Project No. 03-859-037

Client: United States Army Corps of Engineers

Project: Colorado River to Matagorda Bay; Contract DACW64-03-D-0008; Delivery Order 0037

| Boring No. | Sample No. | Depth (feet) | Torvane Shear Test (tsf) | Soil Description | USCS | Water Content (%) | Dry Density (pcf) | Liquid Limit | Plastic Limit | Plast. Index | Finer than #200 Sieve (%) | Uconf. Compr. (tsf) | Failure Strain (%) | Failure Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-26 | | | | | | | | | | | | | | |
| | 1 | 0-2 | 0.10 | Brown and gray FAT CLAY; sand pockets | CH | 76.5 | | | | | | | | |
| | 2 | 2-4 | 0.09 | Olive gray LEAN CLAY with SAND; sand seams | CL | 26.4 | | 36 | 17 | 19 | | | | |
| | 3 | 4-6 | | Gray and brown LEAN CLAY; sand seams | CL | 23.4 | 101.9 | | | | | 0.98 | 5.5 | Multi-Shear |
| | 4 | 6-8 | | Brown and gray LEAN CLAY; sand seams | CL | 19.2 | | | | | | | | |
| | 5 | 8-10 | | Brown and gray LEAN CLAY | CL | 20.4 | 108.8 | 29 | 17 | 12 | | 0.95 | 4.8 | Bulge |
| | 6 | 10-12 | | Gray and brown LEAN CLAY; sand seams | CL | 19.2 | | | | | | | | |
| | 7 | 13-15 | | Reddish-brown and gray FAT CLAY | CH | 36.0 | | | | | | | | |
| 05-27 | | | | | | | | | | | | | | |
| | 1 | 2.5-4 | | Gray FAT CLAY | CH | 74.4 | | | | | | | | |
| | 2 | 4.5-6 | | Gray FAT CLAY | CH | 53.8 | | | | | | | | |
| | 3 | 6.5-8 | | Tan and gray CLAYEY SAND; sand pockets | SC | | | | | | 45.6 | | | |
| | 4 | 8.5-10 | | Gray and tan CLAYEY SAND; sand pockets with trace of shells | SC | | | | | | 30.7 | | | |
| | 5 | 13.5-15 | | Reddish-brown and light gray FAT CLAY | CH | 34.5 | | | | | | | | |
| 05-28 | | | | | | | | | | | | | | |
| | 1 | 0-2 | | Gray FAT CLAY with SAND | CH | | | | | | | | | |
| | 2 | 3.5-5 | | Gray FAT CLAY; traces of shells | CH | 80.1 | | | | | | | | |
| | 3 | 6-8 | 0.06 | | CH | 99.7 | | 90 | 25 | 65 | 87.2 | | | |
| | 4 | 8.5-10 | | Gray and brown FAT CLAY; sand pockets and few shells | CH | | | | | | | | | |
| | 5 | 13.5-15 | | Brown FAT CLAY; few calcareous nodules | CH | 21.0 | | 53 | 19 | 34 | | | | |
| 05-29 | | | | | | | | | | | | | | |
| | 1 | 0-2 | | Gray SILTY SAND; traces of shells | SM | | | | | | 18.8 | | | |
| | 2 | 3.5-5 | | Gray FAT CLAY; traces of shells | CH | | | | | | | | | |
| | 3 | 6.5-8 | | Brown and gray SANDY LEAN CLAY; few shells | CL | | | | | | 53.4 | | | |
| | 4 | 8.5-10 | | Reddish-brown and gray FAT CLAY; sand pockets and traces of shells | CH | | | | | | 80.8 | | | |
| | 5 | 13.5-15 | | Brown SILTY SAND | SM | | | | | | | | | |
| 05-30 | | | | | | | | | | | | | | |
| | 1 | 0-2 | | Gray FAT CLAY | CH | 102.4 | | | | | | | | |
| | 2 | 2-4 | 0.04 | Olive gray FAT CLAY; traces of shell | CH | 118.2 | | 102 | 27 | 75 | | | | |
| | 3 | 4-6 | 0.09 | Olive gray FAT CLAY; some shell | CH | 38.0 | | | | | | | | |
| | 4 | 6.5-8 | | Gray CLAYEY SAND; calcareous nodules | CL | | | | | | 68.4 | | | |
| | 5 | 8.5-10 | | Tan and gray POORLY GRADED SAND with SILT | SP-SM | | | | | | 11.2 | | | |
| | 6 | 13.5-15 | | Tan SILTY SAND | SM | | | | | | | | | |
| 05-31 | | | | | | | | | | | | | | |
| | 1 | 0-2 | | Gray FAT CLAY | CH | 76.8 | | | | | | | | |
| | 2 | 2-4 | 0.05 | Brown and gray FAT CLAY; traces of shells | CH | 85.5 | | | | | | | | |
| | 3 | 4-6 | 0.05 | Brown and gray FAT CLAY; traces of shells | CH | 115.5 | | 107 | 26 | 81 | | | | |
| | 4 | 6-8 | | Gray and tan FAT CLAY with SAND; traces of ferrous nodules | CH | 20.5 | | | | | | | | |
| | 5 | 8-10 | | Gray and tan LEAN CLAY; organics and traces ferrous nodules | CL | 18.8 | 108.5 | 38 | 19 | 19 | | 0.52 | 3.2 | Vertical Shear |

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