MATAGORDA SHIP CHANNEL
POWERHORN LAKE TO INDIAN POINT

# TEST DATA SUMMARY

FEATURE Log of Soil Boring

| BORING NO. | SAMPLE NO. | DEPTH OR ELEV OF SAMPLE | LABORATORY CLASSIFICATION | MECHANICAL ANALYSIS: GRAVEL % | SAND % | FINES % | $D_{10}$ % | ATTERBERG LIMITS: LL | PL | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6ST-76-A | 62 | 44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3622 | | CL | | | | 4.25 | | | 23.8 | 101.6 | | DC | Gray, | Clay (CL), w/calcareous nodules, Hard | | | | | | | | | | | | | | | | | | |
| | | 46.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3623 | | CL | | | | 4.50 | | | 18.3 | 116.9 | | | Gray | Clay (CL), calcareous nodules, Hard | | | | | | | | | | | | | | | | | | |
| | | 48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6ST-77-A | 62 | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3624 | | CL | | | | 0.25 | | | 29.6 | 93.1 | | | Gray, | Sandy Clay (CL), Soft | | | | | | | | | | | | | | | | | | |
| | | 47.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3ST-78-A | 62 | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3625 | | CL | | | | 0.0 | | | 40.0 | 80.9 | | | Gray | Clay (CL), v/soft | | | | | | | | | | | | | | | | | | |
| | | 47.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3ST-79-A | 62 | 44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3626 | | CL | | | | 0.0 | | | 68.5 | 85.4 | | | Gray, | Clay (CL) v/soft | | | | | | | | | | | | | | | | | | |
| | | 46.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3627 | | CL | | | | 0.0 | | | 52.9 | 69.5 | | | Gray | Clay (CL), v/soft | | | | | | | | | | | | | | | | | | |
| | | 48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3ST-80-A | 62 | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3628 | | CL | | | | 0.0 | | | 59.1 | 65.6 | | | Gray | Clay (CL) v/soft | | | | | | | | | | | | | | | | | | |
| | | 47.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3ST-81-A | 62 | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3629 | | CL | | | | 0.0 | | | 45.5 | 75.7 | | | Gray, | Clay (CL), v/soft | | | | | | | | | | | | | | | | | | |
| | | 47.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3ST-82-A | 62 | 44.0 | | | | | 0.0 | | | 28.3 | 94.7 | | | | | | | | | | | | | | | | | | | | | | |
| | 3630 | | CL | | | | | | | | | | | Gray, | Sandy Clay (CL), v/soft | | | | | | | | | | | | | | | | | | |
| | | 46.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3631 | | CL | | | | 0.0 | | | | | | | Gray, | Sandy Clay (CL), v/soft | | | | | | | | | | | | | | | | | | |
| | | 48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3ST-83-A | 62 | 46.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3632 | | SM | | | | 0.0 | | | 26.2 | | | | Gray, | Silty Sand (SM), Loose | | | | | | | | | | | | | | | | | | |
| | | 48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6ST-85-A | 62 | 44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3633 | | CL | | | | 3.50 | | | 45.3 | 84.2 | | | Gray, | Clay (CL), v/soft w/calcareous nodules | | | | | | | | | | | | | | | | | | |
| | | 46.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3634 | | CL | | | | 4.25 | | | 52.0 | 79.5 | | | Gray, | Clay (CL), Hard, w/calcareous nodules | | | | | | | | | | | | | | | | | | |
| | | 48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Values at Pressure T/SQ FT

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

MATAGORDA SHIP CHANNEL
BEACON #19 to
MATAGORDA PENINSULA

# TEST DATA SUMMARY

FEATURE LOG OF SOIL BORING



| BORING NO. | SAMPLE NO. | DEPTH OR ELEV OF SAMPLE | LABORATORY CLASSIFICATION | MECHANICAL ANALYSIS: GRAVEL % | SAND % | FINES % | % | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35-83 | 61 | 0.0 = | Water | Surface (Elev +2.0' MLT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | — | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 11.0 | | 8-13-33 | | | | | | | (4.6) | | | | | | | | | | | | | | | | | | | | | | |
| | 4631 | | SC | 4 | 54 | 42 | 0.0 | | 9.0 | | 45.6 | 77.8 | Gray, Clayey Sand (SC) v/soft, w/shell fragments | | | | | | | | | | | | | | | | | | | | |
| | | 14.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | CH | | | | | | | | (88) | | No Drillers Classification, Assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 17.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4632 | | CH | 1 | 27 | 72 | 0.0 | 60.4 | 19.0 | | 88.1 | 52.2 | Gray, Sandy Clay (CH) v/soft | | | | | | | | | | | | | | | | | | | | |
| | | 19.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | CH | | | | | | | | | | No Drillers Classification, Assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 23.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4633 | | CL | Same as 61-4634 | | | 0.10 | | | | 75.6 | 57.6 | Light Brown, Clay (CL) v/soft | | | | | | | | | | | | | | | | | | | | |
| | | 25.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | CL | | | | | | | | (68) | | No Drillers Classification, Assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 28.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4634 | | CL | 0 | 14 | 86 | 0.20 | 46.7 | 15.0 | | 54.1 | 72.7 | Light Brown, Clay (CL) v/soft | | | | | | | | | | | | | | | | | | | | |
| | | 30.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | CL | | | | | | | | | | No Drillers Classification, Assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 33.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4635 | | CL | 0 | 44 | 56 | ~~1.00~~ | 30.0 | 7.0 | | 35.4 | 90.8 | Gray, Sandy Clay (CL) ~~stiff~~ v/soft | | | | | | | | | | | | | | | | | | | | |
| | | 35.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | CL | | | | | | | | (34) | | No Drillers Classification, Assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 38.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4636 | | CL | Same as 61-4635 | | | 0.10 | | | | 33.0 | 92.1 | Gray, Sandy Clay (CL) v/soft | | | | | | | | | | | | | | | | | | | | |
| | | 40.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | CL | | | | | | | | | | No Drillers Classification, Assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 43.0 | | 0-4-78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4637 | | SM | 0 | 82 | 18 | 0.40 | | 0.0 | | 22.8 | 106.2 | Gray, Silty Sand (SM), soft | | | | | | | | | | | | | | | | | | | | |
| | | 45.0 | | | | | | | | | (23) | | | | | | | | | | | | | | | | | | | | | | |
| | 4638 | | SM | Same as 61-4637 | | | | | | | ~~45.8~~ | | Gray, Silty Sand (SM), soft Med Dense | | | | | | | | | | | | | | | | | | | | |
| | | 47.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Bottomed @ a depth of 47.5' below water surface in Boring @ Sta. 59+000, 100' NE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Values at Pressure T/SQ FT

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