BLACK & VEATCH

PRELIMINARY BORING LOG

BORING NO. TC2-E

CLIENT	PROJECT	PROJECT NO.
South Florida Water Management District	EAA Reservoir A-1	140297.0213

PROJECT LOCATION	COORDINATES		GROUND ELEVATION (DATUM)	TOTAL DEPTH
Everglades, Florida	N 774079.1	E 762171.3	Not Surveyed	100.0 (ft)

SURFACE CONDITIONS	DATE START	DATE FINISHED
Stripped Caprock	02/09/2005	02/09/2005

LOGGED BY	CHECKED BY	APPROVED BY
Norm Holst		

SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING: CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
														0				LIMESTONE; pale brown; fine grained, shelly, vuggy, slightly weathered, hard and strong to soft and friable, lowest 1.5 ft is very vuggy, porous, soft and weak	All calcitic material is at least in part shell fragments
														2					
														4					
																		5.5'	
SPT	1	9	50/ 1.5		50+	0.4'								6				Gravelly SAND; pale brown, very dense, wet, angular, well graded, some limestone fragments, calcitic, mostly shell fragments	Hard drilling 5.5 to 6.5 ft
																		8.0'	
SPT	2	2	10	9	19	1.2'								8				SILT; pale brown, medium dense, wet, calcitic, some shell fragments	
														10					
																		11.0'	
SPT	3	50/ 5.5			50+	0.4'								12				Silty Sandy GRAVEL; pale brown, very dense, wet, angular, calcitic (mostly shell fragments)	
																		13.5'	
SPT	4	13	50/2		50+	0.6'								14				Silty SAND; pale brown, very dense, wet, well graded, angular, calcitic (mostly shell fragments), probably with cemented zones	Drill rattling about 14 to 15 ft
														16					
														18					
SPT	5	14	12	8	20	1.1'												Becomes medium dense	C03 = 80.6%
														20					
														22					Drilling harder about 21.5 to 23 ft
SPT	6	10	50/4		50+	0.6'								24					
																		24.3'	
																		LIMESTONE	Drill rattling and slow penetration LIMESTONE
														26					
																		26.5'	
														28				SAND; pale brown, medium dense, wet, fine grained, quartzose with some fine , angular, calcitic gravel	Drill still rattling Caloosahatchee Formation SAND with Silt and Gravel
SPT	7	28	17	14	31	1'								30					

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														30					
														32					
SPT	8	11	18	14	32	1'								34				SAND; pale brown, dense, wet, fine grained, quartzose, some medium to coarse, angular shell fragments, trace silt	
														36					
														38				38.5'	
SPT	9	15	12	9	21	1.1'								40				Sandy GRAVEL; pale brown, medium dense, wet, fine grained, calcitic, angular, with fine, quartzose sand, trace shell in the sand	
														42					
																		43.5'	
SPT	10	7	5	5	10	1.1'								44				SAND; pale greenish gray, medium dense, wet, fine grained, quartzose, with little calcitic, angular coarse sand and fine gravel and shell fragments	
														46					
														48				48.5'	
SPT	11	15	18	11	29	1'								50				Sandy GRAVEL: like 38.5 ft	Gravel with Sand
														52					
SPT	12	9	13	9	22	0.6'								54				Sandy GRAVEL; like 38.5 but pale greenish gray	
														56					
														58				58.5'	
SPT	13	6	7	8	15	0.7'								60				SAND; pale brown, medium dense, wet, fine grained, quartzose, with some calcitic, angular	

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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
														60				medium to coarse sand and fine gravel (shell fragments)	
														62					
																		63.5'	
SPT	14	50/4				50+	0.3'							64				Sandy GRAVEL; pale brown, very dense, wet, fine, angular, calcitic, with fine grained, quartzose sand and little silt	
														66					
														68					
SPT	15	50/2				50+	0.1'											Sandy GRAVEL; as above but some of gravel particles are shell fragments	
														70					
														72					
																		73.5'	
SPT	16	16	13	14	27	0.6'								74				SAND; pale greenish gray, medium dense, wet, well graded, medium to coarse is angular and calcitic, fine fraction is mostly quartzose, some fine, angular, calcitic gravel	
														76					
														78					
SPT	17	20	18	15	33	1.1'												SAND; as above but dense	SAND with Gravel
														80					
														82					
SPT	18	17	19	22	31	0.7'								84				SAND; like 78.5 ft	
														86					
														88					
SPT	19	15	18	14	32	1.1'								90				SAND; as above	

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														90					
														92					
SPT	20	19	21	17	28	0.8'								94				SAND; as above but medium dense	
														96					
														98					
SPT	21	15	12	7	19	0'								100					
														102					
														104					
														106					
														108					
														110					
														112					
														114					
														116					
														118					
														120					