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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-A11 #1 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 932,944 | | 1,080,442 | | Florida State Plane East | | -20.5 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 (%): |
| 143.70 | 143.70 | 0.09 | 0.00 | #200 - 0.09 #230 - 0.06 | 2.10 | 83.60 | |
| 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 | 1.32 | 0.92 | 1.32 | 0.92 | |
| 11/16" | -3.50 | 11.31 | 0.00 | 0.00 | 1.32 | 0.92 | |
| 5/16" | -3.00 | 8.00 | 0.00 | 0.00 | 1.32 | 0.92 | |
| 3.5 | -2.50 | 5.66 | 0.24 | 0.17 | 1.56 | 1.09 | |
| 4 | -2.25 | 4.76 | 0.00 | 0.00 | 1.56 | 1.09 | |
| 5 | -2.00 | 4.00 | 0.31 | 0.22 | 1.87 | 1.31 | |
| 7 | -1.50 | 2.83 | 0.90 | 0.63 | 2.77 | 1.94 | |
| 10 | -1.00 | 2.00 | 2.95 | 2.05 | 5.72 | 3.99 | |
| 14 | -0.50 | 1.41 | 7.35 | 5.11 | 13.07 | 9.10 | |
| 18 | 0.00 | 1.00 | 15.11 | 10.51 | 28.18 | 19.61 | |
| 25 | 0.50 | 0.71 | 25.87 | 18.00 | 54.05 | 37.61 | |
| 35 | 1.00 | 0.50 | 36.82 | 25.62 | 90.87 | 63.23 | |
| 45 | 1.50 | 0.35 | 32.23 | 22.43 | 123.10 | 85.66 | |
| 60 | 2.00 | 0.25 | 16.52 | 11.50 | 139.62 | 97.16 | |
| 80 | 2.50 | 0.18 | 3.15 | 2.19 | 142.77 | 99.35 | |
| 120 | 3.00 | 0.13 | 0.50 | 0.35 | 143.27 | 99.70 | |
| 170 | 3.50 | 0.09 | 0.20 | 0.14 | 143.47 | 99.84 | |
| 200 | 3.75 | 0.07 | 0.10 | 0.07 | 143.57 | 99.91 | |
| 230 | 4.00 | 0.06 | 0.04 | 0.03 | 143.61 | 99.94 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 1.91 | 1.46 | 1.26 | 0.74 | 0.15 | -0.17 | -0.90 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.64 | 0.64 | 0.94 | -1.4 | 8.19 | | |

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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-A11 #2 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): <div style="text-align: center;">932,944</div> | | Northing (ft): <div style="text-align: center;">1,080,442</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane East</div> | | Elevation (ft): <div style="text-align: center;">-24.5 NAVD 88</div> | |
| USCS: <div style="text-align: center;">SW</div> | | Munsell: Wet - 2.5Y-5/3 Dry - 2.5Y-6/3 | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">153.47</div> | Wash Weight (g): <div style="text-align: center;">153.47</div> | Pan Retained (g): <div style="text-align: center;">0.12</div> | Sieve Loss (%): <div style="text-align: center;">0.00</div> | Fines (%): #200 - 0.08 #230 - 0.06 | Organics (%): <div style="text-align: center;">2.00</div> | Carbonates (%): <div style="text-align: center;">84.20</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 | 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 | 0.41 | 0.27 | 0.41 | 0.27 | |
| 3.5 | -2.50 | 5.66 | 0.27 | 0.18 | 0.68 | 0.45 | |
| 4 | -2.25 | 4.76 | 0.10 | 0.07 | 0.78 | 0.52 | |
| 5 | -2.00 | 4.00 | 0.50 | 0.33 | 1.28 | 0.85 | |
| 7 | -1.50 | 2.83 | 1.60 | 1.04 | 2.88 | 1.89 | |
| 10 | -1.00 | 2.00 | 3.06 | 1.99 | 5.94 | 3.88 | |
| 14 | -0.50 | 1.41 | 8.37 | 5.45 | 14.31 | 9.33 | |
| 18 | 0.00 | 1.00 | 13.37 | 8.71 | 27.68 | 18.04 | |
| 25 | 0.50 | 0.71 | 22.47 | 14.64 | 50.15 | 32.68 | |
| 35 | 1.00 | 0.50 | 35.91 | 23.40 | 86.06 | 56.08 | |
| 45 | 1.50 | 0.35 | 38.13 | 24.85 | 124.19 | 80.93 | |
| 60 | 2.00 | 0.25 | 23.06 | 15.03 | 147.25 | 95.96 | |
| 80 | 2.50 | 0.18 | 5.43 | 3.54 | 152.68 | 99.50 | |
| 120 | 3.00 | 0.13 | 0.43 | 0.28 | 153.11 | 99.78 | |
| 170 | 3.50 | 0.09 | 0.15 | 0.10 | 153.26 | 99.88 | |
| 200 | 3.75 | 0.07 | 0.06 | 0.04 | 153.32 | 99.92 | |
| 230 | 4.00 | 0.06 | 0.03 | 0.02 | 153.35 | 99.94 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 1.97 | 1.60 | 1.38 | 0.87 | 0.24 | -0.12 | -0.90 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.75 | 0.59 | 0.9 | -0.84 | 4.35 | | |

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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-A11 #3 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: LA | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 932,944 | | 1,080,442 | | Florida State Plane East | | -28.0 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 (%): |
| 134.07 | 133.09 | 0.00 | 0.00 | #200 - 0.77 #230 - 0.76 | 1.80 | 70.30 | |
| 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 | 0.18 | 0.13 | 0.18 | 0.13 | |
| 4 | -2.25 | 4.76 | 0.03 | 0.02 | 0.21 | 0.15 | |
| 5 | -2.00 | 4.00 | 0.06 | 0.04 | 0.27 | 0.19 | |
| 7 | -1.50 | 2.83 | 0.10 | 0.07 | 0.37 | 0.26 | |
| 10 | -1.00 | 2.00 | 0.27 | 0.20 | 0.64 | 0.46 | |
| 14 | -0.50 | 1.41 | 0.70 | 0.52 | 1.34 | 0.98 | |
| 18 | 0.00 | 1.00 | 2.11 | 1.57 | 3.45 | 2.55 | |
| 25 | 0.50 | 0.71 | 6.47 | 4.83 | 9.92 | 7.38 | |
| 35 | 1.00 | 0.50 | 18.75 | 13.99 | 28.67 | 21.37 | |
| 45 | 1.50 | 0.35 | 38.62 | 28.81 | 67.29 | 50.18 | |
| 60 | 2.00 | 0.25 | 47.61 | 35.51 | 114.90 | 85.69 | |
| 80 | 2.50 | 0.18 | 16.13 | 12.03 | 131.03 | 97.72 | |
| 120 | 3.00 | 0.13 | 1.80 | 1.34 | 132.83 | 99.06 | |
| 170 | 3.50 | 0.09 | 0.18 | 0.13 | 133.01 | 99.19 | |
| 200 | 3.75 | 0.07 | 0.06 | 0.04 | 133.07 | 99.23 | |
| 230 | 4.00 | 0.06 | 0.02 | 0.01 | 133.09 | 99.24 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.39 | 1.98 | 1.85 | 1.50 | 1.06 | 0.81 | 0.25 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.41 | 0.38 | 0.64 | -1.1 | 6.86 | | |

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|--|---|--|--|---|--|---|-------------|
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| Project Name: 2011 SLC Geotech Investigation | | | | | | | |
| Sample Name: SLC-11-A11 #4 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): <div style="text-align: center;">932,944</div> | | Northing (ft): <div style="text-align: center;">1,080,442</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane East</div> | | Elevation (ft): <div style="text-align: center;">-32.0 NAVD 88</div> | |
| USCS: <div style="text-align: center;">SP</div> | | Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-6/2 | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">138.21</div> | Wash Weight (g): <div style="text-align: center;">133.54</div> | Pan Retained (g): <div style="text-align: center;">0.14</div> | Sieve Loss (%): <div style="text-align: center;">0.05</div> | Fines (%): #200 - 3.92 #230 - 3.54 | Organics (%): <div style="text-align: center;">1.90</div> | Carbonates (%): <div style="text-align: center;">73.10</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 | 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 | 0.25 | 0.18 | 0.25 | 0.18 | |
| 3.5 | -2.50 | 5.66 | 0.04 | 0.03 | 0.29 | 0.21 | |
| 4 | -2.25 | 4.76 | 0.11 | 0.08 | 0.40 | 0.29 | |
| 5 | -2.00 | 4.00 | 0.00 | 0.00 | 0.40 | 0.29 | |
| 7 | -1.50 | 2.83 | 0.20 | 0.14 | 0.60 | 0.43 | |
| 10 | -1.00 | 2.00 | 0.37 | 0.27 | 0.97 | 0.70 | |
| 14 | -0.50 | 1.41 | 0.69 | 0.50 | 1.66 | 1.20 | |
| 18 | 0.00 | 1.00 | 1.58 | 1.14 | 3.24 | 2.34 | |
| 25 | 0.50 | 0.71 | 4.60 | 3.33 | 7.84 | 5.67 | |
| 35 | 1.00 | 0.50 | 14.54 | 10.52 | 22.38 | 16.19 | |
| 45 | 1.50 | 0.35 | 32.85 | 23.77 | 55.23 | 39.96 | |
| 60 | 2.00 | 0.25 | 47.49 | 34.36 | 102.72 | 74.32 | |
| 80 | 2.50 | 0.18 | 22.10 | 15.99 | 124.82 | 90.31 | |
| 120 | 3.00 | 0.13 | 4.99 | 3.61 | 129.81 | 93.92 | |
| 170 | 3.50 | 0.09 | 2.27 | 1.64 | 132.08 | 95.56 | |
| 200 | 3.75 | 0.07 | 0.72 | 0.52 | 132.80 | 96.08 | |
| 230 | 4.00 | 0.06 | 0.53 | 0.38 | 133.33 | 96.46 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.33 | 2.30 | 2.02 | 1.65 | 1.19 | 0.99 | 0.40 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.57 | 0.34 | 0.75 | -0.93 | 8.19 | | |

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|--|---|--|--|---|--|---|-------------|
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| Project Name: 2011 SLC Geotech Investigation | | | | | | | |
| Sample Name: SLC-11-A11 #5 | | | | | | | |
| Analysis Date: | | | | | | | |
| Analyzed By: JB | | | | | | | |
| Easting (ft): <div style="text-align: center;">932,944</div> | | Northing (ft): <div style="text-align: center;">1,080,442</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane East</div> | | Elevation (ft): <div style="text-align: center;">-35.5 NAVD 88</div> | |
| USCS: <div style="text-align: center;">SP</div> | | Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-6/2 | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">152.65</div> | Wash Weight (g): <div style="text-align: center;">148.42</div> | Pan Retained (g): <div style="text-align: center;">0.16</div> | Sieve Loss (%): <div style="text-align: center;">0.02</div> | Fines (%): #200 - 3.15 #230 - 2.89 | Organics (%): <div style="text-align: center;">1.90</div> | Carbonates (%): <div style="text-align: center;">73.50</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 | 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 | 0.03 | 0.02 | 0.03 | 0.02 | |
| 7 | -1.50 | 2.83 | 0.05 | 0.03 | 0.08 | 0.05 | |
| 10 | -1.00 | 2.00 | 0.15 | 0.10 | 0.23 | 0.15 | |
| 14 | -0.50 | 1.41 | 0.81 | 0.53 | 1.04 | 0.68 | |
| 18 | 0.00 | 1.00 | 1.98 | 1.30 | 3.02 | 1.98 | |
| 25 | 0.50 | 0.71 | 5.19 | 3.40 | 8.21 | 5.38 | |
| 35 | 1.00 | 0.50 | 12.66 | 8.29 | 20.87 | 13.67 | |
| 45 | 1.50 | 0.35 | 22.95 | 15.03 | 43.82 | 28.70 | |
| 60 | 2.00 | 0.25 | 41.12 | 26.94 | 84.94 | 55.64 | |
| 80 | 2.50 | 0.18 | 50.86 | 33.32 | 135.80 | 88.96 | |
| 120 | 3.00 | 0.13 | 9.07 | 5.94 | 144.87 | 94.90 | |
| 170 | 3.50 | 0.09 | 2.15 | 1.41 | 147.02 | 96.31 | |
| 200 | 3.75 | 0.07 | 0.82 | 0.54 | 147.84 | 96.85 | |
| 230 | 4.00 | 0.06 | 0.39 | 0.26 | 148.23 | 97.11 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.04 | 2.43 | 2.29 | 1.90 | 1.38 | 1.08 | 0.44 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.76 | 0.30 | 0.72 | -0.72 | 4.35 | | |