

# DRILLING LOG

## INSTALLATION

SHEET 1  
OF 1

1. PROJECT Cumberland Shoals Project	10. SIZE AND TYPE OF BIT 4" VIBRACORE
2. LOCATION (Coordinates or Station) X=516277.200 Y=231983.200	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-5R1	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 -11.9 Ft.
9. TOTAL DEPTH OF HOLE 12.7 Ft.	18. TOTAL CORE RECOVERY FOR BORING 100 %
	19. SIGNATURE OF G. Zarillo, SEA, Inc.

[illegible]

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE.  
MAR 71

PROJECT	Cumberland Shoals Project
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HOLE NUMBER
SM-5R1

## Sediment Analysis Data Sheet

Sample SM-5R1-2.0

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% :	2.03	0.24
5	4.00	-2.00	0.13	0.40	0.40	16% :	2.34	0.20
7	2.83	-1.50	0.09	0.29	0.69	25% :	2.53	0.17
10	2.00	-1.00	0.06	0.17	0.86	50% :	2.72	0.15
14	1.41	-0.50	0.07	0.21	1.07	75% :	2.92	0.13
18	1.00	0.00	0.08	0.23	1.30	84% :	2.99	0.13
25	0.71	0.50	0.08	0.25	1.55	95% :	3.37	0.10
35	0.50	1.00	0.12	0.37	1.92			
45	0.35	1.50	0.20	0.61	2.53	Med.	2.72	0.15
60	0.25	2.00	0.40	1.26	3.78	Mean	2.68	0.16
80	0.18	2.50	5.73	17.84	21.62	St Dev.	0.36	
120	0.13	3.00	20.55	63.93	85.55	Skew	-0.10	
170	0.09	3.50	4.11	12.79	98.35	Kurt.	1.40	
200	0.07	3.75	0.18	0.55	98.90			
230	0.06	4.00	0.05	0.16	99.05			
Pan			0.02	0.05	99.10			
Total			31.86	99.10	99.10			
						Moment	Statistics	
							Phi	mm
Cu =	1.44	Gravel			0	Mean	2.64	0.16
		Coarse Sand			1	St. Dev.	0.60	0.66
		Med. Sand			1	Skewness	-4.66	
Cc =	1.04	Fine Sand			97	Kurtosis	33.56	
		Silt/Clay			1			

## Sediment Analysis Data Sheet

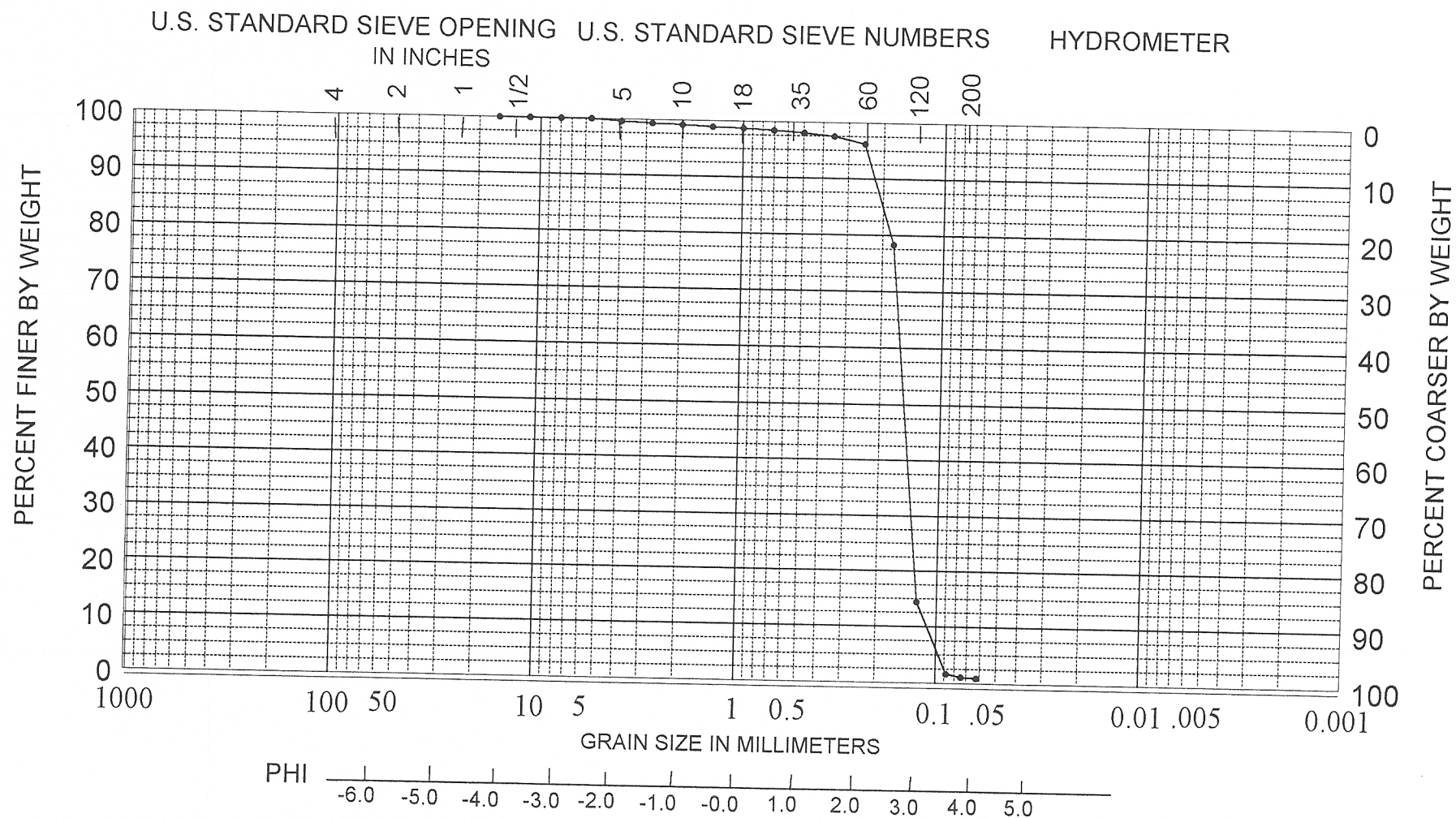
Sample SM-5R1-6.0

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	1.27	3.81	3.81			
1/4	5.66	-2.50	1.08	3.25	7.06	5% :	-2.82	7.05
5	4.00	-2.00	0.55	1.67	8.73	16% :	2.05	0.24
7	2.83	-1.50	0.28	0.84	9.57	25% :	2.51	0.18
10	2.00	-1.00	0.36	1.07	10.64	50% :	2.73	0.15
14	1.41	-0.50	0.25	0.76	11.40	75% :	2.95	0.13
18	1.00	0.00	0.17	0.51	11.91	84% :	3.14	0.11
25	0.71	0.50	0.20	0.60	12.51	95% :	4.01	0.06
35	0.50	1.00	0.21	0.64	13.15			
45	0.35	1.50	0.26	0.79	13.95	Med.	2.73	0.15
60	0.25	2.00	0.36	1.09	15.04	Mean	2.64	0.16
80	0.18	2.50	3.08	9.28	24.32	St Dev.	1.31	
120	0.13	3.00	18.61	56.05	80.37	Skew	-0.43	
170	0.09	3.50	4.20	12.65	93.01	Kurt.	6.27	
200	0.07	3.75	0.42	1.26	94.27			
230	0.06	4.00	0.17	0.51	94.79			
Pan			0.04	0.11	94.90			
Total			31.51	94.90	94.90			
						Moment	Statistics	
							Phi	mm
Cu =	1.67	Gravel			8	%	Mean	2.08
		Coarse Sand			3	%	St. Dev.	0.24
		Med. Sand			3	%	Skewness	1.78
Cc =	1.15	Fine Sand			81	%	Kurtosis	-2.17
		Silt/Clay			5	%		6.21

## Sediment Analysis Data Sheet

Sample SM-5R1-11.0

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	0.16	0.47	0.47	5% :	-1.71	3.28
5	4.00	-2.00	0.87	2.57	3.04	16% :	-0.67	1.59
7	2.83	-1.50	1.15	3.41	6.45	25% :	-0.13	1.09
10	2.00	-1.00	1.55	4.59	11.04	50% :	0.95	0.52
14	1.41	-0.50	2.55	7.55	18.59	75% :	1.58	0.33
18	1.00	0.00	2.91	8.63	27.22	84% :	1.90	0.27
25	0.71	0.50	3.82	11.32	38.54	95% :	2.87	0.14
35	0.50	1.00	4.35	12.88	51.42			
45	0.35	1.50	7.17	21.23	72.65	Med.	0.95	0.52
60	0.25	2.00	4.74	14.02	86.67	Mean	0.73	0.60
80	0.18	2.50	1.54	4.57	91.24	St Dev.	1.34	
120	0.13	3.00	1.72	5.10	96.34	Skew	-0.21	
170	0.09	3.50	0.51	1.50	97.85	Kurt.	1.10	
200	0.07	3.75	0.07	0.21	98.06			
230	0.06	4.00	0.04	0.11	98.17			
Pan			0.01	0.03	98.20			
Total			33.16	98.20	98.20			
						Moment	Statistics	
							Phi	mm
Cu =	3.50	Gravel			2	Mean	0.69	0.62
		Coarse Sand			9	St. Dev.	1.27	0.41
		Med. Sand			51	Skewness	-0.41	
Cc =	1.03	Fine Sand			36	Kurtosis	2.73	
		Silt/Clay			2			



COBBLES		GRAVEL		SAND			SILT OR CLAY
		COARSE	FINE	COARSE	MEDIUM	FINE	
SAMPLE NO.	ELEV.	CLASSIFICATION					PROJECT
2.0	-13.9'	Fine quartz sand (SP)					Olsen & Associates, Inc. - Cumberland Shoals
							AREA St. Mary's Inlet, FL
							BORING NO. SM-5R1
							DATE July 2002

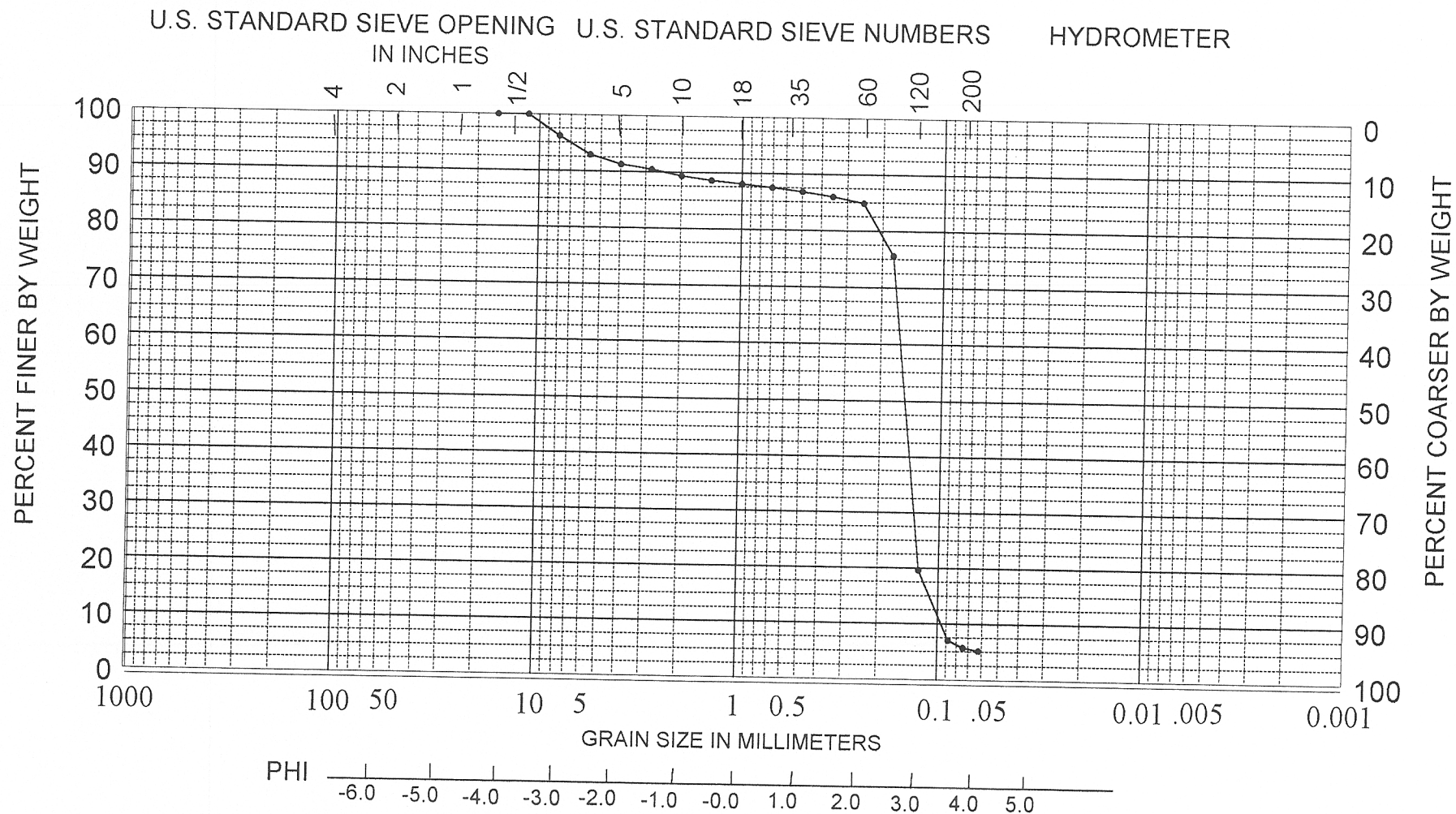
Olsen & Associates, Inc. - Cumberland Shoals

St. Mary's Inlet, FL

BORING NO. SM-5R1

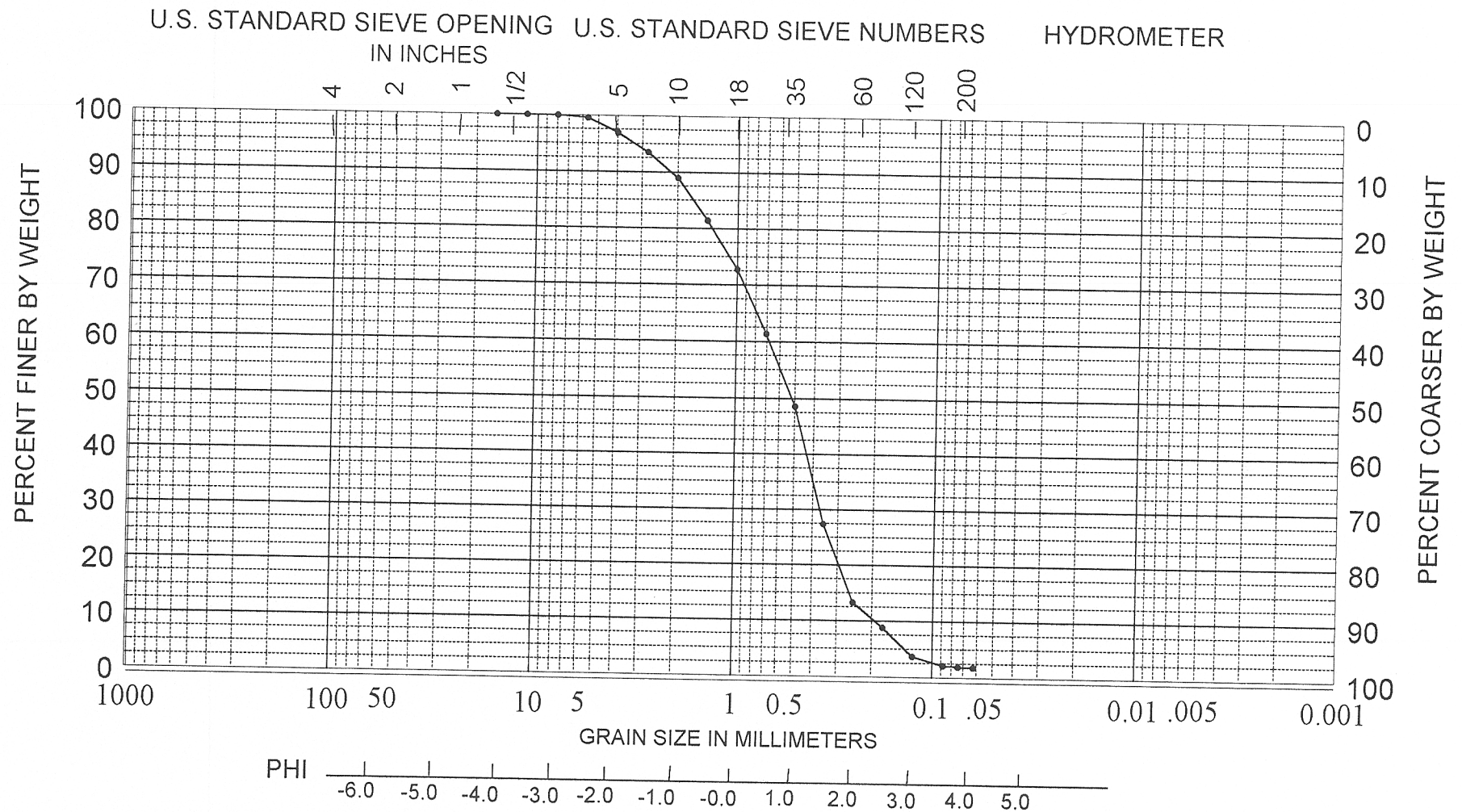
DATE July 2002





COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
6.0	-17.9'	Fine quartz sand, trace of carbonate gravel (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-5R1
			DATE July 2002



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
11.0	-22.9'	Medium to fine quartz sand (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-5R1
			DATE July 2002