

**Sample No. 00-09**      Location: approx. 8,900 ft northeast of Channel to Palacios

Time: 1400

Visual Description: silty clay, more clay lumps than in 00-11.

Water Depth: 11.2 ft

Weight of Rod: 1.2 ft

Pipe Drop: 5.7 ft

Pipe Push: N/A

Refusal Depth: N/A

PVC Push Tube Sample Depth: N/A

 **Sample No. 00-07**      Location: approx. Sta. 18+000 of GIWW realignment

Time: 1416

Visual Description: silty clay, with clay lumps

Water Depth: 11.4 ft

Weight of Rod: 2.0 ft

Pipe Drop: 3.0 ft

Pipe Push: N/A

Refusal Depth: N/A

PVC Push Tube Sample Depth: N/A, too soft to attempt

**Sample No. 00-05**      Location: approx. Sta. 12+000 of GIWW realignment

Time: 1437

Visual Description: silty clay, with no sand

Water Depth: 11.4 ft

Weight of Rod: 1.8 ft

Pipe Drop: 3.4 ft

Pipe Push: N/A

Refusal Depth: N/A

PVC Push Tube Sample Depth: N/A

**Sample No. 00-03**      Location: approx. Sta. 6+000 of GIWW realignment

Time: 1455

Visual Description: silty clay

Water Depth: 10.8 ft

Weight of Rod: 2.4 ft

Pipe Drop: 3.4 ft

Pipe Push: N/A

Refusal Depth: N/A

PVC Push Tube Sample Depth: N/A

**Sample No. 00-01**      Location: approx. Sta. 6+000 of GIWW realignment

Time: 1510

Visual Description: silty clay, very soft

Water Depth: 11.6 ft

Weight of Rod: 2.8 ft

Pipe Drop: 5+ ft

Pipe Push: N/A

Refusal Depth: N/A

PVC Push Tube Sample Depth: N/A

| Sample/<br>Boring<br>No | Depth<br>(ft) | P P<br>(tsf) | SPT<br>Blows<br>per<br>Foot | Visual<br>Classification             | U S C | Mc<br>(%) | Dry<br>Unit<br>Wt<br>(pcf) | Wet<br>Unit<br>Wt<br>(pcf) | L L<br>(%) | P L<br>(%) | Mechanical Analysis<br>% Passing |     |     |      |      | Torvane<br>Shear<br>Strength<br>(tsf) | q u<br>(tsf) |
|-------------------------|---------------|--------------|-----------------------------|--------------------------------------|-------|-----------|----------------------------|----------------------------|------------|------------|----------------------------------|-----|-----|------|------|---------------------------------------|--------------|
|                         |               |              |                             |                                      |       |           |                            |                            |            |            | #4                               | #10 | #40 | #100 | #200 |                                       |              |
| 00-01                   | 0-0.5         |              |                             | Clay, Gray                           | C H   | 139.8     |                            |                            | 66.0       | 26.0       |                                  |     |     |      |      |                                       |              |
| 00-03                   | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 126.6     |                            |                            | 69.0       | 25.0       |                                  |     |     |      |      |                                       |              |
| 00-05                   | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 144.7     |                            |                            | 65.0       | 26.0       |                                  |     |     |      |      |                                       |              |
| 00-07                   | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 155.1     |                            |                            | 66.0       | 26.0       |                                  |     |     |      |      |                                       |              |
| 00-09                   | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 136.7     |                            |                            | 68.0       | 25.0       |                                  |     |     |      |      |                                       |              |
| 00-11                   | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 144.1     |                            |                            | 61.0       | 25.0       |                                  |     |     |      |      |                                       |              |
| 00-12A                  | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 162.7     |                            |                            | 65.0       | 25.0       |                                  |     |     |      |      |                                       |              |
| 00-12B                  | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 108.0     |                            |                            | 72.0       | 26.0       |                                  |     |     |      |      |                                       |              |
| 00-13                   | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 161.7     |                            |                            | 73.0       | 27.0       |                                  |     |     |      |      |                                       |              |
| 00-15                   | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 125.3     |                            |                            | 58.0       | 24.0       |                                  |     |     |      |      |                                       |              |
| 00-17A                  | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 101.2     |                            |                            | 58.0       | 23.0       |                                  |     |     |      |      |                                       |              |
| 00-17B                  | 0-0.5         |              |                             | Clay, w/shell fragments, Gray        | C H   | 65.3      |                            |                            | 51.0       | 20.0       |                                  |     |     |      |      |                                       |              |
| 00-19                   | 0-0.5         |              |                             | Sandy Clay, w/shell fragments, Gray  | C L   | 60.0      |                            |                            | 39.0       | 18.0       |                                  |     |     |      |      |                                       |              |
| 00-21A                  | 0-0.5         |              |                             | Clayey Sand, w/shell fragments, Gray | ML-CL | 42.1      |                            |                            | 25.0       | 18.0       |                                  |     |     |      |      |                                       |              |
| 00-21B                  | 0-0.5         |              |                             | Clayey Sand, w/shell fragments, Gray | ML-CL | 34.8      |                            |                            | 25.0       | 18.0       |                                  |     |     |      |      |                                       |              |
| 00-22                   | 0-0.5         |              |                             | Silty Sand, Gray                     | S M   | 29.5      |                            |                            | N P        | N P        |                                  |     |     |      |      |                                       |              |
| 00-23A                  | 0-0.5         |              |                             | Silty Sand, Gray                     | S M   | 33.7      |                            |                            | N P        | N P        |                                  |     |     |      |      |                                       |              |
| 00-23B                  | 0.4-1.0       |              |                             | Silty Sand, Gray                     | S M   |           |                            |                            | N P        | N P        |                                  |     |     |      |      |                                       |              |
| 00-23C                  | 0.4-1.0       |              |                             | Silty Sand, Gray                     | S M   | 33.8      |                            |                            |            |            |                                  |     |     |      |      |                                       |              |
| 00-24                   | 0-0.5         |              |                             | Clay, Gray                           | C H   | 124.6     |                            |                            | 62.0       | 25.0       |                                  |     |     |      |      |                                       |              |

S #: Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content  
 q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe, N P : None Plastic

# SUMMARY OF LABORATORY TEST RESULTS

Exhibit 2 Page 3 of 4

Project: Matagorda Bay, Brazos River to Port O'Conner  
Contract No. DACW64-98-D-0002 Delivery Order No. 0041

| Sample/<br>Boring<br>No. | S# | Visual Classification              | U S C | Mechanical Analysis |        |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|----|------------------------------------|-------|---------------------|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                          |    |                                    |       | % Passing           |        |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                          |    |                                    |       | #2                  | #1 1/2 | #1  | #1/2 | #3/4 | #3/8 | #4   | #8   | #10  | #16  | #20  | #30  | #40  | #50  | #70  | #100 | #140 | #200 |      |
| 00-01                    | 1  | Clay,Gray                          | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 99.5 | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 99.9 | 99.8 | 97.8 | 94.4 |
| 00-03                    | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 99.5 | 99.3 | 99.2 | 99.1 | 99.0 | 98.9 | 98.7 | 98.3 | 95.3 | 91.1 |      |
| 00-05                    | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 99.5 | 99.3 | 99.2 | 99.1 | 98.9 | 98.6 | 98.3 | 97.4 | 95.0 | 93.9 |      |
| 00-07                    | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 99.9 | 99.9 | 99.8 | 99.8 | 99.8 | 99.7 | 99.6 | 99.5 | 98.0 | 96.0 |      |
| 00-09                    | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 99.8 | 99.7 | 99.6 | 99.4 | 99.3 | 99.2 | 99.1 | 98.9 | 98.3 | 94.4 | 90.2 |      |
| 00-11                    | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 99.9 | 99.8 | 99.7 | 98.6 | 93.6 |      |
| 00-12A                   | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 99.9 | 99.9 | 99.7 | 99.0 |      |
| 00-12B                   | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 99.9 | 99.8 | 99.7 | 99.6 | 99.6 | 99.5 | 99.5 | 99.3 | 98.7 | 96.6 |      |
| 00-13                    | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 99.5 | 98.1 | 97.6 | 95.8 |      |
| 00-15                    | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 100  | 99.9 | 99.9 | 99.8 | 99.7 | 99.6 | 99.5 | 99.5 | 98.4 | 95.2 |      |
| 00-17A                   | 1  | Clay,w/shell fragments,Gray        | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 99.8 | 99.7 | 99.4 | 99.2 | 99.1 | 99.0 | 98.9 | 98.6 | 97.3 | 97.1 | 95.7 |      |
| 00-17B                   | 1  | Clay,w/shell fragments & sand,Gray | C H   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 99.8 | 99.7 | 99.4 | 99.3 | 99.2 | 99.0 | 98.9 | 98.5 | 95.9 | 87.5 | 77.9 |      |
| 00-19                    | 1  | Sandy Clay,w/shell fragments,Gray  | C L   | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 100  | 100  | 99.9 | 99.9 | 99.9 | 99.8 | 99.8 | 99.7 | 98.0 | 82.4 | 66.7 |      |
| 00-21A                   | 1  | Clayey Sand,w/shell fragments,Gray | ML-C  | 100                 | 100    | 100 | 100  | 100  | 100  | 98.7 | 98.1 | 97.6 | 97.4 | 97.2 | 97.0 | 96.8 | 96.0 | 95.4 | 75.1 | 48.0 | 34.3 |      |
| 00-21B                   | 1  | Clayey Sand,w/shell fragments,Gray | ML-C  | 100                 | 100    | 100 | 100  | 100  | 100  | 100  | 98.8 | 98.7 | 98.2 | 97.9 | 97.8 | 97.6 | 97.4 | 96.4 | 80.7 | 52.8 | 37.6 |      |

S#: Sample Number, U S C: Unified Soil Classification, Sp.g: Specific Gravity