

Boring Designation VB-MCSP07-10

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS			
1. PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS Offshore Borrow Area				9. SIZE AND TYPE OF BIT See Remarks					
2. BORING DESIGNATION VB-MCSP07-10		LOCATION COORDINATES X = 950,091 Y = 1,074,736		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83 VERTICAL MLLW			
3. DRILLING AGENCY Challenge Engineering & Testing, Inc.		CONTRACTOR FILE NO. 2007D32		11. MANUFACTURER'S DESIGNATION OF DRILL Alpine Vibracore Unit		<input checked="" type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER			
4. NAME OF DRILLER Alpine Ocean Seismic, Inc.				12. TOTAL SAMPLES 4		DISTURBED 4 UNDISTURBED (UD) 0			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 08-10-07		STARTED 08-10-07 COMPLETED 08-10-07			
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -46.9 Ft.		17. TOTAL RECOVERY FOR BORING 98 %			
8. TOTAL DEPTH OF BORING 20.0 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-46.9	0.0						-46.9		
		>>> SHELL, mostly angular shell up to 1/4", >>> some subangular fine to medium-grained >>> sand-sized quartz, trace angular fine-grained >>> sand-sized organic matter, weak reaction >>> with HCl, moist, 10YR 7/2 light gray	650				Vibracore		
				NR	1		-49.9		
							-50.4		
				NR					
							-53.9		
				NR	2		-54.4		
				NR					
							-56.9		
				NR	3		-57.4		
				NR					
							-59.9		
-60.3	13.4			NR	4		-60.4		
		>>> SAND, poorly-graded, mostly subangular >>> fine to medium-grained sand-sized >>> carbonate, little angular shell up to 1/4", >>> strong reaction with HCl, moist, >>> 10YR 5/1 gray (SP)	NR						

DRILLING LOG (Cont. Sheet)			INSTALLATION		SHEET 2 OF 2 SHEETS																		
PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLLW																	
LOCATION COORDINATES X = 950,091 Y = 1,074,736			ELEVATION TOP OF BORING -46.9 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR D	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-62.2	15.3		SAND, silty, mostly subangular fine to medium-grained sand-sized carbonate, little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 6/1 gray (SM)	NR																			
-65.1	18.2		SILT, inorganic-L, mostly subrounded fine-grained sand-sized carbonate, some angular shell up to 2", strong reaction with HCl, moist, 10YR 5/1 gray (ML)																				
-66.4	19.5																						
-66.9	20.0	CL					-66.9																
<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>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.0/10.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>13.0/13.5</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP*	2	7.0/7.5	SP*	3	10.0/10.5	SP*	4	13.0/13.5	SP*			Abbreviations: NR = Not Recorded.			
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	3.0/3.5	SP*																					
2	7.0/7.5	SP*																					
3	10.0/10.5	SP*																					
4	13.0/13.5	SP*																					

## Penetration Graph for Core No. VB-MCSP07-10, Run 1

Date: 8/9/2007  
Start Time: 12:10:16 PM  
End Time: 12:12:55 PM

Penetration: 19.75 ft  
Recovery: 19.5  
W. D. Corrected: 46.9  
W. D. Raw: 47.0

Easting: 950091  
Northing: 1074736  
Coord. System: FL East

Lat: 27d 17.2454' N  
Long: 80d 5.6984' W  
Datum: NAD-83

Comment:

