

Summary of Test Results (page 1 of 2)

Sample		Depth		W _n	Atterberg Limits			Sieve Analysis					USCS	Soil Strength		Unit ^d	SPT-N ^e	Land mark			
No.	From	To	(m)	(%)	LL	PL	PI	% Passing (US Standard Sieve)					Group ^a	(kN/m ²)		Weight (kN/m ³)	(Blows/ 300 mm)				
								1"	3/4"	1/2"	3/8"	#4	#10	#40	#100	#200	P _{uc} ^b	Torvane	S _{uc} ^c		
ST- 1	0.00	0.50						No Recovery										-			-
ST- 2	1.50	2.00						No Recovery										-			-
ST- 3	3.00	3.50		54.4	74.0	37.6	36.4					100	99	98	96		0.0	22.0	11.8		
ST- 4	4.50	5.00		81.2													12.5	30.0	4.6		
ST- 5	6.00	6.50		72.8	82.3	31.0	51.3					100	94	93	90		0.0	20.0	12.4		
ST- 6	7.50	8.00		54.8	68.5	33.4	35.1					100	98	98	93		0.0	20.0	12.7		
ST- 7	9.50	10.00		24.7	40.8	24.7	16.1					100	81	57			0.0	18.0	9.0		
ST- 8	11.00	11.50		32.2	Non Plastic							100	18	9							
SS- 1	12.50	12.95		32.5	Non Plastic							100	99	34	16						
SS- 2	13.50	13.50		30.5	Non Plastic							100	99	33	22						
SS- 3	15.00	15.45		30.4	Non Plastic							100	99	43	27						
SS- 4	16.50	16.95		37.5	Insufficient Sample							100	98	95	94						
SS- 5	18.00	18.45		26.7	62.9	30.4	32.5					100	88	77	75						
SS- 6	19.50	19.95		28.3																	
SS- 7	21.00	21.45		24.9	Insufficient Sample							100	99	97	86	59					
SS- 8	22.50	22.95		20.2	35.4	19.3	16.1														
SS- 9	24.00	20.45		21.4	Non Plastic							100	99	43	29						
SS- 10	25.50	25.95		17.6	Non Plastic							100	98	44	16	11					
SS- 11	27.00	27.45		18.1	Non Plastic							100	98	56	18	11					
SS- 12	28.50	28.95		16.0	Non Plastic							100	98	33	22	18					
SS- 13	30.00	30.45		13.4	Non Plastic							100	99	48	28	21					
SS- 14	31.50	31.95		16.0	Non Plastic							100	46	15	10						
SS- 15	33.00	33.45		17.3	Non Plastic							100	98	36	26						
SS- 16	34.50	34.95		22.9	Non Plastic							100	94	25	15						
SS- 17	36.00	36.45		15.9	Non Plastic							100	98	38	28						

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-4

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)
			Atterberg Limits			% Passing (US Standard Sieve)									P _{uc} ^b	Torvane		
			LL	PL	PI	1"	3/4"	1/2"	3/8"	#4	#10	#40	#100					
SS- 18	37.50	37.95	34.2	Non Plastic						100	94	30	13			-	35, 50/25, -	
SS- 19	39.00	39.45	31.9	Non Plastic						100	93	34	20			-	50	
SS- 20	40.50	40.95	26.2	Non Plastic						100	95	37	24			-	64	
SS- 21	42.00	42.45	19.9	49.5	20.8	28.7				100	98	97	96			21.3	68	
SS- 22	43.50	43.95	16.8													21.7	68	
SS- 23	45.00	45.45	17.4	45.5	13.7	31.8				100	94	91	89			-	68	
SS- 24	46.50	46.95	15.6													21.2	50	
SS- 25	48.00	48.45	14.2	35.7	18.6	17.1				100	94	77	72			21.4	50/50, -, -	
SS- 26	49.50	49.95	22.2	Non Plastic			100	98	73	12	8					-	50/50, -, -	
SS- 27	51.00	51.45	18.1	Non Plastic			100	95	45	8	5					-	50/50, -, -	
SS- 28	52.50	52.95	17.4	38.5	19.3	19.2				100	98	96				21.3	50/50, -, -	
SS- 29	54.00	54.45	22.0	Non Plastic						100	63	22	15			-	50/75, -, -	
SS- 30	55.50	55.95	17.1	Non Plastic						100	99	46	20	17		-	50/150, -, -	
SS- 31	57.00	57.45	18.9	Non Plastic			100	97	66	18	12					-	50/150, -, -	
SS- 32	58.50	58.95	17.6	Non Plastic			100	95	43	17	13					-	50/50, -, -	
SS- 33	60.00	60.45	17.2	Non Plastic			100	96	65	19	13					-	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

Borehole Number : BH-4

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Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : จรัญสนิทวงศ์ 86/2

Latitude (N) : 13.79605

Ground Elevation (m) :

Longitude (E) : 100.51217

G.W.L (m) : 2.00

Date Started : 28/7/2559

Total Depth (m) : 60.45

Date Finished : 30/7/2559

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 CLAY, blackish brown, high to low plasticity (CH, CL)	2.50		●	11.8 ▲	
4							●	4.6 ▲	
5	■	ST	3				●		
6	■	ST	4				●		
7							●		
8	■	ST	5				●		
9	■	ST	6				●	9 ▲	
10	■	ST	7				●		
11	■	ST	8	Loose to medium dense silty SAND, greyish brown and dark reddish brown, very fine to fine grained (SP-SM, SM)	10.00				
12								12.42 ▲	
13	⌵	SS	1					12.7 ▲	
14	⌵	SS	2					27 □	
15	⌵	SS	3					11 □	
16	⌵	SS	4	Hard silty CLAY, greenish grey to brown, high to low plasticity (CH, CL)	16.00			35 □	
17	⌵	SS	5					37 □	
18	⌵	SS	6					32 □	
19	⌵	SS	7					35 □	
20	⌵	SS	8					51 □	
21	⌵	SS	9					52 □	
22	⌵	SS	10	Very dense silty SAND, brownish, fine to medium grained (SM, SP-SM)	23.50			76 □	
23	⌵	SS	11					82 □	
24	⌵	SS	12					68 □	
25	⌵	SS	13					72 □	
26	⌵	SS							
27	⌵	SS							
28	⌵	SS							
29	⌵	SS							
30	⌵	SS							
31	⌵	SS							

Thin wall tube

Split spoon

Rock core

Wash

Auger

PL

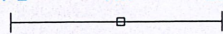
Wn

LL

Atterberg Limits :

Suc : Undrained shear strength from UC test

Thin wall tube
Split spoon
Rock core
Wash
Auger

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

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Date Finished : 30/7/2559

SAMPLE				SUBSURFACE PROFILE		Atterberg Limits (%) 20 40 60 80 100		Unit Weight 5 15		Suc (kN/m ²) ▲ 20 40 60 80 ▲	
Depth	Symbol	Type	Number	Description	Symbol					SPT-N (Blows/300mm) □ 20 40 60 80 □	
32	▲	SS	14								60
33	▲	SS	15								68
34	▲	SS	16								52
35	▲	SS	17								50
36	▲	SS	18								50/25
37	▲	SS	19								50
38	▲	SS	20								64
39	▲	SS	21	Hard silty CLAY, grey, low plasticity (CL)	41.50						68
40	▲	SS	22								68
41	▲	SS	23								68
42	▲	SS	24								50
43	▲	SS	25								50/50
44	▲	SS	26	Very dense silty SAND, brown, fine to medium grained (SP-SM)	49.00						50/50
45	▲	SS	27								50/50
46	▲	SS	28	Hard silty CLAY, grey, low plasticity (CL)	52.00						50/50
47	▲	SS	29								50/75
48	▲	SS	30	Very dense silty SAND, brown, fine to medium grained (SM, SP-SM)	53.50						50/150
49	▲	SS	31								50/150
50	▲	SS	32								50/50
51	▲	SS	33								50/125
52				End of Borehole	60.45						

Thin wall tube

Split spoon

Rock core

Wash

Auger

PL Wn LL

Atterberg Limits : ———— □ ————

Suc : Undrained shear strength from UC test