

AVERAGE VALUE OF PHYSICO - MECHANICAL PROPERTIES  
Layer 3a : Medium dense, light yellow, brown CLAYEY SAND (SC)

Table : 3b

No	Property	Sign	Average value.	Maximum value	Minimum value	Number of test
1	Sieve Analysis, % 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	4
	#16 (1.18 mm)		90.1	98.5	85.3	4
	#30 (0.6 mm)		84.9	97.1	76.0	4
	#50 (0.3 mm)		66.3	80.4	52.5	4
	#100 (0.15 mm)		35.9	38.0	34.8	4
	#200 (0.075 mm)		27.9	31.0	25.7	4
	< 0.005 mm		13.1	14.4	12.1	4
2	Natural moisture content (%)	w	20.34	22.17	12.28	4
3	Natural unit weight (g/cm <sup>3</sup> )	γ	1.883	1.938	1.850	4
4	Dry unit weight (g/cm <sup>3</sup> )	γ <sub>d</sub>	1.565	1.615	1.531	4
5	Specific gravity	G <sub>s</sub>	2.662	2.669	2.658	4
6	Porosity	n	0.41	0.42	0.39	4
7	Void ratio	e <sub>o</sub>	0.702	0.738	0.645	4
8	Degree saturation (%)	S	77.2	82.2	69.4	4
9	Liquid limit (%)	LL	23.6	24.0	22.9	3
10	Plastic limit (%)	LP	16.9	16.4	15.9	3
11	Plastic index (%)	PI	7.4	7.6	7.2	3
12	Water plasticity ratio (%)	B	0.49	0.73	0.25	3
13	Unconfined compression (Kg/cm <sup>2</sup> )	qu				
14	Compression index	Cc				
15	Coefficient of consolidation (cm <sup>2</sup> /Kg)	Cv				
16	Preconsolidation pressure (kg/cm <sup>2</sup> )	Pc				
17	Coefficient of volumm compressibility (cm <sup>2</sup> /g)	Mv				
18	Permeability (cm/sec)	k <sub>20</sub>				

AVERAGE VALUE OF PHYSICO - MECHANICAL PROPERTIES  
Layer 3b : Medium dense, yellowish, greenish grey SILTY CLAY (SM)

Table : 4b

No	Property	Sign	Average value.	Maximum value	Minimum value	Number of test
1	Sieve Analysis, % 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	6
	#16 (1.18 mm)		96.8	99.6	93.4	6
	#30 (0.6 mm)		95.4	99.2	88.6	6
	#50 (0.3 mm)		87.8	94.8	79.5	6
	#100 (0.15 mm)		31.9	41.8	26.5	6
	#200 (0.075 mm)		21.4	22.8	19.2	6
	< 0.005 mm		7.1	8.8	4.1	6
2	Natural moisture content (%)	w	22.58	24.92	21.75	6
3	Natural unit weight (g/cm <sup>3</sup> )	γ	1.897	1.934	1.851	6
4	Dry unit weight (g/cm <sup>3</sup> )	γ <sub>d</sub>	1.547	1.583	1.515	6
5	Specific gravity	G <sub>s</sub>	2.653	2.661	2.646	6
6	Porosity	n	0.42	0.43	0.41	6
7	Void ratio	e <sub>o</sub>	0.725	0.748	0.681	6
8	Degree saturation (%)	S	83.8	89.0	78.6	6
9	Liquid limit (%)	LL				
10	Plastic limit (%)	LP				
11	Plastic index (%)	PI				
12	Water plasticity ratio (%)	B				
13	Unconfined compression (Kg/cm <sup>2</sup> )	qu				
14	Compression index	Cc				
15	Coefficient of consolidation (cm <sup>2</sup> /Kg)	Cv				
16	Preconsolidation pressure (kg/cm <sup>2</sup> )	Pc				
17	Coefficient of volumm compressibility (cm <sup>2</sup> /g)	Mv				
18	Permeability (cm/sec)	k <sub>20</sub>				



## 2. BORING LOGS

FEASIBILITY STUDY ON URBAN DRAINAGE AND SEWERAGE DEVELOPMENT FOR HOCHIMINH CITY SOIL INVESTIGATION PROGRAM						BORING LOG : UV- 01 sheet 1 of 1													
Station : Drainage Pump Station																			
Date commenced : 1st Aug 1999						Depth (m) : 30.0													
Date completed : 2nd Aug 1999						Elevation (m) : 1.74													
Logged by : Hoang Tuan Minh						Boring Type : AG - 30													
Checked by : Pham Van Manh						Underground water level (m) : -1.2													
Stratum No	Depth (m)	Elevation (m)	Thickness (m)	LOG 1/100	SOIL DESCRIPTION	STANDARD PENETRATION TEST													
						Depth (m)		N	Blows/15cm			N							
						From	To		15	15	15		0	10	20	30	40		
	0	1.74			Ground made : Reddish brown														
1	0.5	1.24	0.5		sandy clay with cobbles of stone and brick.	0.50	0.95	1	1	0.5	0.5								
1				UV-01-1															
				1.0 - 1.6															
2				UV-01-1-1		1.60	2.05	0	0	0	0								
				2.1 - 2.5															
3				UV-01-2		2.50	2.95	0	0	0	0								
				3.0 - 3.6															
4				UV-01-2-1		3.60	4.05	0	0	0	0								
				4.1 - 4.5															
5				UV-01-3		4.50	4.95	0	0	0	0								
				5.0 - 5.6															
6				UV-01-3-1		5.60	6.05	0	0	0	0								
				6.1 - 6.5															
7				UV-01-4		6.50	6.95	0	0	0	0								
				7.0 - 7.6															
2				OH															
8				UV-01-4-1	Very soft, high plasticity, blackish grey ORGANIC CLAY.	7.60	8.05	0	0	0	0								
				8.1 - 8.5															
9				UV-01-5		8.50	8.95	0	0	0	0								
				9.0 - 9.6															
10				UV-01-5-1		9.60	10.05	0	0	0	0								
				10.1 - 10.5															
11				UV-01-6		10.50	10.95	0	0	0	0								
				11.0 - 11.6															
12						11.60	12.05	0	0	0	0								
13				UV-01-7		12.50	12.95	0	0	0	0								
				13.0 - 13.6															
14				UV-01-7-1		13.60	14.05	0	0	0	0								
				14.1 - 14.5															
15						14.50	14.95	0	0	0	0								