

## Boring Designation VB-MCSP07-2

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS			
<b>1. PROJECT</b> MARTIN COUNTY OFFSHORE INVESTIGATIONS Offshore Borrow Area				<b>9. SIZE AND TYPE OF BIT</b> See Remarks					
<b>2. BORING DESIGNATION</b> VB-MCSP07-2		<b>LOCATION COORDINATES</b> X = 946,371 Y = 1,071,518		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD83	<b>VERTICAL</b> MLLW		
<b>3. DRILLING AGENCY</b> Challenge Engineering & Testing, Inc.		<b>CONTRACTOR FILE NO.</b> 2007D32		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Alpine Vibracore Unit		<input checked="" type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>			
<b>4. NAME OF DRILLER</b> Alpine Ocean Seismic, Inc.				<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 4	<b>UNDISTURBED (UD)</b> 0		
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>				<b>13. TOTAL NUMBER CORE BOXES</b> 1		<b>14. ELEVATION GROUND WATER</b> Tidal			
<b>6. THICKNESS OF OVERBURDEN</b> N/A				<b>15. DATE BORING</b>		<b>STARTED</b> 08-09-07	<b>COMPLETED</b> 08-09-07		
<b>7. DEPTH DRILLED INTO ROCK</b> N/A				<b>16. ELEVATION TOP OF BORING</b> -49.9 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 100 %			
<b>8. TOTAL DEPTH OF BORING</b> 18.2 Ft.				<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> Eric Guarino, Geologist					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-49.9	0.0		SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized carbonate, trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 7/2 light gray	910			-49.9		
				NR	1		-51.9		
							-52.4		
				NR					
							-54.9		
				NR	2		-55.4		
				NR					
-57.5	7.6		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", trace angular fine to medium-grained sand-sized organic matter, weak reaction with HCl, moist, 10YR 4/1 dark gray (SP)	NR	3		-57.9		
							-58.4		
-59.9	10.0		SAND, clayey, mostly rounded clay, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 6/1 gray (SC)	NR					
							-60.9		
				NR	4		-61.4		
-62.8	12.9		SHELL, mostly angular shell up to 2-1/2", some rounded clay, strong reaction with HCl, moist, 10YR 6/1 gray	NR					

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																	
PROJECT			COORDINATE SYSTEM/DATUM		HORIZONTAL	VERTICAL																	
MARTIN COUNTY OFFSHORE INVESTIGATIONS			State Plane, FLE (U.S. Ft.)		NAD83	MLLW																	
LOCATION COORDINATES			ELEVATION TOP OF BORING																				
X = 946,371 Y = 1,071,518			-49.9 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-68.1	18.2	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div style="font-size: 8px;">           At El. -66.7 Ft., some subangular fine to medium-grained sand-sized carbonate, trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 4/1 dark gray         </div> </div>	NR			-68.1																	
		NOTES:  1. Soils are field visually classified in accordance with the Unified Soils Classification System.  2. Laboratory Testing Results  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">SAMPLE ID</th> <th style="width: 20%;">SAMPLE DEPTH</th> <th style="width: 65%;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.0/8.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>11.0/11.5</td> <td>SC*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	5.0/5.5	SP*	3	8.0/8.5	SP*	4	11.0/11.5	SC*	Abbreviations: NR = Not Recorded.			
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	2.0/2.5	SP*																					
2	5.0/5.5	SP*																					
3	8.0/8.5	SP*																					
4	11.0/11.5	SC*																					

## Penetration Graph for Core No. VB-MCSP07-2, Run 1

Date: 8/9/2007  
Start Time: 11:08:56 AM  
End Time: 11:17:04 AM

Penetration: 17.136  
Recovery: 18.2  
W. D. Corrected: 49.9  
W. D. Raw: 50

Easting: 946371  
Northing: 1071518  
Coord. System: FL East

Lat: 27d 16.7193' N  
Long: 80d 6.3889' W  
Datum: NAD-83

Comment:

