

Summary of Test Results (page 1 of 2)

Land mark

BH-3

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
ST- 1	1.50	2.00															-	-
ST- 2	3.00	3.50															-	-
ST- 3	4.50	5.00															-	-
ST- 4	6.00	6.50	52.4	26.8	25.7												16.1	-
ST- 5	7.50	8.00	44.9	22.8	30.3												16.2	-
ST- 6	9.00	9.50	32.9	Non Plastic													-	-
SS- 1	9.50	10.95	28.6	Non Plastic													-	16
SS- 2	10.50	10.95	27.2	Non Plastic													-	15
SS- 3	12.00	12.45	31.7	Non Plastic													-	15
SS- 4	13.50	13.95	33.3	Non Plastic													-	6
SS- 5	15.00	15.45	30.3	Insufficient sample													-	16
SS- 6	16.50	16.95	27.9	55.5	26.4	29.1											19.1	29
SS- 7	18.00	18.45	36.4														-	40
SS- 8	19.50	19.95	27.9	64.0	30.2	33.8											-	37
SS- 9	21.00	21.45	26.4	35.4	20.7	14.7											-	34
SS- 10	22.50	22.95	23.8	52.4	17.9	34.5	100	99	100	99	95	94					-	75
SS- 11	24.00	24.45	24.5														20.3	62
SS- 12	25.50	25.95	22.2	35.5	21.1	14.4											21.3	60
SS- 13	27.00	27.45	22.8	Non Plastic													-	67
SS- 14	28.50	28.95	23.2	Non Plastic													-	49
SS- 15	30.00	30.45	19.9	44.7	20.9	23.8											21.4	49
SS- 16	31.50	31.95	20.7	Non Plastic													-	37
SS- 17	33.00	33.45	25.2	Non Plastic													-	65
SS- 18	34.50	34.95	14.8	Non Plastic													-	60
SS- 19	36.00	36.45	17.0	Non Plastic													-	50/125, -, -
SS- 20	37.50	37.95	20.0	Insufficient sample													-	30,50/150, -
SS- 21	39.00	39.45	17.0	37.8	16.7	21.1	100	96	100	96	86	62	59				21.7	59

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-3

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					
			LL	PL	PI	1"	3/4"	1/2"	3/8"	#4	#10	#40						#100	#200	
SS-22	40.50	40.95	17.3	29.8	16.2	13.6							100	74	55		CL	21.8	58	
SS-23	42.00	42.45	20.1	Non Plastic									100	47	29		SM	-	63	
SS-24	43.50	43.95	24.1	Insufficient sample									100	99	93	65	(CL)	-	59	
SS-25	45.00	45.45	20.4	Non Plastic									100	33	18		SM	-	64	
SS-26	46.50	46.95	16.1	Non Plastic									100	44	28		SM	-	67	
SS-27	48.00	48.45	23.1	49.5	18.3	31.2								100	98		CL	20.0	58	
SS-28	49.50	49.95	20.1														(CL)	-	39,50/150, -	
SS-29	51.00	51.45	20.8	41.2	23.3	17.9							100	99			CL	20.4	4150/125, -	
SS-30	52.50	52.95	24.5														(CL)	20.0	35,50/100, -	
SS-31	54.00	54.45	24.4	45.3	24.2	21.1							100	99			CL	-	47,50/25, -	
SS-32	55.50	55.95	14.2	Non Plastic									100	98	51	20	15	SM	-	50/150, -, -
SS-33	57.00	57.45	18.1	Non Plastic									100	94	34	12	9	SP-SM	-	62
SS-34	58.50	58.95	17.1	Non Plastic									100	97	52	15	11	SP-SM	-	50/100, -, -
SS-35	60.00	60.45	13.6	Non Plastic									100	95	47	20	15	SM	-	45,50/125, -

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

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Date Finished : 12/5/2559

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, concrete debris (No Recovery)	0.00				
2	■	ST	1						
3	■	ST	2						
4	■	ST	3						
5	■	ST	4	Very soft CLAY, light grey, high plasticity (CH)	5.50	—	•		
6	■	ST	5			—	•		
7	■	ST	6	Loose to medium dense silty SAND, grey, very fine to fine grained (SM)	8.50	□		16	
8	■	ST	7			□		15	
9	■	ST	8			□		15	
10	■	ST	9			□		15	
11	■	ST	10			□		6	
12	■	ST	11			□		16	
13	■	ST	12	Very stiff CLAY, grey, high plasticity (CH)	14.50	□		29	
14	■	ST	13			—	•		
15	■	ST	14	Hard silty CLAY, grey, low and high plasticity (CL, CH)	17.50	□		40	
16	■	ST	15			—		37	
17	■	ST	16			—		34	
18	■	ST	17			—			75
19	■	ST	18			—		62	
20	■	ST	19			□	•	60	
21	■	ST	20			—	•		
22	■	ST	21	Very dense silty SAND, light grey, very fine to fine grained (SM, SP-SM)	26.50	□		67	
23	■	ST	22			□		49	
24	■	ST	23			—	•	49	
25	■	ST	24			—	•		
26	■	ST	25			—			
27	■	ST	26			—			
28	■	ST	27			—			
29	■	ST	28			—			
30	■	ST	29			—			
31	■	ST	30			—			

Thin wall tube

Split spoon

Rock core

Wash

Auger

PL Wn LL

Atterberg Limits : —|—|—|

Suc : Undrained shear strength from UC test

Borehole Number : BH-3

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Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : ที่ดินส่วนบุคคล

Latitude (N) : 13.80022

Ground Elevation (m) :

Longitude (E) : 100.51485

G.W.L (m) : 2.50

Date Started : 11/5/2559

Total Depth (m) : 60.45

Date Finished : 12/5/2559

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			
32	SS	16	Hard silty CLAY, grey, low plasticity (CL)		□			37	□		
33	SS	17	Dense to very dense silty SAND, grey, fine to medium grained (SM, SP-SM)		□				65	□	
34	SS	18							60	□	
35	SS	18									
36	SS	19								50/125	□
37	SS	20	Hard silty CLAY, grey and brown, low plasticity (CL)	37.00		□				50/150	□
38	SS	20				□					
39	SS	21				□		•		59	□
40	SS	21				□				58	□
41	SS	22				□		•			
42	SS	23	Very dense silty SAND, brownish grey, very fine to fine grained (SM)	41.50		□				63	□
43	SS	24	Hard silty CLAY, brownish grey, low plasticity (CL)	43.00		□				59	□
44	SS	24		44.50		□				64	□
45	SS	25	Very dense silty SAND, grey, very fine to fine grained (SM)			□				67	□
46	SS	26				□					
47	SS	26		47.50		□				58	□
48	SS	27	Hard silty CLAY, grey and brown, low plasticity (CL)			□		•			
49	SS	28				□				50/150	□
50	SS	28				□				50/125	□
51	SS	29				□		•			
52	SS	30				□				50/100	□
53	SS	30				□		•			
54	SS	31				□				50/25	□
55	SS	32	Very dense silty SAND, brown, fine to medium grained (SM, SP-SM)	55.00		□				50/150	□
56	SS	32				□				62	□
57	SS	33				□					
58	SS	34				□				50/100	□
59	SS	34				□				50/125	□
60	SS	35				□					
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
Auger

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

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