

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
1. PROJECT MARTIN COUNTY 999		10. SIZE AND TYPE OF BIT 4" VIBRACORE		
2. LOCATION (Coordinates or Station) X=776822.200 Y=1042509.300		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLLW		
3. DRILLING AGENCY Applied Technology and Management, Inc.		12. MANUFACTURER'S DESIGNATION OF DRILL PNEUMATIC VIBRACORE		
4. HOLE NO. (As shown on drawing title and tag number) MC-6		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 4 undisturbed: 0		
5. NAME OF DRILLER Mike Barnett, P.E.		14. TOTAL NUMBER OF CORE BOXES 2		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER		
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 7/30/99 7/30/99		
8. DEPTH DRILLED INTO ROCK 0 Ft.		17. ELEVATION TOP OF HOLE -26.4 Ft.		
9. TOTAL DEPTH OF HOLE 19.0 Ft.		18. TOTAL CORE RECOVERY FOR BORING 100 %		
		19. SIGNATURE OF G. ZARILLO, SEA, INC.		

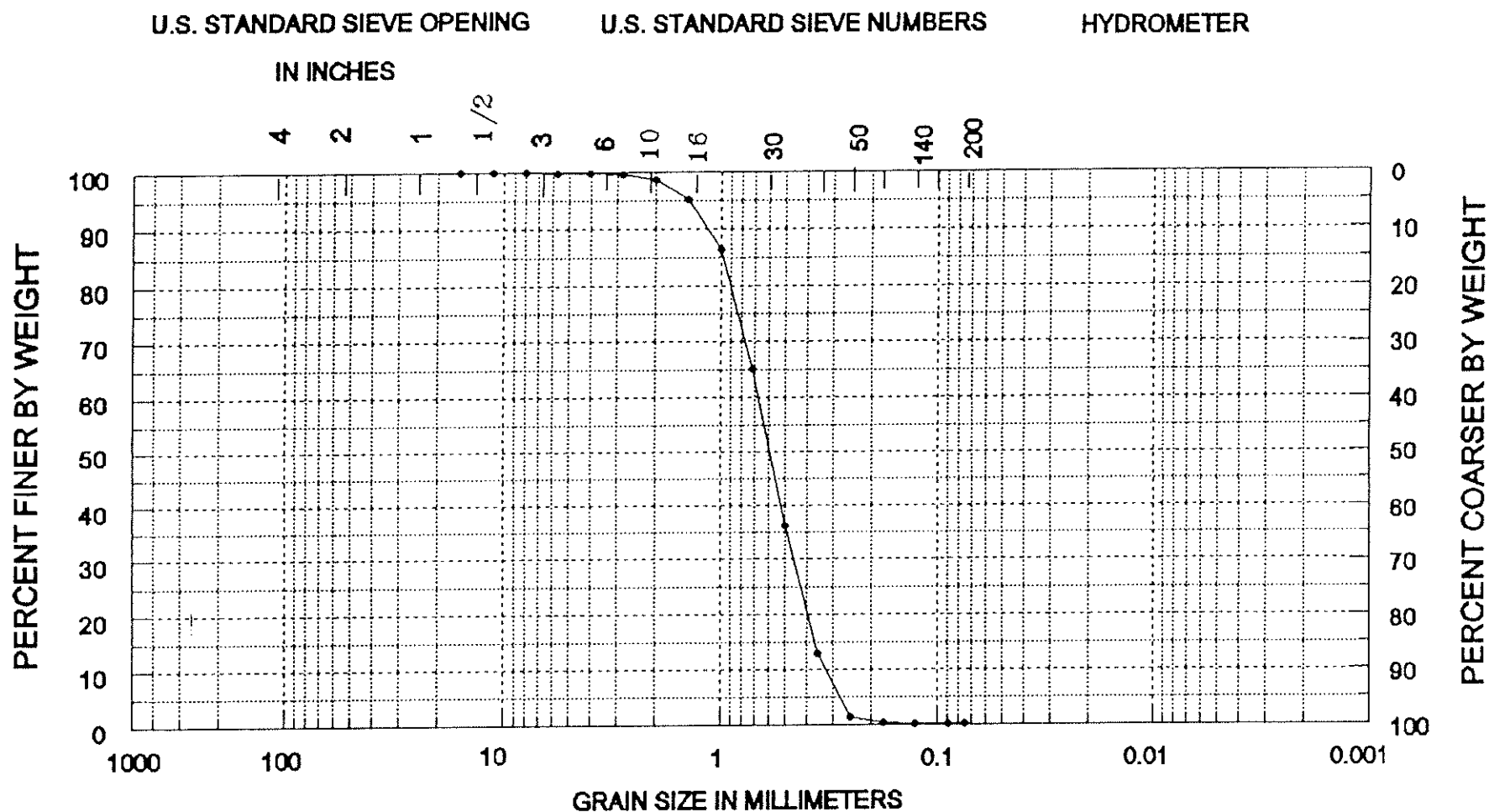
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-26.4	0					-26.4
			Tan medium sand, medium to coarse shell fragments, whole shells to 1 inch. (SP)	100	0.5	
					4.0	
						-31.4
				100	8.0	
-35.6	9.2		Grey-tan medium sand, whole shells to 1 inch, shell fragments to 1/2 inch. (SP)			-36.4
					11.0	
-38.4	12.0		Light grey fine sand. (SP)	100		
						Coarse shell layer, 14.0-14.2 ft. Coarse shell layer, 14.7-15.1 ft.
						-41.4
				100		
-44.9	18.5					
-45.4	19.0		Grey coarse shell and fine sand. (SP)			-45.4
						Composite 0-19 ft.

Sediment Analysis Data Sheet

Sample MC-6-0.5

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk	Statistics phi	mm
	16.00	-4.00	0.00	0.00	0.00			
	11.31	-3.50	0.00	0.00	0.00			
	8.00	-3.00	0.00	0.00	0.00			
	5.66	-2.50	0.04	0.15	0.15	5%	-0.50	1.42
5	4.00	-2.00	0.00	0.00	0.15	16%	0.06	0.96
7	2.83	-1.50	0.07	0.27	0.42	25%	0.27	0.83
10	2.00	-1.00	0.23	0.87	1.30	50%	0.76	0.59
14	1.41	-0.50	0.96	3.72	5.02	75%	1.24	0.42
18	1.00	0.00	2.22	8.64	13.66	84%	1.43	0.37
25	0.71	0.50	5.44	21.16	34.81	95%	1.84	0.28
35	0.50	1.00	7.44	28.94	63.76			
45	0.35	1.50	6.02	23.39	87.15	Med.	0.76	0.59
60	0.25	2.00	2.94	11.41	98.56	Mean	0.75	0.59
80	0.18	2.50	0.27	1.03	99.59	St Dev.	0.70	
120	0.13	3.00	0.03	0.12	99.71	Skew	-0.05	
170	0.09	3.50	0.03	0.10	99.81	Kurt.	0.99	
200	0.07	3.75	0.02	0.09	99.90			
Pan			0.00	0.00	99.90			
Total			25.69	99.90	99.90			
						Sorting 0.69		
						Moment	Statistics	
							Phi	mm
Cu =	2.05		Gravel		0 %	Mean	0.96	0.51
			Coarse	Sand	1 %	St. Dev.	0.74	0.60
			Med.	Sand	74 %	Skewness	-0.65	
Cc =	0.96		Fine	Sand	24 %	Kurtosis	4.52	

SEA, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT
0.5	-26.9	Medium sand (SP)	Martin County-ATM
			AREA Martin County
			BORING NO. MC-6
			DATE July 30, 1999

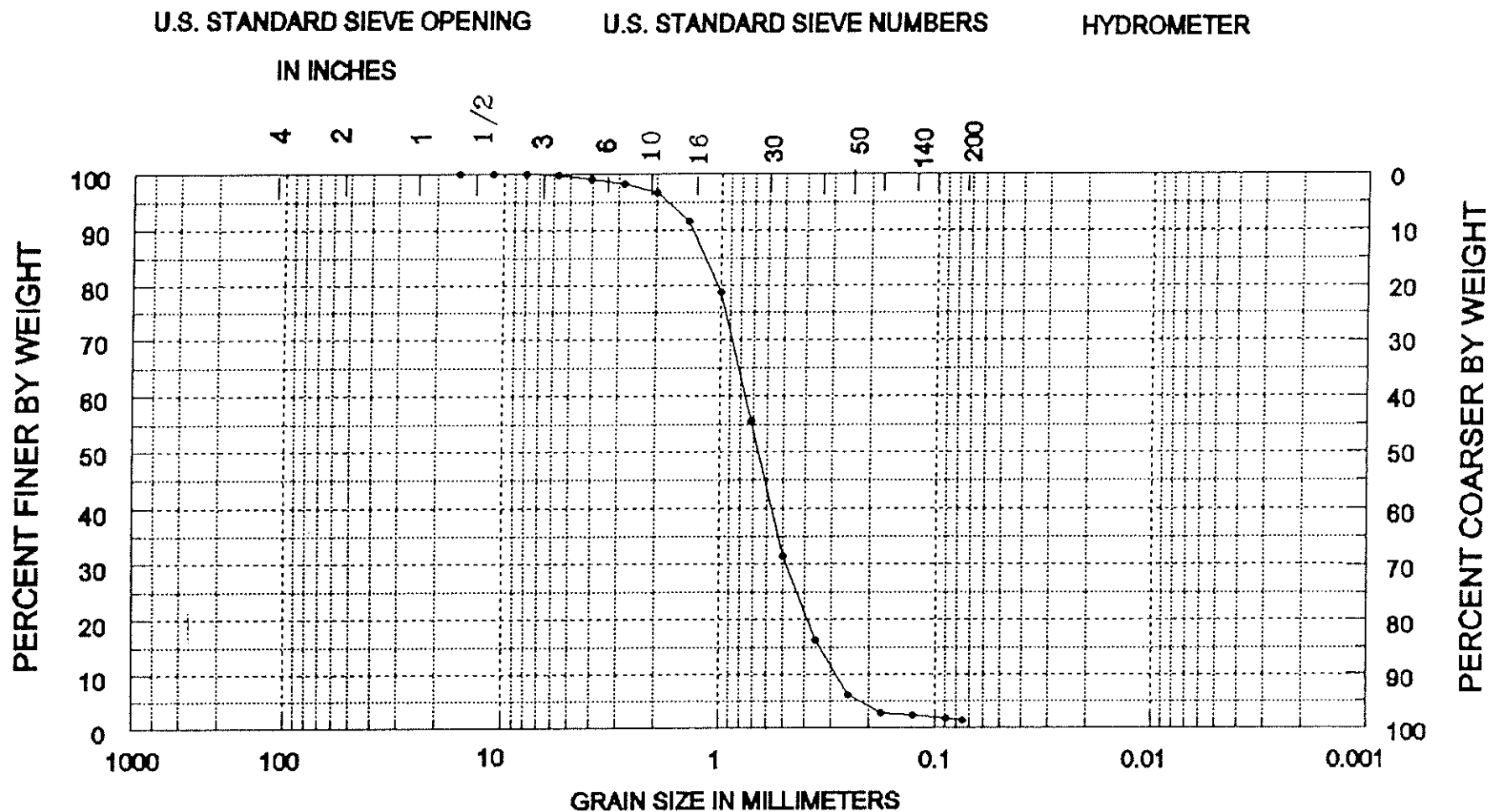
Sediment Analysis Data Sheet

Sample MC-6-4.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk Statistics phi mm
	16.00	-4.00	0.00	0.00	0.00	
	11.31	-3.50	0.00	0.00	0.00	
	8.00	-3.00	0.00	0.00	0.00	
	5.66	-2.50	0.05	0.20	0.20	5% : -0.84 1.79
5	4.00	-2.00	0.20	0.79	0.99	16% : -0.20 1.15
7	2.83	-1.50	0.18	0.70	1.69	25% : 0.08 0.94
10	2.00	-1.00	0.45	1.74	3.44	50% : 0.61 0.65
14	1.41	-0.50	1.30	5.00	8.44	75% : 1.21 0.43
18	1.00	0.00	3.31	12.73	21.17	84% : 1.51 0.35
25	0.71	0.50	6.05	23.29	44.46	95% : 2.18 0.22
35	0.50	1.00	6.25	24.07	68.54	
45	0.35	1.50	3.95	15.21	83.75	Med. 0.61 0.65
60	0.25	2.00	2.61	10.06	93.81	Mean 0.64 0.64
80	0.18	2.50	0.88	3.37	97.18	St Dev. 0.89
120	0.13	3.00	0.12	0.47	97.65	Skew 0.04
170	0.09	3.50	0.15	0.56	98.21	Kurt. 1.10
200	0.07	3.75	0.10	0.39	98.60	Sorting 0.86
Pan			0.00	0.00	98.60	
Total			25.61	98.60	98.60	

						Moment	Statistics	
							Phi	mm
Cu =	2.65	Gravel		1	%	Mean	0.84	0.56
		Coarse Sand		3	%	St. Dev.	0.94	0.52
		Med. Sand		73	%	Skewness	-0.35	
Cc =	1.09	Fine Sand		22	%	Kurtosis	4.25	

SEA, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT	Martin County-ATM
4.0	-30.4	Medium sand (SP)	AREA	Martin County
			BORING NO.	MC-6
			DATE	July 30, 1998

Sediment Analysis Data Sheet

Sample MC-6-8.0

Sieve	Size (mm)	Phi size	Wt %	Cuml %	Folk Statistics phi mm
	16.00	-4.00	0.00	0.00	
	11.31	-3.50	0.00	0.00	
	8.00	-3.00	0.00	0.00	
	5.66	-2.50	0.08	0.32	5% : -0.98 1.98
5	4.00	-2.00	0.07	0.26	16% : -0.22 1.16
7	2.83	-1.50	0.33	1.31	25% : 0.12 0.92
10	2.00	-1.00	0.74	2.91	50% : 0.73 0.60
14	1.41	-0.50	1.41	5.58	75% : 1.34 0.39
18	1.00	0.00	2.53	9.97	84% : 1.64 0.32
25	0.71	0.50	4.91	19.38	95% : 2.75 0.15
35	0.50	1.00	5.63	22.21	
45	0.35	1.50	4.86	19.19	Med. 0.73 0.60
60	0.25	2.00	2.64	10.40	Mean 0.72 0.61
80	0.18	2.50	0.83	3.29	St Dev. 1.03
120	0.13	3.00	0.09	0.36	Skew 0.03
170	0.09	3.50	0.10	0.41	Kurt. 1.25
200	0.07	3.75	0.04	0.17	Sorting 0.93
Pan			0.01	0.04	
Total			24.29	95.80	

Cu = 2.68

Gravel 0 %

Coarse Sand 4 %

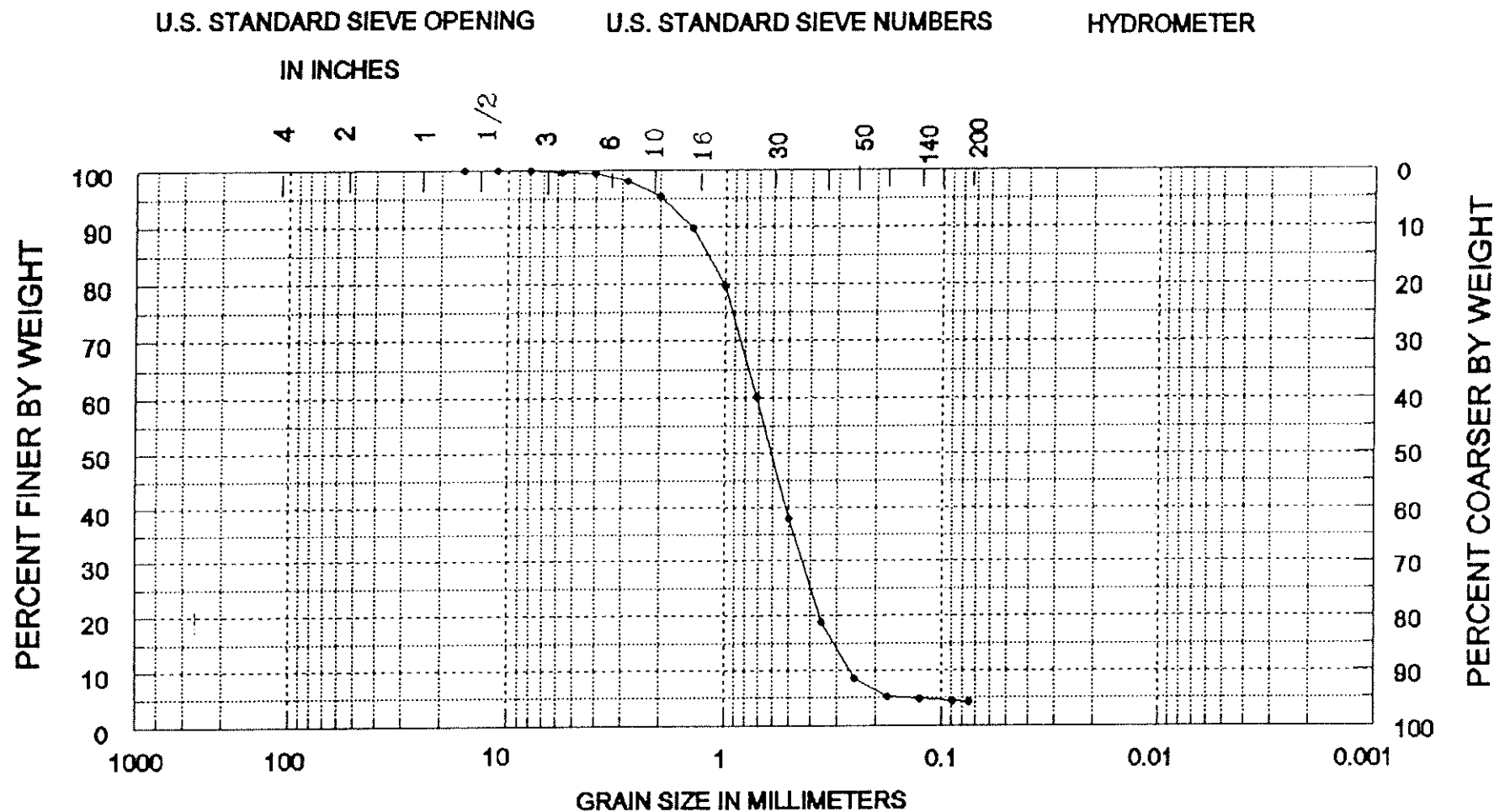
Med. Sand 67 %

Fine Sand 24 %

Cc = 1.01

Moment	Statistics
	Phi mm
Mean	0.85 0.56
St. Dev.	0.97 0.51
Skewness	-0.59
Kurtosis	3.85

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT
8.0	-34.4	Medium sand (SP)	Martin County--ATM
			AREA Martin County
			BORING NO. MC-8
			DATE July 30, 1999

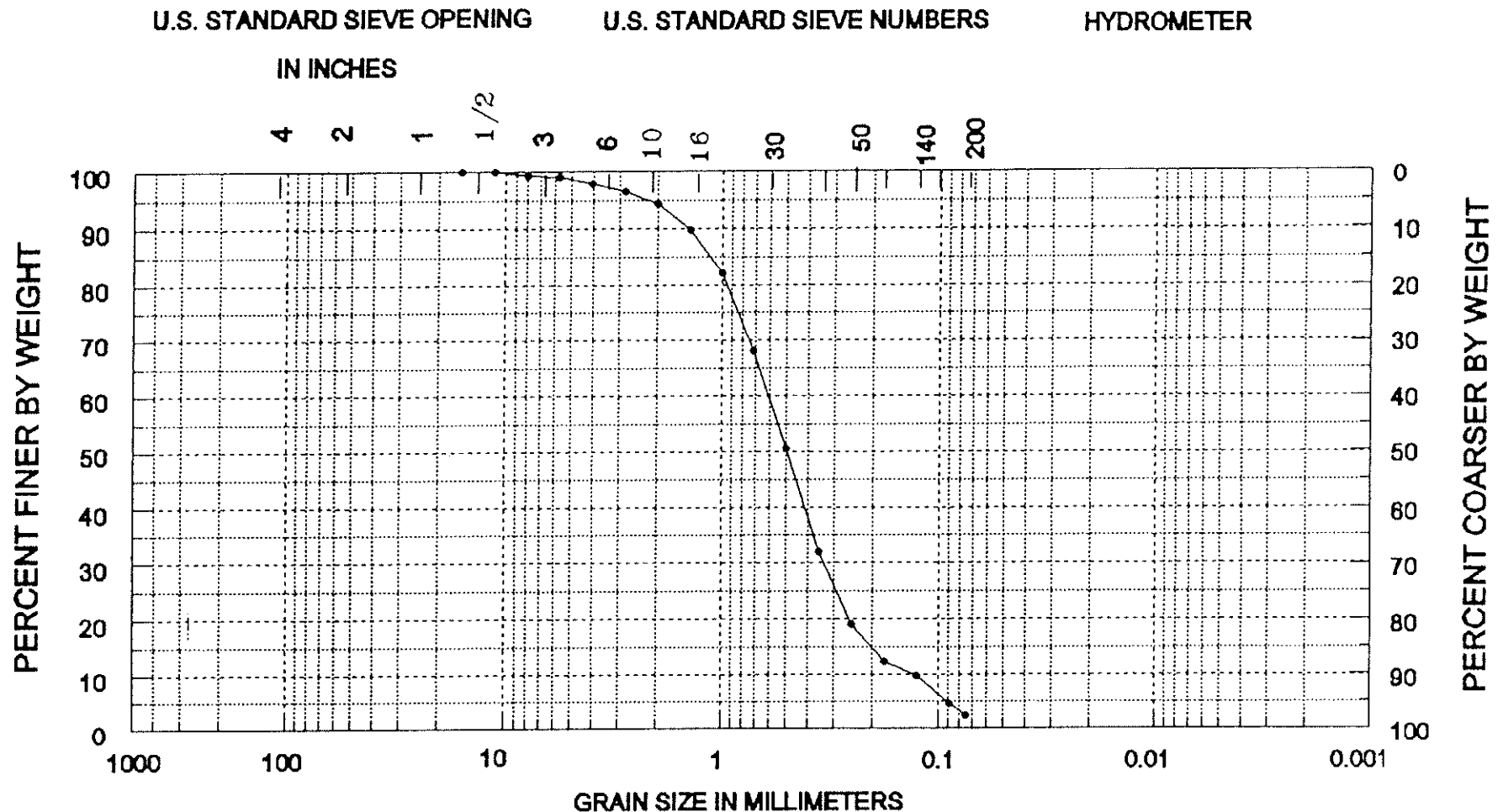
Sediment Analysis Data Sheet

Sample MC-6-11.0

Sieve	Size (mm)	Phi size	Wt %	Wt %	Cuml %	Folk Statistics		
						phi	mm	
	16.00	-4.00	0.00	0.00	0.00			
	11.31	-3.50	0.00	0.00	0.00			
	8.00	-3.00	0.21	0.84	0.84			
	5.66	-2.50	0.04	0.16	1.00	5%	-1.15	2.23
5	4.00	-2.00	0.31	1.26	2.26	16%	-0.12	1.09
7	2.83	-1.50	0.30	1.21	3.47	25%	0.26	0.84
10	2.00	-1.00	0.55	2.21	5.68	50%	1.01	0.50
14	1.41	-0.50	1.13	4.54	10.23	75%	1.77	0.29
18	1.00	0.00	1.88	7.56	17.79	84%	2.22	0.21
25	0.71	0.50	3.49	14.00	31.79	95%	3.45	0.09
35	0.50	1.00	4.41	17.72	49.50			
45	0.35	1.50	4.59	18.42	67.92	Med.	1.01	0.50
60	0.25	2.00	3.26	13.09	81.01	Mean	1.04	0.49
80	0.18	2.50	1.67	6.68	87.70	St Dev.	1.28	
120	0.13	3.00	0.63	2.53	90.22	Skew	0.05	
170	0.09	3.50	1.32	5.30	95.52	Kurt.	1.25	
200	0.07	3.75	0.54	2.18	97.70			
Pan			0.00	0.00	97.70			
Total			24.34	97.70	97.70			
						Moment Statistics		
							Phi	mm
Cu =	4.67		Gravel		2 %	Mean	1.18	0.44
			Coarse	Sand	4 %	St. Dev.	1.30	0.41
			Med.	Sand	53 %	Skewness	-0.48	
Cc =	1.44		Fine	Sand	39 %	Kurtosis	3.88	

Sorting 1.17

SEA, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT
11.0	37.4	Medium to fine sand (SP)	Martin County-ATM
			AREA Martin County
			BORING NO. MC-6
			DATE July 30, 1999

Sediment Analysis Data Sheet

Sample MC-6-COMP

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk	Statistics phi mm
	16.00	-4.00	0.00	0.00	0.00		
	11.31	-3.50	0.00	0.00	0.00		
	8.00	-3.00	0.37	0.82	0.82		
	5.66	-2.50	0.00	0.00	0.82	5%	-0.95 1.94
5	4.00	-2.00	0.27	0.60	1.42	16%	-0.13 1.09
7	2.83	-1.50	0.47	1.05	2.47	25%	0.22 0.86
10	2.00	-1.00	0.93	2.06	4.53	50%	0.95 0.52
14	1.41	-0.50	2.28	5.06	9.59	75%	1.83 0.28
18	1.00	0.00	3.88	8.61	18.20	84%	3.07 0.12
25	0.71	0.50	6.88	15.28	33.48	95%	3.52 0.09
35	0.50	1.00	8.18	18.16	51.64		
45	0.35	1.50	7.71	17.13	68.76	Med.	0.95 0.52
60	0.25	2.00	4.22	9.36	78.12	Mean	1.30 0.41
80	0.18	2.50	1.38	3.06	81.18	St Dev.	1.48
120	0.13	3.00	0.68	1.50	82.68	Skew	0.23
170	0.09	3.50	4.39	9.75	92.43	Kurt.	1.14
200	0.07	3.75	2.14	4.74	97.17	Skewness	1.6
Pan			0.20	0.43	97.60		
Total			43.96	97.60	97.60		
						Moment	Statistics
							Phi mm
Cu =	6.48		Gravel		1 %	Mean	1.25 0.42
			Coarse Sand		3 %	St. Dev.	1.37 0.39
			Med. Sand		56 %	Skewness	-0.09
Cc =	1.90		Fine Sand		37 %	Kurtosis	3.32

SEA, INC.

