AVERAGE VALUE OF PHYSICO - MECHANICAL PROPERTIES Layer 4b: Medium dense, brownish grey well graded SAND with SILT (SW-SM).

Table: 5d

No	Property	Sign	Average value.	Maximum value	Minimum value	Number of test	
1	Sieve Analisis, % Passing						
	3/4" (19 mm)						
	1/2" (12.5 mm)						
	3/8" (9.5 mm)						
	#4 (4.75 mm)						
	#8 (2.36 mm)			100.0	100.0	100.0	3
**********	#16 (1.18 mm)			77.9	89.8	70.2	3
	#30 (0.6 mm)			45.2	70.2	32.1	3
	#50 (0.3 nm)	•••••		17.7	27.1	12.6	3
	#100 (0.15 mm)	***************************************	,	10.1	10.4	9.7	3
*********	#200. (0.075 mm)			8.1	9.1	7.1	3
	< 0.005 mm			3.5	4.2	2.7	3
2	Natural moisture content	(%)	w	16.35	17.21	15.33	3
3	Natural unit weight	(g/cm ³)	γ	1.871	1.979	1.779	3
4	Dry unit weight	(g/cm³)	γ_d	1.608	1.688	1.543	3
5	Specific gravity	,	Gs	2.645	2.656	2.637	3
6	Porosity		n	0.39	0.42	0.36	3
7	Void ratio		e _o	0.647	0.710	0.565	3
8	Degree saturation	(%)	S	67.7	80.5	57.0	3
9	Liquid limit	(%)	LL				
10	Plastic limit	(%)	LP			·	
11	Plastic index	(%)	PI				
12	Water plasticity ratio	(%)	В			<u> </u>	
13	Unconfined compression	(Kg/cm ²)	qu				
14	Compression index		Сс				
15	Coefficient of consolidation	(cm²/Kg)	Cv				
16	Preconsolidation pressure	(kg/cm ²)	Pc	•			
17	Coefficient of volunm compressibility		Mv				
18	Permeability	(cm/sec)	k20				

AVERAGE VALUE OF PHYSICO - MECHANICAL PROPERTIES Layer 4c: Dense, whitish grey poorly graded SAND with SILT (SP-SM).

Table: 6d

No	Property		Sign	Average value.	Maximum value	Minimum value	Number of test
1	Sieve Analisis, % Passing						
*********	3/4" (19 mm)						
	1/2" (12.5 mm)						
	3/8" (9.5 mm)					.,	
	#4 (4.75 mm)						
	#8 (2.36 mm)			100.0			
	#16 (1.18 mm)			94.7			
	#30 (0.6 mm)			60.6			
	#50 (0.3 mm)			21.0			
	#100 (0.15 mm)			12.3			
********	#200 (0.075 mm)			10.9			
	< 0.005 mm			7.3			
2	Natural moisture content	(%)	w	14.87			
3	Natural unit weight	(g/cm ³)	γ	1.844			
4	Dry unit weight	(g/cm ³)	γa	1.605		·	
5	Specific gravity		Gs	2.648			
6	Porosity		n	0.39			
7	Void ratio		e _o	0.650			
8	Degree saturation	(%)	S	60.6			
9	Liquid limit	(%)	LL				
10	Plastic limit	(%)	LP				
11	Plastic index	(%)	PI				
12	Water plasticity ratio	(%)	В				
13	Unconfined compression	(Kg/cm ²)	qu				
14	Compression index	***************************************	Сс				
15		(cm ² /Kg)	Cv				
16	Preconsolidation pressure	(kg/cm²)	Pc				
17	Coefficient of volunm compressibil						
18		(cm/sec)	k20				

2. BORING LOGS

		FEAS	SIBILITY	STUC	Y ON URE	BAN DRAINAGI	E AND SEWERAGE	BC	RI	10	βL	O	G	: [JB	(2)-()1
DEVELOPMENT FOR HOCHIMINH CITY					BORING LOG: UB(2)-01 sheet 1 of 01													
SOIL INVESTIGATION PROGRAM					SHEEL I OI OI													
Station : Drainage Pump Station																		
Date commenced: 5th July 1999						Dept	Depth (m) : 30.0											
Date completed : 5th July 1999						Elevation (m) : 1.15												
Logged by : Hoang Tuan minh						Boring Type : AG - 30 Underground water level (m): -1.0												
Ch	ecke	d by	:		Pham V	an Manh		Unde	rgroui	nd v	ater	leve	el (n	1):	-1.0			
Stratum No Depth (m)		Depth (m)		Thickness (m)	LOG		SOIL DESCRIPTION		STANDARD PENETRATION TEST									
Strai	(den	leva lickr		1/100				Depth (m) N		Blows/15cm			0 10 20 30 40				
0,				=				From	То		15	15	15	0	10	20	30	40
	0		1.15	-	*******		C. Junada i Varri goft	blook							1		<u> </u>	
1		0.6	0.85	0.6	>>>		Ground made: Very soft, ish grey SANDY CLAY.		0.95	0	0	0	0					
	1				1//		Isli gicy SAIVET CERT.	_ 0.50	0.75	Ū						******		
	2				[//	UB(2)-01-1		1.50	1.95	0	0	0	0					
					1/1	2.0 - 2.6									<u></u>		ļ	
	3				1/1/	UB(2)-01-1-	<u>1</u>	2.60	3.05	0	0	0	0	·			ļ	
					1/1/	3.1 - 3.5							•	ļ	ļ		ļ	
	4				1//1	UB(2)-01-2	2-70	3.50	3.95	0	0	0	0	ļ			<u> </u>	
					1//	4.0 - 4.6		4.60	5.05	0	0	0	0		-		1	
	5				1/	<u>ŪB(2)-01-2-</u> 5.1 - 5.5	<u> </u>	4.00	3.03	U	0	U	U					
	6				1//	UB(2)-01-3		5.50	5.95	0	0	0	0	-				
	Ü				1/1/	6.0 - 6.6												
	7				1/1/	UB(2)-01-3-	<u>1</u>	6.60	7.05	0	0	0	0				ļ	
					1/2	7.1 - 7.5							,				ļ	
2	8				(1)		Very soft, high plasticity	7.50	7.95	0	0	0	0		.i		ļ	
					1/1	8.0 - 8.6	blackish grey ORGANIC										ļ	
	.9				1/1		CLAY.	8.60	9.05	0	0	0	0	-			ļ	-
					1/1/			9.50	9.95	0	0	0	0	-			 	
	10				1/1	UB(2)-01-5		9.30	9.93	0	1	0	0	-			 	
	,,				1//1	10.0 - 10.6	•	10.60	11.05	0	0	0	0					
	11				1//	<u>ÜB(2)-01-5-</u> 11.1 - 11.5		10.00	11.00									
1	12			1	1//	UB(2)-01-6		11.50	11.95	0	0	0	0	•			-	
	12				1/1/	12.0 - 12.6												
	13				1/1	UB(2)-01-6-	•	12.60	13.05	0	0	0	0	-				
					1//1	13.1 - 13.5	1											
	14				(1/.	UB(2)-01-7		13.50	13.95	0	0	0	0	-		ļ		
					1/1	14.0 - 14.6											ļ	
	15				1/1/			14.60	15.05	0	0	0	0	1				