

## Boring Designation VB-MCSP07-17

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-MCSP07-17		LOCATION COORDINATES X = 948,525 Y = 1,076,490		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 UNDISTURBED (UD)			
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 -46.4 Ft.		17. TOTAL RECOVERY FOR BORING 96 %			
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
-46.4	0.0						-46.4		
			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 7/2 light gray	480			Vibracore		
				NR	1		-50.4		
							-50.9		
-52.1	5.7		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 3/8", weak reaction with HCl, moist, 10YR 6/3 pale brown (SP)	NR					
				NR	2		-56.4		
			At El. -56.5 Ft., some angular shell up to 1/4", few, no reaction with HCl, moist, 10YR 5/1 gray	NR			-56.9		
-59.3	12.9								
-59.8	13.4		SAND, silty, mostly fine-grained sand-sized silt, trace angular shell up to 1/4", strong reaction with HCl, moist, 10YR 6/1 gray (SM)				-60.4		
			SHELL, mostly angular shell, some subangular fine to medium-grained sand-sized quartz, weak reaction with HCl.	NR	3		-60.9		
				NR					

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 = 948,525 Y = 1,076,490			ELEVATION TOP OF BORING -46.4 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-63.9	17.5	moist, 10YR 7/2 light gray		NR																			
				NR	4		-63.4																
				NR			-63.9																
-65.6	19.2	SAND, silty, mostly subrounded fine to medium-grained sand-sized carbonate, little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 4/1 dark gray (SM)		NR																			
-66.4	20.0	NR					-66.4																
NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Laboratory Testing Results <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>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>10.0/10.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>14.0/14.5</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>17.0/17.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	4.0/4.5	SP*	2	10.0/10.5	SP*	3	14.0/14.5	SM*	4	17.0/17.5	SP*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	4.0/4.5	SP*																					
2	10.0/10.5	SP*																					
3	14.0/14.5	SM*																					
4	17.0/17.5	SP*																					

## Penetration Graph for Core No. VB-MCSP07-17, Run 1

Date: 8/9/2007  
Start Time: 11:12:29 AM  
End Time: 11:16:33 AM

Penetration: 19.83 ft  
Recovery: 19.2  
W. D. Corrected: 46.4  
W. D. Raw: 46.9

Easting: 948525  
Northing: 1076490  
Coord. System: FL East

Lat: 27d 17.5393' N  
Long: 80d 5.9879' W  
Datum: NAD-83

Comment:

