

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-06-27 #1

Analysis Date: 06-20-06

Analyzed By: DA

Easting (ft):

911,846

Northing (ft):

1,090,236

Coordinate System:

Florida State Plane East

Elevation (ft):

-37.6 NAVD 88

USCS:

SW

Munsell:

Wet - 2.5Y-4/2

Dry - 2.5Y-6/1

Washed - 2.5Y-6/1

Comments:

Dry Weight (g):

95.79

Wash Weight (g):

93.66

Pan Retained (g):

0.03

Sieve Loss (%):

0.07

Fines (%):

#200 - 2.63

#230 - 2.34

Organics (%):

Carbonates (%):

Shell Hash (%):

10

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

1.56

1.63

1.56

1.63

5/16"

-3.00

8.00

1.80

1.88

3.36

3.51

3.5

-2.50

5.66

1.93

2.01

5.29

5.52

4

-2.25

4.76

0.74

0.77

6.03

6.29

5

-2.00

4.00

1.54

1.61

7.57

7.90

7

-1.50

2.83

2.35

2.45

9.92

10.35

10

-1.00

2.00

4.11

4.29

14.03

14.64

14

-0.50

1.41

9.28

9.69

23.31

24.33

18

0.00

1.00

10.15

10.60

33.46

34.93

25

0.50

0.71

15.01

15.67

48.47

50.60

35

1.00

0.50

18.94

19.77

67.41

70.37

45

1.50

0.35

14.94

15.60

82.35

85.97

60

2.00

0.25

6.21

6.48

88.56

92.45

80

2.50

0.18

2.31

2.41

90.87

94.86

120

3.00

0.13

1.00

1.04

91.87

95.90

170

3.50

0.09

0.89

0.93

92.76

96.83

200

3.75

0.07

0.52

0.54

93.28

97.37

230

4.00

0.06

0.28

0.29

93.56

97.66

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

2.57

1.44

1.15

0.48

-0.47

-0.93

-2.63

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

0.22

0.86

1.37

-0.67

3.86

GRANULARMETRIC REPORT ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06

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FL 33431
ph (561) 391-8102
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Project Name: St. Lucie Vibracores

Sample Name: SLVC-06-27 #2

Analysis Date: 06-21-06

Analyzed By: DA

Easting (ft):

911,846

Northing (ft):

1,090,236

Coordinate System:

Florida State Plane East

Elevation (ft):

-40.1 NAVD 88

USCS:

SW

Munsell:

Wet - N-4/0

Dry - N-5/0

Washed - N-5/0

Comments:

Dry Weight (g):

103.89

Wash Weight (g):

101.41

Pan Retained (g):

0.18

Sieve Loss (%):

0.10

Fines (%):

#200 - 3.25

#230 - 2.66

Organics (%):

Carbonates (%):

Shell Hash (%):

16

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

1.21

1.16

1.21

1.16

7/16"

-3.50

11.31

3.53

3.40

4.74

4.56

5/16"

-3.00

8.00

3.03

2.92

7.77

7.48

3.5

-2.50

5.66

3.10

2.98

10.87

10.46

4

-2.25

4.76

0.94

0.90

11.81

11.36

5

-2.00

4.00

1.73

1.67

13.54

13.03

7

-1.50

2.83

3.22

3.10

16.76

16.13

10

-1.00

2.00

5.35

5.15

22.11

21.28

14

-0.50

1.41

10.12

9.74

32.23

31.02

18

0.00

1.00

8.58

8.26

40.81

39.28

25

0.50

0.71

11.42

10.99

52.23

50.27

35

1.00

0.50

10.56

10.16

62.79

60.43

45

1.50

0.35

9.24

8.89

72.03

69.32

60

2.00

0.25

10.21

9.83

82.24

79.15

80

2.50

0.18

9.04

8.70

91.28

87.85

120

3.00

0.13

3.72

3.58

95.00

91.43

170

3.50

0.09

3.25

3.13

98.25

94.56

200

3.75

0.07

2.27

2.19

100.52

96.75

230

4.00

0.06

0.61

0.59

101.13

97.34

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.55

2.28

1.79

0.49

-0.81

-1.52

-3.42

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

0.27

0.83

1.87

-0.42

2.62

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Coastal Planning & Engineering
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FL 33431
ph (561) 391-8102
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Project Name: St. Lucie Vibracores

Sample Name: SLVC-06-27 #3

Analysis Date: 06-20-06

Analyzed By: DA

Easting (ft):

911,846

Northing (ft):

1,090,236

Coordinate System:

Florida State Plane East

Elevation (ft):

-41.5 NAVD 88

USCS:

SW-SM

Munsell:

Wet - N-5/0

Dry - 5Y-6/1

Washed - 5Y-6/1

Comments:

Dry Weight (g):

89.00

Wash Weight (g):

85.51

Pan Retained (g):

0.35

Sieve Loss (%):

0.09

Fines (%):

#200 - 6.17

#230 - 4.42

Organics (%):

Carbonates (%):

Shell Hash (%):

1

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

0.11

0.12

0.11

0.12

4

-2.25

4.76

0.00

0.00

0.11

0.12

5

-2.00

4.00

0.08

0.09

0.19

0.21

7

-1.50

2.83

0.27

0.30

0.46

0.51

10

-1.00

2.00

0.66

0.74

1.12

1.25

14

-0.50

1.41

2.05

2.30

3.17

3.55

18

0.00

1.00

2.23

2.51

5.40

6.06

25

0.50

0.71

3.27

3.67

8.67

9.73

35

1.00

0.50

4.20

4.72

12.87

14.45

45

1.50

0.35

4.84

5.44

17.71

19.89

60

2.00

0.25

10.81

12.15

28.52

32.04

80

2.50

0.18

19.16

21.53

47.68

53.57

120

3.00

0.13

17.09

19.20

64.77

72.77

170

3.50

0.09

13.95

15.67

78.72

88.44

200

3.75

0.07

4.80

5.39

83.52

93.83

230

4.00

0.06

1.56

1.75

85.08

95.58

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.92

3.36

3.07

2.42

1.71

1.14

-0.21

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.16

0.22

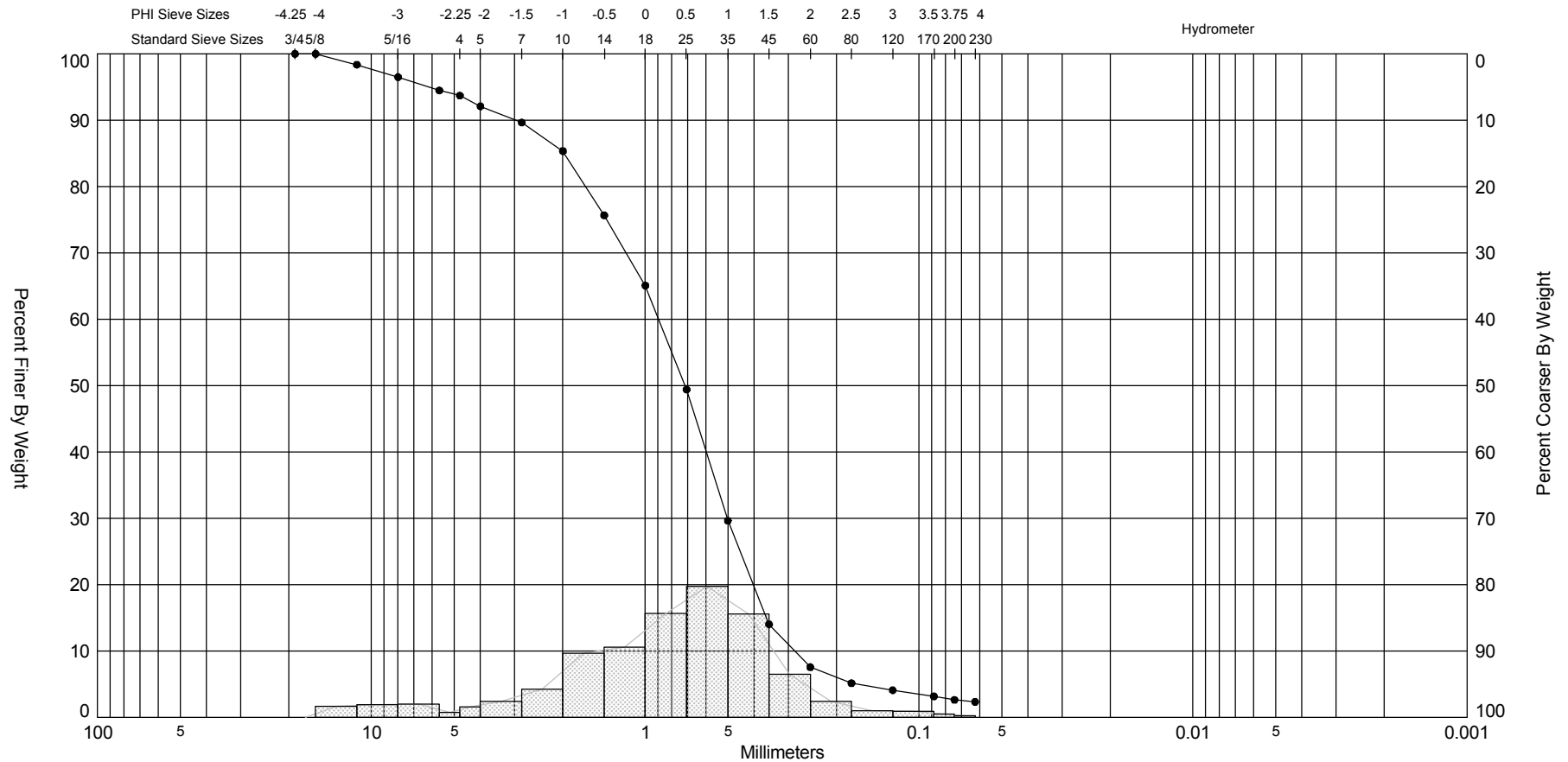
1.14

-1.11


4.14

GRANULARMETRIC REPORT ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06

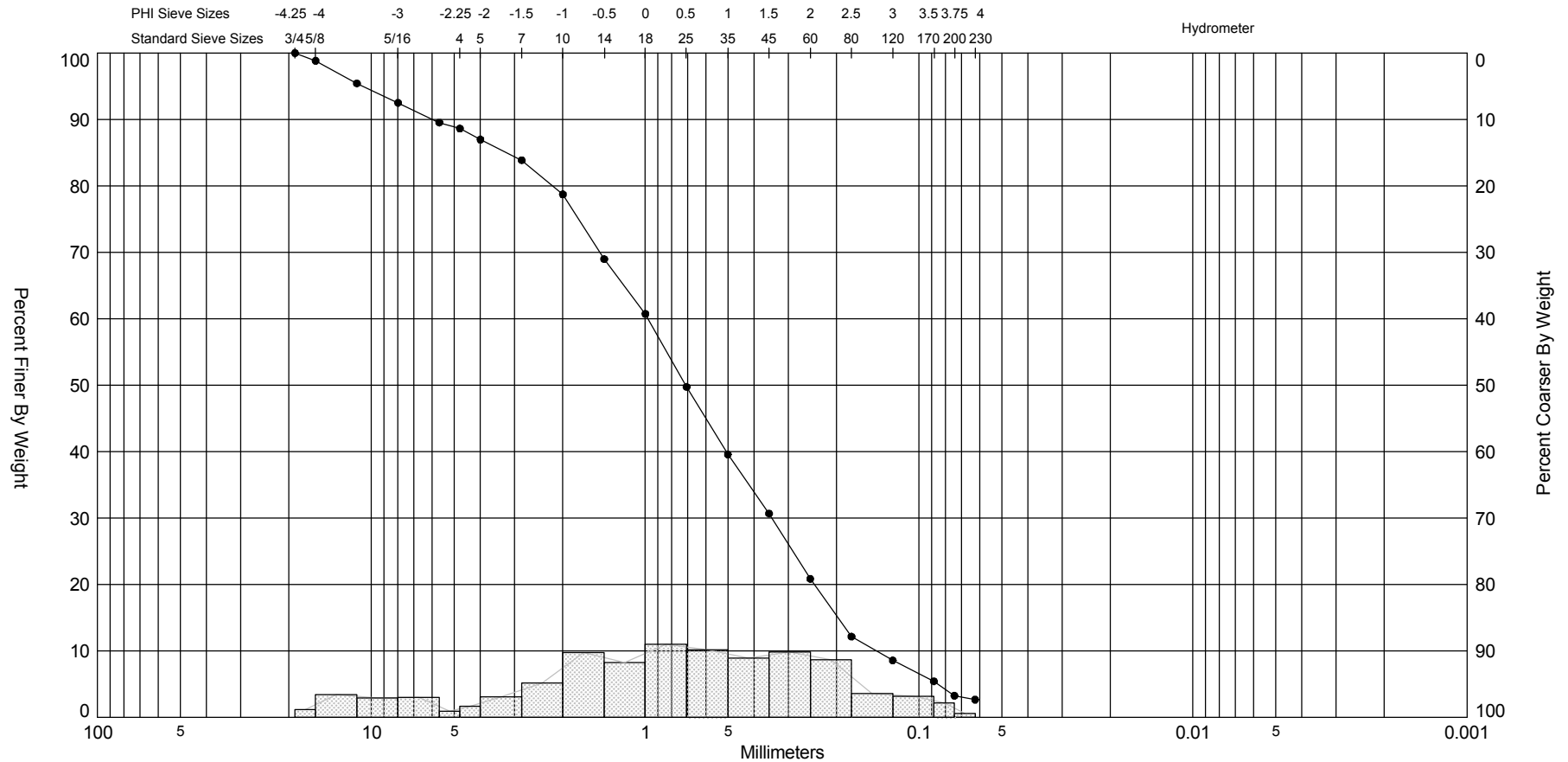
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




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-06-27 #1	—●—	-37.6	SW	#200 - 2.63 #230 - 2.34			0.48	0.22	-0.67	3.86	1.37	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-20-06
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):	911,846
												Northing (Y, ft):	1,090,236
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

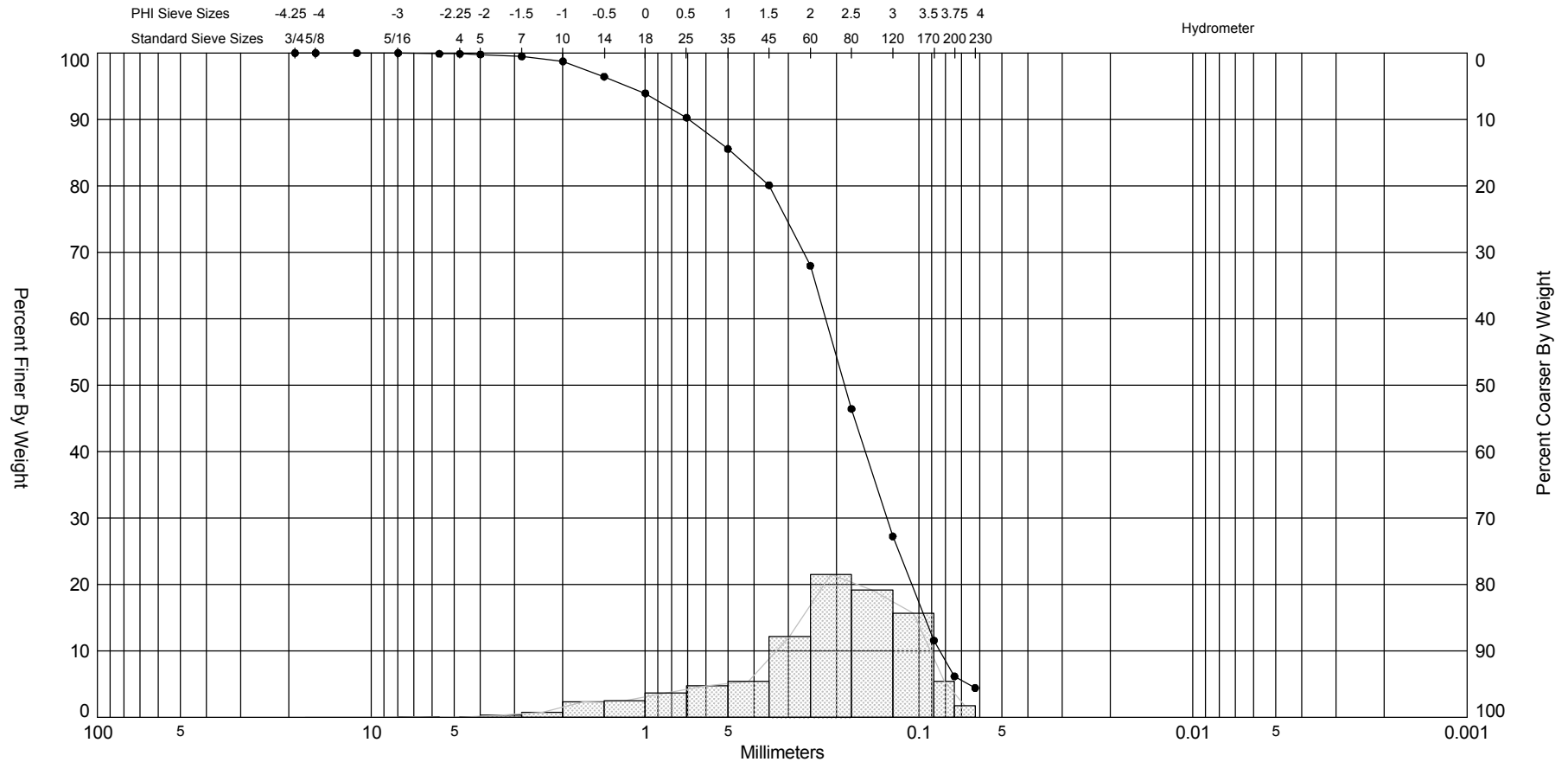
SIEVE ANALYSIS ST LUCIE VC.GPJ FL DEP ROSS.GDT 6/28/06




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-06-27 #2	—●—	-40.1	SW	#200 - 3.25 #230 - 2.66			0.49	0.27	-0.42	2.62	1.87	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-21-06
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):	911,846
												Northing (Y, ft):	1,090,236
												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-06-27 #3	—●—	-41.5	SW-SM	#200 - 6.17 #230 - 4.42			2.42	2.16	-1.11	4.14	1.14	Project Name:	St. Lucie Vibracores
Comments:												Analysis Date:	06-20-06
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):	911,846
												Northing (Y, ft):	1,090,236
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88