MATAGORDA SHIP CHANNEL
TURNING BASIN TO LIGHT #51



# TEST DATA SUMMARY

FEATURE Log of Soil Borings

| BORING NO. | SAMPLE NO. | DEPTH OR ELEV OF SAMPLE | LABORATORY CLASSIFICATION | MECHANICAL ANALYSIS GRAVEL % | SAND % | FINES % | ~~B/S~~ | ATTERBERG LIMITS LL | ~~PL~~ | ~~SPECIFIC GRAVITY~~ | 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 | $\sigma_1$ 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~35T-~~ 9 (Cont) | 61- | 16.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CL) | No Sample | | | | - | Drillers Classification | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | | 20.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3267 | | (CL) | (Same as 61-3266) | | | | 0.25 | | | | 48.9 | 70.6 | Light Gray, CLAY (CL), v/soft (Driller notes presence of shell) | | | | | | | | | | | | | | | | | | | |
| | | 22.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CH) | No Sample | | | | - | Drillers Classification | | | | "Same as below" | | | | | | | | | | | | | | | | | | | | |
| | | 25.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3268 | | CH | 0 | 4 | 96 | 0.25 | 57.1 | 20.0 | 0.29 | 58.1 | 63.9 | Light Gray to Rust, CLAY (CH), v/soft | | | | | | | | | | | | | | | | | | | |
| | | 27.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CH) | No Sample | | | | - | Drillers Classification | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | | 30.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3269 | | CH | 0 | 1 | 99 | 0.25 | 81.1 | 26.0 | 0.24 | 67.2 | 57.6 | Light Gray to Rust, CLAY (CH), v/soft | | | | | | | | | | | | | | | | | | | |
| | | 33.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CH) | No Sample | | | | - | Drillers Classification | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | | 35.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3270 | | CH | 0 | 1 | 99 | 0.25 | 75.4 | 25.0 | 0.31 | 57.8 | 63.6 | Rust to Light Gray, CLAY (CH), Soft. (Driller notes presence of shell) | | | | | | | | | | | | | | | | | | | |
| | | 37.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CH) | No Sample | | | | - | Drillers Classification | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | | 40.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3271 | | CL | 0 | 9 | 91 | 0.25 | 42.8 | 15.0 | 0.42 | 39.1 | 80.1 | Light Gray, CLAY (CL), Soft (Driller notes presence of shell) | | | | | | | | | | | | | | | | | | | |
| | | 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CL) | No Sample | | | | - | Drillers Classification | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3272 | | CH | 0 | 11 | 89 | 0.25 | 50.5 | 17.5 | 0.52 | 42.7 | 76.1 | Light Gray, CLAY (CH), Soft (Driller notes presence of shell) | | | | | | | | | | | | | | | | | | | |
| | | 47.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Bottomed @ a depth of 47.5' below water surface in Light Gray, CLAY (CH), Soft w/trace of shell. Boring @ Station 40+00. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35T-10 | 61- | 0.0 = | Water Surface (Elev. +1.7' MLT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | Water | | | | | | | | | | WATER | | | | | | | | | | | | | | | | | | | | |
| | | 8.0 | | 8-14 | 24-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3273 | | SM | 22 | 67 | 11 | | — | | | | 38.5 | Dark Gray, SILTY SHELLY SAND (SM), Medium Dense. Std. Pent. Test (8.5'-9.5') = 2 blows/ft. (Sand fraction includes broken shell) (Driller notes presence of plastic fines) | | | | | | | | | | | | | | | | | | | | |
| | — | 12.0 | (SM) | No Sample | | | | - | Drillers Classification | | | | "Shell, some sandy clay, v/soft" | | | | | | | | | | | | | | | | | | | | |
| | | 15.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3274 | | CL | 0 | 19 | 81 | | — | 24.1 | 14.5 | | 48.7 | Light Gray, CLAY (CL), v/soft, Driller notes material same as above in top part of run and trace of shell in bottom part | | | | | | | | | | | | | | | | | | | | |
| | | 18.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CL) | No Sample | | | | - | Drillers Classification | | | | "Same as below" | | | | | | | | | | | | | | | | | | | | |
| | | 22.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3275 | | (CL) | (Same as 61-3274) | | | | 0.25 | | | | 72.7 | 57.2 | Light Gray CLAY (CL), v/soft (Driller notes presence of shell) | | | | | | | | | | | | | | | | | | | |
| | | 24.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | (CL) | No Sample | | | | - | Drillers Classification | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | | 28.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3276 | | (CL) | (Same as 61-3274) | | | | 0.25 | | | | 69.3 | 57.8 | Light Gray, CLAY (CL), v/soft (Driller notes presence of shell) | | | | | | | | | | | | | | | | | | | |
| | | 30.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | (Log of Boring 35T-10 continued on next sheet) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

*- Laboratory Penetrometer Reading **- Bar L.S. ***- Maximum Unconfined Compressive Strength, Tons/Sq. Ft.

MATAGORDA SHIP CHANNEL
TURNING BASIN TO LIGHT #51



# TEST DATA SUMMARY

FEATURE Log of Soil Borings

| BORING NO. | SAMPLE NO. | DEPTH OR ELEV OF SAMPLE | LABORATORY CLASSIFICATION | MECHANICAL ANALYSIS GRAVEL % | SAND % | FINES % | D50 | ATTERBERG LIMITS LL | PL | SPECIFIC GRAVITY | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35T-10 (cont) | 61- | 30.5 | (CL) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3277 | 34.0 | CH | 0 | 3 | 97 | 0.25 | 60.1 | 22.5 | 0.31 | 51.6 | 67.5 | Rust to Light Gray, CLAY (CH), Soft (Driller notes presence of sand seams & shell) | | | | | | | | | | | | | | | | | | | | |
| | — | 36.5 | (CH) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3278 | 40.0 | CL | 0 | 10 | 90 | 0.25 | 46.8 | 17.0 | 0.42 | 42.5 | 74.0 | Light Gray, CLAY (CL), Soft (Driller notes presence of shell & silty sand seams) | | | | | | | | | | | | | | | | | | | | |
| | — | 42.5 | (CL) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3279 | 45.0 | CL | 0 | 40 | 60 | 0.25 | 29.9 | 6.0 | | 29.1 | 91.3 | Light Gray, SANDY CLAY (CL), Soft, w/trace of shell | | | | | | | | | | | | | | | | | | | | |
| | | 47.5 | Bottomed @ a depth of 47.5' below water surface in Light Gray, SANDY CLAY (CL), Soft w/trace of shell. Boring @ Station 45+00, 100' East of ℄ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35T-11 | 61- | 0.0 = | Water Surface (Elev. + 1.6' MLT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | Water | | | | - | | | | | | WATER | | | | | | | | | | | | | | | | | | | | |
| | 3280 | 6.5 | SC | 0.20 20 | 45 | 35 | - | | | | 59.0 | | Gray, Shelly CLAYEY SAND (SC), Soft (Sand fraction includes broken shell) | | | | | | | | | | | | | | | | | | | | |
| | — | 8.0 | (SC) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3281 | 10.5 | SC | 9 | 45 | 46 | - | | | | 46.3 | | Gray, CLAYEY SAND (SC), (v/soft) w/trace of shell | | | | | | | | | | | | | | | | | | | | |
| | — | 13.0 | (SC/CL) | No Sample | | | - | Drillers Classification | | | | | "Same as above to same as below @ 14.5'" | | | | | | | | | | | | | | | | | | | | |
| | 3282 | 15.5 | CL | 0 | 20 | 80 | 0.25 | 39.5 | 11.0 | | 56.8 | 67.4 | Light Gray, CLAY (CL), v/soft (Driller notes presence of shell) | | | | | | | | | | | | | | | | | | | | |
| | — | 18.0 | (CL) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3283 | 20.5 | CH | 0 | 8 | 92 | 0.25 | 56.6 | 20.0 | 0.24 | 56.9 | 67.0 | Light Gray, CLAY (CH), v/soft (Driller notes presence of silty sand seams & traces of shell) | | | | | | | | | | | | | | | | | | | | |
| | — | 23.0 | (CH) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3284 | 26.0 | CH | 0 | 3 | 97 | 0.25 | 67.6 | 25.0 | | 76.8 | 55.4 | Light Gray to Rust, CLAY (CH), v/soft (Driller notes presence of silty sand & shell pockets) | | | | | | | | | | | | | | | | | | | | |
| | — | 28.5 | (CH) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3285 | 32.0 | CL | 0 | 3 | 97 | 0.25 | 46.9 | 17.0 | 0.35 | 41.3 | 77.2 | Rust to Light Gray, CLAY (CL), Soft (Driller notes presence of silty sand seams & trace of shell) | | | | | | | | | | | | | | | | | | | | |
| | — | 34.5 | (CL) | No Sample | | | - | Drillers Classification | | | | | "Same as above" | | | | | | | | | | | | | | | | | | | | |
| | 3286 | 37.0 | CL | 0 | 11 | 89 | 0.25 | 48.7 | 19.0 | | 49.8 | 70.7 | Light Gray, CLAY (CL), v/soft (Driller notes presence of thin silty sand & shell layers) | | | | | | | | | | | | | | | | | | | | |
| | | 39.5 | (Log of Boring 35T-11 continued on Sheet #10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

+ - Laboratory Penetrometer Reading ++ - Bar L.S. +++ - Maximum Unconfined Compressive Strength Tons/Sq. Ft.

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