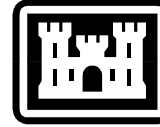


Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-13 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 666,850	Northing (ft): 1,903,160	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -58.8 NAVD88
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USCS: SP	Munsell: 10Y 5/1	Fines (%): #200 - 1.38 #230 - 1.30	Organics (%):	Carbonates (%): 15.67	Shells (%): 11
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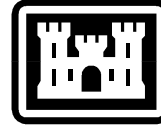
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.01	0.01
#4	-2.25	4.75	0.07	0.08
#5	-2.00	4.00	0.12	0.20
#7	-1.50	2.80	0.17	0.37
#10	-1.00	2.00	0.71	1.07
#14	-0.50	1.40	1.11	2.18
#18	0.00	1.00	1.29	3.47
#25	0.50	0.71	2.17	5.64
#35	1.00	0.50	6.12	11.75
#45	1.50	0.36	11.95	23.71
#60	2.00	0.25	20.34	44.05
#80	2.50	0.18	37.09	81.14
#120	3.00	0.13	16.36	97.50
#170	3.50	0.09	1.06	98.56
#200	3.75	0.08	0.06	98.62
#230	4.00	0.06	0.08	98.70

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few fine to medium-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.92	2.59	2.42	2.08	1.53	1.18	0.35	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.88	0.27	2.08	0.24	0.81	-1.55	6.55

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-13 @ 5 ft

Analysis Date: 3/29/2019

Easting (ft): 666,850	Northing (ft): 1,903,160	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -62.8 NAVD88
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USCS: SW	Munsell: 10Y 5/1	Fines (%): #200 - 2.05 #230 - 2.03	Organics (%):	Carbonates (%):	Shells (%): 20.3
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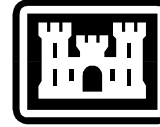
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.11	0.11
#4	-2.25	4.75	0.21	0.31
#5	-2.00	4.00	0.52	0.83
#7	-1.50	2.80	0.28	1.11
#10	-1.00	2.00	0.77	1.88
#14	-0.50	1.40	0.95	2.83
#18	0.00	1.00	1.05	3.88
#25	0.50	0.71	1.40	5.28
#35	1.00	0.50	3.52	8.81
#45	1.50	0.36	8.01	16.82
#60	2.00	0.25	17.59	34.40
#80	2.50	0.18	38.37	72.77
#120	3.00	0.13	23.11	95.89
#170	3.50	0.09	1.92	97.80
#200	3.75	0.08	0.14	97.95
#230	4.00	0.06	0.02	97.97

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.98	2.74	2.55	2.20	1.73	1.45	0.40	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	2.00	0.25	2.20	0.22	0.87	-2.21	9.77

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-14 @ 2 ft

Analysis Date: 3/29/2019

Easting (ft): 667,502	Northing (ft): 1,903,875	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -56.1 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 1.54 #230 - 1.48	Organics (%):	Carbonates (%): 18.86	Shells (%): 15.7
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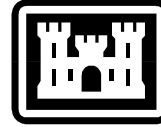
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
#3.5	-2.50	5.60	0.00	0.00
#4	-2.25	4.75	0.20	0.20
#5	-2.00	4.00	0.07	0.27
#7	-1.50	2.80	0.37	0.63
#10	-1.00	2.00	0.47	1.10
#14	-0.50	1.40	1.63	2.73
#18	0.00	1.00	1.94	4.67
#25	0.50	0.71	2.99	7.66
#35	1.00	0.50	6.87	14.53
#45	1.50	0.36	11.70	26.23
#60	2.00	0.25	20.25	46.48
#80	2.50	0.18	35.25	81.73
#120	3.00	0.13	15.42	97.15
#170	3.50	0.09	1.15	98.31
#200	3.75	0.08	0.16	98.46
#230	4.00	0.06	0.05	98.52

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.93	2.57	2.40	2.05	1.45	1.06	0.06	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.81	0.29	2.05	0.24	0.87	-1.45	5.85

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-15 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 668,152	Northing (ft): 1,904,661	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -54.3 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 1.55 #230 - 1.50	Organics (%):	Carbonates (%):	Shells (%): 23
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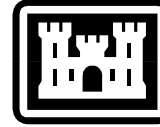
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
#3.5	-2.50	5.60	0.00	0.00
#4	-2.25	4.75	0.05	0.05
#5	-2.00	4.00	0.14	0.18
#7	-1.50	2.80	0.43	0.61
#10	-1.00	2.00	0.92	1.53
#14	-0.50	1.40	1.73	3.26
#18	0.00	1.00	2.78	6.04
#25	0.50	0.71	3.94	9.98
#35	1.00	0.50	7.04	17.01
#45	1.50	0.36	11.29	28.31
#60	2.00	0.25	20.63	48.94
#80	2.50	0.18	35.17	84.11
#120	3.00	0.13	13.55	97.66
#170	3.50	0.09	0.54	98.21
#200	3.75	0.08	0.24	98.45
#230	4.00	0.06	0.05	98.50

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.90	2.50	2.37	2.02	1.35	0.93	-0.19	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.74	0.30	2.02	0.25	0.91	-1.36	5.05

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-15 @ 4 ft

Analysis Date: 3/29/2019

Easting (ft): 668,152	Northing (ft): 1,904,661	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -57.3 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 1.89 #230 - 1.86	Organics (%):	Carbonates (%): 23.97	Shells (%): 26.6
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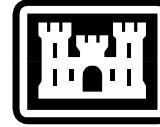
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.22	0.22
#4	-2.25	4.75	0.51	0.73
#5	-2.00	4.00	0.18	0.92
#7	-1.50	2.80	0.34	1.26
#10	-1.00	2.00	1.03	2.29
#14	-0.50	1.40	1.93	4.22
#18	0.00	1.00	2.61	6.82
#25	0.50	0.71	4.07	10.89
#35	1.00	0.50	6.80	17.69
#45	1.50	0.36	10.40	28.09
#60	2.00	0.25	18.44	46.52
#80	2.50	0.18	35.44	81.96
#120	3.00	0.13	15.32	97.28
#170	3.50	0.09	0.74	98.02
#200	3.75	0.08	0.09	98.11
#230	4.00	0.06	0.03	98.14

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.93	2.57	2.40	2.05	1.35	0.88	-0.35	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.73	0.30	2.05	0.24	0.99	-1.61	6.07

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-15 @ 8 ft

Analysis Date: 3/29/2019

Easting (ft): 668,152	Northing (ft): 1,904,661	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -61.3 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 1.52 #230 - 1.47	Organics (%):	Carbonates (%):	Shells (%): 25.5
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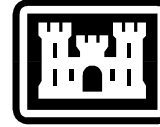
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.11	0.11
#4	-2.25	4.75	0.18	0.29
#5	-2.00	4.00	0.24	0.53
#7	-1.50	2.80	0.40	0.93
#10	-1.00	2.00	0.83	1.76
#14	-0.50	1.40	1.34	3.10
#18	0.00	1.00	2.00	5.10
#25	0.50	0.71	2.90	8.00
#35	1.00	0.50	6.51	14.50
#45	1.50	0.36	10.40	24.90
#60	2.00	0.25	19.25	44.15
#80	2.50	0.18	39.72	83.87
#120	3.00	0.13	13.49	97.36
#170	3.50	0.09	0.98	98.34
#200	3.75	0.08	0.14	98.48
#230	4.00	0.06	0.05	98.53

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.91	2.50	2.39	2.07	1.50	1.07	-0.02	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.81	0.29	2.07	0.24	0.9	-1.71	6.89

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-15 @ 11 ft

Analysis Date: 3/29/2019

Easting (ft): 668,152	Northing (ft): 1,904,661	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -64.3 NAVD88
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USCS: SP	Munsell: 10Y 4/1	Fines (%): #200 - 3.52 #230 - 3.37	Organics (%):	Carbonates (%):	Shells (%): 12.6
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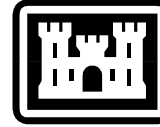
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.13	0.13
#4	-2.25	4.75	0.07	0.20
#5	-2.00	4.00	0.04	0.24
#7	-1.50	2.80	0.13	0.37
#10	-1.00	2.00	0.19	0.56
#14	-0.50	1.40	0.23	0.79
#18	0.00	1.00	0.33	1.12
#25	0.50	0.71	0.39	1.52
#35	1.00	0.50	0.56	2.07
#45	1.50	0.36	1.11	3.19
#60	2.00	0.25	4.64	7.82
#80	2.50	0.18	30.51	38.33
#120	3.00	0.13	50.36	88.69
#170	3.50	0.09	6.88	95.57
#200	3.75	0.08	0.91	96.48
#230	4.00	0.06	0.16	96.63

SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine to medium-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.46	2.95	2.86	2.62	2.28	2.13	1.70	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	2.50	0.18	2.62	0.16	0.6	-3.57	25.42

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-18 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 667,607	Northing (ft): 1,902,489	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -57.5 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 1.30 #230 - 1.29	Organics (%):	Carbonates (%):	Shells (%): 25.9
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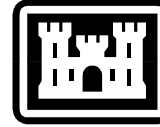
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
#3.5	-2.50	5.60	0.00	0.00
#4	-2.25	4.75	0.08	0.08
#5	-2.00	4.00	0.22	0.30
#7	-1.50	2.80	0.39	0.68
#10	-1.00	2.00	1.13	1.81
#14	-0.50	1.40	1.70	3.51
#18	0.00	1.00	1.84	5.35
#25	0.50	0.71	3.29	8.64
#35	1.00	0.50	7.68	16.32
#45	1.50	0.36	11.08	27.40
#60	2.00	0.25	17.88	45.28
#80	2.50	0.18	35.26	80.53
#120	3.00	0.13	16.93	97.47
#170	3.50	0.09	1.08	98.55
#200	3.75	0.08	0.15	98.70
#230	4.00	0.06	0.01	98.71

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.93	2.60	2.42	2.07	1.39	0.98	-0.10	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.80	0.29	2.07	0.24	0.92	-1.45	5.45

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granularmetric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-18 @ 6 ft

Analysis Date: 3/29/2019

Easting (ft): 667,607	Northing (ft): 1,902,489	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -62.5 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 1.31 #230 - 1.26	Organics (%):	Carbonates (%): 16.69	Shells (%): 20.5
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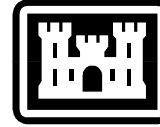
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/4"	-4.25	19.00	0.00	0.00
3/8"	-3.25	9.50	0.42	0.42
#3.5	-2.50	5.60	0.10	0.52
#4	-2.25	4.75	0.06	0.58
#5	-2.00	4.00	0.05	0.62
#7	-1.50	2.80	0.36	0.98
#10	-1.00	2.00	0.64	1.62
#14	-0.50	1.40	0.91	2.54
#18	0.00	1.00	1.07	3.61
#25	0.50	0.71	1.66	5.27
#35	1.00	0.50	4.01	9.28
#45	1.50	0.36	8.33	17.60
#60	2.00	0.25	17.49	35.09
#80	2.50	0.18	43.14	78.23
#120	3.00	0.13	18.63	96.86
#170	3.50	0.09	1.64	98.50
#200	3.75	0.08	0.19	98.69
#230	4.00	0.06	0.05	98.74

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.95	2.65	2.46	2.17	1.71	1.40	0.42	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.97	0.26	2.17	0.22	0.88	-2.6	13.59

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-19 @ 2 ft

Analysis Date: 3/29/2019

Easting (ft): 668,260	Northing (ft): 1,903,257	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -56.2 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 2.03	Organics (%):	Carbonates (%):	Shells (%): 19.9
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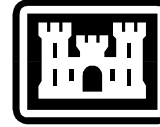
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/4"	-4.25	19.00	0.00	0.00
3/8"	-3.25	9.50	0.38	0.38
#3.5	-2.50	5.60	0.00	0.38
#4	-2.25	4.75	0.04	0.43
#5	-2.00	4.00	0.05	0.48
#7	-1.50	2.80	0.42	0.89
#10	-1.00	2.00	0.68	1.57
#14	-0.50	1.40	1.25	2.82
#18	0.00	1.00	1.77	4.59
#25	0.50	0.71	2.56	7.15
#35	1.00	0.50	4.98	12.13
#45	1.50	0.36	9.15	21.28
#60	2.00	0.25	19.34	40.62
#80	2.50	0.18	40.74	81.36
#120	3.00	0.13	15.13	96.49
#170	3.50	0.09	1.27	97.77
#200	3.75	0.08	0.20	97.97

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.95	2.59	2.42	2.12	1.60	1.21	0.08	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.87	0.27	2.12	0.23	0.9	-2.19	10.54

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-20 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 668,944	Northing (ft): 1,904,009	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -56.4 NAVD88
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USCS: SP	Munsell: 5Y 6/1	Fines (%): #200 - 1.87 #230 - 1.80	Organics (%):	Carbonates (%): 15.18	Shells (%): 20.4
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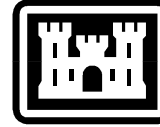
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.05	0.05
#4	-2.25	4.75	0.00	0.05
#5	-2.00	4.00	0.03	0.08
#7	-1.50	2.80	0.03	0.11
#10	-1.00	2.00	0.13	0.24
#14	-0.50	1.40	0.42	0.65
#18	0.00	1.00	0.90	1.55
#25	0.50	0.71	1.64	3.19
#35	1.00	0.50	3.06	6.25
#45	1.50	0.36	6.13	12.38
#60	2.00	0.25	16.90	29.28
#80	2.50	0.18	45.19	74.47
#120	3.00	0.13	22.07	96.54
#170	3.50	0.09	1.42	97.96
#200	3.75	0.08	0.17	98.13
#230	4.00	0.06	0.06	98.20

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.97	2.72	2.51	2.23	1.87	1.61	0.80	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	2.11	0.23	2.23	0.21	0.66	-1.79	8.71

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-20 @ 4 ft

Analysis Date: 3/29/2019

Easting (ft): 668,944	Northing (ft): 1,904,009	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -59.4 NAVD88
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USCS: SP	Munsell: 5Y 6/1	Fines (%): #200 - 1.63 #230 - 1.59	Organics (%):	Carbonates (%):	Shells (%): 13.4
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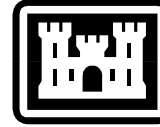
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.00	0.00
#4	-2.25	4.75	0.04	0.05
#5	-2.00	4.00	0.09	0.14
#7	-1.50	2.80	0.27	0.41
#10	-1.00	2.00	0.69	1.10
#14	-0.50	1.40	1.27	2.38
#18	0.00	1.00	1.60	3.97
#25	0.50	0.71	2.41	6.39
#35	1.00	0.50	4.48	10.87
#45	1.50	0.36	8.26	19.12
#60	2.00	0.25	19.97	39.09
#80	2.50	0.18	46.04	85.13
#120	3.00	0.13	11.66	96.80
#170	3.50	0.09	1.36	98.16
#200	3.75	0.08	0.22	98.37
#230	4.00	0.06	0.03	98.41

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.92	2.49	2.39	2.12	1.65	1.31	0.21	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.90	0.27	2.12	0.23	0.8	-1.8	7.35

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-20 @ 8 ft

Analysis Date: 3/29/2019

Easting (ft): 668,944	Northing (ft): 1,904,009	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -63.4 NAVD88
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USCS: SW	Munsell: 10Y 6/1	Fines (%): #200 - 1.96 #230 - 1.90	Organics (%):	Carbonates (%):	Shells (%): 12.3
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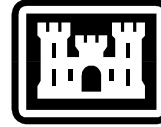
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.22	0.22
#4	-2.25	4.75	0.26	0.48
#5	-2.00	4.00	0.33	0.81
#7	-1.50	2.80	0.60	1.40
#10	-1.00	2.00	0.78	2.18
#14	-0.50	1.40	1.25	3.43
#18	0.00	1.00	1.48	4.91
#25	0.50	0.71	2.19	7.10
#35	1.00	0.50	4.02	11.12
#45	1.50	0.36	7.12	18.24
#60	2.00	0.25	16.20	34.44
#80	2.50	0.18	43.58	78.02
#120	3.00	0.13	18.22	96.23
#170	3.50	0.09	1.53	97.76
#200	3.75	0.08	0.28	98.04
#230	4.00	0.06	0.06	98.10

SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.97	2.66	2.47	2.18	1.71	1.34	0.02	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.94	0.26	2.18	0.22	0.92	-2.15	8.9

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-23 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 668,366	Northing (ft): 1,901,850	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -53.5 NAVD88
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USCS: SW	Munsell: 5Y 6/1	Fines (%): #200 - 1.37 #230 - 1.35	Organics (%):	Carbonates (%): 13.83	Shells (%): 19.2
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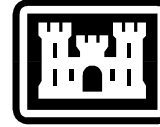
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.48	0.48
#4	-2.25	4.75	0.16	0.64
#5	-2.00	4.00	0.35	0.99
#7	-1.50	2.80	0.31	1.30
#10	-1.00	2.00	0.61	1.91
#14	-0.50	1.40	1.23	3.14
#18	0.00	1.00	1.66	4.80
#25	0.50	0.71	2.53	7.32
#35	1.00	0.50	4.75	12.08
#45	1.50	0.36	8.48	20.56
#60	2.00	0.25	17.87	38.43
#80	2.50	0.18	39.93	78.36
#120	3.00	0.13	18.97	97.33
#170	3.50	0.09	1.15	98.48
#200	3.75	0.08	0.15	98.63
#230	4.00	0.06	0.02	98.65

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.94	2.65	2.46	2.14	1.62	1.23	0.04	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.90	0.27	2.14	0.23	0.93	-2.11	9

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granularmetric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-23 @ 5 ft

Analysis Date: 3/29/2019

Easting (ft): 668,366	Northing (ft): 1,901,850	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -57.5 NAVD88
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USCS: SW	Munsell: 5Y 6/1	Fines (%): #200 - 0.88 #230 - 0.82	Organics (%):	Carbonates (%):	Shells (%): 24.8
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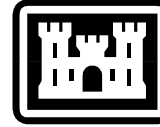
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/4"	-4.25	19.00	0.00	0.00
3/8"	-3.25	9.50	0.51	0.51
#3.5	-2.50	5.60	0.24	0.76
#4	-2.25	4.75	0.19	0.94
#5	-2.00	4.00	0.03	0.98
#7	-1.50	2.80	0.27	1.25
#10	-1.00	2.00	0.58	1.83
#14	-0.50	1.40	1.30	3.13
#18	0.00	1.00	1.52	4.65
#25	0.50	0.71	2.31	6.96
#35	1.00	0.50	4.52	11.48
#45	1.50	0.36	7.99	19.47
#60	2.00	0.25	17.69	37.16
#80	2.50	0.18	44.63	81.79
#120	3.00	0.13	16.04	97.83
#170	3.50	0.09	1.17	98.99
#200	3.75	0.08	0.13	99.12
#230	4.00	0.06	0.06	99.18

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.91	2.57	2.42	2.14	1.66	1.28	0.08	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.90	0.27	2.14	0.23	0.94	-2.56	12.53

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-23 @ 10 ft

Analysis Date: 3/29/2019

Easting (ft): 668,366	Northing (ft): 1,901,850	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -62.5 NAVD88
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USCS: SW	Munsell: 5Y 6/1	Fines (%): #200 - 1.79 #230 - 1.69	Organics (%):	Carbonates (%):	Shells (%): 23.9
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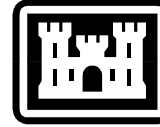
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.48	0.48
#4	-2.25	4.75	0.00	0.48
#5	-2.00	4.00	0.23	0.71
#7	-1.50	2.80	0.10	0.81
#10	-1.00	2.00	0.55	1.36
#14	-0.50	1.40	0.99	2.35
#18	0.00	1.00	1.57	3.92
#25	0.50	0.71	2.39	6.31
#35	1.00	0.50	5.16	11.47
#45	1.50	0.36	8.83	20.30
#60	2.00	0.25	18.26	38.56
#80	2.50	0.18	39.16	77.72
#120	3.00	0.13	18.81	96.53
#170	3.50	0.09	1.44	97.98
#200	3.75	0.08	0.24	98.21
#230	4.00	0.06	0.10	98.31

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.96	2.67	2.47	2.15	1.63	1.26	0.23	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.93	0.26	2.15	0.23	0.87	-2	9.14

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-24 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 668,987	Northing (ft): 1,902,578	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -53.6 NAVD88
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USCS: SW	Munsell: 10YR 6/1	Fines (%): #200 - 2.04 #230 - 1.99	Organics (%):	Carbonates (%):	Shells (%): 26.5
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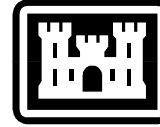
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.37	0.37
#4	-2.25	4.75	0.13	0.50
#5	-2.00	4.00	0.02	0.52
#7	-1.50	2.80	0.21	0.73
#10	-1.00	2.00	0.59	1.32
#14	-0.50	1.40	1.22	2.55
#18	0.00	1.00	1.86	4.41
#25	0.50	0.71	3.16	7.57
#35	1.00	0.50	6.20	13.77
#45	1.50	0.36	9.88	23.65
#60	2.00	0.25	19.58	43.22
#80	2.50	0.18	41.21	84.44
#120	3.00	0.13	12.56	97.00
#170	3.50	0.09	0.84	97.84
#200	3.75	0.08	0.12	97.96
#230	4.00	0.06	0.05	98.01

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.92	2.49	2.39	2.08	1.53	1.11	0.09	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.82	0.28	2.08	0.24	0.87	-1.84	7.97

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-24 @ 5 ft

Analysis Date: 3/29/2019

Easting (ft): 668,987	Northing (ft): 1,902,578	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -57.6 NAVD88
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USCS: SP	Munsell: 10YR 6/1	Fines (%): #200 - 2.17 #230 - 2.14	Organics (%):	Carbonates (%): 16.02	Shells (%): 21.4
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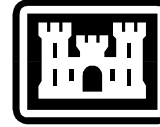
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.12	0.12
#4	-2.25	4.75	0.08	0.20
#5	-2.00	4.00	0.05	0.25
#7	-1.50	2.80	0.13	0.38
#10	-1.00	2.00	0.56	0.94
#14	-0.50	1.40	1.10	2.04
#18	0.00	1.00	1.55	3.60
#25	0.50	0.71	2.66	6.25
#35	1.00	0.50	5.63	11.89
#45	1.50	0.36	9.69	21.57
#60	2.00	0.25	19.44	41.01
#80	2.50	0.18	41.83	82.84
#120	3.00	0.13	13.88	96.72
#170	3.50	0.09	1.00	97.72
#200	3.75	0.08	0.11	97.83
#230	4.00	0.06	0.03	97.86

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.94	2.54	2.41	2.11	1.59	1.21	0.26	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.88	0.27	2.11	0.23	0.81	-1.72	7.35

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-25 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 669,671	Northing (ft): 1,903,365	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -58.1 NAVD88
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USCS: SW	Munsell: 5Y 6/1	Fines (%): #200 - 1.42 #230 - 1.37	Organics (%):	Carbonates (%):	Shells (%): 35.2
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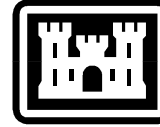
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	1.89	1.89
#4	-2.25	4.75	0.00	1.89
#5	-2.00	4.00	0.18	2.07
#7	-1.50	2.80	1.22	3.29
#10	-1.00	2.00	1.54	4.84
#14	-0.50	1.40	2.52	7.36
#18	0.00	1.00	3.32	10.67
#25	0.50	0.71	5.21	15.88
#35	1.00	0.50	8.36	24.24
#45	1.50	0.36	9.40	33.64
#60	2.00	0.25	14.39	48.03
#80	2.50	0.18	34.70	82.73
#120	3.00	0.13	14.64	97.37
#170	3.50	0.09	1.05	98.42
#200	3.75	0.08	0.16	98.58
#230	4.00	0.06	0.05	98.63

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.92	2.54	2.39	2.03	1.04	0.51	-0.97	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.57	0.34	2.03	0.24	1.22	-1.56	5.47

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granulometric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-25 @ 5 ft

Analysis Date: 3/29/2019

Easting (ft): 669,671	Northing (ft): 1,903,365	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -62.1 NAVD88
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USCS: SW	Munsell: 5Y 6/1	Fines (%): #200 - 2.08 #230 - 2.07	Organics (%):	Carbonates (%): 23.26	Shells (%): 26.1
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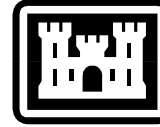
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/8"	-3.25	9.50	0.00	0.00
#3.5	-2.50	5.60	0.55	0.55
#4	-2.25	4.75	0.00	0.55
#5	-2.00	4.00	0.26	0.80
#7	-1.50	2.80	0.56	1.36
#10	-1.00	2.00	1.00	2.36
#14	-0.50	1.40	1.92	4.28
#18	0.00	1.00	2.13	6.41
#25	0.50	0.71	2.65	9.07
#35	1.00	0.50	3.91	12.97
#45	1.50	0.36	6.10	19.07
#60	2.00	0.25	13.74	32.81
#80	2.50	0.18	42.86	75.67
#120	3.00	0.13	20.56	96.23
#170	3.50	0.09	1.50	97.72
#200	3.75	0.08	0.19	97.92
#230	4.00	0.06	0.01	97.93

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.97	2.70	2.49	2.20	1.72	1.25	-0.33	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.91	0.27	2.20	0.22	0.99	-2.06	7.93

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granularmetric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-28 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 669,111	Northing (ft): 1,901,275	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -62.6 NAVD88
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USCS: SW	Munsell: 5Y 7/1	Fines (%): #200 - 1.22 #230 - 1.19	Organics (%):	Carbonates (%):	Shells (%): 22.6
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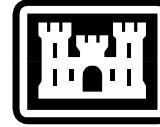
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/4"	-4.25	19.00	0.00	0.00
3/8"	-3.25	9.50	0.11	0.11
#3.5	-2.50	5.60	0.74	0.86
#4	-2.25	4.75	0.19	1.04
#5	-2.00	4.00	0.43	1.47
#7	-1.50	2.80	0.58	2.05
#10	-1.00	2.00	1.18	3.24
#14	-0.50	1.40	1.62	4.86
#18	0.00	1.00	1.92	6.78
#25	0.50	0.71	2.69	9.47
#35	1.00	0.50	5.26	14.73
#45	1.50	0.36	8.33	23.06
#60	2.00	0.25	16.69	39.75
#80	2.50	0.18	37.11	76.86
#120	3.00	0.13	20.34	97.20
#170	3.50	0.09	1.39	98.59
#200	3.75	0.08	0.19	98.78
#230	4.00	0.06	0.03	98.81

SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.95	2.68	2.47	2.14	1.56	1.08	-0.46	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.83	0.28	2.14	0.23	1.06	-2.04	8.02

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

Granularmetric Report



US Army Corps of Engineers
Jacksonville District

Project Name: Flagler HSDR
Flagler HSDR

Sample Name: VB-FC18-29 @ 1 ft

Analysis Date: 3/29/2019

Easting (ft): 669,747	Northing (ft): 1,901,972	Coordinate System: State Plane, FLE (U.S. Ft.)	Elevation (ft): -59.7 NAVD88
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USCS: SW	Munsell: 5Y 5/1	Fines (%): #200 - 1.48 #230 - 1.44	Organics (%):	Carbonates (%): 19.52	Shells (%): 17.3
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Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	% Weight Retained	C. % Weight Retained
3/4"	-4.25	19.00	0.00	0.00
3/8"	-3.25	9.50	0.36	0.36
#3.5	-2.50	5.60	0.44	0.80
#4	-2.25	4.75	0.17	0.97
#5	-2.00	4.00	0.31	1.28
#7	-1.50	2.80	0.68	1.96
#10	-1.00	2.00	3.01	4.97
#14	-0.50	1.40	0.05	5.03
#18	0.00	1.00	1.87	6.89
#25	0.50	0.71	2.72	9.62
#35	1.00	0.50	5.13	14.75
#45	1.50	0.36	8.79	23.54
#60	2.00	0.25	17.65	41.18
#80	2.50	0.18	37.39	78.57
#120	3.00	0.13	18.62	97.19
#170	3.50	0.09	1.18	98.37
#200	3.75	0.08	0.15	98.52
#230	4.00	0.06	0.04	98.56

SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.94	2.65	2.45	2.12	1.54	1.07	-0.75	
Moment Statistics	Mean Phi	Mean mm	Median Phi	Median mm	Sorting	Skewness	Kurtosis
	1.80	0.29	2.12	0.23	1.08	-2.1	8.29

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19