

Summary of Test Results (page 1 of 2)

Land mark
วังสามเสน ดุสิต กทม.

BH-13

Sample No.	Depth (m)		W _n (%)	Atterberg Limits			Sieve Analysis							USCS Group ^a	Soil Strength			Unit Weight (kN/m ³)	SPT-N ^e (Blows/ 300 mm)	
				(%)			% Passing (US Standard Sieve)								(kN/m ²)					
	From	To	LL	PL	PI	1"	3/4"	1/2"	3/8"	#4	#10	#40	#100	#200	P _{uc} ^b	Torvane	S _{uc} ^c			
ST- 1	1.50	2.00	67.6	77.7	24.8	52.9				100	99	97	92		0.0	21.0	21.3	15.6	-	42.121
ST- 2	3.00	3.50	42.8												0.0	18.0	25.0	17.3	-	-14.6
ST- 3	4.50	5.00	70.0	79.0	36.2	42.8						100	99		0.0	20.0	19.6	15.8	-	43.07
ST- 4	6.00	6.50	-				No Recovery												-	-14.6
ST- 5	7.50	8.00	72.1	72.7	30.9	41.8						100	99		0.0	25.0	30.3	16.1	-	38.471
ST- 6	9.00	9.50	71.1												0.0	22.0	19.6	15.8	-	-14.6
ST- 7	12.00	12.50	51.4	41.2	21.9	19.3				100	99	69	59		0.0	30.0	28.5	15.2	-	15.476
SS- 1	13.50	13.95	21.1																12	-14.6
SS- 2	15.00	15.45	23.7	39.8	18.5	21.3		100	99	97	95	94	86						14	14.454
SS- 3	16.00	16.95	33.6															18.8	19	-14.6
SS- 4	18.00	18.45	30.8	59.2	27.1	32.1		100	98	96	95	94	94						26	28.616
SS- 5	19.50	19.95	-				No Recovery												31	-14.6
SS- 6	21.00	21.45	20.5	42.6	19.7	22.9					100	99	94						33	16.498
SS- 7	22.50	22.95	20.0																54	-14.6
SS- 8	24.00	24.45	20.0	45.5	22.3	23.2				100	99	98	94						72	18.615
SS- 9	25.50	25.95	14.5																65	-14.6
SS- 10	27.00	27.45	17.0						100	98	76	45	37						70	-14.6
SS- 11	28.50	28.95	19.4						100	99	79	35	24						78	-14.6
SS- 12	30.00	30.45	-				No Recovery				100	98	81	30	20				95	-14.6
SS- 13	31.50	31.95	23.8	37.2	17.7	19.5				100	95	91	74	71					34	12.556
SS- 14	33.00	33.45	19.0							100	95	74	27	17					63	-14.6
SS- 15	34.50	34.95	18.2								97	90	62	18					65	-14.6
SS- 16	36.00	36.45	17.8							100	98	93	73	44	27				80	-14.6
SS- 17	37.50	37.95	20.4	47.8	18.8	29.0				100	98	96	91	89	87				34	20.294
SS- 18	39.00	39.45	-				No Recovery												45	-14.6

Notes:

^a USCS groups provided in parenthesis are from visual classification

^b P_{uc} = Pocket Penetrometer Resistance

^c S_{uc} = q_u/2; where q_u is Unconfined Compressive Strength from Unconfined Compression Test

^b Unit Weight provided for split spoon samples (SS) are for disturbed samples from SPT tests.

^c If the sampler is driven less than 450 mm, the number of blows per each complete and partial (less than or equal to 150 mm) increments were recorded.

Summary of Test Results (page 2 of 2)

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Land mark
วังสามเสน ดุสิต กทม.

Sample No.	Depth (m)	W _n (%)	Atterberg Limits			Sieve Analysis							USCS Group ^a	Soil Strength		Unit ^d Weight (kN/m ³)	SPT-N ^e (Blows/ 300 mm)	
			(%)			% Passing (US Standard Sieve)								P _{uc} ^b	Torvane S _{uc} ^c			
			LL	PL	PI	1"	3/4"	1/2"	3/8"	#4	#10	#40						#100
SS- 19	40.50	40.95	22.3													-	63	-14.6
SS- 20	42.00	42.45	20.8	49.4	21.1	28.3			100	99	97	96	95			-	70	21.462
SS- 21	43.50	43.95	18.6													-	30	-14.6
SS- 22	45.00	45.45	15.9	38.0	16.1	21.9					100	98	83			20.8	62	13.14
SS- 23	46.50	46.95	23.5	Insufficient Sample						100	99	91	65			-	41	-14.6
SS- 24	48.00	48.45	18.5	Insufficient Sample						100	99	97	86			-	34, 50/150, -	-14.6
SS- 25	49.50	49.95	-				No Recovery									-	39, 50/125, -	-14.6
SS- 26	51.00	51.45	22.0	40.5	22.2	18.3					100	99	98			-	72	14.965
SS- 27	52.50	52.95	20.6	48.5	22.5	26.0						100	99			-	83	20.805
SS- 28	54.00	54.45	-				No Recovery									-	29, 39, 50/150	-14.6
SS- 29	55.50	55.95	22.6	Non Plastic						100	98	66	21	13		-	30, 39, 50/150	-14.6
SS- 30	57.00	57.45	17.9	Non Plastic						100	98	59	24	16		-	28, 42, 50/150	-14.6
SS- 31	58.50	58.95	21.5	Non Plastic						100	97	95	69	15		-	35, 50/150, -	-14.6
SS- 32	60.00	60.45	-				No Recovery									-	50/75, -, -	-14.6

Notes:

- USCS groups provided in parenthesis are from visual classification
- P_{uc} = Pocket Penetrometer Resistance
- S_{uc} = q_u/2; where q_u is Unconfined Compressive Strength from Unconfined Compression Test
- Unit Weight provided for split spoon samples (SS) are for disturbed samples from SPT tests.
- If the sampler is driven less than 450 mm, the number of blows per each complete and partial (less than or equal to 150 mm) increments were recorded.

Borehole Number : BH-13

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Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : วังสามเสน

Latitude (N) : 13.78123

Ground Elevation (m) :

Longitude (E) : 100.50487

G.W.L (m) : 3.00

Date Started : 12/7/2559

Total Depth (m) : 60.45

Date Finished : 14/7/2559

Depth (m)	SAMPLE			SUBSURFACE PROFILE		Atterberg Limits (%) 20 40 60 80	Unit Weight 5 15	Suc (kN/m^2) ▲	
	Symbol	Type	Number	Description	Symbol			SPT-N (Blows/0.3m) □	
								20 40 60 80	20 40 60 80
0				Ground Surface					
1				Fill Material, concrete debris (No Recovery)	0.00				
2				Soft CLAY, grey, high plasticity (CH)	1.00			21.3	
3	■	ST	1					25	
4	■	ST	2					19.6	
5	■	ST	3						
6	■	ST	4	Medium stiff silty CLAY, grey, low and high plasticity (CL, CH)	7.00			30.3	
7	■	ST	5					19.6	
8	■	ST	6						
9	■	ST	7					28.5	
10				Stiff to very stiff silty CLAY, brown, low and high plasticity (CL, CH)	13.00			12	
11	■	SS	1					14	
12	■	SS	2					16	
13	■	SS	3					26	
14	■	SS	4					31	
15	■	SS	5	Very dense silty SAND, brown, fine to medium grained (SM)	19.00			33	
16	■	SS	6					54	
17	■	SS	7					72	
18	■	SS	8					65	
19	■	SS	9					70	
20	■	SS	10					78	
21	■	SS	11						95
22	■	SS	12						
23					31.00				

Thin wall tube

Split spoon

Rock core

Wash

Auger

PL

Wn

LL

Atterberg Limits :

Suc : Undrained shear strength from UC test

Borehole Number : BH-13

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Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : วังสามเสน

Latitude (N) : 13.78123

Ground Elevation (m) :

Longitude (E) : 100.5046

G.W.L (m) : 3.00

Date Started : 12/7/2559

Total Depth (m) : 60.45

Date Finished : 14/7/2559

Depth (m)	SAMPLE			SUBSURFACE PROFILE		Atterberg Limits (%)	Unit Weight	Suc (kN/m^2)	
	Symbol	Type	Number	Description	Symbol			SPT-N (Blows/0.3m)	
								20	40
20	40	60	80						
32	SS	13	Hard CLAY, grey, high plasticity (CH)					34	
33	SS	14	Very dense silty SAND, brown, fine to medium grained (SM)					63	
34	SS	15						65	
35	SS	16						80	
36	SS	17							
37	SS	18							
38	SS	19	Hard silty CLAY, grey and brown, low plasticity (CL)					34	
39	SS	20						45	
40	SS	21						63	
41	SS	22						70	
42	SS	23							
43	SS	24						30	
44	SS	25						62	
45	SS	26						41	
46	SS	27							
47	SS	28							
48	SS	29							
49	SS	30							
50	SS	31							
51	SS	32							
52	SS								
53	SS								
54	SS								
55	SS								
56	SS								
57	SS								
58	SS								
59	SS								
60	SS								
61			End of Borehole						
62									

Thin wall tube

Split spoon

Rock core

Wash

Auger

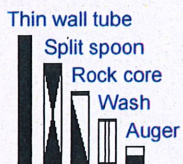
PL

Wn

LL

Atterberg Limits :

Suc : Undrained shear strength from UC test



Atterberg Limits : PL Wn LL

Suc : Undrained shear strength from UC test

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