MATAGORDA SHIP CHANNEL
LIGHT #51 TO BEACON #19



# TEST DATA SUMMARY

FEATURE Log of Soil Borings

| BORING NO. | SAMPLE NO. | DEPTH OR ELEV OF SAMPLE | LABORATORY CLASSIFICATION | MECHANICAL ANALYSIS: GRAVEL % | SAND % | FINES % | D85 | ATTERBERG LIMITS: LL | PI | SPECIFIC GRAVITY G | NATURAL WATER CONTENT % | NATURAL DRY DENSITY LBS/CU FT | COMPACTION DATA: OPTIMUM WATER % | MAXIMUM DRY DENSITY LBS/CU FT | SHEAR DATA: INITIAL e | DRY DENSITY LBS/CU FT | $W_i$ % | $W_f$ % | $S_i$ % | TYPE TEST | SPECIMEN SIZE INCHES | TEST | $\sigma_{III}$ T/SQ FT | $\sigma_I$ T/SQ FT | C T/SQ FT | Ø DEGREES | PERMEABILITY: e | K FT/MIN | CONSOLIDATION DATA: $P_o$ T/SQ FT | $P_c$ T/SQ FT | $C_c$ | $t_{50}$ | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3ST-47 | 61- | 0.0 | Water Water | Surface (Elev. +2.0' MLT) | | | | | | | | | Water | | | | | | | | | | | | | | | | | | | | |
| | 4224 | 7.5 | OH | 0 | 13 | 87 | 0.25 | 70 | 22.0 | | 132.3 | | Dark Gray, CLAY (OH), v/soft, organic; Ignition Loss = 10.7% | | | | | | | | | | | | | | | | | | | | |
| | X | 9.5 | (OH) | | | | | | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 4225 | 12.5 | GP-GC | 21-17 38 | 38 | 24 | 0.25 | | – | | 28.4 | 96.3 | Gray, Clayey Sandy SHELL (GP-GC) (Loose) | | | | | | | | | | | | | | | | | | | | |
| | 4226 | 14.5 | (GP-GC) | (Same as 61-4225) | | | 0.25 | | | | 32.1 | 85.2 | Gray, Clayey Sandy SHELL (GP-GC) (Loose) | | | | | | | | | | | | | | | | | | | | |
| | X | 19.5 | (GP-GC) | | | | | | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 4227 | 25.0 | (GP-GC) | (Same as 61-4225) (No Tests) | | | | | | | | | Gray, CLAY(EI) Sandy SHELL (GP-GC) (Loose) | | | | | | | | | | | | | | | | | | | | |
| | X | 27.0 | X | | | | | | | | | | (No Recovery - Assumed to be same as above) | | | | | | | | | | | | | | | | | | | | |
| | 4228 | 30.0 | SC | 5-18 23 | 43 | 34 | | | – | | 30.6 | | Light Gray, Shelly Clayey SAND (SC) (Loose), (w/ shell in sand fraction) | | | | | | | | | | | | | | | | | | | | |
| | X | 32.0 | (CL) | | | | | | | | | | "Same as below" | | | | | | | | | | | | | | | | | | | | |
| | 4229 | 35.0 | CL | 7 | 41 | 52 | 0.25 | 31 | 13.9.0 | | 33.4 | 87.9 | Light Gray, Sandy CLAY (CL), v/soft, w/trace of shell | | | | | | | | | | | | | | | | | | | | |
| | X | 37.0 | (CL) | | | | | | | | | | "Same as below" | | | | | | | | | | | | | | | | | | | | |
| | 4230 | 40.0 | CL | 4 | 45 | 51 | | 31 | 48.0 | | 32.7 | 89.0 | Light Gray, Sandy CLAY (CL), (v/soft), w/trace of shell | | | | | | | | | | | | | | | | | | | | |
| | 4231 | 42.0 | (CL) | (Same as 61-4230) | | | | | | | 35.4 | 83.1 | Light Gray, Sandy CLAY (CL), (v/soft), w/trace of shell | | | | | | | | | | | | | | | | | | | | |
| | 4232 | 44.0 | (GC) | (Insufficient material for test) | | | | | | | | | Light Gray, Clayey SHELL (GC), v/soft. (Visual classification only) | | | | | | | | | | | | | | | | | | | 0/44.0-45.5 |
| | 4233 | 45.5 | SM | 0 | 2-1-23 78 | 22 | 0.25 | | 3.0 | | 28.1 | 95.9 | Light Gray to Brown, Clayey Silty Sand (SM), (Loose) | | | | | | | | | | | | | | | | | | | | |
| | 4234 | 48.0 | (SM) | (Same as 62-4233) | | | | | | | 26.6 | | Light Gray to Brown, Clayey Silty SAND (SM), (Dense) | | | | | | | | | | | | | | | | | | | 23/48.5-49.5 | |
| | | 49.5 | Bottomed @ a depth of 49.5' below water surface in Light Gray to Brown, Clayey Silty SAND (SM) (Dense) Boring @ Sta. 95+00.0, 100' N.E. ℄ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

~~* Values at Pressure~~ T/SQ FT

- Triaxial Compression
UC - Unconfined Compression
DS - Direct Shear
UU - Unconsolidated Undrained
- Consolidated Drained
CU - Consolidated Undrained



ENG 1001 (REV 4-71) 2068