LABORATORY TEST ON BORING

DRAINAGE PUMP STATION

ING				itent	Unit v	veight	2			ы	A	tterberg l	mit	~				- Consolidatio	n	
#50	# <u>50</u> #100 #200			Natural water content w (%)	Natural Y (g/cm ³)	Dry Ya (g/cm ³)	Specific gravity Gs	Porosity n (%)	Void ratio e _o	ee saturation S (%)	Liquid limit LL (%)	Plastic limit PL (%)	Plastic index PI (%)	Liquidity index B	Unconfined compression q. (Kg/cm ²)	Compression index Cc	Coefficient of consolidation Cv (cm ² /s)	Preconsolidation pressure Pc (Kg/cm ²)	Coefficient of volume compressibility	
0.3	0.15	0.075	0.005	Natural	Y (0 %	Spe		Ŋ	Degree S	Liqui	Plast	Plastic	Liqu	Unc.	Compres index	Coeff consc Cv	Precon pre	Coeff vo compr	
(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(?4)	(25)	(26)	(27)	(29)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	
	100	.95.3	48.2	80.19	1.501	0.833	2.601	0.68	2.122	98.3										
	100	98.3	46.7	79.52	1.519	0.846	2.594	0.67	2.066	99.9	70.7	35.3	35.4	1.25	0.111	0.8807	1.89E-04	0.20	1 505 04	
•••••••	100	97.2	30.8	60.41	1.561	0.973	2.617	0.63	1.689	93.6		33.5	33.1	1.25	0.111	0.8807	1.0912-04	0.38	1.50E-04	
	100	96.0	27.9	52.56	1.506	0.987	2.604	0.62	1.638	83.6	65	35.2	29.8	0.58	0.118					
100	95.7	90.1	40.1	70.12	1.462	0.859	2.593	0.67	2.017	90.1										
97.8	94.4	89.8	39.3	87.53	1.455	0.776	2.587	0.70	2.334	97.0	78.4	44.3	34.1	1.27	0.189	1.0943	2.68E-04	0.977	1.61E-04	
80.2	80.2	76.2	40.3	82.94	1.497	0.818	2.591	0.68	2.166	99.2						1				
79.1	76.9	75.9	49.5	78.38	1.509	0.846	2.583	0.67	2.053	98.6	77.8	36.4	41.4	1.01	0.155					
	100	98.5	62.4	85.38	1.475	0.796	2.581	0.69	2.244	98.2	89.4	49.2	40.2	0.90	0.382	1.1616	3.15E-04	0.695	9.65E-05	
100	99.2	93.1	59.7	81.69	1.499	0.825	2.601	0.68	2.153	98.7										
76.8	66.2	61.3	49.0	84.87	1.486	0.804	2.582	0.69	2.212	99.1	70.1	40.8.	29.3	1.50	**					
	100	94.6	60.2	84.36	1.478	0.802	2.586	0.59	2.226	98.0	103.7	58.2	45.5	0.57	**					
	100	95.3	70.2	80.14	1.498	0.832	2.597	0.68	2.123	98.0								*****		
	100	96.1	76.6	76.75	1.483	0.839	2.601	0.68	2.100	95.1	96.0	46.6	49.4	0.61						
87.8	79.8	76.0	59.5	66.53	1.500	0.901	2.612	0.66	1.900	91.5	76.4	44.0	32.4	0.70	0.382	0.8823	2.06E-04	0.776	1.17E-04	
91.3	80.4	71.6	50.2	60.22	1.559	0.973	2.609	0.63	1.681	93.4						0.0025	2.002-04	0.770	1.176-04	
96.94	87.3	68.1	40.1	48.63	1.647	1.108	2.630	0.58	1.373	93.1	69.1	38.5	30.6	0.33						
96.9	93.4	68.7	42.5	45.83	1.695	1.162	2.628	0.56	1.261	95.5	68.5	38.9	29.6	0.23						
97.7	90.3	68.9	43.6	50.49	1.401	0.931	2.635	0.65	1.830	72.7	63.7	35.4	28.3	0.53						
98.2	92.1	81.1	44.2	47.95	1.610	1.088	2.645	0.59	1.431	88.7	92.0	48.1	43.9	0.00						
96.5	92.7	74.6	44.7	54.41	1.590	1.030	2.637	0.61	1.561	91.9	75.3	43.0	32.3	0.35						
94.2	87.3	65.6	40.0	51.11	1.526	1.010	2.640	0.62	1.614	83.6	74.6	43.2	43.2	0.18						

BORING

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No :	UB(1) - 01	
	(1) - UI	1
compressionity mv (cm²/g)	Coefficient of permeability k ₂₀ (cm/s)	REMARK
	(36)	(37)
		** Very soft cohesive fine-
		grained soil can not carry
04	2.69E-08	out unconfined compression
04	5.34E-08	
05	2.52E-08	
04	2.25E-08	

											S	UMI	MAR	Y OF	F LAI	3ORA	ATO		EST O	N BOR	ING
			1	1		T	-1	T								DRAI	NAGE	PUMP S	STATION		
Scale (m) Boring number	Der	ber									SIE	/E ANA	LYSIS ,	% PAS	SING				content	Unit weight	
	umb	number	Depth (m)	Symbol	class.	SAMPLE DECRIPTION	SPT (N)	3/4"				Inch #8					#200	1	water c w (%)	- Ê	15
Scale	guing	Sample	Depth	Syr	Soil c	SAMILE DECKITION		3/4	1/2"	3/8"	3/8 #4		#6 #10 mm		1 420	1 100	1200	1	al wa	Natural / (g/cm ³)	Dry Ye (o/crn ³)
	Bo	Sai						19	12.5	9.5	4.75	2.36	1.18	0.6	0.3	0.15	0.075	0.005	Natural	× N	2
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	'(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1	UB(1)-02	2		11																	
2		02-1-0	1.6 - 2.0	11	0[]	Very soft, high plasticity blackish grey ORGANIC CLAY.	()									100	97.2	65.2	101.23	1.412	0.702
3				11			0														
4		02-1	3.5-4.1	11	0[]	Very soft, high plasticity blackish grey ORGANIC CLAY.	0									100	98.1	62.2	104.32	1.404	0.687
5				Vi			0			<u> </u>											
6		02-1-1	5.6 - 6.0	11	OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0			ļ	[100	96.8	63.2	99,23	1.421	0.713
7				11			0			<u> </u>											
8		02-2	7.5-8.1	11	OH	Very soft, high plasticity blackish grey ORGANIC CLAY.	0									100	98.9	62.8	95.29	1.442	0.733
9				1			0														
10		02-2-1	9.6 - 10.0	1	ОН	Very soft, high plasticity blackish grey ORGANIC CLAY.	0									100	94.8	65.3	94.89	1,438	0,733
11	-			1/1			0														
12		02-3	11.5-12.1	1/	OH,	Very soft; high plasticity blackish grey ORGANIC CLAY.	0									. 100	98.9	64.3	87.74	1.468	0.782
13				11			0														
14		02-3-1	13.6 - 14.0	11/	ОН	Very soft, high plasticity blackish grey ORGANIC CLAY.	0									100	95.9	66.2	83.92	1.471	0.800
15				54			0														
16		02-4	15.5-16.1	11	ОН	Very soft, high plasticity blackish grey ORGANIC CLAY.	0									100	98.2	55.9	52.19	1.438	0.945
J7				11			0														
18		02-4-1	17.6 - 18.0	Vi	ОН	Very soft, high plasticity blackish grey ORGANIC CLAY.	0									100	97.2	60.2	53.20	1.467	0.958
19				Vi			2														
20		02-5	19.5-20.1	11	ОН	Soft, high plasticity blackish grey SANDY ORGANIC CLAY.	2					100	98.4	97.2	94.8	86.2	65.2	31.4	48.00	1.661	1.122
21				11			2														
22		02-5-1	21.6 - 22.0	Vi	OH	Soft, high plasticity blackish grey SANDY ORGANIC CLAY.	2					100	97.3	96.1	92.8	84.8	66.2	32.7	50.12	1.621	1.080
23				1/1			2							•							
24		02-6	23.5-24.1	1/1	ОН	Soft, high plasticity blackish grey SANDY ORGANIC CLAY.	2					100	99.1	98.8	98	90.4	67.3	28.3	38.58	1.598	1.153
25				1/			2		1												
26		02-6-1	25.6 - 26.0		CL	Soft, low plasticity blackish grey SANDY CLAY.	3					100	97.8	96.1	94.2	89.2	55.2	29.4	34.57	1.436	1.067
27							3						••••••								
28		02-7	27.5-28.1		CL	Soft, low plasticity blackish grey SANDY CLAY.	3					100	99.5	99.0	98.I	90.3	54.3	28.2	33.75	1.388	1.038
29							3														
30		02-7-1	29.6 - 30.0		CL	Soft, low plasticity blackish grey SANDY CLAY.	3		-			100	98.7	97.6	96.2	88.6	56,1	29.8	36.84	1.426	1.042

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