

Boring Designation VB-MCSP07-31

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1			
		South Atlantic		Jacksonville District		OF 2 SHEETS			
1. PROJECT				9. SIZE AND TYPE OF BIT					
MARTIN COUNTY OFFSHORE INVESTIGATIONS				See Remarks					
Offshore Borrow Area				10. COORDINATE SYSTEM/DATUM					
				HORIZONTAL					
				VERTICAL					
				State Plane, FLE (U.S. Ft.)					
				NAD83					
				MLLW					
2. BORING DESIGNATION		LOCATION COORDINATES		11. MANUFACTURER'S DESIGNATION OF DRILL		<input checked="" type="checkbox"/> AUTO HAMMER			
VB-MCSP07-31		X = 948,424 Y = 1,080,220		Alpine Vibracore Unit		<input type="checkbox"/> MANUAL HAMMER			
3. DRILLING AGENCY		CONTRACTOR FILE NO.		12. TOTAL SAMPLES		DISTURBED			
Challenge Engineering & Testing, Inc.		2007D32		4		UNDISTURBED (UD)			
13. TOTAL NUMBER CORE BOXES		1		14. ELEVATION GROUND WATER		Tidal			
4. NAME OF DRILLER		Alpine Ocean Seismic, Inc.		15. DATE BORING		STARTED			
5. DIRECTION OF BORING		DEG. FROM VERTICAL		BEARING		COMPLETED			
<input checked="" type="checkbox"/> VERTICAL						08-12-07			
<input type="checkbox"/> INCLINED						08-12-07			
6. THICKNESS OF OVERBURDEN		N/A		16. ELEVATION TOP OF BORING		-56.4 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
-56.4	0.0						-56.4		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/4", trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 6/2 light brownish gray (SP)	2000			Vibracore		
				NR	1		-57.4		
				NR			-57.9		
				NR			-59.4		
-59.8	3.4			NR	2		-59.9		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", weak reaction with HCl, moist, 10YR 5/1 gray (SP)	NR			-61.4		
				NR	3		-61.9		
-62.2	5.8			NR			-62.4		
			SAND, poorly-graded with silt, mostly subangular fine-grained sand-sized quartz, some angular shell up to 2", trace clay, no reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR	4		-62.9		
				NR					
-66.8	10.4								
			SHELL, mostly angular shell, some subangular fine to medium-grained sand-sized quartz, weak reaction with HCl, moist, 10YR 6/2 light brownish gray	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 = 948,424 Y = 1,080,220			ELEVATION TOP OF BORING -56.4 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-72.5	16.1																							
			CLAY, lean, mostly rounded silt, little angular shell up to 1/4", trace carbonate, strong reaction with HCl, moist, 10YR 5/1 gray (CL)	NR																				
-76.4	20.0						-76.4																	
			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>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>5.0/5.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>6.0/6.5</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	3.0/3.5	SP*	3	5.0/5.5	SP-SM*	4	6.0/6.5	SP-SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	1.0/1.5	SP*																						
2	3.0/3.5	SP*																						
3	5.0/5.5	SP-SM*																						
4	6.0/6.5	SP-SM*																						

Penetration Graph for Core No. VB-MCSP07-31, Run 1

Date: 8/12/2007
Start Time: 4:41:34 PM
End Time: 4:48:05 PM

Penetration: 20 ft
Recovery: 20
W. D. Corrected: 56.4
W. D. Raw: 57.4

Easting: 948424
Northing: 1080220
Coord. System: FL East

Lat: 27d 18.1551' N
Long: 80d 5.9992' W
Datum: NAD-83

Comment:

