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| Granularmetric Report Depths and elevations based on measured values | | | |  COASTAL TECH Coastal Geology & Sediments Laboratory | | | |
| Project Name: 2011 SLC Geotech Investigation | | | | | | | |
| Sample Name: SLC-11-C97 #1 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 938,231 | | 1,105,565 | | Florida State Plane East | | -43.2 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SW | | Wet - 2.5Y-5/3 Dry - 2.5Y-6/3 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 184.31 | 184.31 | 0.17 | 0.00 | #200 - 0.13 #230 - 0.10 | 1.90 | 82.10 | |
| 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 | |
| 11/16" | -3.50 | 11.31 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5/16" | -3.00 | 8.00 | 4.76 | 2.58 | 4.76 | 2.58 | |
| 3.5 | -2.50 | 5.66 | 5.31 | 2.88 | 10.07 | 5.46 | |
| 4 | -2.25 | 4.76 | 2.46 | 1.33 | 12.53 | 6.79 | |
| 5 | -2.00 | 4.00 | 2.96 | 1.61 | 15.49 | 8.40 | |
| 7 | -1.50 | 2.83 | 6.34 | 3.44 | 21.83 | 11.84 | |
| 10 | -1.00 | 2.00 | 9.26 | 5.02 | 31.09 | 16.86 | |
| 14 | -0.50 | 1.41 | 12.64 | 6.86 | 43.73 | 23.72 | |
| 18 | 0.00 | 1.00 | 15.53 | 8.43 | 59.26 | 32.15 | |
| 25 | 0.50 | 0.71 | 20.59 | 11.17 | 79.85 | 43.32 | |
| 35 | 1.00 | 0.50 | 26.43 | 14.34 | 106.28 | 57.66 | |
| 45 | 1.50 | 0.35 | 30.52 | 16.56 | 136.80 | 74.22 | |
| 60 | 2.00 | 0.25 | 31.48 | 17.08 | 168.28 | 91.30 | |
| 80 | 2.50 | 0.18 | 12.54 | 6.80 | 180.82 | 98.10 | |
| 120 | 3.00 | 0.13 | 2.79 | 1.51 | 183.61 | 99.61 | |
| 170 | 3.50 | 0.09 | 0.39 | 0.21 | 184.00 | 99.82 | |
| 200 | 3.75 | 0.07 | 0.09 | 0.05 | 184.09 | 99.87 | |
| 230 | 4.00 | 0.06 | 0.05 | 0.03 | 184.14 | 99.90 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.27 | 1.79 | 1.52 | 0.73 | -0.42 | -1.09 | -2.58 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.42 | 0.75 | 1.43 | -0.78 | 2.96 | | |

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| Granularmetric Report Depths and elevations based on measured values | | | |  COASTAL TECH Coastal Geology & Sediments Laboratory 715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343 | | | |
| Project Name: 2011 SLC Geotech Investigation | | | | | | | |
| Sample Name: SLC-11-C97 #2 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 938,231 | | 1,105,565 | | Florida State Plane East | | -46.7 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | Wet - 2.5Y-5/2 Dry - 2.5Y-6/2 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 149.82 | 149.82 | 0.27 | 0.00 | #200 - 0.27 #230 - 0.19 | 1.80 | 73.10 | |
| 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 | |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5 | -2.00 | 4.00 | 0.05 | 0.03 | 0.05 | 0.03 | |
| 7 | -1.50 | 2.83 | 0.06 | 0.04 | 0.11 | 0.07 | |
| 10 | -1.00 | 2.00 | 0.21 | 0.14 | 0.32 | 0.21 | |
| 14 | -0.50 | 1.41 | 0.85 | 0.57 | 1.17 | 0.78 | |
| 18 | 0.00 | 1.00 | 1.81 | 1.21 | 2.98 | 1.99 | |
| 25 | 0.50 | 0.71 | 3.69 | 2.46 | 6.67 | 4.45 | |
| 35 | 1.00 | 0.50 | 10.64 | 7.10 | 17.31 | 11.55 | |
| 45 | 1.50 | 0.35 | 25.98 | 17.34 | 43.29 | 28.89 | |
| 60 | 2.00 | 0.25 | 53.34 | 35.60 | 96.63 | 64.49 | |
| 80 | 2.50 | 0.18 | 43.33 | 28.92 | 139.96 | 93.41 | |
| 120 | 3.00 | 0.13 | 8.20 | 5.47 | 148.16 | 98.88 | |
| 170 | 3.50 | 0.09 | 1.02 | 0.68 | 149.18 | 99.56 | |
| 200 | 3.75 | 0.07 | 0.25 | 0.17 | 149.43 | 99.73 | |
| 230 | 4.00 | 0.06 | 0.12 | 0.08 | 149.55 | 99.81 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.65 | 2.34 | 2.18 | 1.80 | 1.39 | 1.13 | 0.54 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.72 | 0.30 | 0.65 | -0.97 | 5.39 | | |

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| Granularmetric Report Depths and elevations based on measured values | | | |  COASTAL TECH Coastal Geology & Sediments Laboratory 715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343 | | | |
| Project Name: 2011 SLC Geotech Investigation | | | | | | | |
| Sample Name: SLC-11-C97 #3 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 938,231 | | 1,105,565 | | Florida State Plane East | | -48.6 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SW WITH GRAVEL | | Wet - 2.5Y-5/2 Dry - 2.5Y-6/2 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 139.37 | 139.37 | 0.32 | 0.00 | #200 - 0.29 #230 - 0.22 | 1.90 | 81.50 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 3/4" | -4.25 | 19.03 | 2.78 | 1.99 | 2.78 | 1.99 | |
| 5/8" | -4.00 | 16.00 | 0.00 | 0.00 | 2.78 | 1.99 | |
| 11/16" | -3.50 | 11.31 | 4.72 | 3.39 | 7.50 | 5.38 | |
| 5/16" | -3.00 | 8.00 | 0.00 | 0.00 | 7.50 | 5.38 | |
| 3.5 | -2.50 | 5.66 | 0.53 | 0.38 | 8.03 | 5.76 | |
| 4 | -2.25 | 4.76 | 0.30 | 0.22 | 8.33 | 5.98 | |
| 5 | -2.00 | 4.00 | 0.37 | 0.27 | 8.70 | 6.25 | |
| 7 | -1.50 | 2.83 | 0.90 | 0.65 | 9.60 | 6.90 | |
| 10 | -1.00 | 2.00 | 2.01 | 1.44 | 11.61 | 8.34 | |
| 14 | -0.50 | 1.41 | 3.89 | 2.79 | 15.50 | 11.13 | |
| 18 | 0.00 | 1.00 | 5.62 | 4.03 | 21.12 | 15.16 | |
| 25 | 0.50 | 0.71 | 8.75 | 6.28 | 29.87 | 21.44 | |
| 35 | 1.00 | 0.50 | 15.08 | 10.82 | 44.95 | 32.26 | |
| 45 | 1.50 | 0.35 | 26.17 | 18.78 | 71.12 | 51.04 | |
| 60 | 2.00 | 0.25 | 39.05 | 28.02 | 110.17 | 79.06 | |
| 80 | 2.50 | 0.18 | 22.53 | 16.17 | 132.70 | 95.23 | |
| 120 | 3.00 | 0.13 | 5.30 | 3.80 | 138.00 | 99.03 | |
| 170 | 3.50 | 0.09 | 0.79 | 0.57 | 138.79 | 99.60 | |
| 200 | 3.75 | 0.07 | 0.16 | 0.11 | 138.95 | 99.71 | |
| 230 | 4.00 | 0.06 | 0.10 | 0.07 | 139.05 | 99.78 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.49 | 2.15 | 1.93 | 1.47 | 0.66 | 0.07 | -3.14 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.02 | 0.49 | 1.33 | -1.68 | 6.82 | | |

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| Granularmetric Report Depths and elevations based on measured values | | | |  COASTAL TECH Coastal Geology & Sediments Laboratory 715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343 | | | |
| Project Name: 2011 SLC Geotech Investigation | | | | | | | |
| Sample Name: SLC-11-C97 #4 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 938,231 | | 1,105,565 | | Florida State Plane East | | -54.7 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | Wet - 2.5Y-5/2 Dry - 2.5Y-6/2 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 145.80 | 145.80 | 0.97 | 0.00 | #200 - 0.93 #230 - 0.66 | 1.80 | 76.50 | |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5 | -2.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7 | -1.50 | 2.83 | 0.05 | 0.03 | 0.05 | 0.03 | |
| 10 | -1.00 | 2.00 | 0.41 | 0.28 | 0.46 | 0.31 | |
| 14 | -0.50 | 1.41 | 1.11 | 0.76 | 1.57 | 1.07 | |
| 18 | 0.00 | 1.00 | 1.91 | 1.31 | 3.48 | 2.38 | |
| 25 | 0.50 | 0.71 | 3.22 | 2.21 | 6.70 | 4.59 | |
| 35 | 1.00 | 0.50 | 7.58 | 5.20 | 14.28 | 9.79 | |
| 45 | 1.50 | 0.35 | 18.28 | 12.54 | 32.56 | 22.33 | |
| 60 | 2.00 | 0.25 | 41.31 | 28.33 | 73.87 | 50.66 | |
| 80 | 2.50 | 0.18 | 45.58 | 31.26 | 119.45 | 81.92 | |
| 120 | 3.00 | 0.13 | 20.61 | 14.14 | 140.06 | 96.06 | |
| 170 | 3.50 | 0.09 | 3.54 | 2.43 | 143.60 | 98.49 | |
| 200 | 3.75 | 0.07 | 0.84 | 0.58 | 144.44 | 99.07 | |
| 230 | 4.00 | 0.06 | 0.39 | 0.27 | 144.83 | 99.34 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.96 | 2.57 | 2.39 | 1.99 | 1.55 | 1.25 | 0.54 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.9 | 0.27 | 0.74 | -0.93 | 5.04 | | |

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| Project Name: 2011 SLC Geotech Investigation | | | | | | | |
| Sample Name: SLC-11-C97 #5 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): <div style="text-align: center;">938,231</div> | | Northing (ft): <div style="text-align: center;">1,105,565</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane East</div> | | Elevation (ft): <div style="text-align: center;">-58.2 NAVD 88</div> | |
| USCS: SW WITH GRAVEL | | Munsell: Wet - 2.5Y-5/1 Dry - 2.5Y-6/1 | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">151.96</div> | Wash Weight (g): <div style="text-align: center;">147.85</div> | Pan Retained (g): <div style="text-align: center;">0.20</div> | Sieve Loss (%): <div style="text-align: center;">0.00</div> | Fines (%): #200 - 3.08 #230 - 2.83 | Organics (%): <div style="text-align: center;">2.10</div> | Carbonates (%): <div style="text-align: center;">88.00</div> | 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 | 11.87 | 7.81 | 11.87 | 7.81 | |
| 5/8" | -4.00 | 16.00 | 0.00 | 0.00 | 11.87 | 7.81 | |
| 11/16" | -3.50 | 11.31 | 4.03 | 2.65 | 15.90 | 10.46 | |
| 5/16" | -3.00 | 8.00 | 8.59 | 5.65 | 24.49 | 16.11 | |
| 3.5 | -2.50 | 5.66 | 10.96 | 7.21 | 35.45 | 23.32 | |
| 4 | -2.25 | 4.76 | 10.58 | 6.96 | 46.03 | 30.28 | |
| 5 | -2.00 | 4.00 | 5.38 | 3.54 | 51.41 | 33.82 | |
| 7 | -1.50 | 2.83 | 5.50 | 3.62 | 56.91 | 37.44 | |
| 10 | -1.00 | 2.00 | 6.39 | 4.21 | 63.30 | 41.65 | |
| 14 | -0.50 | 1.41 | 9.48 | 6.24 | 72.78 | 47.89 | |
| 18 | 0.00 | 1.00 | 8.70 | 5.73 | 81.48 | 53.62 | |
| 25 | 0.50 | 0.71 | 9.73 | 6.40 | 91.21 | 60.02 | |
| 35 | 1.00 | 0.50 | 12.37 | 8.14 | 103.58 | 68.16 | |
| 45 | 1.50 | 0.35 | 10.42 | 6.86 | 114.00 | 75.02 | |
| 60 | 2.00 | 0.25 | 11.09 | 7.30 | 125.09 | 82.32 | |
| 80 | 2.50 | 0.18 | 12.38 | 8.15 | 137.47 | 90.47 | |
| 120 | 3.00 | 0.13 | 6.97 | 4.59 | 144.44 | 95.06 | |
| 170 | 3.50 | 0.09 | 2.19 | 1.44 | 146.63 | 96.50 | |
| 200 | 3.75 | 0.07 | 0.64 | 0.42 | 147.27 | 96.92 | |
| 230 | 4.00 | 0.06 | 0.38 | 0.25 | 147.65 | 97.17 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.99 | 2.10 | 1.50 | -0.32 | -2.44 | -3.01 | | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | -0.59 | 1.51 | 1.95 | 0.45 | 1.96 | | |