

Boring Designation VB-MCSP07-27

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-MCSP07-27		LOCATION COORDINATES X = 951,663 Y = 1,079,276		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 08-11-07		STARTED 08-11-07	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -52.5 Ft.		COMPLETED 08-11-07	
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 97 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS
-52.5	0.0						-52.5
			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, 10R 7/2 pale red	647			Vibracore
				NR	1		-55.5
							-56.0
				NR			
							-58.5
-59.2	6.7			NR	2		-59.0
			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 6/2 light brownish gray (SP)	NR			
			At El. -61.4 Ft., little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray	NR	3		-61.5
							-62.0
-62.8	10.3						
			SAND, silty, trace angular coarse-grained sand-sized shell up to 1/8", strong reaction with HCl, moist, 10YR 5/1 gray (SM)	NR			
				NR	4		-66.5
							-67.0
				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 = 951,663 Y = 1,079,276			ELEVATION TOP OF BORING -52.5 Ft.																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD COR D	REMARKS	BLOWS/ 1 FT.	N-VALUE													
-71.9	19.4	NR	At El. -67.7 Ft., some angular shell up to 2", strong reaction with HCl, moist, 10YR 5/1 gray	NR																		
-72.5	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>6.0/6.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>14.0/14.5</td> <td>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	6.0/6.5	SP*	3	9.0/9.5	SP*	4	14.0/14.5	SM*	Abbreviations: NR = Not Recorded.				
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																				
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4	14.0/14.5	SM*																				

Penetration Graph for Core No. VB-MCSP07-27, Run 1

Date: 8/11/2007
Start Time: 12:05:19 PM
End Time: 12:08:26 PM

Penetration: 19.71 ft
Recovery: 19.4
W. D. Corrected: 52.5
W. D. Raw: 52.9

Easting: 951663
Northing: 1079276
Coord. System: FL East

Lat: 27d 17.9926' N
Long: 80d 5.4016' W
Datum: NAD-83

Comment:

