

## Sediment Analysis Data Sheet

Sample SM-5R1-2.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cumulative %	Statistics		
						Phi	mm	
5/8	16.00	-4.50	0.00	0.00	0.00			
1/2	12.51	-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			
Pass			0.02	0.05	99.10			
Total			31.86	99.10	99.10			
						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	-0.66	
Cc =	1.04	Fine Sand			97	Kurtosis	33.56	
		Silt/Clay			1			

## Sediment Analysis Data Sheet

Sample SM 5R1 6 0

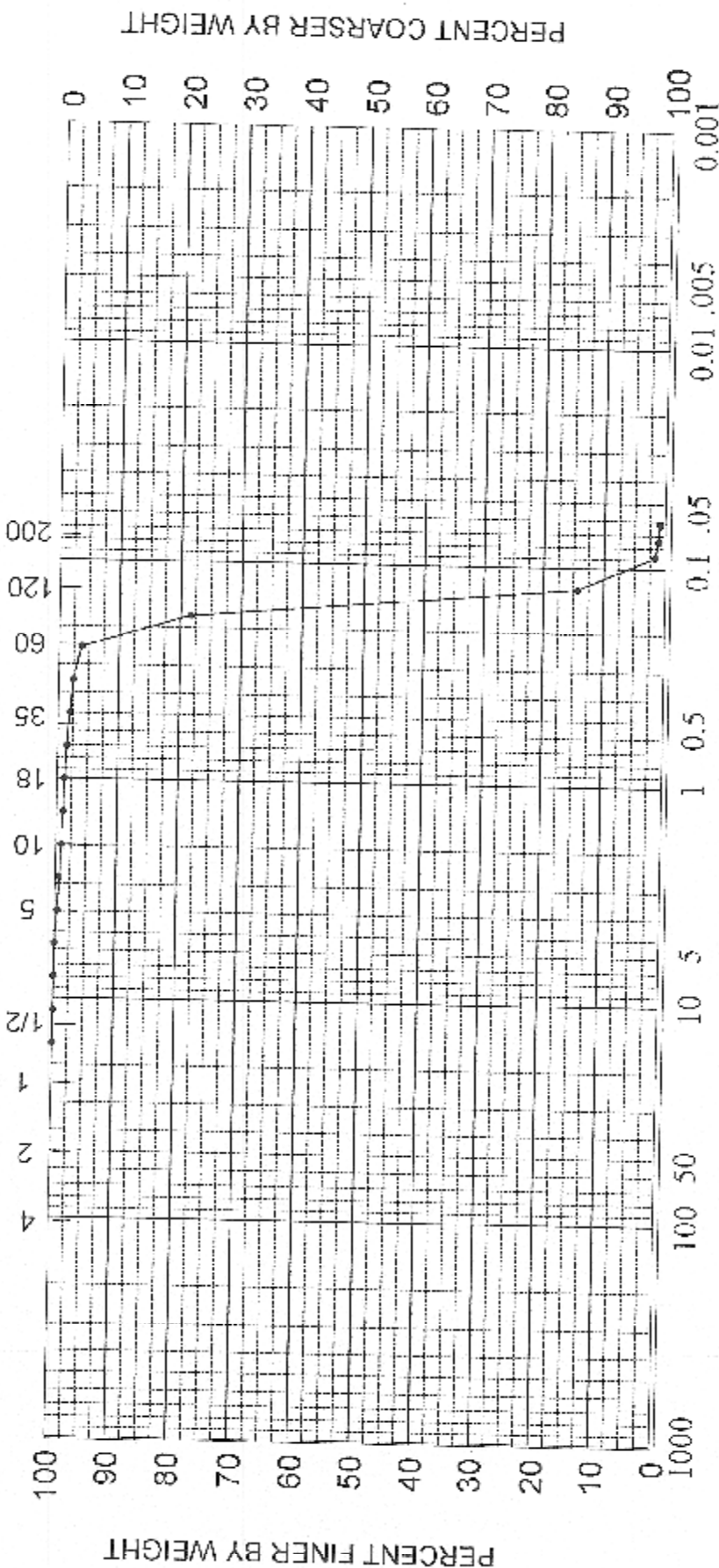
Sieve	Size (mm)	Phi size	Wt %	Cuml %	Folk	Statistics	
						phi	mm
5/8	16.00	-4.00	0.00	0.00	0.00		
1/2	11.31	-3.50	0.00	0.00	0.00		
5/16	8.00	-3.00	1.27	3.81	3.81		
1/4	5.66	-2.50	1.08	3.25	7.06	5% :	-2.82 7.05
5	4.00	-2.00	0.55	1.67	8.73	16% :	2.05 0.24
7	2.83	-1.50	0.28	0.84	9.57	25% :	2.51 0.18
10	2.00	-1.00	0.36	1.67	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	1.25	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 0.24
		Coarse Sand		3	%	St. Dev.	1.78 0.29
		Med. Sand		3	%	Skewness	-2.17
Cc =	1.15	Fine Sand		81	%	Kurtosis	5.21
		Silt/Clay		5	%		

## Sediment Analysis Data Sheet

Sample SM-5R1-11.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cum %	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	14.07	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	%			

U.S. STANDARD SIEVE OPENING IN INCHES U.S. STANDARD SIEVE NUMBERS HYDROMETER

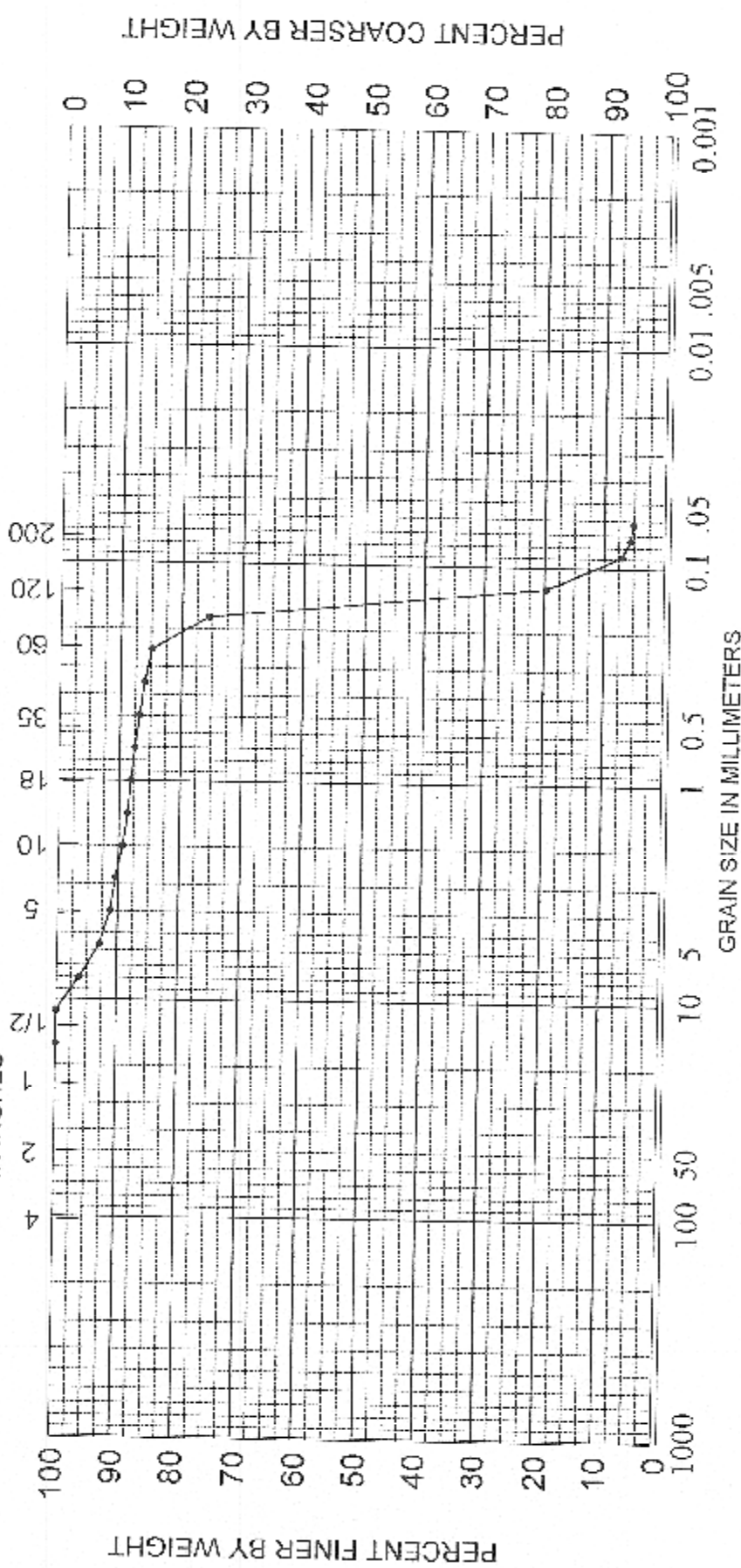


PHI -6.0 -5.0 -4.0 -3.0 -2.0 -1.0 -0.0 1.0 2.0 3.0 4.0 5.0

COBBLES	GRAVEL		SAND		SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM FINE	

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

U.S. STANDARD SIEVE OPENING U.S. STANDARD SIEVE NUMBERS HYDROMETER  
IN INCHES

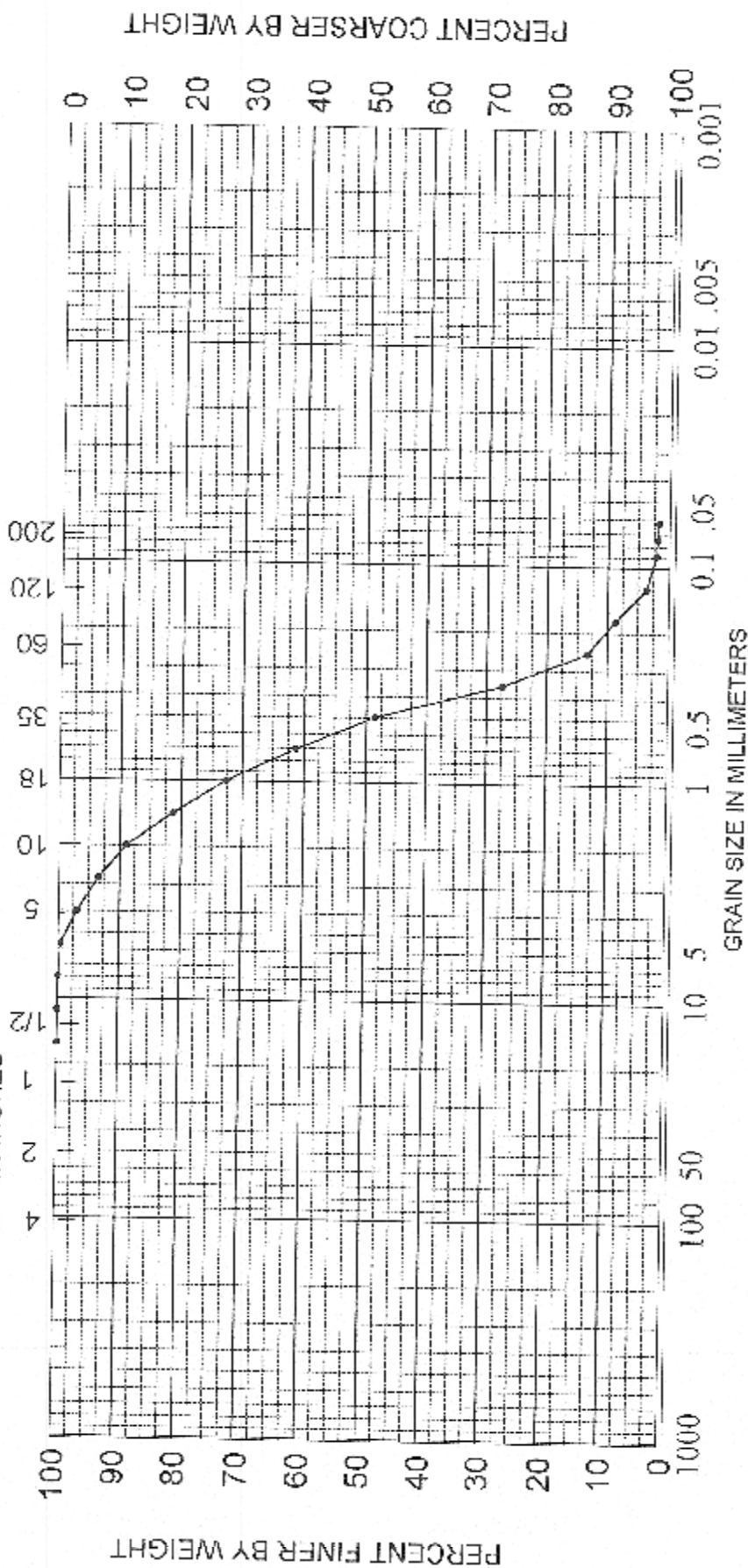


PHI -6.0 -5.0 -4.0 -3.0 -2.0 -1.0 -0.0 1.0 2.0 3.0 4.0 5.0

COBBLES	GRAVEL		SAND		SILT OR CLAY
	COARSE	FINE	COARSE	FINE	

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

U.S. STANDARD SIEVE OPENING U.S. STANDARD SIEVE NUMBERS HYDROMETER  
IN INCHES



PHI -3.0 -5.0 -4.0 -3.0 -2.0 -1.0 -0.0 1.0 2.0 3.0 4.0 5.0

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION		PROJECT: Olson & 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