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|--|------------------|--------------------------|-----------------|--|---------------------|----------------------|-------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                  |                          |                 | Scientific Environmental Applications<br>5575 Willoughby Drive<br>Melbourne, FL 32934<br>ph 321 254-2708<br>fax 321 254-2708 |                     |                      |             |
| Project Name: Singer Island 2005   |                  |                          |                 |  |                     |                      |             |
| Sample Name: SI-05-57 #1.0   |                  |                          |                 |  |                     |                      |             |
| Analysis Date: 08-14-05  |                  |                          |                 |  |                     |                      |             |
| Analyzed By: SEA Inc.  |                  |                          |                 |  |                     |                      |             |
| Easting (ft):  |                  | Northing (ft):           |                 | Coordinate System:   |                     | Elevation (ft):      |             |
| 973,049  |                  | 909,346                  |                 | Florida State Plane East   |                     | -50.9 NAVD 88        |             |
| USCS:  |                  | Munsell:                 |                 | Comments:  |                     |                      |             |
| SP   |                  |                          |                 |  |                     |                      |             |
| Dry Weight (g):  | Wash Weight (g): | Pan Retained (g):        | Sieve Loss (%): | Fines (%):   | Organics (%):       | Carbonates (%):      | Shells (%): |
| 45.97  | 45.54            | 0.01                     | 0.00            | #200 - 1.45<br>#230 - 0.94   |                     | 29.79                |             |
| Sieve Number   | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained  | % Weight Retained  | Cum. Grams Retained | C. % Weight Retained |             |
| 3.5  | -2.50            | 5.66                     | 0.36            | 0.79   | 0.36                | 0.79                 |             |
| 5  | -2.00            | 4.00                     | 0.08            | 0.17   | 0.44                | 0.96                 |             |
| 7  | -1.50            | 2.83                     | 0.04            | 0.08   | 0.48                | 1.04                 |             |
| 10   | -1.00            | 2.00                     | 0.04            | 0.08   | 0.51                | 1.12                 |             |
| 14   | -0.50            | 1.41                     | 0.15            | 0.33   | 0.66                | 1.45                 |             |
| 18   | 0.00             | 1.00                     | 0.27            | 0.58   | 0.93                | 2.03                 |             |
| 25   | 0.50             | 0.71                     | 0.55            | 1.20   | 1.48                | 3.23                 |             |
| 35   | 1.00             | 0.50                     | 0.91            | 1.97   | 2.39                | 5.20                 |             |
| 45   | 1.50             | 0.35                     | 1.15            | 2.49   | 3.53                | 7.69                 |             |
| 60   | 2.00             | 0.25                     | 1.85            | 4.02   | 5.38                | 11.71                |             |
| 80   | 2.50             | 0.18                     | 4.38            | 9.54   | 9.76                | 21.25                |             |
| 120  | 3.00             | 0.13                     | 17.86           | 38.86  | 27.63               | 60.11                |             |
| 170  | 3.50             | 0.09                     | 16.32           | 35.51  | 43.95               | 95.62                |             |
| 200  | 3.75             | 0.07                     | 1.35            | 2.93   | 45.30               | 98.55                |             |
| 230  | 4.00             | 0.06                     | 0.24            | 0.51   | 45.53               | 99.06                |             |
|  |                  |                          |                 |  |                     |                      |             |
| Phi 5  | Phi 16           | Phi 25                   | Phi 50          | Phi 75   | Phi 84              | Phi 95               |             |
| 3.49   | 3.34             | 3.21                     | 2.87            | 2.55   | 2.22                | 0.95                 |             |
| Moment   | Mean Phi         | Mean mm                  | Sorting         | Skewness   | Kurtosis            |                      |             |
| Statistics   | 2.68             | 0.16                     | 0.75            | -2.21  | 10.46               |                      |             |

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| Project Name: Singer Island 2005   |                  |                          |                 |  |                     |                      |             |
| Sample Name: SI-05-57 #5.0   |                  |                          |                 |  |                     |                      |             |
| Analysis Date: 08-15-05  |                  |                          |                 |  |                     |                      |             |
| Analyzed By: SEA Inc.  |                  |                          |                 |  |                     |                      |             |
| Easting (ft):  |                  | Northing (ft):           |                 | Coordinate System:   |                     | Elevation (ft):      |             |
| 973,049  |                  | 909,346                  |                 | Florida State Plane East   |                     | -54.9 NAVD 88        |             |
| USCS:  |                  | Munsell:                 |                 | Comments:  |                     |                      |             |
| SP   |                  |                          |                 |  |                     |                      |             |
| Dry Weight (g):  | Wash Weight (g): | Pan Retained (g):        | Sieve Loss (%): | Fines (%):   | Organics (%):       | Carbonates (%):      | Shells (%): |
| 43.61  | 43.41            | 0.00                     | -0.45           | #200 - 0.07<br>#230 - 0.01   |                     | 45.18                |             |
| Sieve Number   | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained  | % Weight Retained  | Cum. Grams Retained | C. % Weight Retained |             |
| 5  | -2.00            | 4.00                     | 0.09            | 0.20   | 0.09                | 0.20                 |             |
| 7  | -1.50            | 2.83                     | 0.12            | 0.28   | 0.21                | 0.48                 |             |
| 10   | -1.00            | 2.00                     | 0.12            | 0.27   | 0.33                | 0.75                 |             |
| 14   | -0.50            | 1.41                     | 0.15            | 0.35   | 0.48                | 1.10                 |             |
| 18   | 0.00             | 1.00                     | 0.31            | 0.70   | 0.79                | 1.80                 |             |
| 25   | 0.50             | 0.71                     | 0.72            | 1.66   | 1.51                | 3.46                 |             |
| 35   | 1.00             | 0.50                     | 1.49            | 3.41   | 3.00                | 6.87                 |             |
| 45   | 1.50             | 0.35                     | 2.32            | 5.31   | 5.31                | 12.18                |             |
| 60   | 2.00             | 0.25                     | 3.09            | 7.09   | 8.41                | 19.27                |             |
| 80   | 2.50             | 0.18                     | 7.66            | 17.56  | 16.06               | 36.83                |             |
| 120  | 3.00             | 0.13                     | 21.55           | 49.41  | 37.61               | 86.24                |             |
| 170  | 3.50             | 0.09                     | 5.73            | 13.13  | 43.34               | 99.37                |             |
| 200  | 3.75             | 0.07                     | 0.24            | 0.56   | 43.58               | 99.93                |             |
| 230  | 4.00             | 0.06                     | 0.03            | 0.06   | 43.61               | 99.99                |             |
|  |                  |                          |                 |  |                     |                      |             |
| Phi 5  | Phi 16           | Phi 25                   | Phi 50          | Phi 75   | Phi 84              | Phi 95               |             |
| 3.33   | 2.98             | 2.89                     | 2.63            | 2.16   | 1.77                | 0.73                 |             |
| Moment   | Mean Phi         | Mean mm                  | Sorting         | Skewness   | Kurtosis            |                      |             |
| Statistics   | 2.41             | 0.19                     | 0.78            | -1.88  | 7.68                |                      |             |

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| Project Name: Singer Island 2005   |                  |                          |                 |  |                     |                      |             |
| Sample Name: SI-05-57 #10.0  |                  |                          |                 |  |                     |                      |             |
| Analysis Date: 08-15-05  |                  |                          |                 |  |                     |                      |             |
| Analyzed By: SEA Inc.  |                  |                          |                 |  |                     |                      |             |
| Easting (ft):  |                  | Northing (ft):           |                 | Coordinate System:   |                     | Elevation (ft):      |             |
| 973,049  |                  | 909,346                  |                 | Florida State Plane East   |                     | -59.9 NAVD 88        |             |
| USCS:  |                  | Munsell:                 |                 | Comments:  |                     |                      |             |
| SP   |                  |                          |                 |  |                     |                      |             |
| Dry Weight (g):  | Wash Weight (g): | Pan Retained (g):        | Sieve Loss (%): | Fines (%):   | Organics (%):       | Carbonates (%):      | Shells (%): |
| 36.34  | 35.76            | 0.00                     | -0.62           | #200 - 1.28<br>#230 - 0.99   |                     | 66.15                |             |
| Sieve Number   | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained  | % Weight Retained  | Cum. Grams Retained | C. % Weight Retained |             |
| 5  | -2.00            | 4.00                     | 0.05            | 0.15   | 0.05                | 0.15                 |             |
| 7  | -1.50            | 2.83                     | 0.25            | 0.69   | 0.30                | 0.84                 |             |
| 10   | -1.00            | 2.00                     | 0.07            | 0.20   | 0.38                | 1.04                 |             |
| 14   | -0.50            | 1.41                     | 0.13            | 0.35   | 0.51                | 1.39                 |             |
| 18   | 0.00             | 1.00                     | 0.34            | 0.92   | 0.84                | 2.31                 |             |
| 25   | 0.50             | 0.71                     | 1.52            | 4.18   | 2.36                | 6.49                 |             |
| 35   | 1.00             | 0.50                     | 4.22            | 11.62  | 6.58                | 18.11                |             |
| 45   | 1.50             | 0.35                     | 7.08            | 19.49  | 13.66               | 37.60                |             |
| 60   | 2.00             | 0.25                     | 7.29            | 20.07  | 20.96               | 57.67                |             |
| 80   | 2.50             | 0.18                     | 7.49            | 20.61  | 28.45               | 78.28                |             |
| 120  | 3.00             | 0.13                     | 6.05            | 16.65  | 34.50               | 94.93                |             |
| 170  | 3.50             | 0.09                     | 1.24            | 3.42   | 35.75               | 98.35                |             |
| 200  | 3.75             | 0.07                     | 0.14            | 0.37   | 35.88               | 98.72                |             |
| 230  | 4.00             | 0.06                     | 0.10            | 0.29   | 35.99               | 99.01                |             |
|  |                  |                          |                 |  |                     |                      |             |
| Phi 5  | Phi 16           | Phi 25                   | Phi 50          | Phi 75   | Phi 84              | Phi 95               |             |
| 3.01   | 2.67             | 2.42                     | 1.81            | 1.18   | 0.91                | 0.32                 |             |
| Moment   | Mean Phi         | Mean mm                  | Sorting         | Skewness   | Kurtosis            |                      |             |
| Statistics   | 1.74             | 0.30                     | 0.87            | -0.6   | 4.08                |                      |             |

|  |                                  |                                  |                                |  |                     |   |             |
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| Project Name: Singer Island 2005   |                                  |                                  |                                |  |                     |   |             |
| Sample Name: SI-05-57 #Comp  |                                  |                                  |                                |  |                     |   |             |
| Analysis Date: 08-15-05  |                                  |                                  |                                |  |                     |   |             |
| Analyzed By: SEA Inc.  |                                  |                                  |                                |  |                     |   |             |
| Easting (ft):<br><b>973,049</b>  |                                  | Northing (ft):<br><b>909,346</b> |                                | Coordinate System:<br><b>Florida State Plane East</b>  |                     | Elevation (ft):<br><b>-61.9 NAVD 88</b> |             |
| USCS:<br><b>SP</b>   |                                  | Munsell:                         |                                | Comments:  |                     |   |             |
| Dry Weight (g):<br><b>39.30</b>  | Wash Weight (g):<br><b>38.71</b> | Pan Retained (g):<br><b>0.05</b> | Sieve Loss (%):<br><b>0.02</b> | Fines (%):<br><b>#200 - 1.78</b><br><b>#230 - 1.63</b>   | Organics (%):       | Carbonates (%):<br><b>43.26</b>         | Shells (%): |
| Sieve Number   | Sieve Size (Phi)                 | Sieve Size (Millimeters)         | Grams Retained                 | % Weight Retained  | Cum. Grams Retained | C. % Weight Retained                    |             |
| 10   | -1.00                            | 2.00                             | 0.04                           | 0.10   | 0.04                | 0.10                                    |             |
| 14   | -0.50                            | 1.41                             | 0.04                           | 0.11   | 0.08                | 0.21                                    |             |
| 18   | 0.00                             | 1.00                             | 0.21                           | 0.54   | 0.29                | 0.75                                    |             |
| 25   | 0.50                             | 0.71                             | 0.81                           | 2.06   | 1.10                | 2.81                                    |             |
| 35   | 1.00                             | 0.50                             | 2.06                           | 5.25   | 3.17                | 8.06                                    |             |
| 45   | 1.50                             | 0.35                             | 3.54                           | 9.00   | 6.71                | 17.06                                   |             |
| 60   | 2.00                             | 0.25                             | 4.19                           | 10.67  | 10.90               | 27.73                                   |             |
| 80   | 2.50                             | 0.18                             | 6.39                           | 16.26  | 17.29               | 43.99                                   |             |
| 120  | 3.00                             | 0.13                             | 13.39                          | 34.08  | 30.68               | 78.07                                   |             |
| 170  | 3.50                             | 0.09                             | 7.24                           | 18.43  | 37.92               | 96.50                                   |             |
| 200  | 3.75                             | 0.07                             | 0.68                           | 1.72   | 38.60               | 98.22                                   |             |
| 230  | 4.00                             | 0.06                             | 0.06                           | 0.15   | 38.65               | 98.37                                   |             |
|  |                                  |                                  |                                |  |                     |   |             |
| Phi 5  | Phi 16                           | Phi 25                           | Phi 50                         | Phi 75   | Phi 84              | Phi 95                                  |             |
| 3.46   | 3.16                             | 2.95                             | 2.59                           | 1.87   | 1.44                | 0.71                                    |             |
| Moment   | Mean Phi                         | Mean mm                          | Sorting                        | Skewness   | Kurtosis            |   |             |
| Statistics   | 2.35                             | 0.20                             | 0.82                           | -0.89  | 3.24                |   |             |

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