

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS			
1. PROJECT Duval County FL BEC Borrow Area A				9. SIZE AND TYPE OF BIT See Remarks					
2. BORING DESIGNATION CB-DUC04-06		LOCATION COORDINATES X = 417,181 Y = 2,188,714		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD27			
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER			
4. NAME OF DRILLER James F. Cole				12. TOTAL SAMPLES 4		UNDISTURBED (UD) 0			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 04-16-04		COMPLETED 04-16-04			
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -44.4 Ft.		17. TOTAL RECOVERY FOR BORING 100 %			
8. TOTAL DEPTH OF BORING 19.0 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR William H. Brenner, Geologist <i>William H. Brenner</i>					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/1 Ft.	N-VALUE
-44.4	0.0		SAND, poorly-graded, mostly rounded fine-grained sand-sized quartz, some subangular carbonate, trace silt, trace angular shell up to 1", weak reaction with HCl, wet, 10B 6/1 bluish gray (SP)	100	1		-44.4		0
							Vibracore		
							Vibracore		
							Vibracore		
-50.4	6.0		SAND, poorly-graded with silt, mostly rounded fine-grained sand-sized quartz, trace silt, trace angular shell, weak cementation, 5B 4/1 dark bluish gray (SP-SM)	100	2		-50.4		5
							Vibracore		
							Vibracore		
							Vibracore		
-53.9	9.5		SAND, poorly-graded, mostly rounded fine-grained sand-sized quartz, trace angular shell, wet, weak cementation, 5B 4/1 dark bluish gray (SP)	100	3		-54.4		10
							Vibracore		
							Vibracore		
							Vibracore		
				100	4		-58.4		15
							Vibracore		
							Vibracore		
							Vibracore		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT Duval County FL BEC			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD27	VERTICAL MLLW																		
LOCATION COORDINATES X = 417,181 Y = 2,188,714			ELEVATION TOP OF BORING -44.4 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-61.4	17.0			100			Vibracore																	
-62.4	18.0		SHELL, mostly angular sand to gravel-sized shell up to 2", few rounded fine-grained sand-sized quartz, weak reaction with HCl, wet, weak cementation, 5B 4/1 dark bluish gray																					
-63.4	19.0		SAND, poorly-graded, mostly rounded fine-grained sand-sized quartz, some subangular carbonate, trace silt, trace angular shell up to 1", weak reaction with HCl, wet, strong cementation, 2.5Y 8/2 pale yellow (SP) At El. -63.2 Ft., 2.5Y 8/4 pale yellow				-63.4																	
			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Refusal Met After 2 Attempts At 19.1 Ft. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/2.0</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/7.0</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>10.0/11.0</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>14.0/15.0</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits. 4. Additional Laboratory Testing 3 Specific Gravity	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/2.0	SP*	2	6.0/7.0	SP-SM*	3	10.0/11.0	SP*	4	14.0/15.0	SP*						
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