

TORY TEST ON BORING

STATION - THANH DA

BORING No : UT - 01

#200		Natural water content w (%)	Unit weight		Specific gravity Gs	Porosity n (%)	Void ratio e _o	Degree saturation S (%)	Atterberg limit			Liquidity index B	Unconfined compression q _u (Kg/cm ²)	Consolidation			REMARK		
0.075	0.005		Natural γ (g/cm ³)	Dry γ _d (g/cm ³)					Liquid limit LL (%)	Plastic limit PL (%)	Plastic index PI (%)			Compression index Cc	Coefficient of consolidation Cv (cm ² /s)	Preconsolidation pressure Pc (Kg/cm ²)		Coefficient of volume compressibility m _v (cm ² /g)	Coefficient of permeability k ₂₀ (cm/s)
(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)
95.2	53.8	105.36	1.379	0.672	2.573	0.74	2.832	95.7	96.3	48.4	47.9	1.19	0.094	1.1825	1.52E-04	0.432	1.45E-04	2.06E-08	
94.9	55.3	101.69	1.387	0.688	2.598	0.74	2.778	95.1											
96.7	59.3	103.21	1.381	0.680	2.575	0.74	2.789	95.3	94.6	46.2	48.4	1.18	0.098						
94.8	60.2	99.97	1.419	0.710	2.597	0.73	2.660	97.6											
95.6	62.5	105.59	1.420	0.691	2.566	0.73	2.715	99.8	94.1	48.7	45.4	1.25	0.089	1.1811	1.62E-04	0.495	1.45E-04	2.21E-08	
96.8	65.7	104.37	1.429	0.699	2.594	0.73	2.710	99.9											
97.9	69.2	105.16	1.401	0.683	2.577	0.74	2.774	97.7	96.2	49.2	47.0	1.19	0.129						
96.9	68.2	98.27	1.423	0.718	2.569	0.72	2.579	97.9											
97.3	67.3	90.03	1.418	0.746	2.586	0.71	2.466	94.4	88.2	46.4	41.8	1.04	0.097	1.2733	2.31E-04	1.059	8.07E-05	1.79E-08	
94.2	68.7	73.29	1.537	0.887	2.634	0.66	1.970	98.0											
93.6	67.8	67.19	1.541	0.922	2.605	0.65	1.826	95.8	56.2	32.4	23.8	1.46							
94.7	75.3	92.79	1.374	0.713	2.592	0.73	2.637	91.2	88.4	45.6	42.8	1.10	0.115						
93.7	72.4	72.98	1.458	0.843	2.603	0.68	2.088	91.0											
97.1	73.3	65.50	1.493	0.902	2.599	0.65	1.881	90.5	53.2	30.4	22.8	1.54							
96.9	75.7	68.44	1.489	0.884	2.599	0.66	1.940	91.7											
97.4	79.5	71.12	1.496	0.874	2.605	0.66	1.980	93.6	60.2	32.7	27.5	1.40	0.21	0.9126	2.01E-04	0.781	1.18E-04	2.23E-08	
35.3	20.5	23.73	1.949	1.575	2.653	0.41	0.684	92.0	21.6	14.1	7.5	1.28	0.111						
38.6	22.8	20.96	1.946	1.609	2.660	0.40	0.653	85.3	20.8	13.1	7.7	1.02							
68.6	30.8	15.90	2.170	1.872	2.682	0.30	0.432	98.6	26.9	16.3	10.6	-0.04							
84.6	53.5	20.46	1.961	1.628	2.697	0.40	0.657	84.0	36.7	24.0	12.7	-0.28							
57.4	36.4	22.92	1.968	1.601	2.691	0.41	0.681	90.6	33.4	20.0	13.4	0.22							
76.4	45.1	20.57	1.956	1.622	2.695	0.40	0.661	83.8	40.4	19.5	20.9	0.05							

SUMMARY OF LABORATORY TEST ON BORING

DRAINAGE PUMP STATION - THANH DA

Scale (m)	Boring number	Sample number	Depth (m)	Symbol	Soil class.	SAMPLE DESCRIPTION	SPT (N)	SIEVE ANALYSIS, % PASSING												Natural water content w (%)	Unit weight		Specific gravity G _s	Porosity n (%)	Void ratio e _o	Degree saturation C _v (%)		
								Inch											Natural γ (g/cm ³)		Dry γ _d (g/cm ³)							
								3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200	0.005										
								19	12.5	9.5	4.75	2.36	1.18	0.6	0.3	0.15	0.075											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)			
1	UT-02						1																					
2		02-1-0	1.6 - 2.0		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	1										100	94.9	60.2	90.21	1.387	0.729	2.598	0.72	2.563	91.		
3							0																					
4		02-1	3.5-4.1		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	96.5	58.4	85.04	1.366	0.738	2.583	0.71	2.499	87.		
5							0																					
6		02-1-1	5.6 - 6.0		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	93.9	70.2	86.91	1.428	0.764	2.598	0.71	2.401	94.		
7							0																					
8		02-2	7.5-8.1		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	95.7	69.6	87.72	1.471	0.784	2.581	0.70	2.294	98.		
9							0																					
10		02-2-1	9.6 - 10.0		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	96.1	65.3	85.69	1.427	0.768	2.591	0.70	2.372	93.		
11							0																					
12		02-3	11.5-12.1		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	95.5	62.5	89.29	1.395	0.737	2.584	0.71	2.506	92.		
13							0																					
14		02-3-1	13.6 - 14.0		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	97.2	68.1	88.92	1.429	0.756	2.593	0.71	2.428	95.		
15							0																					
16		02-4	15.5-16.1		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	98.8	80.7	91.37	1.455	0.760	2.579	0.71	2.392	98.		
17							0																					
18		02-4-1	17.6 - 18.0		OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0										100	97.8	75.7	86.94	1.461	0.782	2.604	0.70	2.332	97.		
19							0																					
20		02-5	19.5-20.1		SMSC	Loose, greenish grey SILTY, CLAYEY SAND.	2					100	97.1	94.3	79.4	39.2	29.3	19.5	19.81	2.080	1.736	2.664	0.35	0.534	98.			
21							4																					
22		02-5-1	21.6 - 22.0		SMSC	Loose, greenish grey SILTY, CLAYEY SAND.	4					100	96.8	93.7	76.8	40.2	28.4	16.9	20.21	2.051	1.706	2.663	0.36	0.561	96.			
23							10																					
24		02-6	23.5-24.1		CL	Stiff, low plasticity, greenish grey CLAY with SAND.	11					100	99.5	94.5	86.2	76.4	70.6	51.7	21.40	1.959	1.614	2.692	0.40	0.668	86.			
25							13																					
26		02-6-1	25.6 - 26.0		CL	Stiff, low plasticity, greenish grey CLAY with SAND.	15					100	98.3	96.9	85.7	78.2	71.3	53.8	20.91	1.964	1.624	2.695	0.40	0.659	85.			
27							18																					
28		02-7	27.5-28.1		CL	Stiff, low plasticity, greenish grey CLAY with SAND.	20					100	99.4	96.9	89.7	80.2	72.0	50.8	21.35	1.950	1.607	2.694	0.40	0.676	85.			
29							22																					
30		02-7-1	29.6 - 30.0		CL	Very stiff, low plasticity, brownish grey CLAY with SAND.	24					100	96.8	95.1	86.7	79.2	71.9	52.3	22.19	1.961	1.605	2.697	0.40	0.681	87.			