AVERAGE VALUE OF PHYSICA - MECHANICAL PROPERTIES

Layer 3a : Soft, low plasticity, blackish grey SANDY CLAY (CL)

Table : 3b

No	Properties		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)						
	#16 (1.18 mm)			100.0			1
	#30 (0.6 mm)			99.8			1
	#50 (0.3 mm)			99.3			1
	#100 (0.15 mm)			98.5			1
	#200 (0.075 mm)			96.6			1
	< 0.005 mm			50.2			1
2	Natural moisture content	(%)	w	19.94			1
3	Natural unit weight	(g/cm^3)	γ	1.647			1
4	Dry unit weight	(g/cm^3)	γ_d	1.373			1
5	Specific gravity		Gs	2.720			1
6	Porosity		n	0.500			1
7	Void ratio		e_o	0.981			1
8	Degree saturation	(%)	S	55.30			1
9	Liquid limit	(%)	LL	36.3			1
10	Plastic limit	(%)	LP	18.1			1
11	Plastic index	(%)	PI	18.2			1
12	Water plasticity ratio	(%)	B	0.10			1
13	Unconfined compression	(Kg/cm^2)	qu				
14	Compression index	(cm^2/kg)	Cc				
15	Coefficient of consolidation	(cm^2/s	Cv				
16	Preconsolidation pressure	(kg/cm^2)	Pc				
17	Coefficient of volunm compressibility	(cm^2/g)	Mv				
18	Permeability	(cm/sec)	k20				

AVERAGE VALUE OF PHYSICA - MECHANICAL PROPERTIES

Layer 4 : Loose, whitish grey SILTY SAND (SM)

Table : 4b

No	Properties		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	2
	#16 (1.18 mm)			94.0	98.2	89.8	2
	#30 (0.6 mm)			80.5	92.9	68.0	2
	#50 (0.3 mm)			50.4	65.9	34.9	2
	#100 (0.15 mm)			23.9	32.3	15.5	2
	#200 (0.075 mm)			16.4	22.3	10.4	2
	< 0.005 mm			6.7	9.8	3.6	2
2	Natural moisture content	(%)	w	15.74	15.77	15.70	2
3	Natural unit weight	(g/cm^3)	γ	2.051	2.053	2.048	2
4	Dry unit weight	(g/cm^3)	γ_d	1.772	1.774	1.769	2
5	Specific gravity		Gs	2.642	2.647	2.636	2
6	Porosity		n	0.330	0.330	0.330	2
7	Void ratio		e_o	0.491	0.492	0.490	2
8	Degree saturation	(%)	S	84.70	84.80	84.50	2
9	Liquid limit	(%)	LL	20.2			1
10	Plastic limit	(%)	LP	17.9			1
11	Plastic index	(%)	PI	2.3			1
12	Water plasticity ratio	(%)	B	-0.93			1
13	Unconfined compression	(Kg/cm^2)	qu				
14	Compression index	(cm^2/kg)	Cc				
15	Coefficient of consolidation	(cm^2/s)	Cv				
16	Preconsolidation pressure	(kg/cm^2)	Pc				
17	Coefficient of volunm compressibility	(cm^2/g)	Mv				
18	Permeability	(cm/sec)	k20				

AVERAGE VALUE OF PHYSICA - MECHANICAL PROPERTIES

Layer 4 : Medium dense, reddish yellow CLAYEY SAND (SC)

Table : 5b

No	Properties		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			1
	#16 (1.18 mm)			99.7			1
	#30 (0.6 mm)			96.1			1
	#50 (0.3 mm)			72.7			1
	#100 (0.15 mm)			40.6			1
	#200 (0.075 mm)			35.0			1
	< 0.005 mm			11.2			1
2	Natural moisture content	(%)	w	14.81			1
3	Natural unit weight	(g/cm^3)	γ	2.064			1
4	Dry unit weight	(g/cm^3)	γ_d	1.798			1
5	Specific gravity		Gs	2.704			1

AVERAGE VALUE OF PHYSICA - MECHANICAL PROPERTIES

Layer 5 : Very stiff, low plasticity, reddish yellow SANDY CLAY (CL)

Table : 6b

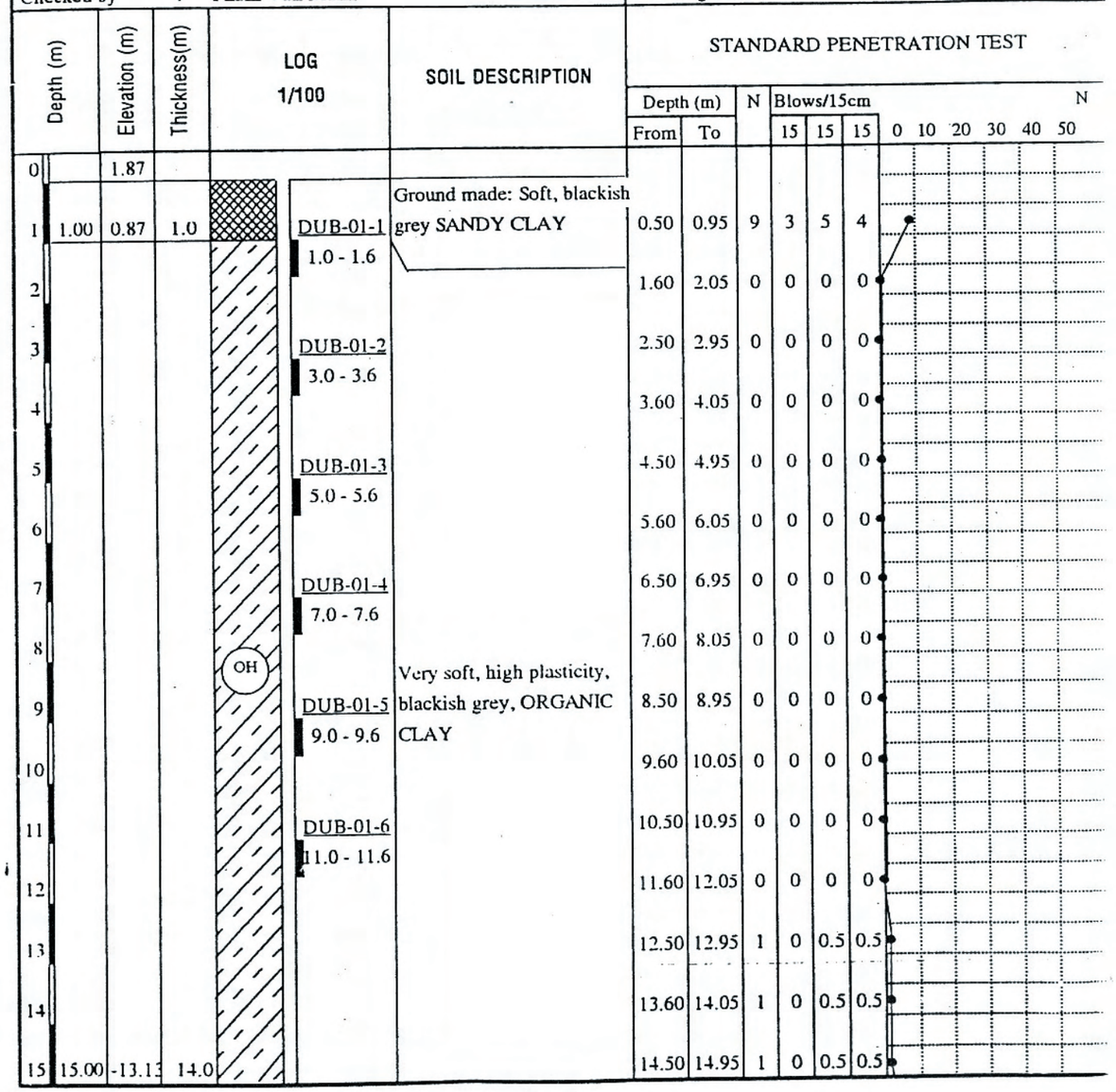
No	Properties		Sign	Average value.	Maximum value	Minimum value	Number of test
1	Sieve Analisis, % Passing						
	3/4" (19 mm)						
	1/2" (12.5 mm)						
	3/8" (9.5 mm)						
	#4 (4.75 mm)						
	#8 (2.36 mm)						
	#16 (1.18 mm)			100.0			1
	#30 (0.6 mm)			99.9			1
	#50 (0.3 mm)			99.0			1
	#100 (0.15 mm)			97.6			1
	#200 (0.075 mm)			89.8			1
	< 0.005 mm			58.2			1
2	Natural moisture content	(%)	w	18.33			1
3	Natural unit weight	(g/cm^3)	γ	2.086			1
4	Dry unit weight	(g/cm^3)	γ_d	1.763			1
5	Specific gravity		Gs	2.696			1

2. BORING LOGS

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
SOIL INVESTIGATION PROGRAM

BORING LOG : DUB- 01
sheet 1 of 1

Station	: Ben Me Coc (1) Drainage Area		
Date commenced	: 7th June 2000	Depth (m)	: 50.0
Date completed	: 8th June 2000	Elevation (m)	: 1.87
Logged by	: Nguyen Xuan Hong	Boring Type	: XJ - 100
Checked by	: Pham Van Manh	Underground water level (m)	: -1.0



STANDARD PENETRATION TEST

Depth (m) From	Depth (m) To	N	Blows/15cm 15	15	15	N
0.50	0.95	9	3	5	4	
1.60	2.05	0	0	0	0	
2.50	2.95	0	0	0	0	
3.60	4.05	0	0	0	0	
4.50	4.95	0	0	0	0	
5.60	6.05	0	0	0	0	
6.50	6.95	0	0	0	0	
7.60	8.05	0	0	0	0	
8.50	8.95	0	0	0	0	
9.60	10.05	0	0	0	0	
10.50	10.95	0	0	0	0	
11.60	12.05	0	0	0	0	
12.50	12.95	1	0	0.5	0.5	
13.60	14.05	1	0	0.5	0.5	
14.50	14.95	1	0	0.5	0.5	

*Note: Underground water level measured from ground surface.