TRIAXIAL and Direct Shear

SUMMARY OF ~~UNCONFINED~~ COMPRESSION TEST DATA
on UNDISTURBED SAMPLES
"S" Tests TABLE

| Boring No. | Depth Ft. | Density Data M.C. % | Density Data U.D.W. P.C.F. | Gradation Gr | Gradation Sa | Gradation Fines | L.L. | P.L. | Shear Data Φ | Shear Data C P.S.F | Classification |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 83-393 | 10 - 12 | 21.7 | 102 | | 5 | 95 | 21 | 12 | 33.5 | 400 | Light Grey Sandy Clay (CL), Soft |
| 83-393 | 14 - 16 | 27.7 | 95. | | 39 | 60 | 32 | 16 | 30.3 | 500 | Grey Sandy Clay (CL), Very Soft |
| 83-387 | 2 - 4 | 71.6 | 56. | | 5 | 95 | 81 | 26 | 14.0 | 140 | Grey Clay (CH), Soft |
| 83-402 | 10 - 12 | 28.9 | 94 | | 15 | 65 | 29 | 20 | 29.3 | 0 | Light Grey and Tan Sandy Clay (CL), Soft |
| | | | | | | "R" Tests | | | | | |
| 83-387 | 4 - 6 | 71.6 | 57 | | 5 | 95 | 61 | 28 | 5.0 | 200 | Grey Clay (CH), Very Soft |
| 83-402 | 8 - 10 | 23.5 | 101. | | 34 | 66 | 28 | 18 | 13.5 | 480 | Grey Silty Clay (CL), Soft |
| | | | | | | "Q" Tests | | | | | |
| 83-394 | 12 - 14 | 42.3 | 78 | | 24 | 76 | 58 | 18 | 0 | 400 | Grey Clay (CH), Soft |
| 83-392 | 16 - 18 | 32.7 | 90 | 3 | 57 | 40 | 66. | 21 | 0 | 200 | Grey Clayey Sand (SC). Very Soft |
| 83-393 | 12 - 14 | 22.0 | 100 | | 29 | 71 | 20 | 14 | 19.8 | 720 | Grey Sandy Clay (CL), Soft |
| 83-401 | 10 - 12 | 33.0 | 89 | 1 | 30 | 69 | 52 | 19 | 0 | 400 | Grey Clay (CH), Very Soft |
| 83-406 | 14-16 | 18.3 | 104 | 1 | 50 | 49 | 31 | 13 | 13 | 200 | Grey Sandy Clay (CL), Soft. |

.28 Reach 7 Sta. 141+50 83-406

SFC EL = .9'

COMPUTATION SHEET

| Lyr No | Depth | w | $\gamma_d$ | $e_o$ | $\gamma$ | $\gamma_b$ | Surcharge | $N_z$ | $\Delta\sigma$ | $\bar{\sigma}_o$ | $\bar{\sigma}_f$ | MC | LL | C | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0-2 | 29 | 93 | .779 | 120 | 58 | 1483 | 1 | 1483 | 58 | 1541 | | | *.06 | .096 |
| 2 | 2-4 | 42 | 76 | 1.177 | 108 | 45 | | 1 | | 161 | 1644 | | 66 | *.16 | .078 |
| 3 * | 4-10 | 24 | 95 | .741 | 118 | 55 | | 1 | | 372 | 1855 | | | .15 | .361 |
| 4 * | 10-14 | 19 | 95 | .741 | 113 | 51 | | .98 | 1453 | 639 | 2093 | | | .15 | .178 |
| 5 | 14-16 | 18 | 104 | .591 | 123 | 60 | | .94 | 1394 | 800 | 2194 | | 31 | .15 | .083 |
| 6 | 16-18 | 26 | 94 | .760 | 118 | 56 | | .92 | 1364 | 916 | 2280 | | | .15 | .068 |
| 7 | 18-20 | 27 | 90 | .838 | 114 | 52 | | .9 | 1335 | 1024 | 2359 | | | .15 | .059 |
| 8 * | 20-30 | 25 | 100 | .654 | 125 | 63 | | .85 | 1261 | 1389 | 2649 | | | .1 | .170 |
| 9 * | 30-40 | 25 | 100 | .654 | 125 | 63 | | .77 | 1142 | 2014 | 3156 | | | .1 | .118 |
| | | | | | | | | | | | | | | | 1.2' |

PROJECT SHEET ___ OF ___

FEATURE

DATE DATE

BY CHKD BY DETAILS

SWD Form 521-R
Rev 24 Feb 81

SWGED-FG
SUBJECT: Wallisville Lake, Texas - Staking Request

TO: Soils Design Sec FROM: SWGED-FG DATE: 4 Jan 83 CMT 2
ATTN: John M. Cleveland

Subject request for boring stake-outs has been completed as of this date. The following are coordinates and elevations for the respective borings:

| Boring No. | X | Y | | Elevation |
|---|---|---|---|---|
| 83-388 | 3,345,479.92 | 749,137.59 | 54+00 | 1.6 |
| 83-389 | 3,345,935.97 | 749,300.53 | 59+00 | 1.3 |
| 83-390 | 3,346,196.03 | 749,604.38 | 63+00 | 0.9 |
| 83-391 | 3,346,519.00 | 749,986.08 | 68+00 | 1.4 |
| 83-392 | 3,346,841.97 | 750,367.77 | 73+00 | 1.3 |
| 83-393 | 3,347,164.95 | 750,749.46 | 78+00 | 1.5 |
| 83-394 | 3,347,491.45 | 751,127.89 | 83+00 | 1.2 |
| 83-395 | 3,347,953.72 | 751,272.24 | 88+00 | 1.4 |
| 83-396 | 3,348,383.65 | 751,033.11 | 93+00 | 1.0 |
| 83-397 | 3,348,774.08 | 750,720.76 | 98+00 | 1.3 |
| 83-398 | 3,349,140.06 | 750,382.57 | 103+00 | 1.4 |
| 83-399 | 3,349,346.17 | 749,931.38 | 108+00 | 1.3 |
| 83-400 | 3,349,396.10 | 749,585.03 | 111+50 | 1.2 |
| 83-401 | 3,349,462.67 | 749,089.48 | 116+50 | 2.0 |
| 83-402 | 3,349,522.51 | 748,643.51 | 121+50 | 1.5 |
| 83-403 | 3,349,595.80 | 748,098.38 | 126+50 | 1.1 |
| 83-404 | 3,349,662.37 | 747,602.84 | 131+50 | 0.9 |
| 83-405 | 3,349,728.93 | 747,107.29 | 136+50 | 1.1 |
| 83-406 | 3,349,795.50 | 746,611.74 | 141+50 | 0.9 |
| 83-407 | 3,349,862.06 | 746,116.19 | 146+50 | 1.1 |

SWG FD 24
26 Nov 68

# SUMMARY OF LABORATORY TEST DATA

PROJECT Corp of Engineers/Wallisville
DATE 83-431W

| BORING NO. | DEPTH IN FEET | TYPE OF MATERIAL | MOISTURE CONTENT % | DRY DENSITY pcf | ATTERBERG LIMITS LL | PL | PI | COMPRESSION TEST: COMPRESSION tsf | STRAIN % | LATERAL PRESSURE psi | TYPE FAILURE | Sieve Analysis % Passing #4 | #10 | #40 | #200 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 405 | 14-15.5 | Gray sandy clay with shell (CL) | 12 | | | | | | | | | | | | |
| | 18-20 | Gray clay with sand pockets (CH) | 51 | 78 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 406 | 0-2 | Gray clay with roots, ferrous nodules and silt partings and pockets, slickensided (CH) | 29 | 93 | | | | | | | | | | | |
| | 2-4 | Light gray and tan clay with roots, ferrous nodules and silt pockets (CH) | 42 | 76 | 66 | 22 | 44 | | | | | 100 | 99 | 96 | 5 |
| | 4-5.5 | Light gray and tan silty clay with sand pockets (CL) | 24 | | | | | | | | | | | | |
| | 12-13.5 | Gray sandy clay with clay pockets (CL) | 19 | | | | | | | | | | | | |
| | 14-16 | Gray very sandy clay with sand pockets and shell fragments (CL) | 18.3 | 104 | 31 | 13 | 18 | | | | | TV = 0.24 TSF<br>99 | 98 | 97 | 49 |
| | 16-18 | Gray sandy clay with sand pockets and partings, clay pockets and partings and shell (CL) | 26 | 94 | | | | | | | | | | | |
| | 18-20 | Gray sandy clay with sand pockets and partings, clay pockets and partings, seams and shell (CL) | 27 | 90 | | | | | | | | TV = 0.20 TSF | | | |