


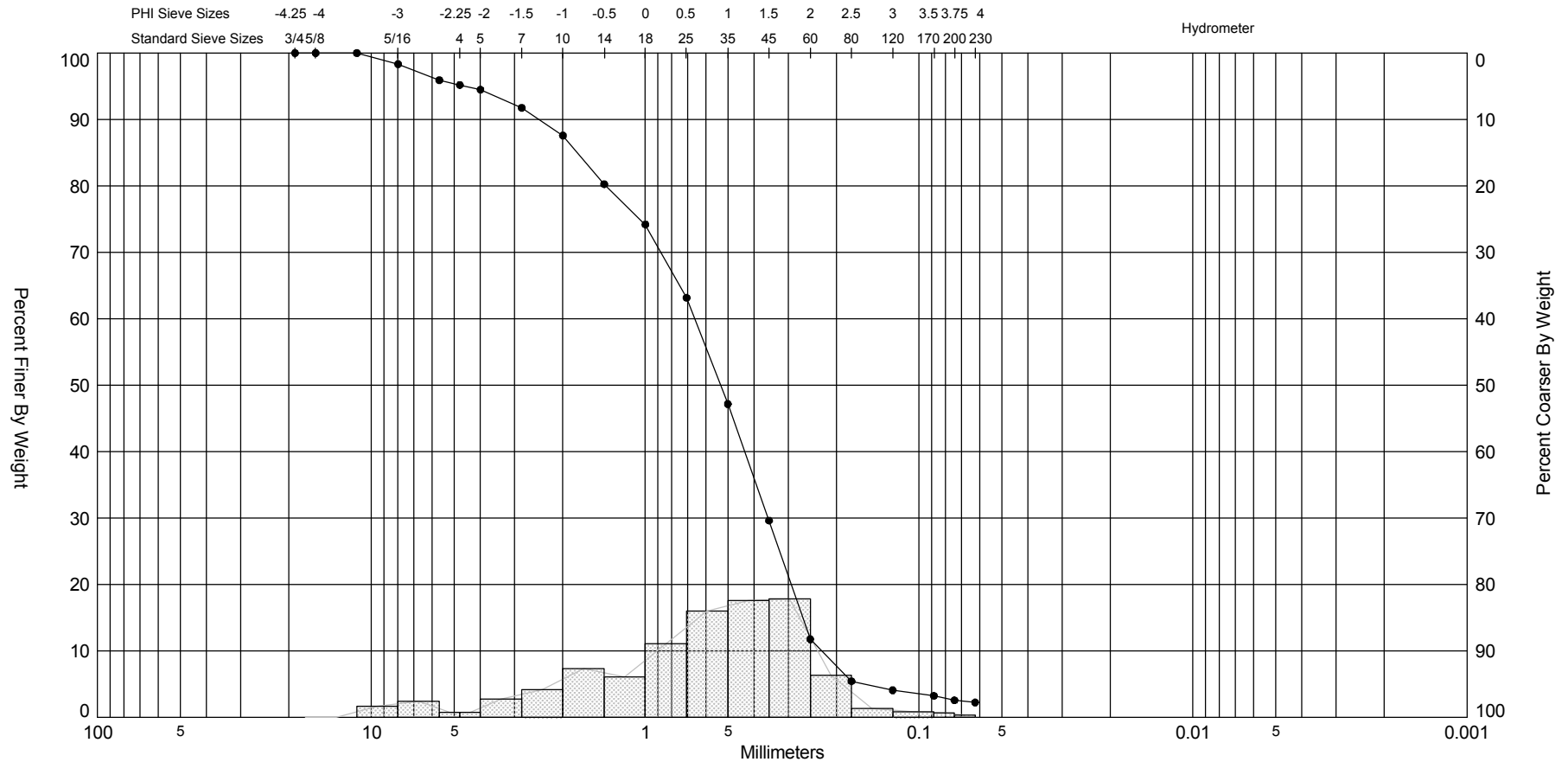


Granularmetric Report Depths and elevations based on measured values				 Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116			
Project Name: St. Lucie Vibracores							
Sample Name: SLVC-06-40 #1							
Analysis Date: 06-17-06							
Analyzed By: JF							
Easting (ft): 913,807		Northing (ft): 1,086,614		Coordinate System: Florida State Plane East		Elevation (ft): -36.0 NAVD 88	
USCS: SW		Munsell: Wet - 2.5Y-4/1 Dry - 5Y-5/1 Washed - 2.5Y-5/1		Comments:			
Dry Weight (g): 85.15	Wash Weight (g): 83.27	Pan Retained (g): 0.03	Sieve Loss (%): 0.00	Fines (%): #200 - 2.56 #230 - 2.23	Organics (%):	Carbonates (%):	Shell Hash (%): 6
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	1.42	1.67	1.42	1.67	
3.5	-2.50	5.66	2.05	2.41	3.47	4.08	
4	-2.25	4.76	0.61	0.72	4.08	4.80	
5	-2.00	4.00	0.61	0.72	4.69	5.52	
7	-1.50	2.83	2.32	2.72	7.01	8.24	
10	-1.00	2.00	3.55	4.17	10.56	12.41	
14	-0.50	1.41	6.23	7.32	16.79	19.73	
18	0.00	1.00	5.17	6.07	21.96	25.80	
25	0.50	0.71	9.41	11.05	31.37	36.85	
35	1.00	0.50	13.61	15.98	44.98	52.83	
45	1.50	0.35	14.94	17.55	59.92	70.38	
60	2.00	0.25	15.21	17.86	75.13	88.24	
80	2.50	0.18	5.39	6.33	80.52	94.57	
120	3.00	0.13	1.15	1.35	81.67	95.92	
170	3.50	0.09	0.72	0.85	82.39	96.77	
200	3.75	0.07	0.57	0.67	82.96	97.44	
230	4.00	0.06	0.28	0.33	83.24	97.77	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.66	1.88	1.63	0.91	-0.07	-0.75	-2.18	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.61	0.66	1.37	-0.77	3.48		


Granularmetric Report Depths and elevations based on measured values				 Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116			
Project Name: St. Lucie Vibracores							
Sample Name: SLVC-06-40 #2							
Analysis Date: 06-17-06							
Analyzed By: DA							
Easting (ft): <div style="text-align: center;">913,807</div>		Northing (ft): <div style="text-align: center;">1,086,614</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-39.2 NAVD 88</div>	
USCS: <div style="text-align: center;">SW-SM</div>		Munsell: Wet - N-4/0 Dry - N-5/0 Washed - N-5/0		Comments:			
Dry Weight (g): <div style="text-align: center;">81.71</div>	Wash Weight (g): <div style="text-align: center;">78.62</div>	Pan Retained (g): <div style="text-align: center;">0.28</div>	Sieve Loss (%): <div style="text-align: center;">0.17</div>	Fines (%): #200 - 5.70 #230 - 4.29	Organics (%):	Carbonates (%):	Shell Hash (%): <div style="text-align: center;">1</div>
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.05	0.06	0.05	0.06	
3.5	-2.50	5.66	0.00	0.00	0.05	0.06	
4	-2.25	4.76	0.17	0.21	0.22	0.27	
5	-2.00	4.00	0.19	0.23	0.41	0.50	
7	-1.50	2.83	0.34	0.42	0.75	0.92	
10	-1.00	2.00	0.62	0.76	1.37	1.68	
14	-0.50	1.41	1.02	1.25	2.39	2.93	
18	0.00	1.00	1.20	1.47	3.59	4.40	
25	0.50	0.71	2.85	3.49	6.44	7.89	
35	1.00	0.50	5.47	6.69	11.91	14.58	
45	1.50	0.35	9.98	12.21	21.89	26.79	
60	2.00	0.25	23.29	28.50	45.18	55.29	
80	2.50	0.18	20.05	24.54	65.23	79.83	
120	3.00	0.13	5.44	6.66	70.67	86.49	
170	3.50	0.09	0.07	0.09	70.74	86.58	
200	3.75	0.07	6.31	7.72	77.05	94.30	
230	4.00	0.06	1.15	1.41	78.20	95.71	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.87	2.81	2.40	1.91	1.43	1.06	0.09	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.82	0.28	1.01	-0.72	5.22		

Granularmetric Report Depths and elevations based on measured values				 Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116			
Project Name: St. Lucie Vibracores							
Sample Name: SLVC-06-40 #3							
Analysis Date: 06-17-06							
Analyzed By: JF							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
913,807		1,086,614		Florida State Plane East		-41.4 NAVD 88	
USCS:		Munsell:		Comments:			
SW-SM		Wet - N-4/0 Dry - N-5/0 Washed - N-5/0					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
82.02	78.46	0.59	0.12	#200 - 6.95 #230 - 5.19			0
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.09	0.11	0.09	0.11	
4	-2.25	4.76	0.00	0.00	0.09	0.11	
5	-2.00	4.00	0.11	0.13	0.20	0.24	
7	-1.50	2.83	0.19	0.23	0.39	0.47	
10	-1.00	2.00	0.23	0.28	0.62	0.75	
14	-0.50	1.41	0.40	0.49	1.02	1.24	
18	0.00	1.00	0.57	0.69	1.59	1.93	
25	0.50	0.71	1.21	1.48	2.80	3.41	
35	1.00	0.50	2.87	3.50	5.67	6.91	
45	1.50	0.35	6.15	7.50	11.82	14.41	
60	2.00	0.25	16.06	19.58	27.88	33.99	
80	2.50	0.18	21.96	26.77	49.84	60.76	
120	3.00	0.13	13.82	16.85	63.66	77.61	
170	3.50	0.09	9.09	11.08	72.75	88.69	
200	3.75	0.07	3.58	4.36	76.33	93.05	
230	4.00	0.06	1.44	1.76	77.77	94.81	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.29	2.92	2.30	1.77	1.54	0.73	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.21	0.22	0.89	-1.03	6.09		

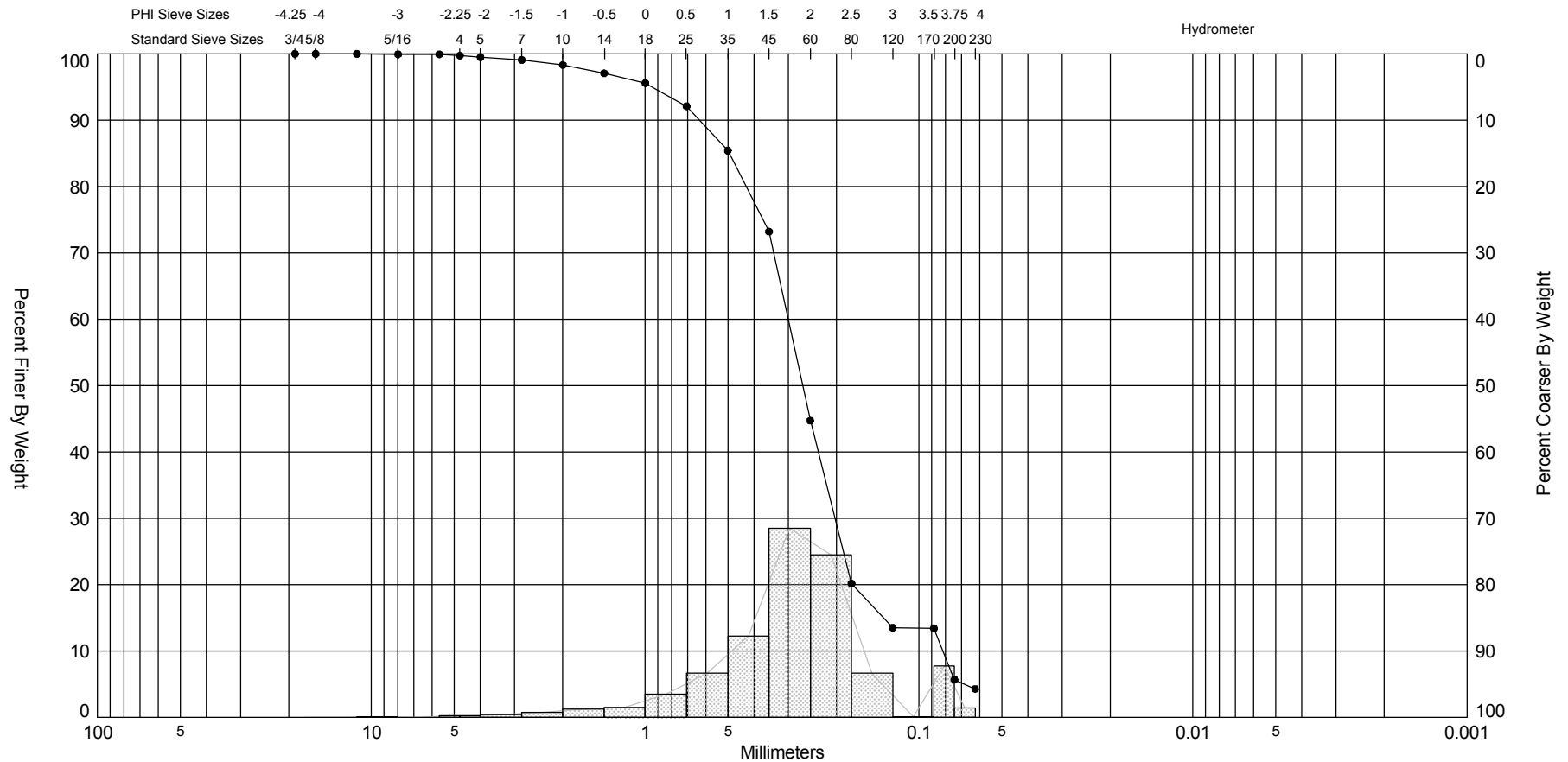
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
SLVC-06-40 #1	—●—	-36.0	SW	#200 - 2.56 #230 - 2.23			0.91	0.61	-0.77	3.48	1.37	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-17-06
Depths and elevations based on measured values												Analyzed By:	JF
							Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116					Easting (X, ft):	913,807
												Northing (Y, ft):	1,086,614
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

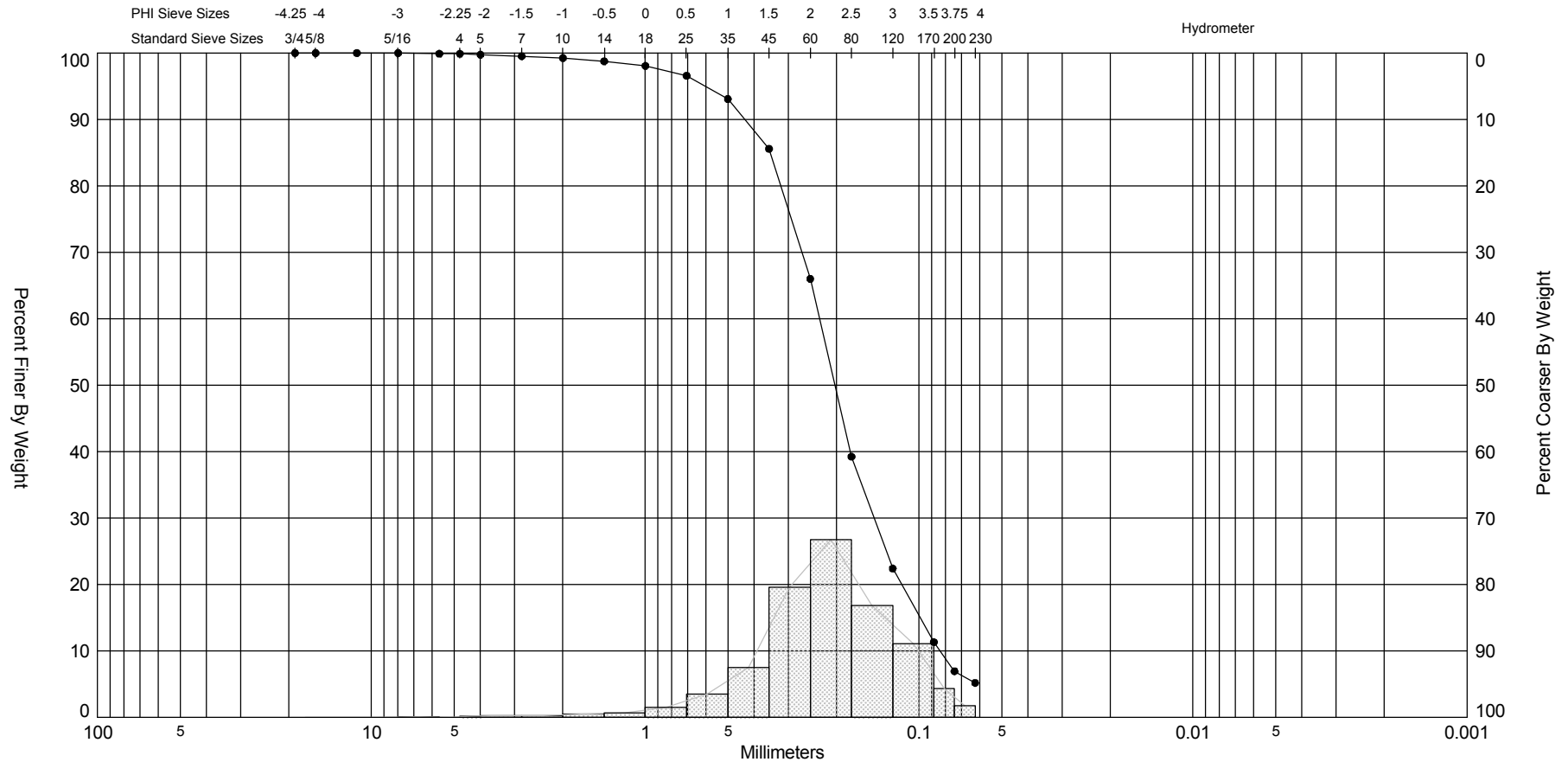
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
SLVC-06-40 #2	—●—	-39.2	SW-SM	#200 - 5.70 #230 - 4.29			1.91	1.82	-0.72	5.22	1.01	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-17-06
Depths and elevations based on measured values												Analyzed By:	DA
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	913,807
												Northing (Y, ft):	1,086,614
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
SLVC-06-40 #3	—●—	-41.4	SW-SM	#200 - 6.95 #230 - 5.19			2.3	2.21	-1.03	6.09	0.89	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-17-06
Depths and elevations based on measured values												Analyzed By:	JF
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	913,807
												Northing (Y, ft):	1,086,614
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88