

## Boring Designation VB-MCSP07-30

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-MCSP07-30		LOCATION COORDINATES X = 947,623 Y = 1,079,468		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 0			
				13. TOTAL NUMBER CORE BOXES 1					
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		14. ELEVATION GROUND WATER Tidal					
		BEARING		15. DATE BORING 08-12-07		COMPLETED 08-12-07			
6. THICKNESS OF OVERBURDEN N/A				16. ELEVATION TOP OF BORING -58.0 Ft.					
7. DEPTH DRILLED INTO ROCK N/A				17. TOTAL RECOVERY FOR BORING 100 %					
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	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-58.0	0.0						-58.0		
			SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, trace angular fine to medium-grained sand-sized organic matter, weak reaction with HCl, moist, 10YR 6/1 gray	1000			Vibracore		
-60.2	2.2			NR	1		-60.0		
			SAND, silty, mostly subrounded silt, some angular shell up to 2", trace clay, strong reaction with HCl, moist, 10YR 5/1 gray (SM)	NR			-60.5		
				NR			-62.0		
				NR	2		-62.5		
				NR					
-68.3	10.3								
			SAND, poorly-graded with silt, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR	3		-69.0		
				NR			-69.5		
-71.0	13.0						-71.0		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SP)	NR	4		-71.5		
				NR					
-72.8	14.8								

DRILLING LOG (Cont. Sheet)				INSTALLATION Jacksonville District			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 = 947,623 Y = 1,079,468				ELEVATION TOP OF BORING -58.0 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR CD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-78.0	20.0		SILT, inorganic-L, nonplastic, firm, mostly rounded silt, few carbonate, strong reaction with HCl, moist, moderate cementation, 10YR 8/1 white (ML)	NR																				
			<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>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SM*</td> </tr> <tr> <td>3</td> <td>11.0/11.5</td> <td>SP-SM*</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	2.0/2.5	SP*	2	4.0/4.5	SM*	3	11.0/11.5	SP-SM*	4	13.0/13.5	SP*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	4.0/4.5	SM*																						
3	11.0/11.5	SP-SM*																						
4	13.0/13.5	SP*																						

# Penetration Graph for Core No. VB-MCSP07-30, Run 1

Date: 8/12/2007  
Start Time: 2:54:46 PM  
End Time: 3:00:29 PM

Penetration: 19.32 ft  
Recovery: 20  
W. D. Corrected: 58  
W. D. Raw: 58.1

Easting: 947623  
Northing: 1079468  
Coord. System: FL East

Lat: 27d 18.0322' N  
Long: 80d 6.1525' W  
Datum: NAD-83

Comment:

