

Boring Designation VB-MCSP07-14

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-MCSP07-14		LOCATION COORDINATES X = 946,644 Y = 1,074,494		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 08-09-07		STARTED 08-09-07	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -56.4 Ft.		COMPLETED 08-09-07	
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 UP	REMARKS
-56.4	0.0						-56.4
-57.2	0.8		SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, weak reaction with HCl, moist, 10YR 7/2 light gray	1940			Vibracore
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, little angular fine to medium-grained sand-sized shell up to 1/4", weak reaction with HCl, moist, 10YR 4/1 dark gray (SP)	NR	1		-57.4
				NR			-57.9
				NR	2		-59.4
				NR			-59.9
			At El. -60.2 Ft., little angular fine to medium-grained sand-sized shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray	NR			-61.4
				NR	3		-61.9
				NR			-62.4
-63.2	6.8			NR	4		-62.9
			SAND, silty, some clay, some angular shell up to 1-1/2", little silt, strong reaction with HCl, moist, 10YR 5/1 gray (SM)				
-64.9	8.5						
			SHELL, mostly angular shell up to 1/2", some subangular fine to medium-grained sand-sized quartz, weak reaction with HCl, moist, 10YR 5/1 gray				
-67.3	10.9			NR			
			SAND, silty, mostly subangular fine to medium-grained sand-sized quartz, some angular fine to medium-grained sand-sized shell up to 1/4", weak reaction with HCl, moist, 10YR 6/1 gray (SM)				

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 = 946,644 Y = 1,074,494			ELEVATION TOP OF BORING -56.4 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UP	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-71.6	15.2		SHELL, mostly angular shell up to 1-1/2", little subangular fine to medium-grained sand-sized carbonate, strong reaction with HCl, moist, 10YR 6/3 pale brown																					
-72.3	15.9		SAND, silty, mostly rounded fine-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SM) At El. -73.5 Ft., hard, mostly subrounded fine-grained sand-sized carbonate, some angular shell up to 1", strong reaction with HCl, dry, moderate cementation, 10YR 8/1 white	NR																				
-75.8	19.4																							
-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>SM*</td> </tr> <tr> <td>4</td> <td>6.0/6.5</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	3.0/3.5	SP*	3	5.0/5.5	SM*	4	6.0/6.5	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	SM*																						
4	6.0/6.5	SM*																						

Penetration Graph for Core No. VB-MCSP07-14, Run 1

Date: 8/9/2007
Start Time: 4:07:32 PM
End Time: 4:13:14 PM

Penetration: 19.51 ft
Recovery: 19.4
W. D. Corrected: 56.4
W. D. Raw: 57.8

Easting: 946644
Northing: 1074494
Coord. System: FL East

Lat: 27d 17.2144' N
Long: 80d 6.3353' W
Datum: NAD-83

Comment:

