

Summary of Test Results (page 1 of 2)

BH-14

Land mark

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)
			LL	PL	PI	3/8"	#4	#10	#40	#100	#200	P _{uc} ^b	Torvane	S _{uc} ^c	
ST-1	1.50	2.00				No Recovery									-
ST-2	3.00	3.50	26.4	75.4	33.1	42.3	100	99	95	90	82	87.5	54.0	46.2	17.2
ST-3	4.50	5.00	54.9	63.2	29.5	33.7	100	99	98	98	94	0.0	15.0	11.0	15.0
ST-4	6.00	6.50	56.2	71.7	29.8	41.9	100	99	98	98	95	0.0	18.0	11.0	16.7
ST-5	7.50	8.00					No Recovery								-
ST-6	9.00	9.50	63.2	64.4	24.4	40.0			100	99	98	0.0	18.0	15.0	15.7
ST-7	10.50	11.00	47.6	50.2	24.0	26.2			100	99	97	0.0	20.0	16.3	18.1
ST-8	12.00	12.50	61.0	66.6	30.8	35.8	100	99	98	95	92	0.0	18.0	33.9	17.6
ST-9	13.50	14.00	36.1	41.5	22.0	19.5	####	99	98	86	71	0.0	28.0	26.8	17.3
SS-1	14.00	14.45	34.2												19
SS-2	15.50	15.50	29.4	53.8	27.6	26.2		100	96	93	90				28
SS-3	16.50	16.95	17.7												36
SS-4	18.00	18.45	34.5	67.9	30.6	37.3		100	99	98	97				34
SS-5	19.50	19.95	31.2												26
SS-6	21.00	21.45	21.2	54.3	23.4	30.9		100	99	99	94				35
SS-7	22.50	22.95	34.6												45
SS-8	24.00	24.45	21.7	57.0	24.4	32.6				100	98				54
SS-9	25.50	25.95	17.2												30,50/125,-
SS-10	27.00	27.45	20.5	45.3	21.6	23.7		100	99	97	97			21.1	69
SS-11	28.50	28.95	21.2											20.4	48
SS-12	30.00	30.45	22.5	48.5	21.3	27.2		100	94	90	90			21.3	36
SS-13	31.50	31.95	22.7											20.9	34
SS-14	33.00	33.45	20.4	42.5	19.3	23.2				100	98			-	72
SS-15	34.50	34.95	18.8	Non Plastic			100	95	47	13	10			-	35,50/125,-
SS-16	36.00	36.45	15.4	Non Plastic			100	93	59	19	12			-	38,50/150,-
SS-17	37.50	37.95	20.5	36.4	16.4	20.0		100	98	95	84			-	50/125,-
SS-18	39.00	39.45	23.3											-	29,38,35/125

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

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

^e 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)

Land mark

BH-14

Sample No.	Depth (m)		W _n (%)	Atterberg Limits (%)		Sieve Analysis (% Passing (US Standard Sieve))				USCS Group ^a	Soil Strength (kN/m ²)		Unit ^d Weight (kN/m ³)	SPT-N ^e (Blows/300 mm)
	From	To		LL	PL	PI	3/8"	#4	#10	#40	#100	#200		
SS-19	40.50	40.95	17.3	32.6	15.4	17.2			100	99	82	74		35,50/100, -
SS-20	42.00	42.45	19.7		Non Plastic				100	98	27	20		50/125, -, -
SS-21	43.50	43.95	14.2		Non Plastic				100	99	96	37		74
SS-22	45.00	45.45	14.2		Non Plastic		100	99	86	31	21	17		50/125, -, -
SS-23	46.50	46.95	12.7		Non Plastic				100	97	76	41		40,50/125, -
SS-24	48.00	48.45	15.2		Non Plastic				100	93	54	22		46,50/100, -
SS-25	49.50	49.95	18.0		Non Plastic				100	94	59	20		39,42,28/75
SS-26	51.00	51.45	15.8		Non Plastic				100	99	71	26		31,50/125, -
SS-27	52.50	52.95	23.0		Non Plastic				100	76	73	46		45,50/100, -
SS-28	54.00	54.45	21.6		Non Plastic				100	99	80	16		42,50/125, -
SS-29	55.50	55.95	14.5		Non Plastic		100	99	81	31	11	7		50/125, -, -
SS-30	57.00	57.45	14.6		Non Plastic		100	99	88	48	18	15		55,50/100, -
SS-31	58.50	58.95	23.8		Non Plastic				100	98	14	10		50/125, -, -
SS-32	60.00	60.45	27.6		Non Plastic				100	94	16	12		50/75, -, -

Notes:

^a USCS groups provided in parenthesis are from visual classification

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

^e 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-14

Page 1 of 2

Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : วัดราชธรรมาวาสวรวิหาร

Latitude (N) : 13.77565

Ground Elevation (m) :

Longitude (E) : 100.50215

G.W.L (m) : 1.50

Date Started : 23/5/2559

Total Depth (m) : 60.45

Date Finished : 24/5/2559

Depth	SAMPLE			SUBSURFACE PROFILE		Atterberg Limits (%) 20 40 60 80 100	Unit Weight 5 15	Suc (kN/m ²) ▲ 20 40 60 80 ▲	
	Symbol	Type	Number	Description	Symbol			SPT-N □(Blows/300mm)□ 20 40 60 80	
0				Ground Surface					
1				Fill Material (No Recovery)	0.00				
2	■	ST	1						
3	■	ST	2					46.2	
4				Soft CLAY, grey, high plasticity (CH)	3.34				
5	■	ST	3					11	
6	■	ST	4					11	
7	■	ST	5						
8	■	ST	6					15	
9	■	ST	7					16.3	
10	■	ST	8						
11	■	ST	9					33.9	
12	■	ST	10	Medium stiff silty CLAY, grey, low and high plasticity (CL, CH)	11.50			26.8	
13	■	ST	11					19	
14	■	SS	1	Very stiff silty CLAY, grey, low and high plasticity (CL, CH)	14.00			28	
15	■	SS	2					36	
16	■	SS	3	Hard CLAY, grey, high plasticity (CH)	16.00			34	
17	■	SS	4					26	
18	■	SS	5	Very stiff CLAY, grey, high plasticity (CH)	19.00			35	
19	■	SS	6					45	
20	■	SS	7	Hard silty CLAY, grey and brown, low and high plasticity (CL, CH)	20.50			54	
21	■	SS	8					50/125	
22	■	SS	9					69	
23	■	SS	10					48	
24	■	SS	11					36	
25	■	SS	12						
26	■	SS							
27	■	SS							
28	■	SS							
29	■	SS							
30	■	SS							
31	■	SS							

Thin wall tube

Split spoon

Rock core

Wash

Auger

PL

Wn

LL

Atterberg Limits :

Suc : Undrained shear strength from UC test

Thin wall tube
Split spoon
Rock core
Wash
Auger

Atterberg Limits : PL Wn LL
Suc : Undrained shear strength from UC test

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Borehole Number : BH-14

Page 2 of 2

Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : วัดราชธรรมาวาสวรวิหาร

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Longitude (E) : 100.50215

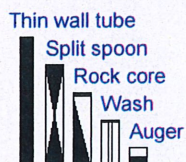
G.W.L (m) : 1.50

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Depth	SAMPLE			SUBSURFACE PROFILE		Atterberg Limits (%) 20 40 60 80 100	Unit Weight 5 15	Suc (kN/m ²) ▲ 20 40 60 80 ▲	
	Symbol	Type	Number	Description	Symbol			SPT-N □ (Blows/300mm) □	
								20	40
32	SS	13	Hard silty CLAY, grey and brown, low and high plasticity (CL, CH)	34.00	34	72	50/125		
33	SS	14						Very dense silty SAND, grey and brown, fine to medium grained (SP-SM)	50/150
34	SS	15	Hard silty CLAY, grey, low plasticity (CL)	37.00	73/275	50/125			
35	SS	16					Very dense silty SAND, grey and brown, fine to medium grained (SM, SP-SM)	41.50	74
36	SS	17	End of Borehole	60.45					
37	SS	18							
38	SS	19							
39	SS	20							
40	SS	21							
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Atterberg Limits : PL Wn LL

Suc : Undrained shear strength from UC test

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