

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic		<b>INSTALLATION</b> Jacksonville District		<b>SHEET 1</b> OF 2 SHEETS	
<b>1. PROJECT</b> Duval County FL BEC Borrow Area B1				<b>9. SIZE AND TYPE OF BIT</b> See Remarks			
<b>2. BORING DESIGNATION</b> CB-DUC04-32		<b>LOCATION COORDINATES</b> X = 417,569 Y = 2,182,211		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD27	<b>VERTICAL</b> MLLW
<b>3. DRILLING AGENCY</b> Alpine Ocean Seismic Survey, Inc.		<b>CONTRACTOR FILE NO.</b>		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Vibrocure		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<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>14. ELEVATION GROUND WATER</b> Tidal		<b>15. DATE BORING</b> STARTED 04-18-04 COMPLETED 04-18-04	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A				<b>16. ELEVATION TOP OF BORING</b> -46.8 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 95 %	
<b>8. TOTAL DEPTH OF BORING</b> 19.8 Ft.				<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
-46.8	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized carbonate, trace silt, trace angular shell, strong reaction with HCl, wet, N 8/ white (SP)	100			-46.8 Vibrocure		0
				100	1		-49.3 Vibrocure		
			At El. -50.8 Ft., weak cementation	100			-50.3 Vibrocure		5
				100	2		-53.8 Vibrocure		
-55.3	8.5		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, wet, weak cementation, N 8/ white (SP-SM)	100			-54.8 Vibrocure		10
				100	3		-57.8 Vibrocure		
				100			-58.8 Vibrocure		
-60.8	14.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace clay, weak reaction with HCl, wet, 5GY 5/1 greenish gray (SM)						15

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 = 417,569 Y = 2,182,211			ELEVATION TOP OF BORING -46.8 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-65.6	18.8	NR		100	4		-62.3 Vibracore		15														
				100			-63.3 Vibracore																
				70			Vibracore																
-66.6	19.8						-66.6		20														
<p>NOTES:</p> <p>1. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>2. Laboratory Testing Results</p> <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>2.5/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/8.0</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>11.0/12.0</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>15.5/16.5</td> <td>SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p> <p>3. Additional Laboratory Testing</p> <p>3 Specific Gravity</p>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.5/3.5	SP*	2	7.0/8.0	SP*	3	11.0/12.0	SP-SM*	4	15.5/16.5	SM*						25
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