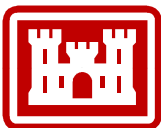
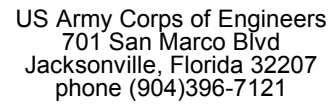


USAGE GRANULARMETRIC REPORT FDEP\_GINT\_IMPORT\_FLAGLER.GPJ FL DEP ROSS.GDT 11/14/12

<b>Granularmetric Report</b> Depths and elevations based on measured values				 US Army Corps of Engineers 701 San Marco Blvd Jacksonville, Florida 32207 phone (904)396-7121			
Project Name: Flagler County							
Sample Name: R-73 #Dune							
Analysis Date: 09-04-12							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
613,623		1,875,986				0.0 MLLW	
USCS		Munsell:		Comments:			
SW		Moist - 7.5YR 7/3					
				Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
				#230 - 0.02			39.80
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained		C. % Weight Retained		
3/8"	-3.25	9.48	0.00		0.00		
#3.5	-2.50	5.66	0.57		0.57		
#4	-2.25	4.75	0.18		0.75		
#5	-2.00	3.99	0.15		0.90		
#7	-1.50	2.82	0.19		1.09		
#10	-1.00	2.00	0.51		1.60		
#14	-0.50	1.41	1.92		3.52		
#18	0.00	1.00	6.06		9.58		
#25	0.50	0.71	10.89		20.47		
#35	1.00	0.50	16.71		37.18		
#45	1.50	0.35	22.32		59.50		
#60	2.00	0.25	25.08		84.58		
#80	2.50	0.18	12.70		97.28		
#120	3.00	0.13	2.42		99.70		
#170	3.50	0.09	0.24		99.94		
#200	3.75	0.07	0.01		99.95		
#230	4.00	0.06	0.03		99.98		
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.41	1.98	1.80	1.28	0.63	0.29	-0.38	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.17	0.44	0.89	-0.98	5.16		

Depths and elevations based on measured values



Analyzed By:

0.0 MLLW

Comments:

64.50

C. % Weight Retained

0.00

0.13

0.64

5.93

22.52

45.00

65.41

83.10

95.37

99.47

99.97

99.98

99.99

99.99

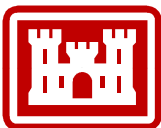
Phi 95

-0.59

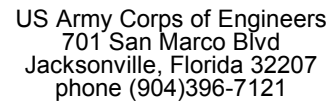
## Kurtosis

2.44

USAGE GRANULARMETRIC REPORT FDEP\_GINT\_IMPORT\_FLAGLER.GPJ FL DEP ROSS.GDT 11/14/12

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <p>US Army Corps of Engineers                  701 San Marco Blvd                  Jacksonville, Florida 32207                  phone (904)396-7121</p>			
Project Name: Flagler County							
Sample Name: R-73 #Berm Post							
Analysis Date: 09-04-12							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
613,623		1,875,986				0.0 MLLW	
USCS		Munsell:		Comments:			
SP		Moist - 7.5YR 7/3					
				Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
				#230 - 0.00			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained		C. % Weight Retained		
#18	0.00	1.00	0.00		0.00		
#25	0.50	0.71	10.90		10.90		
#35	1.00	0.50	23.56		34.46		
#45	1.50	0.35	27.01		61.47		
#60	2.00	0.25	26.26		87.73		
#80	2.50	0.18	10.32		98.05		
#120	3.00	0.13	1.53		99.58		
#170	3.50	0.09	0.42		100.00		
#200	3.75	0.07	0.00		100.00		
#230	4.00	0.06	0.00		100.00		
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.35	1.93	1.75	1.28	0.80	0.61	0.23	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.29	0.41	0.62	0.16	2.54		

Depths and elevations based on measured values



Analyzed By:

0.0 MLLW

Comments:

46.90

C. % Weight Retained

0.00

0.01

0.16

1.03

8.13

22.45

36.49

47.17

56.36

68.16

88.79

99.44

99.80

99.80

99.81

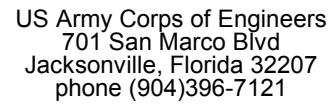
Phi 95

-0.72

## Kurtosis

1.75

Depths and elevations based on measured values



Analyzed By:

0.0 MLLW

Comments:

#230 - 1.03

5.80

C. % Weight Retained

0.00

0.04

0.16

0.46

1.23

2.27

3.32

4.30

6.07

11.92

49.60

92.79

98.87

98.97

98.97

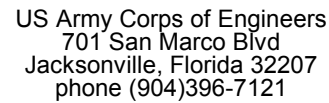
Phi 95

1.19

## Kurtosis

12.97

Depths and elevations based on measured values



Analyzed By:

-0.1 MLLW

Comments:

13.80

C. % Weight Retained

0.00

0.05

0.12

0.30

0.94

2.96

6.02

8.76

11.49

15.37

26.20

73.99

96.55

99.10

99.13

99.16

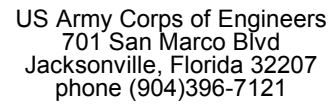
Phi 95

-0.17

## Kurtosis

6.6

Depths and elevations based on measured values



Analyzed By:

-0.1 MLLW

Comments:

14.20	11.80
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C. % Weight Retained

0.00

0.06

0.32

1.57

4.72

8.27

11.21

13.35

16.01

29.50

84.16

97.42

98.65

98.93

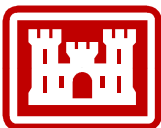
Phi 95

0.04

## Kurtosis

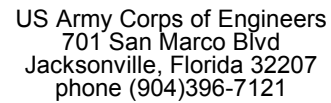
6.04

USAGE GRANULARMETRIC REPORT FDEP\_GINT\_IMPORT\_FLAGLER.GPJ FL DEP ROSS.GDT 11/14/12

<b>Granularmetric Report</b> Depths and elevations based on measured values				 US Army Corps of Engineers 701 San Marco Blvd Jacksonville, Florida 32207 phone (904)396-7121			
Project Name: Flagler County							
Sample Name: R-73 #-10 post							
Analysis Date: 09-04-12							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
613,623		1,875,986				-0.1 MLLW	
USCS		Munsell:		Comments:			
SP		Moist - 7.5YR 7/1					
				Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
				#230 - 0.00			
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained		C. % Weight Retained		
#18	0.00	1.00	0.00		0.00		
#25	0.50	0.71	0.67		0.67		
#35	1.00	0.50	2.41		3.08		
#45	1.50	0.35	1.14		4.22		
#60	2.00	0.25	2.93		7.15		
#80	2.50	0.18	18.80		25.95		
#120	3.00	0.13	57.21		83.16		
#170	3.50	0.09	15.30		98.46		
#200	3.75	0.07	1.23		99.69		
#230	4.00	0.06	0.31		100.00		
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.39	3.03	2.93	2.71	2.47	2.23	1.63	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.63	0.16	0.53	-1.76	8.04		



Depths and elevations based on measured values



Analyzed By:

-0.1 MLLW

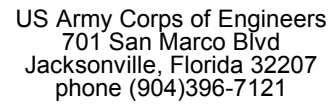
Comments:

3.80

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.64	0.16	0.7	-3.92	22.37

USACE GRANULARMETRIC REPORT FDEP\_GINT\_IMPORT\_FLAGLER.GPJ FL DEP ROSS.GDT 11/14/12

Depths and elevations based on measured values



Analyzed By:

-0.1 MLLW

Comments:

Shells (%):

2.80

C. % Weight Retained

0.00

0.12

0.15

0.30

0.99

1.78

2.44

2.94

3.40

4.31

13.87

75.36

86.14

97.01

97.24

Phi 95

2.03

## Kurtosis

17.23