SUMMARY OF UNCONFINED COMPRESSION TEST DATA

WALLISVILLE RESERVOIR

NON-OVERFLOW DAM

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.	% Strain @ Max. Stress	Max. Stress T.S.F.	Classification
378	2-4	25	103	0	19	81	59	22	10.2	1.53	Tan, Red-Brown and Light Gray Clay, Stiff (CH)
381	2-4	32	88	0	25	75	55	23	4.9	.22	Gray and Tan Clay, Soft (CH)
382	2-4	35	84	0	1	99	77	27	3.1	.14	Gray and Tan Clay, Medium (CH)
385	2-4	35	90	0	5	95	50	19	5.5	.36	Gray Clay, (Stiff) (CH)
"	6-8	63	62	0	0	100	73	23	6.8	.37	Gray Clay, Soft (CH)
"	12-14	86	52	0	0	100	90	39	3.1	.22	Gray Clay, Very Soft (CH)
387	6-8	95	60	0	11	89	65	28	4.7	.12	Gray Clay, Very Soft (CH)
"	13-15	84	51	0	0	100	97	38	4.2	.19	Gray Clay, Soft (CH)
390	2-4	46	73	0	2	98	99	36	2.4	.49	Black Clay, (Soft) (CH)
392	2-4	43	80	0	4	96	87	20	5.1	.38	Gray and Tan Clay, Soft (CH)
393	0-2	47	72	0	2	98	91	31	5.4	.43	Gray Clay, Soft (CH)
"	22-24	57	67	0	6	94	76	30	4.0	.23	Gray Clay, Very Soft (CH)
"	34-36	48	80	0	14	86	72	27	6.3	.34	Gray Clay, Very Soft (CH)
395	12-14	61	61	0	21	79	110	27	3.4	.51	Dark Gray & Gray Clay, Med (CH)
"	18-20	65	63	0	12	88	82	27	3.4	.61	Gray Clay, (Stiff) (CH)
400	2-4	45	77	0	1	99	91	33	4.4	1.34	Gray Clay, Stiff (CH)
401	2-4	45	77	0	2	98	89	32	3.8	.60	Gray, Dark Gray & Tan Clay, (Stiff) (CH)
402	4-6	28	101	0	10	90	35	22	14.3	.64	Gray Sandy Clay, Soft (CL)
"	14-16	33	91	—	—	—	56	19	7.9	.22	Gray Clay, Soft (CH)
"	22-24	68	67	0	0	100	85	33	3.0	.21	Gray Clay, Very Soft (CH)
"	26-28	63	68	0	0	100	89	31	3.9	.40	Gray Clay, Very Soft (CH)
405	2-4	32	91	0	9	91	65	20	5.2	.52	Gray & Tan Clay, (Med) (CH)
407	2-4	33	91	0	9	91	56	24	4.8	.28	Gray & Tan Clay, Soft (CH)
410	2-4	35	90	0	5	95	62	32	6.6	.57	Dark Gray & Tan Clay, (Soft) (CH)
412	0-2	37	84	0	4	96	76	26	5.0	.30	Gray & Tan Clay, Soft (CH)
"	22-24	15	62	0	12	88	84	27	6.1	.45	Gray Clay, Soft (CH)
"	30-32	34	90	0	1	99	76	24	7.5	1.74	Gray & Tan Clay, Stiff (CH)

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
83-408	3,349,928.63	745,620.64	151+50	0.8
83-409	3,349,995.20	745,125.09	156+50	0.9
83-410	3,350,061.76	744,629.54	161+50	1.2
83-411	3,350,128.33	744,133.99	166+50	1.1
83-412	3,350,194.90	743,638.44	171+50	1.4

SWG FL 24
25 Nov 68

.9 Reach 8 Sta. 170+50 83-412

Sfc EL = 1.4'

Lyr No	Depth	w	γ_d	e_o	γ	γ_b	Surcharge	N_z	$\Delta\sigma$	$\bar{\sigma}_o$	$\bar{\sigma}_f$	MC	LL	C *C_R	S
1	0-2	37	84	.970	115	53	1440	1	1440	53	1493		76	*.12	.089
2 *	2-7	30	90	.838	117	55		1		242	1682			*.15	.343
3 *	7-12	16	105	.576	122	59		.98	1411	527	1938		25	.05	.090
4 *	12-17	22	100	.654	122	60		.94	1354	824	2178			.1	.128
5 *	17-20	45	65	1.545	94	32		.9	1296	1021	2317		76	.5	.210
6	20-22	48	61	1.712	90	28		.89	1282	1097	2378			.5	.124
7	22-24	75	62	1.668	109	46		.87	1253	1171	2424		84	.7	.166
8	24-26	47	70	1.363	103	40		.86	1238	1257	2496			.5	.126
9 *	26-32	34	90	.838	121	58		.81	1166	1472	2638		76	.35	.290
10	32-34	34	87	.902	117	54		.79	1138	1642	2780			.35	.084
11	34-36	26	88	.880	111	48		.77	1109	1745	2854		41	.25	.057
12	36-38	26	96	.723	121	59		.75	1080	1852	2932			.25	.059
13	38-40	10	100	.654	110	48		.73	1051	1958	3009			.05	.011
													Total		1.8"

COMPUTATION SHEET

SWD Form 521-R
Rev 24 Feb 81

BY | DATE | PROJECT | SHEET ___ OF ___
CHKD BY | DATE | FEATURE
DETAILS

SUMMARY OF LABORATORY TEST DATA

PROJECT Corp of Engineers/Wallisville
83-431Y

DATE

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
412	0-2	Gray and tan clay with roots, slickensided, fragments (CH)	37	84	76	26	50	.30	5.0	0	SLS	TV = 0.42 TSF -	-	100	96
	5-6.5	Gray and light gray sandy clay with clay pockets (CL)	30												
	9.5-11	Light gray and tan sandy clay (CL)	16												
	14.5-16	Gray sandy clay with shell, slightly silty (CL)	22												
	18.5-20	Gray clay with silt pockets, sand pockets and shell (CH)	45		76	21	55					98	97	92	4
	20-22	Gray clay with sand pockets, slightly silty and shell (CH)	48	61											
	22-24	Soft gray clay with organics, shell fragments and sand partings and pockets (CH)	75	62	84	27	57	.45	6.1	0	SHEAR	-	100	99	88
	24-26	Gray clay with sand pockets and shell, slightly silty (CH)	47	70											
	30-32	Stiff gray and tan clay, slickensided (CH)	34	90	76	24	52	1.74	7.5	0	SLS	-	-	100	99
	32-34	Gray and tan clay with ferrous nodules and sand pockets (CH)	34	87											
	34-36	Gray and tan sandy clay (CL)	26	88	41	17	24					-	-	100	79
	36-38	Gray and tan sandy clay with sand pockets (CL)	26	96											
	38.5-40	Light gray and gray sandy clay (CL)	10												