

PROJECT NAME: Beach Sediment Analysis  
 CLIENT: HDR, Inc.  
 SAMPLE ID: SPI-T4  
 LOCATION: South Padre Island

| SOUTH PADRE ISLAND           |                                              |                 |                 |                 |                 |                 |
|------------------------------|----------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Transect 4                   |                                              |                 |                 |                 |                 |                 |
| ASTM MESH                    | PERCENT SHELL BY WEIGHT (BASED ON #10 SIEVE) |                 |                 |                 |                 |                 |
|                              | Toe of Dune                                  | Mid Berm        | Swash Zone      | First Bar       | Trough          | Second Bar      |
| RETAINED BY #10              | 0.0                                          | 0.4             | 0.0             | 0.2             | 0.6             | 0.0             |
| ASTM MESH                    | % FINER BY WEIGHT AFTER REMOVING SHELL       |                 |                 |                 |                 |                 |
|                              | Toe of Dune                                  | Mid Berm        | Swash Zone      | First Bar       | Trough          | Second Bar      |
| #10                          | 100.0                                        | 100.0           | 100.0           | 100.0           | 100.0           | 100.0           |
| #18                          | 99.9                                         | 99.9            | 100.0           | 99.6            | 99.9            | 99.6            |
| #35                          | 99.9                                         | 99.8            | 99.9            | 99.0            | 98.8            | 98.7            |
| #60                          | 99.3                                         | 99.4            | 95.5            | 90.6            | 96.3            | 90.5            |
| #70                          | 94.4                                         | 96.1            | 81.9            | 69.9            | 82.3            | 71.6            |
| #80                          | 68.2                                         | 67.7            | 48.5            | 35.0            | 55.7            | 39.6            |
| #100                         | 25.0                                         | 36.3            | 18.0            | 13.4            | 24.2            | 16.5            |
| #120                         | 11.2                                         | 9.0             | 7.9             | 5.9             | 12.3            | 7.7             |
| #170                         | 0.9                                          | 1.0             | 1.4             | 1.0             | 2.0             | 1.6             |
| #200                         | 0.7                                          | 0.7             | 1.3             | 0.9             | 1.8             | 1.5             |
| STATISTICS (EXCLUDING SHELL) |                                              |                 |                 |                 |                 |                 |
| MEDIAN GRAIN SIZE (mm)       | 0.165                                        | 0.161           | 0.178           | 0.190           | 0.172           | 0.187           |
| MEAN GRAIN SIZE (mm)         | 0.165                                        | 0.162           | 0.179           | 0.193           | 0.173           | 0.190           |
| SORTING ( $\sigma$ )         | 0.322                                        | 0.309           | 0.348           | 0.428           | 0.398           | 0.462           |
| Munsell Color                | Very Pale Brown                              | Very Pale Brown | Yellowish Brown | Yellowish Brown | Yellowish Brown | Yellowish Brown |



