

DRILLING LOG		HUMISTON & MOORE ENGINEERS		INSTALLATION		SHEET 5 OF 12 SHEETS	
1. PROJECT KNIGHT ISLAND BEACH NOURISHMENT				10. SIZE AND TYPE OF BIT 2.5 INCHES			
2. LOCATION CHARLOTTE COUNTY, FLORIDA				11. DATUM FOR ELEVATION SHOWN NGVD			
3. DRILLING AGENCY EXMAR				12. MANUFACTURERS DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. 4A				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED NA	UNDISTURBED NA
5. NAME OF DRILLER MIKE CLARK				14. TOTAL NUMBER OF CORE BOXES (SECTIONS) 2			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION OF GROUND WATER TIDAL			
7. THICKNESS OF OVERBURDEN NA				16. DATE HOLE		STARTED 9/18/93	FINISHED
8. DEPTH DRILLED INTO ROCK NONE				17. ELEVATION TOP OF HOLE -6.7 FEET NGVD			
9. TOTAL DEPTH OF HOLE 7.5 FEET				18. TOTAL CORE RECOVERY FOR BORING 7.1 FEET			
				19. SIGNATURE OF INSPECTOR			

ELEVATION (Feet) a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS g
	1		FINE QUARTZ SAND, (SP), GRAY, WITH TRACES OF SHELL AND SILT			
	2					
	3					
	4					
	5					
	6					
-13.8	7					
-14.2						REFUSAL DUE TO FINE SAND PACKED IN BIT
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					

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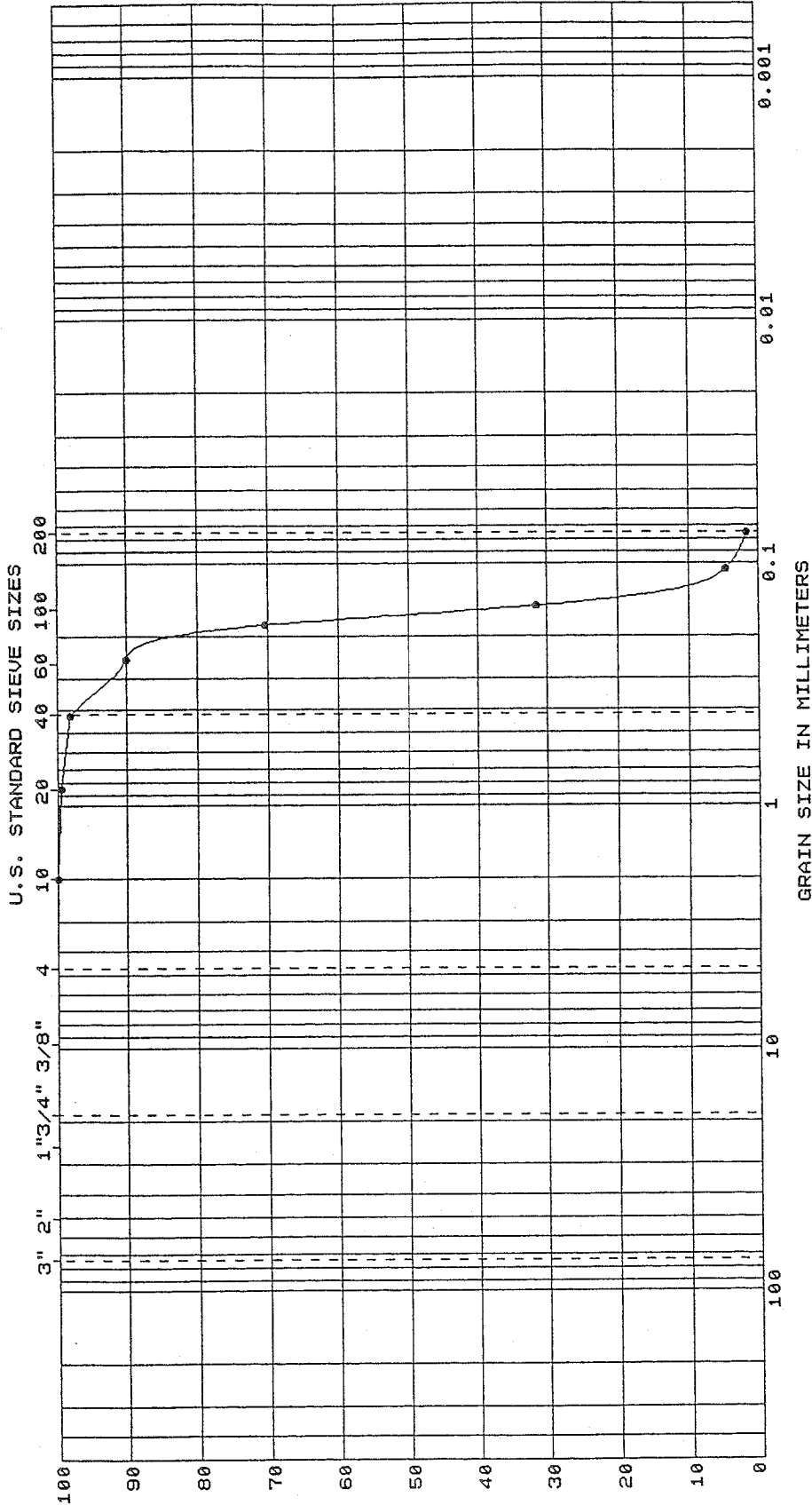
REPORT OF GRAINSIZE ANALYSIS WITH WASH 200 AND WATER CONTENT

CLIENT: Humiston, Moore Engineers DATE: October 20, 1993
PROJECT: Knight Island Beach Restoration Project TECHNICIAN: SC
JOB NUMBER: 76-611005-01 BORING NUMBER: 4A SAMPLE NUMBER: 1

Sample Description: Gray fine SAND

SIEVE NO.	WEIGHT RETAINED	% RETAINED	% PASSING
1 in.	0.0	0.0	100.0
3/4 in.	0.0	0.0	100.0
1/2 in.	0.0	0.0	100.0
3/8 in.	0.0	0.0	100.0
4	0.0	0.0	100.0
10	0.4	0.1	99.9
20	1.6	0.6	99.4
40	5.2	1.9	98.1
60	27.7	10.0	90.0
80	82.3	29.6	70.4
100	190.1	68.5	31.5
140	264.6	95.3	4.7
200	272.9	98.3	1.7

Boulders	GRAVEL		SAND			FINES	
	Coarse	Fine	Coarse	Medium	Fine	Silt Sizes	Clay Sizes



PERCENT FINER BY WEIGHT

DEPTH	NAT WC	LL	PL	PI	DESCRIPTION
0.0					Gray fine SAND

GRAIN SIZE DISTRIBUTION	
SAMPLE 1	
BORING NUMBER	4A
PROJECT NUMBER	76-611005-01
PROJECT	KNIGHT ISLAND BEACH RESTORATION
A LAW ENGINEERING	