petroleum impacts. Lines up with impacted depths observed at ground level. Agitation Test FAIL at 11.0' - 11.5' and 14.5' - 15.0.		10.7
11.0 - 12.0			FPA-52 @ 11.0' - 11.5'	55.9
12.0 - 13.0				42.8
13.0 - 14.0				32.2
14.0 - 15.0				54
15.0 - 16.0	5	White/Tan Cmf SAND. **Sheen on GW within boring.		56.1
16.0 - 17.0		Dark Brown/Black Cmf SAND. Agitation Test PASS at 16.5' - 17.0' with scum present.		33.6
17.0 - 18.0		Dark Brown SILT with some organics (Meadow Mat).		10.2
18.0 - 19.0		Dark Brown SILT and mf SAND.		6.5
19.0 - 20.0		Light Brown Mf SAND, trace Silt.		0
20.0 - 21.0		<b>END of Boring at 20 Feet</b>		
21.0 - 22.0				
22.0 - 23.0				
23.0 - 24.0				
24.0 - 25.0				
25.0 - 26.0				
26.0 - 27.0				
27.0 - 28.0				
28.0 - 29.0				
29.0 - 30.0				
<b>SOIL INSPECTOR:</b>		<b>TYLER MARTZ</b>		
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View of Failed Soil/Water Agitation Test at FPA-1 at 8.5 feet below ground surface.



View of typical soil core (FPA-1 shown) from within the excavation area. The closer core represents 0 to 5 feet (excavation backfill) and the further core represents 5 to 10 feet with product saturated soils present from approximately 7.5 – 9.5 feet.



**SOUTH AMBOY FERRY TERMINAL**  
**Foot of Radford Ferry Road, South Amboy**  
**Middlesex County, New Jersey**

DATE:

11/19/20

JOB No.

13749.002

Photo No.

1 and 2





View of clean bailer (no measurable product) from TWP-1 (Boring FPA-1). Strong Petroleum odor noted on the groundwater.



View of Failed Soil/Water Agitation Test at FPA-2 at 8.0 feet below ground surface.



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3 and 4



View of Failed Soil/Water Agitation Test at FPA-4 (8.0 Feet).



View of separate phase (product) on FPA-5 boring liner.



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5 and 6





**View of Failed Soil/Water Agitation Test at FPA-5 (8.5 Feet).**



**View of Failed Soil/Water Agitation Test at FPA-5, next to product saturated soils.**



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7 and 8



View of minor product globules on bailer at TWP-5 (Boring FPA-5)



View of Oil/Water interface probe with oil globules on tip from TWP-5 (Boring FPA-5).



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9 and 10





**View of Passing Soil/Water Agitation Test at FPA-6. Potential Delineation Point to the south.**



**View of Failed Soil/Water Agitation Test at FPA-7 at 6.5 feet (shown right) and 8.0 feet (shown left).**



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11 and 12





Close up view of Agitation Test Fail at FPA-7 (6.5 Feet).



View of approximately six-inches of product in TWP-7 (Boring FPA-7).



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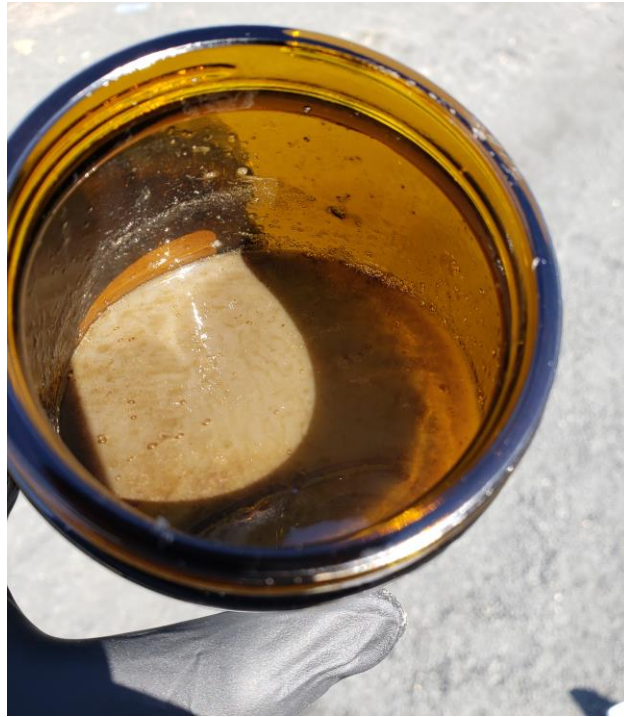
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13 and 14



**View of Failed Soil/Water Agitation Test at FPA-8 (7.5 Feet).**



**View of Failed Soil/Water Agitation Test in FPA-9 (7.5 Feet).**



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15 and 16





View of approximately six-inches of product in TWP-9 (Boring FPA-9).



View of Failed Soil/Water Agitation Test at FPA-10. See oil globules trapped on the sides of the container.



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17 and 18



**View of Failed Soil/Water Agitation Test at FPA-11 (7.5 Feet).**



**View of approximately one-inch of product in TWP-11 (Boring FPA-11).**



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**View of Failed Soil/Water Agitation Test at FPA-12 (8 Feet).**



**View of Failed Agitation Test at FPA-12. Side view to show separate phase still bound to the fine sands even when water is applied.**



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21 and 22



**View of no measurable product at TWP-12 (Boring FPA-12). Slight sheen on groundwater and product globules/smearing on bailer.**



**View of Failed Soil/Water Agitation Test at FPA-13 (8 Feet).**



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23 and 24





**View of product saturated soils at FPA-14 (8 Feet).**



**View of Failed Soil/Water Agitation Test at FPA-14 (8 Feet).**



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25 and 26



**View of Failed Soil/Water Agitation Test at FPA-14 (Top View).**



**View of Failed Soil/Water Agitation Test at FPA-15 (6.5 Feet).**



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27 and 28





**View of Failed Soil/Water Agitation Test at FPA-16 (7.0 Feet). This boring also had significant impacts in the shallow core from 1 to 3 feet below ground surface.**



**View of Failed Soil/Water Agitation Test in FPA-16 (3.0 Feet)**



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**View of no product at TWP-16 (Boring FPA-16). No sheen present either; however, moderate petroleum odor present on groundwater.**



**View of Failed Soil/Water Agitation Test at FPA-17 (8 Feet).**



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31 and 32





**View of several feet of product in TWP-17 (Boring FPA-17). Total thickness could not be measured due to product viscosity and the bailer quality.**



**View of Failed Soil/Water Agitation Test at FPA-18 (8 Feet).**



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33 and 34



**View of several feet of product in TWP-18 (Boring FPA-18). Just over two feet measured.**



**View of Failed Soil/Water Agitation Test at FPA-19 (8 Feet).**



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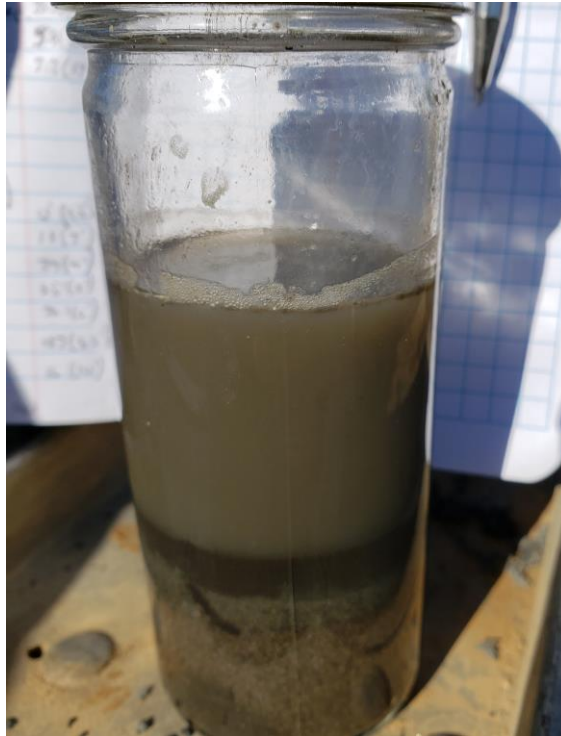
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**View of Passed Soil/Water Agitation Test at FPA-20 (8 Feet). Potential delineation point.**



**View of Passed Soil/Water Agitation Test at FPA-21 (8 Feet). Potential delineation point.**



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**View of heavily impacted soils at 7.5 Feet within Boring FPA-22. Visible Product on soil core.**



**View of Failed Soil/Water Agitation Test at FPA-22 (7.5 Feet). Very Black product.**



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View of approximately one-foot of product measured within TWP-22 (Boring FPA-22).



View of Failed Soil/Water Agitation Test at FPA-23 (8 Feet).



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**View of oil streaming off TWP-17 after removal.**



**View of over two-feet of product in PR-1. An accurate measurement was difficult due to the amount of product present. (Photo taken on January 20, 2021)**



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**View of Failed Soil/Water Agitation Test in Boring FPA-25 at 6.0 – 6.5 Feet.**



**View of approximately 0.02 feet of product in TWP-25**



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**View of Passed Soil/Water Agitation Test in Boring FPA-26 at 7.5 – 8.0 Feet.**



**View of Passed Soil/Water Agitation Test in Boring FPA-27 at 8.0 – 8.5 Feet.**



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**View of heavy petroleum impacts in soil boring FPA-28 from 7.0 – 9.0 feet.**



**View of Failed Soil/Water Agitation Test in Boring FPA-28 at 8.0 – 8.5 Feet.**



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**View of no measurable product on water within TWP-28.**



**View of Failed Soil/Water Agitation Test in Boring FPA-29 at 8.0 – 8.5 Feet.**



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**View of heavy petroleum impacts and sheen on water/soil within FPA-30 at 7.0 – 9.0 feet.**



**View of Failed Soil/Water Agitation Test in Boring FPA-30 at 7.5 – 8.0 Feet.**



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**View of no measurable product on groundwater within TWP-30.**



**Close View of Failed Soil/Water Agitation Test in Boring FPA-32 at 6.0 – 6.5 Feet.**



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**View of Failed Soil/Water Agitation Test within FPA-32 at 7.5 – 8.0.**



**View of no measurable product on groundwater within TWP-32.**



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**View of slight oil sheen/slick on outside of bailer at TWP-32.**



**View of Failed Soil/Water Agitation Test within FPA-33 at 6.0 – 6.5 Feet.**



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59 and 60





**View of Failed Soil/Water Agitation Test within FPA-35 at 6.0 – 6.5.**



**View of Failed Soil/Water Agitation Test within FPA-35 at 8.0 – 8.5.**



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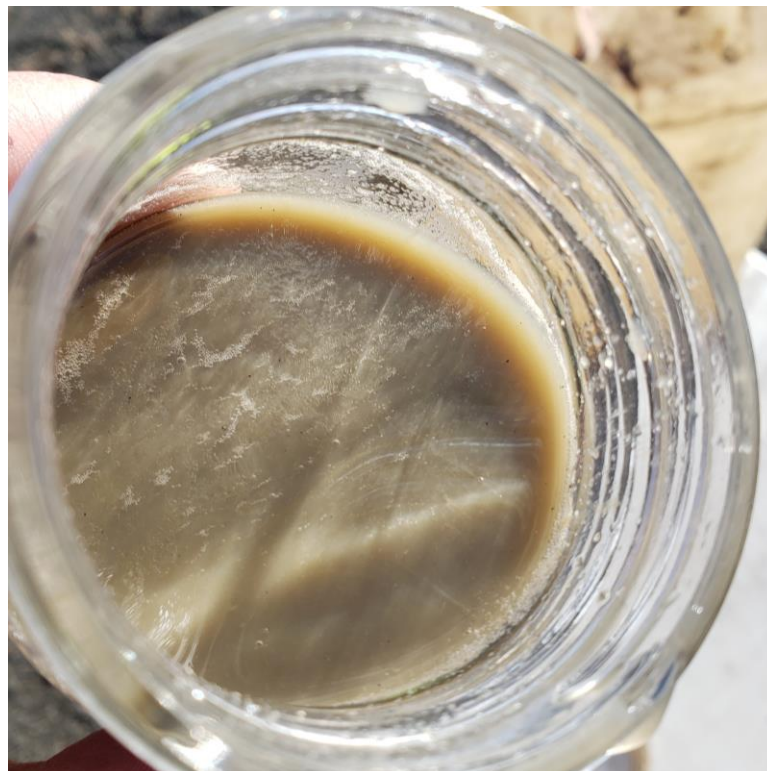
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**View of Passed Soil/Water Agitation Test within FPA-36 at 8.5 – 9.0.**



**View of Passed Soil/Water Agitation Test within FPA-37 at 6.0 – 6.5.**



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View of no measurable product on the groundwater within TWP-37.



View of Passed Soil/Water Agitation Test within FPA-37 at 6.0 – 6.5.



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**View of Passed Soil/Water Agitation Test within FPA-38 at 4.0 – 4.5 feet where heavy petroleum impacts were observed.**



**View of no measurable product on the groundwater within TWP-38.**



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**View of oil sheen/slick on outside of bailer after gauging TWP-38.**



**View of no measurable product on the groundwater within TWP-39.**



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