

Summary of Test Results (page 1 of 2)

BH-15

Land mark

Sample No.	Depth (m)		W _n (%)	Atterberg Limits (%)			Sieve Analysis			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	% Passing	#4	#10	#40	#100	#200		
							No Recovery							
ST-1	1.50	2.00												
ST-2	3.00	3.50	62.1	61.2	25.7	35.5					100	98	0.0	14.6
ST-3	4.50	5.00	48.5										0.0	20.0
ST-4	6.00	6.50	38.5	61.2	25.0	36.2					100	92	0.0	20.0
ST-5	7.50	8.00	53.5										0.0	20.0
ST-6	9.00	9.50	58.9	58.5	28.4	30.1					100	99	0.0	23.2
ST-7	10.50	11.00	58.4										0.0	26.0
ST-8	12.00	12.50	60.0	62.9	26.7	36.2				100	98	97	0.0	32.6
ST-9	13.50	14.00	63.2										0.0	27.0
ST-10	15.00	15.50	24.5	38.3	19.6	18.7		100	98	98	96	94	0.0	33.6
SS-1	15.50	15.95	32.7										100.0	77.1
SS-2	16.50	16.95	26.1	41.2	23.2	18.0								
SS-3	18.00	18.45	29.6											
SS-4	19.50	19.95	21.6	40.8	18.6	22.2					100	95		
SS-5	21.00	21.45	37.2											
SS-6	22.50	22.95	23.3	50.9	21.7	29.2					100	99		
SS-7	24.00	24.45	22.4											
SS-8	25.50	25.95	23.2	42.5	18.0	24.5				100	95	93		
SS-9	27.00	27.45	12.8							100	87	30		
SS-10	28.50	28.95	22.1							100	94	27		
SS-11	30.00	30.45	12.5							100	88	46		
SS-12	31.50	31.95	17.9							100	91	45		
SS-13	33.00	33.45	13.1							100	96	46		
SS-14	34.50	34.95	16.5							100	99	95		
SS-15	36.00	36.45	19.6	29.8	17.1	12.7								
SS-16	37.50	37.75	13.4							100	66	30		
SS-17	39.00	39.45	22.7							100	68	41		

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-15

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	
SS- 18	40.50	40.95	24.7	Non Plastic					100	63	28				34,50/75, -
SS- 19	42.00	42.45	28.2	Non Plastic					100	17	10				35,40,25/75
SS- 20	43.50	43.95	23.1	Non Plastic					100	22	14				50/100, -, -
SS- 21	45.00	45.45	24.7	Non Plastic					100	16	11				50/100, -, -
SS- 22	46.50	46.95	28.4	Non Plastic					100	25	14				50/125, -, -
SS- 23	48.00	48.45	13.8	Non Plastic		100	98	85	59	24	19				50/150, -, -
SS- 24	49.50	49.95	24.2	Non Plastic					100	26	16				55
SS- 25	51.00	51.45	16.7	Non Plastic					100	56	17				62
SS- 26	52.50	52.95	14.9	Non Plastic					100	60	27				67
SS- 27	54.00	54.45	29.1	Non Plastic					100	70	16				74
SS- 28	55.50	55.95	17.4	Non Plastic					100	89	40				50/150, -, -
SS- 29	57.00	57.45	24.8	Non Plastic		100	97	90	49	18	12				32
SS- 30	58.50	58.95	17.6	Non Plastic			100	87	31	12	8				31
SS- 31	60.00	60.45	16.2	Non Plastic			100	94	52	23	12				50/125, -, -

Notes:

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^b P_{uc} = Pocket Penetrometer Resistance

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^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.

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Borehole Number : BH-15

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Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : ใต้สะพานพระราม 8

Latitude (N) : 13.76749

Ground Elevation (m) :

Longitude (E) : 100.49792

G.W.L (m) : 2.50

Date Started : 28/5/2559

Total Depth (m) : 60.45

Date Finished : 7/6/2559

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	Very soft to soft CLAY, grey, high plasticity (CH)	2.50	— □	•	14.6	▲
4								13.9	▲
5	■	ST	3			□	•	15.8	▲
6	■	ST	4			— □ —	•	20	▲
7								23.2	▲
8	■	ST	5			□	•	26	▲
9	■	ST	6			— □	•	32.6	▲
10								33.6	▲
11	■	ST	7	Medium stiff CLAY, grey, high plasticity (CH)	10.00	□	•	34	▲
12	■	ST	8			— □	•	39	□
13	■	ST	9				•	33	□
14						□		47	□
15	■	ST	10	Stiff silty CLAY, grey, low plasticity (CL)	14.50	— □ —	•	56	□
16	■	SS	1	Hard silty CLAY, brown, low and high plasticity (CL, CH)	15.50	— □ —		55	□
17	■	SS	2			— □ —		65	□
18	■	SS	3			□		58	□
19	■	SS	4			— □ —			
20	■	SS	5			□			
21	■	SS	6			— □ —			
22	■	SS	7			□			
23	■	SS	8			— □ —			
24	■	SS	9	Dense to very dense silty SAND, grey and brown, fine to medium grained (SM, SP-SM)	26.50	— □ —			
25	■	SS	10			□			
26	■	SS	11			□			
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

ch

Borehole Number : BH-15

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	Symbol	Type	Number	Description	Symbol			SPT-N □ (Blows/300mm) □ 20 40 60 80	
32	SS	12	Dense to very dense silty SAND, grey and brown, fine to medium grained (SM, SP-SM)	35.50	□			57	□
33	SS	13						52	□
34	SS	14						70/275	□
35	SS	15						33	□
36	SS	16	Hard silty CLAY, brown, low plasticity (CL)	37.00	□			26	□
37	SS	17	Dense to very dense silty SAND, grey and brown, fine to medium grained (SM, SP-SM)		□			50/150	□
38	SS	18						50/150	□
39	SS	19						65/225	□
40	SS	20						50/100	□
41	SS	21						50/100	□
42	SS	22						50/125	□
43	SS	23						50/125	□
44	SS	24						55	□
45	SS	25						62	□
46	SS	26						67	□
47	SS	27						74	□
48	SS	28						50/150	□
49	SS	29						32	□
50	SS	30						31	□
51	SS	31						50/125	□
52	SS								
53	SS								
54	SS								
55	SS								
56	SS								
57	SS								
58	SS								
59	SS								
60	SS								
61			End of Borehole	60.45					
62									

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

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