

<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-DUC04-35		<b>LOCATION COORDINATES</b> X = 416,694 Y = 2,181,276		<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> Vibracore		<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>13. TOTAL NUMBER CORE BOXES</b> 1		<b>14. ELEVATION GROUND WATER</b> Tidal	
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>DEG. FROM VERTICAL</b>		<b>15. DATE BORING</b>		<b>STARTED</b> 04-18-04	<b>COMPLETED</b> 04-18-04
<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>BEARING</b>		<b>16. ELEVATION TOP OF BORING</b> -48.1 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 89 %	
<b>8. TOTAL DEPTH OF BORING</b> 19.7 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
-48.1	0.0		SAND, poorly-graded, mostly subrounded fine-grained sand-sized quartz, trace silt, weak reaction with HCl, wet, N 7/ light gray (SP)	100			-48.1		
				100	1		Vibracore		
							-49.1		
							Vibracore		
							-50.1		
				100			Vibracore		
			At El. -53.1 Ft., trace coarse-grained sand-sized shell up to 7/8"				-54.1		
				100	2		Vibracore		
			At El. -55.1 Ft., strong reaction with HCl				-55.1		
				100			Vibracore		
				100	3		-56.6		
							Vibracore		
				100			-57.6		
-58.1	10.0		SAND, clayey, some fine to medium-grained sand-sized quartz, little clay, weak reaction with HCl, wet, strong cementation, N 5/ gray (SC)	100			Vibracore		
-60.1	12.0		SAND, silty, some angular coarse-grained sand-sized shell up to 1/2", little silt, weak reaction with HCl, wet, weak cementation, N 5/ gray (SM)				-61.1		
			At El. -60.8 Ft., 2.5Y 8/2 pale yellow	100	4		Vibracore		
			At El. -62.1 Ft., strong reaction with HCl, wet	63			-62.1		
							Vibracore		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																	
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LOCATION COORDINATES X = 416,694 Y = 2,181,276			ELEVATION TOP OF BORING -48.1 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-65.7	17.6	NR		63			Vibracore																
-67.8	19.7						-67.8																
			<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>1.0/2.0</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/7.0</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.5/9.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>13.0/14.0</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>1 Specific Gravity</p>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/2.0	SP*	2	6.0/7.0	SP*	3	8.5/9.5	SP*	4	13.0/14.0	SM*					
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