

Boring Designation VB-MCSP07-18

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-MCSP07-18		LOCATION COORDINATES X = 947,300 Y = 1,076,474		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	
11. MANUFACTURER'S DESIGNATION OF DRILL Alpine Vibracore Unit		12. TOTAL SAMPLES 4		13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal	
3. DRILLING AGENCY Challenge Engineering & Testing, Inc.		CONTRACTOR FILE NO. 2007D32		15. DATE BORING 08-10-07		16. ELEVATION TOP OF BORING -53.5 Ft.	
4. NAME OF DRILLER Alpine Ocean Seismic, Inc.		5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		17. TOTAL RECOVERY FOR BORING 100 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist	
6. THICKNESS OF OVERBURDEN N/A		7. DEPTH DRILLED INTO ROCK N/A		8. TOTAL DEPTH OF BORING 20.0 Ft.		19. DATE COMPLETED 08-10-07	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS
-53.5	0.0						-53.5
			SHELL, mostly angular shell, some subangular fine to medium-grained sand-sized quartz, trace angular fine to medium-grained sand-sized organic matter, weak reaction with HCl, moist, 10YR 7/2 light gray	1000			Vibracore
				NR	1		-55.5
							-56.0
-56.7	3.2		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/2", strong reaction with HCl, moist, 10YR 5/1 gray (SP)	NR			
				NR	2		-57.5
							-58.0
				NR			
-59.5	6.0		SAND, poorly-graded with silt, mostly subangular fine to medium-grained sand-sized carbonate, some subangular shell up to 1/2", strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR	3		-59.5
				NR			-60.0
-61.5	8.0		SAND, silty, mostly angular shell up to 2", some subrounded clay, weak reaction with HCl, moist, 10YR 6/1 gray (SM)	NR	4		-61.5
-62.2	8.7		SILT, organic-L, mostly angular shell up to 2", some subrounded clay, weak reaction with HCl, moist, 10YR 6/1 gray (OL)	NR			-62.0
				NR			
-68.5	15.0						

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 = 947,300 Y = 1,076,474			ELEVATION TOP OF BORING -53.5 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR CD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-72.6	19.1		SAND, silty, mostly subrounded fine to medium-grained sand-sized carbonate, little angular fine to medium-grained sand-sized shell, strong reaction with HCl, moist, 10YR 5/1 gray (SM)	NR																				
-73.5	20.0		SHELL, mostly angular shell up to 1/4", some subrounded fine to medium-grained sand-sized carbonate, strong reaction with HCl, moist, 10YR 5/1 gray				-73.5																	
			<p>NOTES:</p> <p>1. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>2. Laboratory Testing Results</p> <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>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/6.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>8.0/8.5</td> <td>SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	4.0/4.5	SP*	3	6.0/6.5	SP-SM*	4	8.0/8.5	SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	4.0/4.5	SP*																						
3	6.0/6.5	SP-SM*																						
4	8.0/8.5	SM*																						

Penetration Graph for Core No. VB-MCSP07-18, Run 1

Date: 8/9/2007
Start Time: 10:27:25 AM
End Time: 10:30:32 AM

Penetration: 19.77 ft
Recovery: 20
W. D. Corrected: 53.5
W. D. Raw: 54.5

Easting: 947300
Northing: 1076474
Coord. System: FL East

Lat: 27d 17.5339' N
Long: 80d 6.2112' W
Datum: NAD-83

Comment:

