

Granularmetric Report

Depths and elevations based on measured values



1333 Gateway Dr., Suite 1004
Melbourne, FL 32901
Phone (321) 751-1135
Fax (321) 751-2343

Project Name: Charlotte Co

Sample Name: CH-12-VC-13 #1

Analysis Date: 03-01-13

Analyzed By: MB

Easting (ft): 526,272	Northing (ft): 904,150.8	Coordinate System: Florida State Plane West	Elevation (ft): -32.8 NAVD 88
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USCS: SW	Munsell: Wet - 5Y-7/1 Dry - 5Y-7/1	Comments:
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Dry Weight (g): 162.15	Wash Weight (g): 162.15	Pan Retained (g): 0.07	Sieve Loss (%): 0.00	Fines (%): #200 - 0.04 #230 - 0.04	Organics (%): 0.71	Carbonates (%): 24.22	Shells (%):
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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
11/16"	-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	0.52	0.32	0.52	0.32
4	-2.25	4.76	0.37	0.23	0.89	0.55
5	-2.00	4.00	0.92	0.57	1.81	1.12
7	-1.50	2.83	2.13	1.31	3.94	2.43
10	-1.00	2.00	3.39	2.09	7.33	4.52
14	-0.50	1.41	6.18	3.81	13.51	8.33
18	0.00	1.00	6.14	3.79	19.65	12.12
25	0.50	0.71	5.83	3.60	25.48	15.72
35	1.00	0.50	9.44	5.82	34.92	21.54
45	1.50	0.35	39.90	24.61	74.82	46.15
60	2.00	0.25	49.85	30.74	124.67	76.89
80	2.50	0.18	30.16	18.60	154.83	95.49
120	3.00	0.13	6.72	4.14	161.55	99.63
170	3.50	0.09	0.50	0.31	162.05	99.94
200	3.75	0.07	0.03	0.02	162.08	99.96
230	4.00	0.06	0.00	0.00	162.08	99.96

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.49	2.19	1.97	1.56	1.07	0.52	-0.94
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.33	0.40	1.02	-1.44	5.1	

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Project Name: Charlotte Co

Sample Name: CH-12-VC-13 #2

Analysis Date: 03-01-13

Analyzed By: MB

Easting (ft): 526,272 Northing (ft): 904,150.8

Coordinate System: Florida State Plane West Elevation (ft): -33.6 NAVD 88

USCS: SW Munsell: Wet - 5Y-6/1
Dry - 5Y-6/1 Comments:

Dry Weight (g): 181.78 Wash Weight (g): 181.78 Pan Retained (g): 0.28 Sieve Loss (%): 0.01 Fines (%): #200 - 0.22
#230 - 0.16 Organics (%): 1.13 Carbonates (%): 48.81 Shells (%):

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
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	2.89	1.59	2.89	1.59
3.5	-2.50	5.66	1.24	0.68	4.13	2.27
4	-2.25	4.76	1.02	0.56	5.15	2.83
5	-2.00	4.00	1.45	0.80	6.60	3.63
7	-1.50	2.83	6.46	3.55	13.06	7.18
10	-1.00	2.00	11.48	6.32	24.54	13.50
14	-0.50	1.41	17.22	9.47	41.76	22.97
18	0.00	1.00	18.22	10.02	59.98	32.99
25	0.50	0.71	13.57	7.47	73.55	40.46
35	1.00	0.50	10.52	5.79	84.07	46.25
45	1.50	0.35	19.13	10.52	103.20	56.77
60	2.00	0.25	35.06	19.29	138.26	76.06
80	2.50	0.18	31.07	17.09	169.33	93.15
120	3.00	0.13	10.80	5.94	180.13	99.09
170	3.50	0.09	1.03	0.57	181.16	99.66
200	3.75	0.07	0.22	0.12	181.38	99.78
230	4.00	0.06	0.11	0.06	181.49	99.84

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.66	2.23	1.97	1.18	-0.40	-0.87	-1.81

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	0.77	0.59	1.47	-0.59	2.5

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Project Name: Charlotte Co

Sample Name: CH-12-VC-13 #3

Analysis Date: 03-01-13

Analyzed By: MB

Easting (ft): 526,272 Northing (ft): 904,150.8

Coordinate System: Florida State Plane West Elevation (ft): -36.8 NAVD 88

USCS: SP Munsell: Wet - 5Y-7/1
Dry - 5Y-7.5/1 Comments:

Dry Weight (g): 160.07 Wash Weight (g): 160.07 Pan Retained (g): 0.24 Sieve Loss (%): 0.00
Fines (%): #200 - 0.25 Organics (%): 0.54 Carbonates (%): 15.72 Shells (%):
#230 - 0.14

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
11/16"	-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	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.25	0.16	0.25	0.16
5	-2.00	4.00	0.00	0.00	0.25	0.16
7	-1.50	2.83	0.61	0.38	0.86	0.54
10	-1.00	2.00	1.31	0.82	2.17	1.36
14	-0.50	1.41	2.33	1.46	4.50	2.82
18	0.00	1.00	2.96	1.85	7.46	4.67
25	0.50	0.71	3.31	2.07	10.77	6.74
35	1.00	0.50	3.45	2.16	14.22	8.90
45	1.50	0.35	12.48	7.80	26.70	16.70
60	2.00	0.25	36.53	22.82	63.23	39.52
80	2.50	0.18	62.72	39.18	125.95	78.70
120	3.00	0.13	28.10	17.55	154.05	96.25
170	3.50	0.09	5.24	3.27	159.29	99.52
200	3.75	0.07	0.37	0.23	159.66	99.75
230	4.00	0.06	0.17	0.11	159.83	99.86

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	1.97	0.26	0.84	-1.81	7.57

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Project Name: Charlotte Co

Sample Name: CH-12-VC-13 #4

Analysis Date: 03-01-13

Analyzed By: MB

Easting (ft): 526,272 Northing (ft): 904,150.8

Coordinate System: Florida State Plane West Elevation (ft): -38.8 NAVD 88

USCS: SW Munsell: Wet - 5Y-7/1
Dry - 5Y-7.5/1 Comments:

Dry Weight (g): 167.42 Wash Weight (g): 167.42 Pan Retained (g): 0.62 Sieve Loss (%): 0.01 Fines (%): #200 - 0.64
#230 - 0.39 Organics (%): 0.69 Carbonates (%): 21.47 Shells (%):

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
11/16"	-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	0.27	0.16	0.27	0.16
4	-2.25	4.76	0.08	0.05	0.35	0.21
5	-2.00	4.00	0.52	0.31	0.87	0.52
7	-1.50	2.83	1.49	0.89	2.36	1.41
10	-1.00	2.00	2.89	1.73	5.25	3.14
14	-0.50	1.41	3.65	2.18	8.90	5.32
18	0.00	1.00	4.36	2.60	13.26	7.92
25	0.50	0.71	4.30	2.57	17.56	10.49
35	1.00	0.50	4.98	2.97	22.54	13.46
45	1.50	0.35	11.36	6.79	33.90	20.25
60	2.00	0.25	23.57	14.08	57.47	34.33
80	2.50	0.18	43.72	26.11	101.19	60.44
120	3.00	0.13	51.65	30.85	152.84	91.29
170	3.50	0.09	12.56	7.50	165.40	98.79
200	3.75	0.07	0.96	0.57	166.36	99.36
230	4.00	0.06	0.42	0.25	166.78	99.61

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.25	2.88	2.74	2.30	1.67	1.19	-0.57

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.01	0.25	1.1	-1.63	5.64

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Project Name: Charlotte Co

Sample Name: CH-12-VC-13 #5

Analysis Date: 03-01-13

Analyzed By: MB

Easting (ft): 526,272	Northing (ft): 904,150.8	Coordinate System: Florida State Plane West	Elevation (ft): -40.8 NAVD 88
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USCS: SW-SM	Munsell: Wet - 5Y-6/1 Dry - 2.5Y-7/1	Comments:
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Dry Weight (g): 173.44	Wash Weight (g): 163.16	Pan Retained (g): 0.68	Sieve Loss (%): 0.00	Fines (%): #200 - 7.43 #230 - 6.32	Organics (%): 0.82	Carbonates (%): 18.01	Shells (%):
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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
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	1.98	1.14	1.98	1.14
3.5	-2.50	5.66	0.00	0.00	1.98	1.14
4	-2.25	4.76	0.00	0.00	1.98	1.14
5	-2.00	4.00	0.43	0.25	2.41	1.39
7	-1.50	2.83	0.42	0.24	2.83	1.63
10	-1.00	2.00	0.75	0.43	3.58	2.06
14	-0.50	1.41	0.89	0.51	4.47	2.57
18	0.00	1.00	1.14	0.66	5.61	3.23
25	0.50	0.71	1.38	0.80	6.99	4.03
35	1.00	0.50	1.72	0.99	8.71	5.02
45	1.50	0.35	3.66	2.11	12.37	7.13
60	2.00	0.25	12.67	7.31	25.04	14.44
80	2.50	0.18	38.13	21.98	63.17	36.42
120	3.00	0.13	68.89	39.72	132.06	76.14
170	3.50	0.09	24.61	14.19	156.67	90.33
200	3.75	0.07	3.88	2.24	160.55	92.57
230	4.00	0.06	1.93	1.11	162.48	93.68

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.28	2.99	2.67	2.24	2.04	0.99
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.43	0.19	1.01	-3.19	16.55	

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