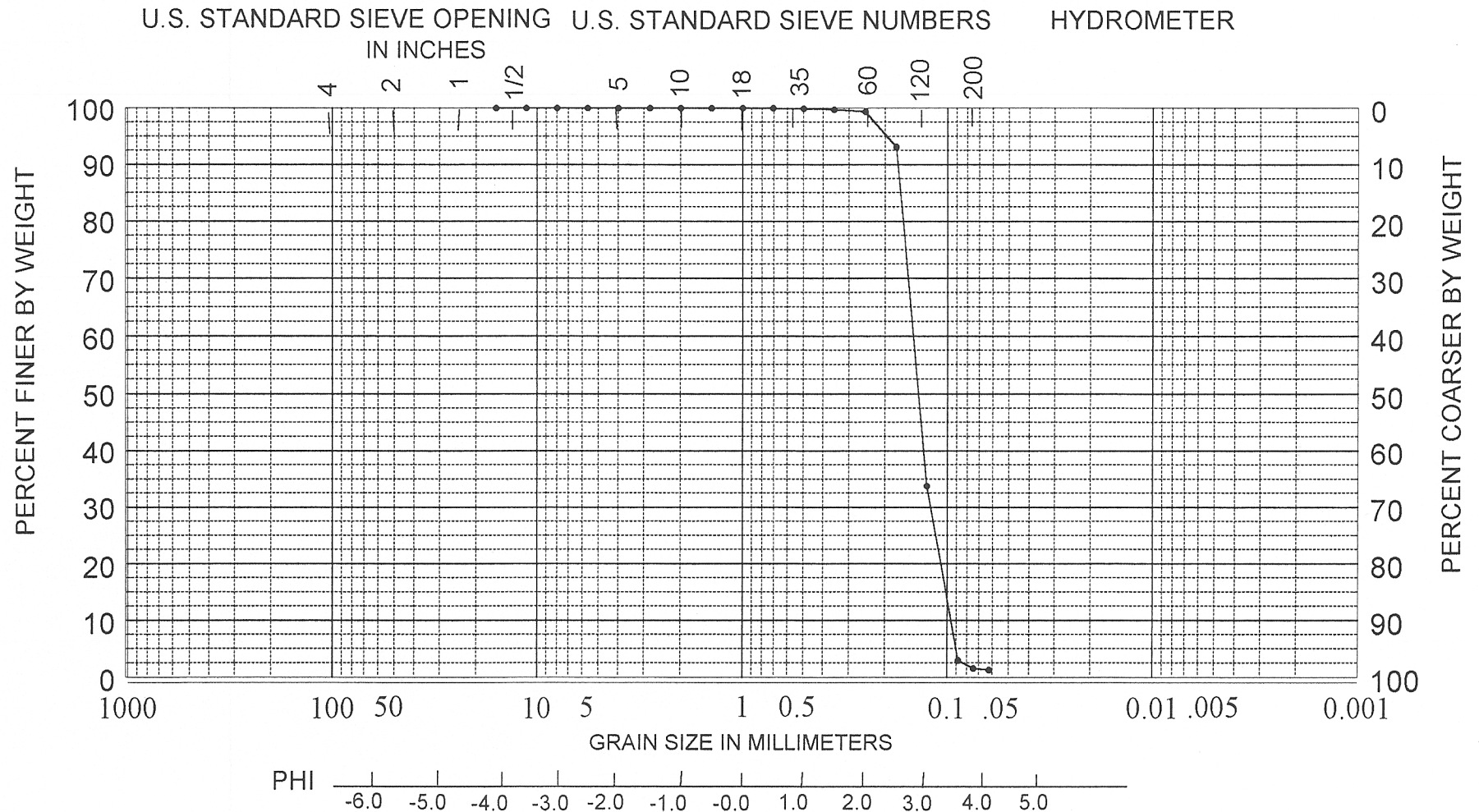


DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1	
1. PROJECT Cumberland Shoals Project				10. SIZE AND TYPE OF BIT 4" VIBRACORE			
2. LOCATION (Coordinates or Station) X=508357.800 Y=2321414.500				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLLW			
3. DRILLING AGENCY AOSS/Olsen & Associates, Inc.				12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE			
4. HOLE NO. (As shown on drawing title and file number) SM-1R1-1R2				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 4 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 -19.4 Ft.			
9. TOTAL DEPTH OF HOLE 19.5 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	
-19.4	.0					-19.4	0
-19.8	.4		Dark gray plastic clay. 10 YR 5/1 (CL)		1.0		
			Light gray fine quartz sand, interbedded with 1" to 6" layers of dark gray plastic clay. 10 YR 7.5/1-5/1 (SM)	100	3.0		2.5
-23.5	4.1						
			Light gray fine quartz sand, few thin layers of dark gray plastic clay, scattered white shell fragments in coarse sand to fine gravel range. 10 YR 7.5/1 (SP)		6.0	-24.4	5
-25.7	6.3						
			Light gray fine quartz sand, 1" to 4" layers of dark gray plastic clay. 10 YR 7.5/1 (SP)	100			7.5
-27.4	8.0						
-27.8	8.4		Dark gray plastic clay. 10 YR 5/1 (CL)		9.0		
			Light gray medium to fine quartz sand, few thin layers of gray plastic mud. 10 YR 7.5/0.5 (SP)			-29.4	10
-29.9	10.5						
			Light brown medium to fine silty quartz sand. 10 YR 7/2-7/3 (SM)	100			12.5
						-34.4	15
				100			17.5
-38.9	19.5					-38.9	20
						Composite 0-9.0 ft	
						Revised 7/29/02	
							22.5

Sediment Analysis Data Sheet

Sample SM-1-6.0

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% :	2.35	0.20
5	4.00	-2.00	0.00	0.00	0.00	16% :	2.58	0.17
7	2.83	-1.50	0.00	0.00	0.00	25% :	2.65	0.16
10	2.00	-1.00	0.00	0.00	0.00	50% :	2.86	0.14
14	1.41	-0.50	0.00	0.00	0.00	75% :	3.14	0.11
18	1.00	0.00	0.00	0.00	0.00	84% :	3.29	0.10
25	0.71	0.50	0.01	0.04	0.04	95% :	3.47	0.09
35	0.50	1.00	0.02	0.07	0.11			
45	0.35	1.50	0.06	0.17	0.28	Med.	2.86	0.14
60	0.25	2.00	0.11	0.34	0.62	Mean	2.91	0.13
80	0.18	2.50	2.01	6.26	6.88	St Dev.	0.35	
120	0.13	3.00	19.08	59.39	66.27	Skew	0.14	
170	0.09	3.50	9.88	30.75	97.02	Kurt.	0.94	
200	0.07	3.75	0.45	1.41	98.43			
230	0.06	4.00	0.10	0.30	98.73			
Pan			0.02	0.07	98.80			
Total			31.74	98.80	98.80			
						Moment	Statistics	
							Phi	mm
Cu =	1.52	Gravel			0	Mean	2.88	0.14
		Coarse Sand			0	St. Dev.	0.32	0.80
		Med. Sand			0	Skewness	-0.66	
Cc =	1.03	Fine Sand			99	Kurtosis	6.77	
		Silt/Clay			1			



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
6.0	-25.4'	Fine quartz sand (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-1
			DATE July 2002