

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-11 #1

Analysis Date: 03-01-13

Analyzed By: MB

| | | | |
|----------------------------|---------------------------|--|----------------------------------|
| Easting (ft): 529,467.5 | Northing (ft): 907,473 | Coordinate System: Florida State Plane West | Elevation (ft): -38.1 NAVD 88 |
|----------------------------|---------------------------|--|----------------------------------|

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

| | | | | | | | |
|---------------------------|----------------------------|---------------------------|-------------------------|--|-----------------------|--------------------------|-------------|
| Dry Weight (g): 183.13 | Wash Weight (g): 183.13 | Pan Retained (g): 0.43 | Sieve Loss (%): 0.05 | Fines (%): #200 - 0.28 #230 - 0.27 | Organics (%): 1.65 | Carbonates (%): 56.93 | 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 | 0.51 | 0.28 | 0.51 | 0.28 |
| 3.5 | -2.50 | 5.66 | 2.72 | 1.49 | 3.23 | 1.77 |
| 4 | -2.25 | 4.76 | 1.66 | 0.91 | 4.89 | 2.68 |
| 5 | -2.00 | 4.00 | 1.68 | 0.92 | 6.57 | 3.60 |
| 7 | -1.50 | 2.83 | 6.41 | 3.50 | 12.98 | 7.10 |
| 10 | -1.00 | 2.00 | 8.81 | 4.81 | 21.79 | 11.91 |
| 14 | -0.50 | 1.41 | 21.69 | 11.84 | 43.48 | 23.75 |
| 18 | 0.00 | 1.00 | 27.45 | 14.99 | 70.93 | 38.74 |
| 25 | 0.50 | 0.71 | 25.99 | 14.19 | 96.92 | 52.93 |
| 35 | 1.00 | 0.50 | 26.46 | 14.45 | 123.38 | 67.38 |
| 45 | 1.50 | 0.35 | 31.91 | 17.42 | 155.29 | 84.80 |
| 60 | 2.00 | 0.25 | 15.88 | 8.67 | 171.17 | 93.47 |
| 80 | 2.50 | 0.18 | 7.95 | 4.34 | 179.12 | 97.81 |
| 120 | 3.00 | 0.13 | 2.52 | 1.38 | 181.64 | 99.19 |
| 170 | 3.50 | 0.09 | 0.80 | 0.44 | 182.44 | 99.63 |
| 200 | 3.75 | 0.07 | 0.16 | 0.09 | 182.60 | 99.72 |
| 230 | 4.00 | 0.06 | 0.01 | 0.01 | 182.61 | 99.73 |

| | | | | | | |
|------------|----------|---------|---------|----------|----------|--------|
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 |
| 2.18 | 1.48 | 1.22 | 0.40 | -0.46 | -0.83 | -1.80 |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | |
| Statistics | 0.33 | 0.80 | 1.18 | -0.31 | 2.93 | |

GRANULARMETRIC REPORT 2013-2-19 CHARLOTTE.GPJ FL DEP ROSS.GDT 3/8/13

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-11 #2

Analysis Date: 03-01-13

Analyzed By: MB

| | | | |
|----------------------------|---------------------------|--|----------------------------------|
| Easting (ft): 529,467.5 | Northing (ft): 907,473 | Coordinate System: Florida State Plane West | Elevation (ft): -41.1 NAVD 88 |
|----------------------------|---------------------------|--|----------------------------------|

| | | |
|-------------|--|-----------|
| USCS: SM | Munsell: Wet - 5Y-6/1 Dry - 5Y-7/1 | Comments: |
|-------------|--|-----------|

| | | | | | | | |
|---------------------------|----------------------------|---------------------------|-------------------------|--|-----------------------|--------------------------|-------------|
| Dry Weight (g): 145.83 | Wash Weight (g): 127.16 | Pan Retained (g): 1.40 | Sieve Loss (%): 0.00 | Fines (%): #200 - 15.37 #230 - 13.73 | Organics (%): 1.91 | Carbonates (%): 41.48 | 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 | 1.02 | 0.70 | 1.02 | 0.70 |
| 3.5 | -2.50 | 5.66 | 0.65 | 0.45 | 1.67 | 1.15 |
| 4 | -2.25 | 4.76 | 0.69 | 0.47 | 2.36 | 1.62 |
| 5 | -2.00 | 4.00 | 0.87 | 0.60 | 3.23 | 2.22 |
| 7 | -1.50 | 2.83 | 3.05 | 2.09 | 6.28 | 4.31 |
| 10 | -1.00 | 2.00 | 3.77 | 2.59 | 10.05 | 6.90 |
| 14 | -0.50 | 1.41 | 7.17 | 4.92 | 17.22 | 11.82 |
| 18 | 0.00 | 1.00 | 10.00 | 6.86 | 27.22 | 18.68 |
| 25 | 0.50 | 0.71 | 11.37 | 7.80 | 38.59 | 26.48 |
| 35 | 1.00 | 0.50 | 12.01 | 8.24 | 50.60 | 34.72 |
| 45 | 1.50 | 0.35 | 12.20 | 8.37 | 62.80 | 43.09 |
| 60 | 2.00 | 0.25 | 9.61 | 6.59 | 72.41 | 49.68 |
| 80 | 2.50 | 0.18 | 11.33 | 7.77 | 83.74 | 57.45 |
| 120 | 3.00 | 0.13 | 15.12 | 10.37 | 98.86 | 67.82 |
| 170 | 3.50 | 0.09 | 19.39 | 13.30 | 118.25 | 81.12 |
| 200 | 3.75 | 0.07 | 5.12 | 3.51 | 123.37 | 84.63 |
| 230 | 4.00 | 0.06 | 2.39 | 1.64 | 125.76 | 86.27 |

| | | | | | | |
|------------|----------|---------|---------|----------|----------|--------|
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 |
| | 3.71 | 3.27 | 2.02 | 0.41 | -0.20 | -1.37 |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | |
| Statistics | 1.39 | 0.38 | 1.63 | -0.48 | 2.44 | |

GRANULARMETRIC REPORT 2013-2-19 CHARLOTTE.GPJ FL DEP ROSS.GDT 3/8/13