

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District		<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> Duval County FL BEC Borrow Area A			<b>9. SIZE AND TYPE OF BIT</b> See Remarks		
<b>2. BORING DESIGNATION</b> CB-DUC04-18		<b>LOCATION COORDINATES</b> X = 416,547 Y = 2,185,366		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	
<b>3. DRILLING AGENCY</b> Alpine Ocean Seismic Survey, Inc.		<b>CONTRACTOR FILE NO.</b>		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Vibrocure	
<b>4. NAME OF DRILLER</b> James F. Cole		<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 4	<b>UNDISTURBED (UD)</b> 0
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		<b>DEG. FROM VERTICAL</b>	<b>BEARING</b>	<b>13. TOTAL NUMBER CORE BOXES</b> 1	
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>14. ELEVATION GROUND WATER</b> Tidal	
<b>8. TOTAL DEPTH OF BORING</b> 19.8 Ft.		<b>15. DATE BORING</b>		<b>STARTED</b> 04-15-04	<b>COMPLETED</b> 04-15-04
		<b>16. ELEVATION TOP OF BORING</b> -48.0 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 96 %	
		<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> William H. Brenner, Geologist		<i>William H. Brenner</i>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-48.0	0.0						-48.0		
			SAND, poorly-graded, mostly subangular to subrounded fine-grained sand-sized quartz, trace silt, trace angular shell up to 3/4", weak reaction with HCl, wet, occasional layers of clay up to 3", 10B 6/1 bluish gray (SP)	100			-48.5	Vibrocure	
				100	1		-49.5	Vibrocure	
				100				Vibrocure	
							-51.5		
			At El. -52.0 Ft., strong reaction with HCl	100	2		-52.5	Vibrocure	
				100				Vibrocure	
							-54.0		
			At El. -54.7 Ft., 5B 5/1 bluish gray	100	3		-55.0	Vibrocure	
				100				Vibrocure	
-58.1	10.1								
			SAND, poorly-graded with silt, mostly angular fine-grained sand-sized quartz, trace silt, trace shell up to 3/4", strong reaction with HCl, wet, 10BG 3/1 dark greenish gray (SP-SM)				-59.0		
			At El. -59.6 Ft., weak reaction with HCl	100	4		-60.0	Vibrocure	
			At El. -60.2 Ft., 5PB 7/1 light bluish gray						
				91				Vibrocure	

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 = 416,547 Y = 2,185,366			ELEVATION TOP OF BORING -48.0 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UP	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-67.1	19.1			91			Vibracore																	
-67.8	19.8	NR					-67.8																	
			NOTES:  1. Soils are field visually classified in accordance with the Unified Soils Classification System.  2. 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>0.5/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.5/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/7.0</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>11.0/12.0</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.  3. Additional Laboratory Testing  3 Specific Gravity	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.5/1.5	SP*	2	3.5/4.5	SP*	3	6.0/7.0	SP*	4	11.0/12.0	SP-SM*						
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