

Boring Designation VB-MCSP07-23

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-MCSP07-23		LOCATION COORDINATES X = 950,713 Y = 1,077,512		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		UNDISTURBED (UD) 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 08-10-07		COMPLETED 08-10-07	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -54.8 Ft.		17. TOTAL RECOVERY FOR BORING 95 %	
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
-54.8	0.0		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/2", trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 6/2 light brownish gray (SP)	633			-54.8
				NR	1		-57.8
							-58.3
			At El. -58.9 Ft., little angular shell up to 1/2", strong reaction with HCl, moist, 10YR 7/2 light gray	NR			
			At El. -60.6 Ft., weak reaction with HCl, moist, 10YR 4/1 dark gray	NR	2		-60.8
							-61.3
			At El. -61.7 Ft., little angular shell up to 1", strong reaction with HCl, moist, 10YR 5/1 gray	NR			
-62.8	8.0		SAND, silty, mostly rounded fine to medium-grained sand-sized carbonate, little angular shell up to 1", strong reaction with HCl, moist, 10YR 5/1 gray (SM)	NR	3		-62.8
				NR			-63.3
				NR	4		-64.8
							-65.3
			At El. -66.0 Ft., some angular shell up to 1-1/2", some rounded silt, strong reaction with HCl, moist, 10YR 5/1 gray	NR			
			At El. -68.1 Ft., mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 6/1 gray	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 = 950,713 Y = 1,077,512			ELEVATION TOP OF BORING -54.8 Ft.																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD COR D	REMARKS	BLOWS/ 1 FT.	N-VALUE													
-73.8	19.0	NR	At El. -70.9 Ft., little angular shell up to 3/8", strong reaction with HCl, moist, 10YR 5/1 gray	NR																		
-74.8	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>8.0/8.5</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>10.0/10.5</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	8.0/8.5	SM*	4	10.0/10.5	SM*	Abbreviations: NR = Not Recorded.		
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3	8.0/8.5	SM*																				
4	10.0/10.5	SM*																				

Penetration Graph for Core No. VB-MCSP07-23, Run 1

Date: 8/9/2007
Start Time: 2:22:30 PM
End Time: 2:26:01 PM

Penetration: 19.68
Recovery: 19
W. D. Corrected: 54.8
W. D. Raw: 55.1

Easting: 950713
Northing: 1077512
Coord. System: FL East

Lat: 27d 17.7035' N
Long: 80d 5.5779' W
Datum: NAD-23

Comment:

