

Boring Designation VB-MCSP07-37

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-MCSP07-37		LOCATION COORDINATES X = 952,715 Y = 1,081,113		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83			
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			
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 08-12-07		STARTED 08-12-07			
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -55.9 Ft.		COMPLETED 08-12-07			
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 94 %		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
-55.9	0.0		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 7/2 light gray (SP)	623			Vibracore		
				NR	1				
				NR					
				NR	2				
			At El. -63.6 Ft., mostly subrounded fine-grained sand-sized quartz, trace angular shell up to 1/2", weak reaction with HCl, moist, 10YR 5/1 gray	NR					
-65.9	10.0		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized quartz, trace angular shell up to 1/2", weak reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR	3				
				NR					
				NR	4				
				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 = 952,715 Y = 1,081,113			ELEVATION TOP OF BORING -55.9 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-71.1	15.2	NR	SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized carbonate, some angular shell up to 2-1/2", strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM) At El. -72.5 Ft., 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	NR																				
-74.6	18.7																							
-75.9	20.0																							
			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>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-SM*</td> </tr> <tr> <td>4</td> <td>13.0/13.5</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	3.0/3.5	SP*	2	7.0/7.5	SP*	3	10.0/10.5	SP-SM*	4	13.0/13.5	SP-SM*				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-SM*																						
4	13.0/13.5	SP-SM*																						

Penetration Graph for Core No. VB-MCSP07-37, Run 1

Date: 8/12/2007
Start Time: 12:29:31 PM
End Time: 12:33:57 PM

Penetration: 19.66ft
Recovery: 18.7
W. D. Corrected: 55.9
W. D. Raw: 56.6

Easting: 952715
Northing: 1081113
Coord. System: FL East

Lat: 27d 18.2977' N
Long: 80d 5.2101' W
Datum: NAD-83

Comment:

