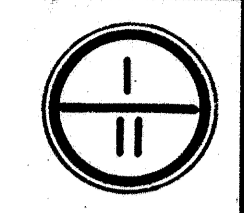


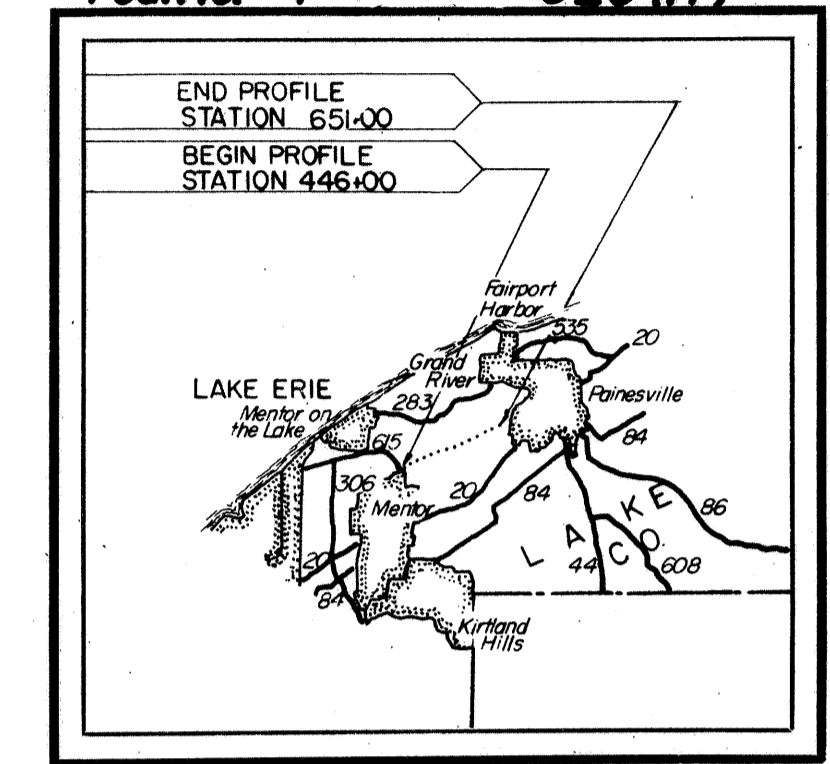
SOIL PROFILE LAKE COUNTY LAK-2-10.35

OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO



NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

Fed. No. - F- 329 (17)



END PROFILE STATION 651+00
BEGIN PROFILE STATION 446+00

LOCATION MAP
Recon - C.J.K., J.S.M. - 5-9-57
Drilling - R.W.W., C.A.S., C.E.G., C.A.C. - 9-12-57
Drafting - M.H., R.V.S., D.L.W., G.T.L., N.L. - 10-22-57
Drafting (Revised) - H.H.S., H.E.H., M.H. - 9-3-58

Revised 11-27-59

Recon - C.J.K. - 8-25-59
Drilling - B.D.L. - 10-14-59 to 10-20-59
Drafting - W.M.R., J.H.W. - 11-27-59

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 278 SAMPLES TESTED

DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel	A-1-a(0)	A-1-a	61	13	14	10	2	NP	NP	11	1
Fine sand	A-3(0)	A-3	8	10	73	6	3	NP	NP	24	2
Coarse and fine sand	—	A-3a	2	7	68	16	7	NP	NP	23	52
Sandy silt	A-4(0)	A-4a	5	8	27	33	27	19	5	18	110
Silt	A-4(0)	A-4b	1	1	4	62	32	28	7	26	10
Silt and clay	A-6(0)	A-6a	4	6	12	37	41	29	13	18	97
Silty clay	A-6(1)	A-6b	7	6	14	31	42	36	16	19	2
Clay	A-7-6(15)	A-7-6	5	4	9	32	50	43	23	20	4

Auger boring - plan view Auger boring plotted to vertical scale only. —W Free water

• Water content nearly equal to or greater than liquid limit. and Sad/Topsoil-X=Approximate depth.
or

Note: Figures beside borings indicate water contents in percent e.g. 15 Berm material

⊕ Indicates a non-plastic material with high water content.

Samples Tested
Lab. Nos. So. 35743-35797 incl., 36380-36409 incl., 64954-64985 incl., 65382-65391 incl., 65401-65487 incl., 65840-65842 incl., 65844-65859 incl., 65909-65929 incl., 73496-73519 incl.

Summary of Soil Test Data

Note: NP shown in the Liquid Limit and Plasticity Index columns indicates a non-plastic material.
* Denote Sample taken at or near grade.

MICROFILMED
JUL 1 1985

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	LL	PI	% W.C.	SHTL Class.
447+95 CL	0.3-4.0	3	6	12	34	45	31	12	22	A-6a *
	4.0-10.0	6	5	8	37	44	31	12	16	A-6a *
	10.0-15.0	4	7	12	42	35	6	11	11	A-4a
	15.0-20.0	9	8	11	38	34	25	11	10	A-6a
20.0-26.0	11	5	8	43	33	7	10	11	A-4a	
452+00 CL	0.0-4.0	2	5	12	40	41	29	13	17	A-6a *
	4.0-8.0	2	4	8	39	47	29	13	16	A-6a
456+00 CL	0.0-5.0	0	1	6	29	64	50	28	26	A-7-6
	5.0-8.0	3	5	9	37	46	28	11	15	A-6a
460+00 CL	0.0-3.0	4	4	19	36	37	31	14	18	A-6a
	3.0-5.0	2	6	9	41	42	29	11	15	A-6a
464+00 CL	0.3-4.0	2	4	9	41	44	32	12	17	A-6a
	4.0-8.0	5	6	9	42	38	30	12	16	A-6a
468+00 CL	0.3-4.0	2	5	10	36	43	32	12	18	A-6a
	4.0-8.0	2	5	10	33	50	29	13	15	A-6a
472+00 CL	0.3-5.0	2	2	9	38	49	36	13	19	A-6a
	5.0-8.0	4	4	8	42	42	33	14	18	A-6a
476+00 CL	0.3-4.0	4	3	9	53	31	35	15	20	A-6a
	4.0-8.0	3	7	11	39	40	28	11	17	A-6a
480+00 CL	0.3-5.0	3	3	9	38	47	36	15	19	A-6a
	5.0-8.0	3	6	10	40	41	30	13	15	A-6a
484+00 CL	0.3-5.0	3	5	10	39	43	32	16	17	A-6a
	5.0-8.0	3	4	8	40	45	35	16	23	A-6a
488+00 CL	0.4-4.0	3	3	8	40	45	34	15	23	A-6a
	4.0-7.0	3	3	8	40	46	34	15	23	A-6a
492+00 CL	0.4-4.0	0	6	31	32	24	26	13	24	A-6a
	4.0-6.0	2	3	7	41	47	36	15	22	A-6a
496+00 CL	0.4-3.0	0	6	39	30	25	25	11	19	A-6a
	3.0-7.0	0	3	14	36	47	33	13	21	A-6a
500+00 CL	0.8-5.0	3	6	20	34	37	31	11	18	A-6a
	5.0-11.0	7	5	10	37	41	34	13	18	A-6a
	11.0-15.0	5	6	9	36	44	28	8	13	A-4a
	15.0-18.0	5	11	14	39	31	22	5	11	A-4a
	18.0-25.0	7	10	20	31	32	24	8	10	A-4a
504+80 CL	0.0-5.0	2	7	11	43	37	28	8	18	A-4a
	5.0-10.0	5	8	10	39	38	28	11	15	A-6a
508+00 CL	0.8-5.0	5	7	16	39	33	29	11	20	A-6a
	5.0-8.0	3	5	18	48	26	23	5	18	A-4a
513+00 CL	0.8-4.0	0	8	14	42	42	33	13	24	A-6a
	4.0-8.0	9	7	11	38	35	29	8	26	A-4a
517+00 CL	0.8-4.0	17	7	22	34	20	26	7	20	A-4a
	4.0-6.0	4	8	21	29	38	29	8	17	A-4a
520+80 CL	0.9-3.0	0	6	25	48	28	35	14	28	A-6a
	3.0-6.0	22	5	10	39	24	24	7	30	A-4a
	6.0-9.0	7	16	61	12	4	NP	NP	23	A-3a
	9.0-12.0	2	4	71	14	9	NP	NP	22	A-3a
524+00 CL	0.8-3.0	7	16	61	12	4	NP	NP	23	A-3a
	3.0-5.0	2	4	71	14	9	NP	NP	22	A-3a
527+00 CL	0.9-4.0	9	16	51	15	9	NP	NP	18	A-3a
	4.0-7.0	15	20	56	7	2	NP	NP	28	A-3a
530+00 CL	0.9-4.0	0	4	70	9	17	NP	NP	27	A-3a
	7.0-8.0	0	4	70	9	17	NP	NP	27	A-3a
532+00 CL	0.9-2.0	0	3	68	19	10	NP	NP	23	A-3a
	2.0-4.0	10	22	31	23	14	NP	NP	21	A-4a
	4.0-6.0	7	9	61	19	4	NP	NP	22	A-3a
	6.0-8.0	0	4	64	29	3	NP	NP	21	A-3a
534+00 CL	0.9-2.0	1	6	54	25	14	NP	NP	23	A-4a
	2.0-4.0	0	5	39	30	26	30	14	24	A-6a
	4.0-5.0	0	6	56	22	16	21	7	23	A-4a
	5.0-6.0	0	28	56	13	3	NP	NP	25	A-3a
	6.0-8.0	3	6	17	37	37	24	6	25	A-4a
534+00 CL	0.9-2.0	0	6	48	27	17	NP	NP	21	A-4a
	2.0-4.0	0	8	36	29	27	33	15	28	A-6a
	4.0-6.0	0	2	61	31	6	NP	NP	19	A-4a
	6.0-8.0	3	7	16	42	32	22	6	17	A-4a
535+85 CL	0.9-4.0	3	4	33	35	25	26	6	22	A-4a
	4.0-10.0	20	6	10	34	30	23	4	22	A-4a
539+00 CL	0.9-4.0	1	2	69	20	8	NP	NP	27	A-3a
	4.0-6.0	3	2	76	15	4	NP	NP	35	A-3a
	6.0-8.0	3	4	16	31	46	23	5	20	A-4a
542+00 CL	0.9-2.0	15	33	31	16	5	NP	NP	13	A-3a
	2.0-6.0	8	21	49	15	7	NP	NP	18	A-3a
	6.0-9.0	2	6	71	14	7	NP	NP	21	A-3a
	9.0-18.0	0	7	56	28	9	NP	NP	18	A-4a
545+50 CL	100-150	0	7	12	42	3	24	8	14	A-4a
	0.8-3.0	1	9	42	31	17	20	4	16	A-4a
	3.0-6.0	1	7	55	20	17	NP	NP	21	A-4a
	6.0-8.0	2	6	74	14	4	NP	NP	40	A-3a
	8.0-10.0	0	1	80	15	4	NP	NP	25	A-3a
10.0-12.0	7	8	15	40	30	20	6	22	A-4a	
548+00 50' LT	0.8-3.0	2	9	38	31	20	24	6	21	A-4a
	3.0-6.0	2	11	51	9	27	NP	NP	24	A-4a
	6.0-10.0	0	2	73	21	4	NP	NP	23	A-3a
	10.0-12.0	7	8	16	38	31	22	8	14	A-4a
551+00 CL	0.8-3.0	9	11	50	20	10	NP	NP	17	A-3a
	3.0-5.0	3	7	38	24	8	NP	NP	28	A-3a
	5.0-9.0	0	1	84	14	1	NP	NP	27	A-3a
	9.0-12.0	0	3	6	29	62	35	13	22	A-6a
554+00 CL	0.9-4.0	2	2	46	27	23	25	5	25	A-4a
	4.0-6.0	0	1	78	14	7	NP	NP	30	A-3a
	6.0-8.0	0	1	81	14	4	NP	NP	21	A-3a