

BORING NO.	DATE DRILLED	MILE MARKER	OFFSET (FT)	DEPTH (FT)	SAMPLE TYPE	FIELD DESCRIPTION	LABORATORY RESULTS																
							SOIL TYPE, COLOR, MOISTURE	% MOISTURE	AASHTO CLASS.	SOIL DES.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT								
B-101	7/14/2011	MM 0.0	7.3	0.0 - 0.7		Asphalt Pavement																	
				0.7 - 5.0	Auger	SILT, S. f.m.c. Sand, tr. f. gravel, l. brn, moist	15.5	A-4	ML	1.0	28.3	70.7											
End of Boring @ 5.0 feet																							
B-102	7/14/2011	MM 0.2	6.1	0.0 - 0.3		Asphalt Pavement																	
				0.3 - 0.7		Concrete																	
				0.7 - 0.8		Subbase																	
				0.8 - 5.0	Auger	f.m.c. SAND, S. Silt, S. f.c. Gravel, brn, moist	8.4	A-2-4	SM	31.9	38.6	29.5											
End of Boring @ 5.0 feet																							
B-103	7/14/2011	MM 0.4	6.7	0.0 - 0.7		Asphalt Pavement																	
				0.7 - 1.0		Concrete																	
				1.0 - 2.5		f.m.c. SAND, S. f.c. Gravel, l. brn, moist			A-1-b	SP													
				2.5 - 5.0	Auger	f.m.c. SAND, lit. silt, tr. F. gravel, brn, moist/wet			A-2-4	SM													
End of Boring @ 5.0 feet																							
B-104	7/14/2011	MM 0.6	5.9	0.0 - 0.2		Asphalt Pavement (Layer 1)																	
				0.2 - 0.8		Asphalt Pavement (Layer 2)																	
				0.8 - 1.0		Subbase																	
				1.0 - 4.0		f.m.c. SAND, S. f.c. Gravel, lit. silt, l. brn, moist			A-1-b	SM													
B-105	7/14/2011	MM 0.8	7.0	0.0 - 0.2		Asphalt Pavement (Layer 1)																	
				0.2 - 0.9		Asphalt Pavement (Layer 2)																	
				0.9 - 1.1		Subbase																	
				1.1 - 4.0		f.m.c. SAND, S. Silt, lit. f.c. gravel, brn, moist			A-2-4	SM													
B-106	7/14/2011	MM 1.0	7.4	0.0 - 1.0		Asphalt Pavement																	
				1.0 - 5.0	Auger	f.m.c. SAND, S. Silt, S. f.c. Gravel, brn, moist	8.5	A-2-4	SM	27.1	50.6	22.3											
				End of Boring @ 5.0 feet																			
				End of Boring @ 5.0 feet																			

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B-114	7/14/2011	MM 2.6	7.2	0.0 - 0.7		Asphalt Pavement															
				0.7 - 0.9		Old Asphalt Pavement															
				0.9 - 1.1		f.m.c. SAND, S. f.c. Gravel, l. brn, moist (Subbase)			A-1-b	SP											
				1.1 - 5.0	Auger	Silty CLAY, tr. f.m.c. sand, gray/brn, moist	27.6	A-7-6	CL	0.0	2.9	97.1	43	22							
End of Boring @ 5.0 feet																					
B-115	7/14/2011	MM 2.8	7	0.0 - 0.5		Asphalt Pavement															
				0.5 - 0.7		Old Asphalt/Subbase															
				0.7 - 2.0		f.m.c. SAND, S. Silt, lit. f.c. gravel, l. brn, moist															
				2.0 - 5.0	Auger	f.m.c. SAND, S. Silt, S. f.c. Gravel, l. gray, moist	9.6	A-2-4	SM	24.4	46.5	29.1									
End of Boring @ 5.0 feet																					
B-116	7/14/2011	MM 3.0	5.9	0.0 - 0.8		Asphalt Pavement															
				0.8 - 2.5		f.m.c. SAND, S. Silt, lit. f.c. gravel, l. brn, moist			A-2-4	SM											
				2.5 - 5.0	Auger	Silty CLAY, tr. f.m.c. sand, brn, moist			A-4	CL											
				End of Boring @ 5.0 feet																	
B-117	7/14/2011	MM 3.2	4.9	0.0 - 0.9		Asphalt Pavement (mult. Layers)															
				0.9 - 5.0	Auger	f.m.c. SAND, lit. silt, lit. f.c. gravel, gray, wet			A-2-4	SM											
				End of Boring @ 5.0 feet																	
				End of Boring @ 5.0 feet (water @ 1.7 feet)																	
B-118	7/14/2011	MM 3.4	7.2	0.0 - 1.0		Asphalt Pavement															
				1.0 - 1.2		Subbase															
				1.2 - 3.0		Silty CLAY, lit. f.m.c. sand, lit. f.c. gravel, brn, moist			A-4	CL											
				3.0 - 5.0	Auger	Silty CLAY, lit. f.m.c. sand, lit. f.c. gravel, gray, moist	17.8	A-4	CL	15.6	16.1	68.3	30	21							
End of Boring @ 5.0 feet																					
B-119	7/14/2011	MM 3.6	9.1	0.0 - 1.2		Asphalt Pavement															
				1.2 - 2.5		f.m.c. SAND, S. Silt, lit. f.c. gravel, brn, moist			A-2-4	SM											
				2.5 - 5.0	Auger	Cl. SILT, lit. f.m.c. sand, gray/brn, moist	29.6	A-4	ML	2.0	21.7	76.3									
End of Boring @ 5.0 feet																					

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							SOIL TYPE, COLOR, MOISTURE	% MOISTURE	AASHTO CLASS.	SOIL DES.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT				
B-107	7/14/2011	MM 1.2	7.1	0.0 - 0.6		Asphalt Pavement													
				0.6 - 0.7		Subbase													
				0.7 - 5.0	Auger	f.m. SAND, lit. f.c. gravel, tr. silt, tr. c. sand, brn, moist	3.6	A-3	SP	12.5	81.9	5.9							
End of Boring @ 5.0 feet																			
B-108	7/14/2011	MM 1.4	8.4	0.0 - 0.6		Asphalt Pavement													
				0.6 - 0.8		Subbase/ Very Poor Grade Asphalt													
				0.8 - 5.0	Auger	f.m. SAND, tr. silt, tr. c. sand, tr. f. gravel, brn, moist/wet			A-3	SP									
End of Boring @ 5.0 feet																			
B-109	7/14/2011	MM 1.6	5.3	0.0 - 1.2		Asphalt Pavement													
				1.2 - 3.0		SILT, S. f.m.c. Sand, lit. f.c. gravel, gray, moist													
				3.0 - 5.0	Auger	Cl. SILT, lit. f.m.c. sand, tr. f. gravel, tr. org., gray, moist/wet	26.1	A-4	ML	2.8	16.8	80.4							
End of Boring @ 5.0 feet																			
B-110	7/14/2011	MM 1.8	3.6	0.0 - 0.9		Asphalt Pavement													
				0.9 - 3.5		Cl. SILT, S. f.m.c. Sand, lit. f.c. gravel, gray, moist			A-4	ML									
				3.5 - 5.0	Auger	Cl. SILT, S. f.m.c. Sand, gray, wet			A-4	ML									
End of Boring @ 5.0 feet																			
B-111	7/14/2011	MM 2.0	4.9	0.0 - 0.9		Asphalt Pavement													
				0.9 - 1.2		Subbase/Poor Grade Asphalt													
				1.2 - 5.0	Auger	SILT and f. SAND, lit. f.c. gravel, tr. clay, tr. m.c. sand, gray, moist	12.3	A-4	SM	12.2	45.3	42.5							
End of Boring @ 5.0 feet																			
B-112	7/14/2011	MM 2.2	6.2	0.0 - 0.5		Asphalt Pavement													
				0.5 - 1.4		Asphalt Pavement													
				1.4 - 5.0	Auger	SILT and f. SAND, tr. m.c. sand, tr. f.c. gravel, brn, moist	19.6	A-4	ML	1.2	38.1	60.6							
End of Boring @ 5.0 feet																			
B-113	7/14/2011	MM 2.4	7.2	0.0 - 1.0		Asphalt Pavement													
				1.0 - 5.0	Auger	Silty CLAY, tr. f.m.c. sand, tr. f.c. gravel, gray/brn, moist													
End of Boring @ 5.0 feet																			



**SOIL BORING DATA SHEET #1**

PROJECT NAME: ESSEX-WESTFORD  
PROJECT NUMBER: STP 2912(I)

FILE NAME: p10c226.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: STANTEC  
IPARM FILE: p10c226pcds01.i

PLOT DATE: 2/20/2013  
DRAWN BY: STANTEC  
CHECKED BY: STANTEC  
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