

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1	
1. PROJECT Cumberland Shoals Project				10. SIZE AND TYPE OF BIT 4" VIBRACORE			
2. LOCATION (Coordinates or Station) X=517568.100 Y=2319862.600				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLLW			
3. DRILLING AGENCY AOSS/Olsen & Associates, Inc.				12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE			
4. HOLE NO. (As shown on drawing title and file number) SM-6				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 6 undisturbed: 0			
5. NAME OF DRILLER E. Olsen				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 4-4-02 4-4-02			
8. DEPTH DRILLED INTO ROCK 0 Ft.				17. ELEVATION TOP OF HOLE -11.8 Ft.			
9. TOTAL DEPTH OF HOLE 17.6 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	
-11.8	.0					-11.8	0
-13.9	2.1		Light grayish brown to light brown medium to fine quartz sand, abundant brown to gray shell fragments and whole shells in fine to medium gravel range. 10 YR 7.5/1.5-7.5/2 (SP)		1.0		
-15.7	3.9		Gray to light gray fine quartz sand, very abundant shells, gray to white shell fragments in coarse sand to medium gravel range. 10 YR 7/0.5 (SW)	100	3.0	Large oyster shell, 1.7 ft.	2.5
-18.8	7.0		Light gray fine quartz sand. 10 YR 7.5/0.5 (SP)		6.0	-16.8	5
-22.5	10.7		Light gray fine quartz sand. 10 YR 7.5/0.5 (SP)	100	9.0	-21.8	10
-28.4	17.6		Light gray fine quartz sand, few very thin layers of dark gray plastic clay. 10 YR 7.5/0.5 (SP)	100	13.0		12.5
				100	16.0	-26.8	15
						-29.4	17.5
						Composite 0-17.0 ft.	20
						Revised 7/29/02	
							22.5

Sediment Analysis Data Sheet

Sample SM-6-1.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk	Statistics	
							phi	mm
5/8	16.00	-4.00	0.00	0.00	0.00			
1/2	11.31	-3.50	1.04	3.15	3.15			
5/16	8.00	-3.00	0.00	0.00	3.15			
1/4	5.66	-2.50	0.88	2.67	5.82	5% :	-2.65	6.29
5	4.00	-2.00	1.25	3.79	9.61	16% :	-1.03	2.04
7	2.83	-1.50	1.30	3.95	13.56	25% :	0.29	0.82
10	2.00	-1.00	0.85	2.59	16.15	50% :	1.79	0.29
14	1.41	-0.50	1.20	3.64	19.79	75% :	2.28	0.21
18	1.00	0.00	1.01	3.08	22.87	84% :	2.42	0.19
25	0.71	0.50	1.21	3.67	26.54	95% :	2.81	0.14
35	0.50	1.00	1.79	5.44	31.98			
45	0.35	1.50	2.41	7.31	39.30	Med.	1.79	0.29
60	0.25	2.00	6.00	18.24	57.54	Mean	1.06	0.48
80	0.18	2.50	10.24	31.14	88.68	St Dev.	1.69	
120	0.13	3.00	3.35	10.17	98.86	Skew	-0.63	
170	0.09	3.50	0.24	0.72	99.58	Kurt.	1.12	
200	0.07	3.75	0.01	0.04	99.62			
230	0.06	4.00	0.01	0.02	99.64			
Pan			0.02	0.06	99.70			
Total			32.78	99.70	99.70			
						Moment	Statistics	
							Phi	mm
Cu =	2.06	Gravel			8	Mean	1.06	0.48
		Coarse Sand			8	St. Dev.	1.75	0.30
		Med. Sand			19	Skewness	-1.25	
Cc =	0.80	Fine Sand			64	Kurtosis	3.48	
		Silt/Clay			0			

Sediment Analysis Data Sheet

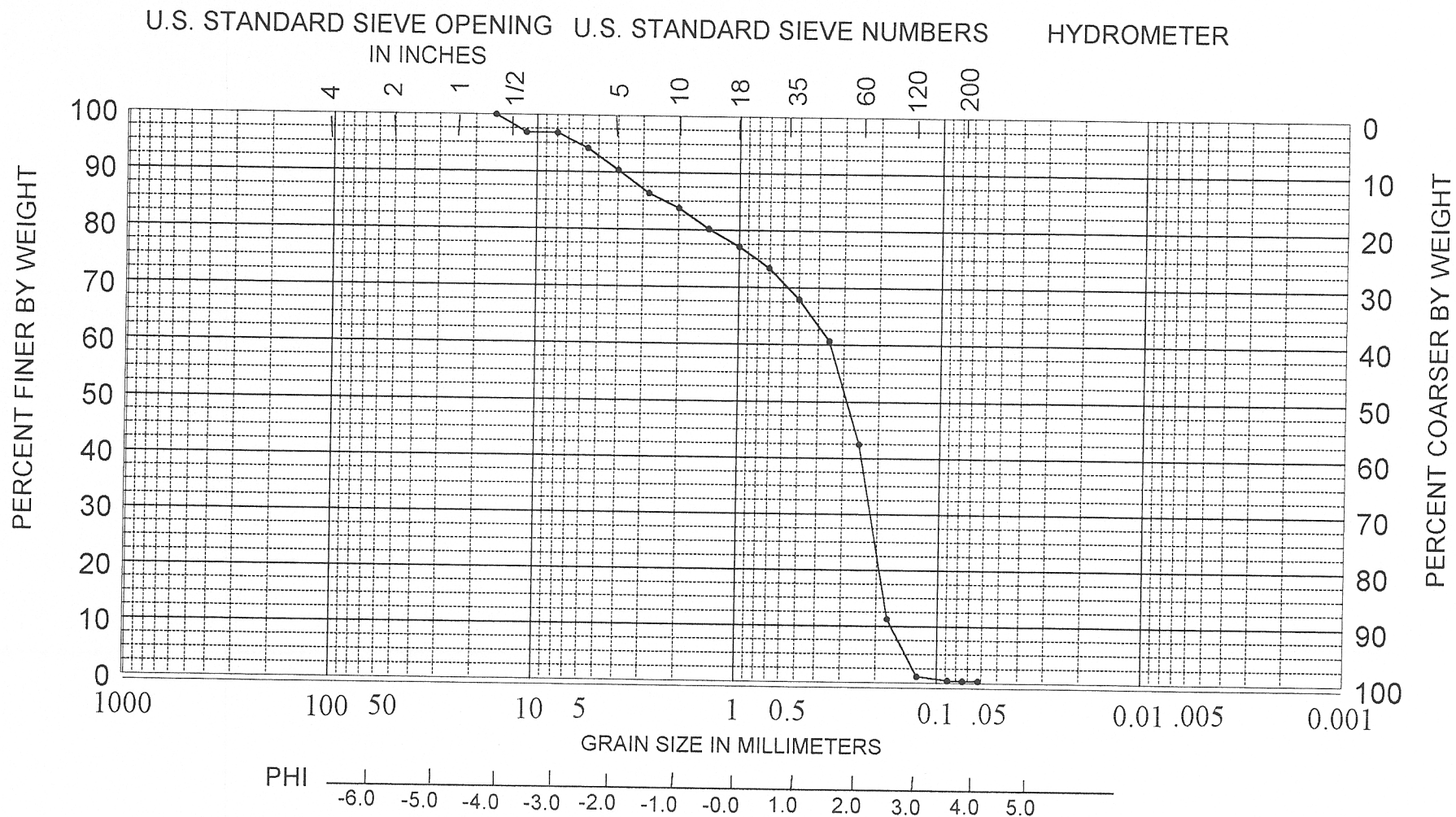
Sample SM-6-6.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk	Statistics	
							phi	mm
5/8	16.00	-4.00	0.00	0.00	0.00			
1/2	11.31	-3.50	0.00	0.00	0.00			
5/16	8.00	-3.00	0.00	0.00	0.00			
1/4	5.66	-2.50	0.00	0.00	0.00	5% :	2.21	0.22
5	4.00	-2.00	0.00	0.00	0.00	16% :	2.54	0.17
7	2.83	-1.50	0.00	0.00	0.00	25% :	2.61	0.16
10	2.00	-1.00	0.00	0.00	0.00	50% :	2.81	0.14
14	1.41	-0.50	0.01	0.03	0.03	75% :	3.01	0.12
18	1.00	0.00	0.04	0.10	0.12	84% :	3.20	0.11
25	0.71	0.50	0.01	0.02	0.14	95% :	3.44	0.09
35	0.50	1.00	0.01	0.03	0.17			
45	0.35	1.50	0.03	0.08	0.25	Med.	2.81	0.14
60	0.25	2.00	0.21	0.57	0.82	Mean	2.85	0.14
80	0.18	2.50	3.54	9.73	10.55	St Dev.	0.35	
120	0.13	3.00	23.20	63.85	74.40	Skew	0.11	
170	0.09	3.50	8.60	23.65	98.05	Kurt.	1.25	
200	0.07	3.75	0.29	0.80	98.84			
230	0.06	4.00	0.08	0.22	99.06			
Pan			0.01	0.04	99.10			
Total			36.02	99.10	99.10			
						Moment	Statistics	
							Phi	mm
Cu =	1.51	Gravel			0	Mean	2.82	0.14
		Coarse Sand			0	St. Dev.	0.33	0.79
		Med. Sand			0	Skewness	-1.39	
Cc =	1.09	Fine Sand			99	Kurtosis	14.72	
		Silt/Clay			1			

Sediment Analysis Data Sheet

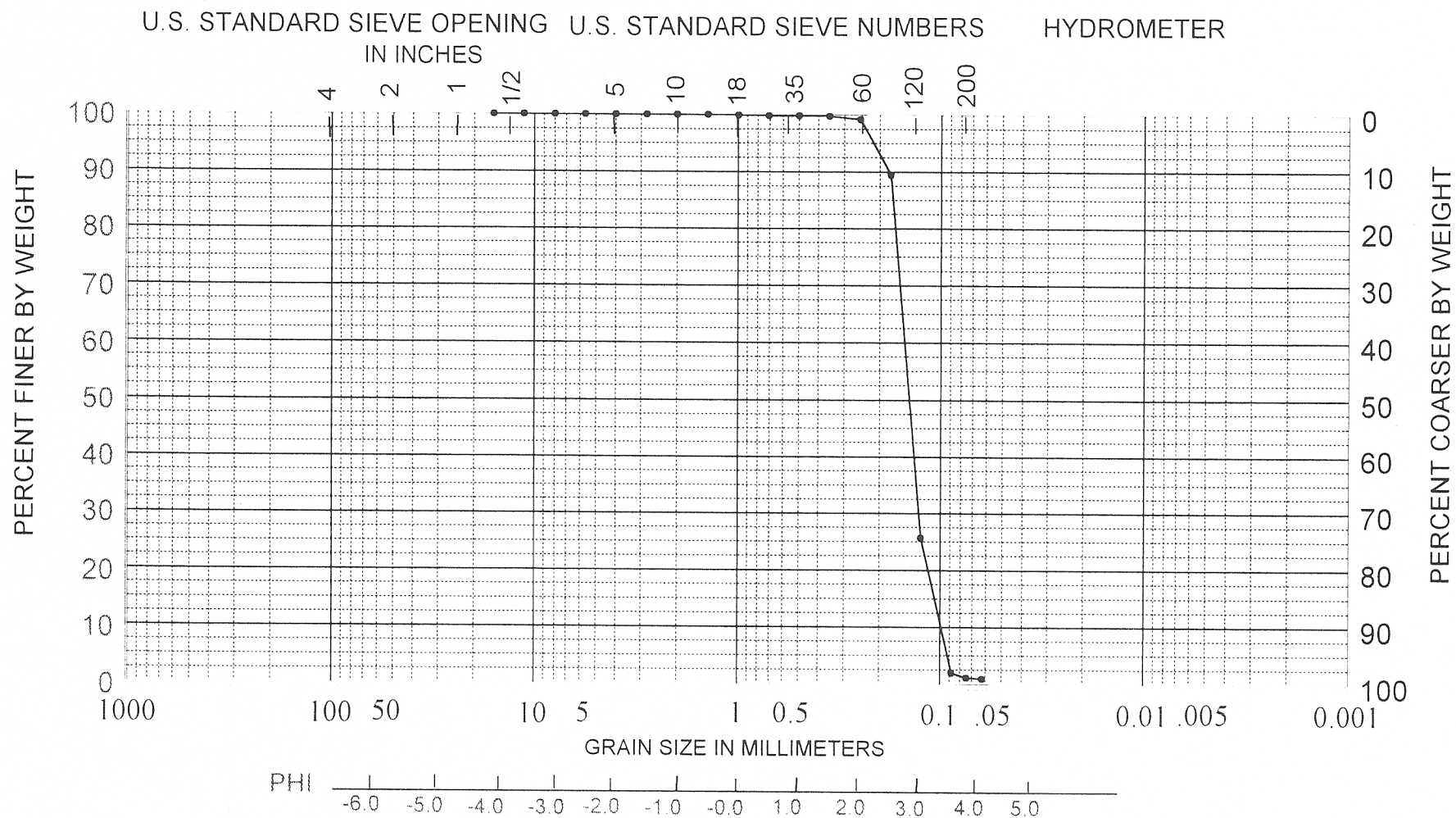
Sample SM-6-13.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk	Statistics	
							phi	mm
5/8	16.00	-4.00	0.00	0.00	0.00			
1/2	11.31	-3.50	0.00	0.00	0.00			
5/16	8.00	-3.00	0.00	0.00	0.00			
1/4	5.66	-2.50	0.00	0.00	0.00	5% :	2.02	0.25
5	4.00	-2.00	0.00	0.00	0.00	16% :	2.19	0.22
7	2.83	-1.50	0.12	0.36	0.36	25% :	2.33	0.20
10	2.00	-1.00	0.11	0.33	0.69	50% :	2.64	0.16
14	1.41	-0.50	0.06	0.19	0.87	75% :	2.88	0.14
18	1.00	0.00	0.02	0.06	0.94	84% :	2.96	0.13
25	0.71	0.50	0.04	0.11	1.05	95% :	3.38	0.10
35	0.50	1.00	0.05	0.13	1.18			
45	0.35	1.50	0.08	0.23	1.41	Med.	2.64	0.16
60	0.25	2.00	0.78	2.27	3.68	Mean	2.60	0.17
80	0.18	2.50	11.01	32.01	35.69	St Dev.	0.40	
120	0.13	3.00	18.00	52.34	88.03	Skew	-0.03	
170	0.09	3.50	3.18	9.23	97.26	Kurt.	1.03	
200	0.07	3.75	0.12	0.35	97.61			
230	0.06	4.00	0.05	0.13	97.74			
Pan			0.02	0.06	97.80			
Total			33.64	97.80	97.80			
						Moment	Statistics	
							Phi	mm
Cu =	1.48	Gravel			0	Mean	2.57	0.17
		Coarse Sand			1	St. Dev.	0.52	0.70
		Med. Sand			1	Skewness	-4.02	
Cc =	0.99	Fine Sand			96	Kurtosis	31.22	
		Silt/Clay			2			



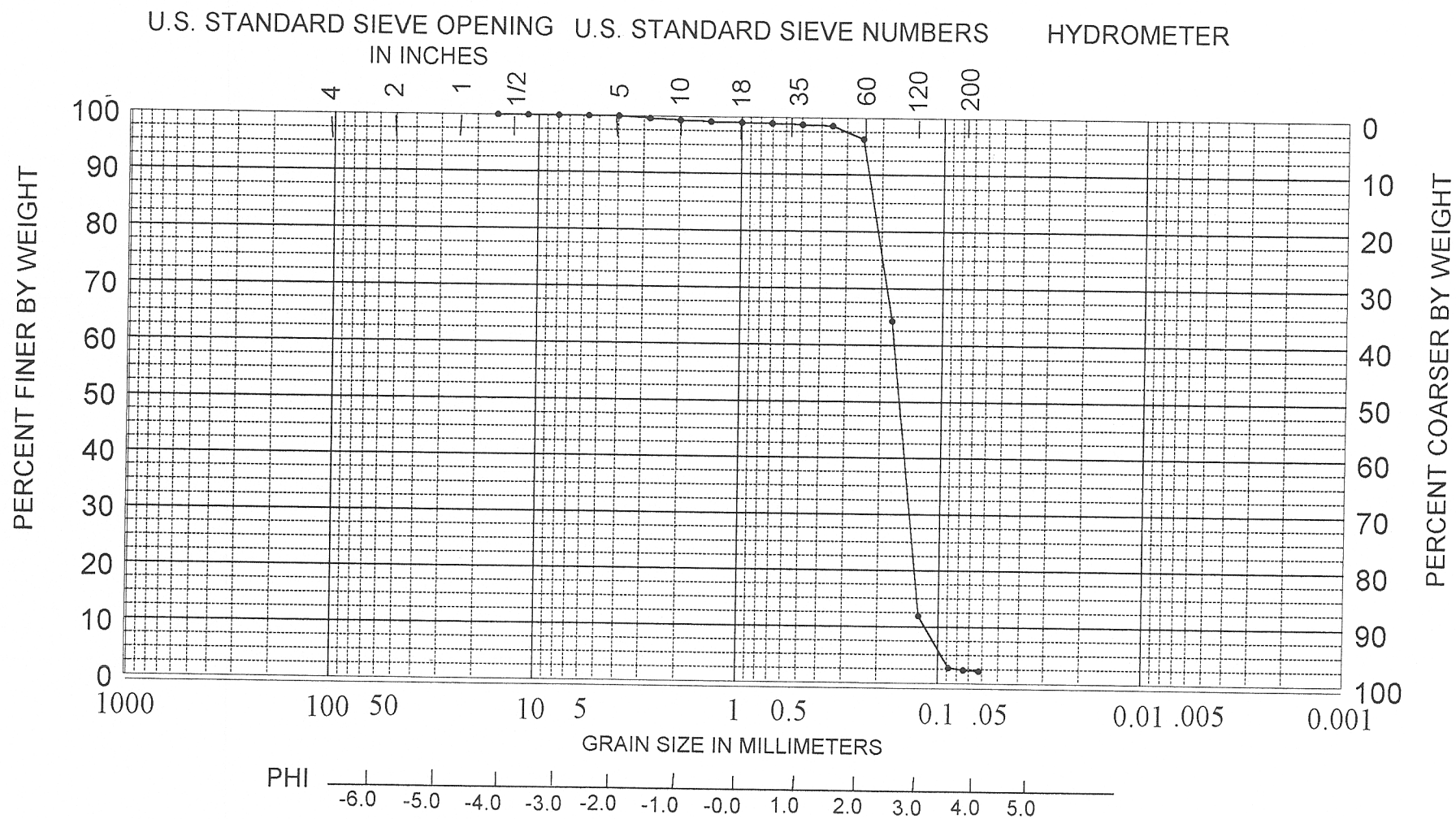
COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
1.0	-12.8'	Fine quartz sand grading to	AREA St. Mary's Inlet, FL
		medium sand and trace of	BORING NO. SM-6
		coarse carbonate sand and gravel (SP)	DATE July 2002



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
6.0	-17.8'	Fine quartz sand (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-6
			DATE July 2002



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
13.0	-24.8'	Fine quartz sand (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-6
			DATE July 2002