

Boring Designation VB-MCSP07-21

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-MCSP07-21		LOCATION COORDINATES X = 948,590 Y = 1,078,302		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 -52.5 Ft.		17. TOTAL RECOVERY FOR BORING 99 %	
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
-52.5	0.0						-52.5		
			SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, trace organic matter, weak reaction with HCl, moist, 10YR 7/3 very pale brown	660			Vibracore		
-55.3	2.8		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 6/2 light brownish gray (SP)	NR	1		-55.5		
				NR			-56.0		
				NR			-58.5		
				NR	2		-59.0		
				NR			-61.5		
			At El. -61.9 Ft., little angular fine to medium-grained sand-sized shell up to 3/8", strong reaction with HCl, moist	NR	3		-62.0		
				NR			-64.5		
-65.2	12.7		SAND, silty, mostly angular shell up to 1-1/2", some rounded fine-grained sand-sized silt, weak reaction with HCl, moist, 10YR 5/1 gray (SM)	NR	4		-65.0		
				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 = 948,590 Y = 1,078,302			ELEVATION TOP OF BORING -52.5 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 Ft.	N-VALUE														
-67.8	15.3		SAND, silty, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/2", weak reaction with HCl, moist, 10YR 5/1 gray (SM)	NR																			
-72.3	19.8																						
-72.5	20.0						-72.5																
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>12.0/12.5</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	6.0/6.5	SP*	3	9.0/9.5	SP*	4	12.0/12.5	SP-SM*				Abbreviations: NR = Not Recorded.		
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	12.0/12.5	SP-SM*																					

Penetration Graph for Core No. VB-MCSP07-21, Run 1

Date: 8/12/2007
Start Time: 1:48:42 PM
End Time: 1:54:40 PM

Penetration: 19.95 ft
Recovery: 19.8
W. D. Corrected: 52.5
W. D. Raw: 52.5

Easting: 948590
Northing: 1078302
Coord. System: FL East

Lat: 27d 17.8395' N
Long: 80d 5.9797' W
Datum: NAD-83

Comment:

