



SOIL BORING LOG

Date 4/3-4/2012

ROUTE FAP 312 DESCRIPTION Waterloo Bypass - Shared Use Culvert Boring LOGGED BY SCI (JAS)
SECTION 68-WRS-1 LOCATION NW 1/4 of the NE 1/4, SEC. 36, TWP. 2S, RNG. 10W
COUNTY Monroe DRILLING METHOD CME 750 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After 22 Hrs.	
067-2427	2019+30	B-204	2019+44	25 ft RT	624.7 ft	(ft)	(/6")	(tsf)	(%)	N/A ft	N/A ft	603.0 ft	603.5 ft	619.7 ft		
						(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)	
CRUSHED ROCK - 12 inches										CLAY: Gray, with iron stains and nodules, trace sand [A-7] (continued)						
FILL: Brown and gray, silty clay, trace crushed rock [A-6]						3		3.5 P	21					4	1.6 S/15	22
FILL: Gray, silt [A-4]						6		3.0 S/10	20					3	2.6 B	22
SILTY CLAY: Brown, with iron stains [A-6]						5								5		
Becomes brown and gray, with iron stains						2		1.2 S/15	26					2	2.0 B	18
Trace sand						3		1.2 B	25					4	1.8 B	18
CLAY: Gray, with iron stains and nodules, trace sand [A-7]						2		3.2 B	21					1	1.6 B	18
CLAY: Gray, with sand, trace gravel and shale fragments [A-7]						3		1.5 S/2.3	20					4		
With sand, trace gravel						6		2.9 S/20	24					5		
Trace sand, gravel, and sandstone fragments						3		2.4 S/15	22					3	2.1 S/15	17
						6							7			
						7							10			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



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						(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)
CLAY: Gray, with sand, trace gravel and shale fragments [A-7] (continued)										CLAY: Gray, with sand, trace gravel and shale fragments [A-7] (continued)					
Auger refusal at 41.5 ft.										Auger refusal at 41.5 ft.					
SANDSTONE: Gray										SANDSTONE: Gray					
Sampler refusal at 41.8 ft.										Sampler refusal at 41.8 ft.					
Boring grouted to 41.8 ft.										Boring grouted to 41.8 ft.					

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