

Summary of Test Results (page 1 of 2)

BH-16 (Nearby)

Land Mark

Sample No.	Depth (m)	Atterberg Limits			Sieve Analysis					USCS Group ^a	Soil Strength		Unit Weight (kN/m ³)	SPT-N ^e (Blows/300 mm)
		LL	PL	PI	1"	3/4"	1/2"	3/8"	#4		P _{uc} ^b	Torvane S _{uc} ^c		
ST-1	1.50	2.00												
ST-2	3.00	3.50	42.9	28.8	24.8				100	99	98	97	18.4	-
ST-3	4.50	5.00	67.8										15.9	-
ST-4	6.00	6.50	47.1	56.7	25.7	31.0			100	91	88	86	15.2	-
ST-5	7.50	8.00	59.3										16.4	-
ST-6	9.00	9.50	53.8	57.9	28.8	29.1			100	99	97	92	17.5	-
ST-7	10.50	11.00	65.9										16.8	-
ST-8	12.00	12.50	63.4	64.2	29.6	34.6							16.8	-
ST-9	13.50	14.00	46.9										17.4	-
ST-10	15.00	15.50	27.0	49.9	24.2	25.7			100	99	98	96	17.3	-
SS-1	16.50	16.95	24.1	46.3	22.1	24.2			100	99	98	96	19.6	24
SS-2	18.00	18.45	25.9										-	28
SS-3	19.50	19.95	23.7	65.0	25.6	39.4			100	90	83	70	-	25
SS-4	21.00	21.45	20.4										20.9	28
SS-5	22.50	22.95	20.9	37.2	18.2	19.0							20.3	27
SS-6	24.00	24.45	19.0	Non Plastic					100	99	93		-	33
SS-7	25.50	25.95	21.4	Non Plastic					100	47	31		-	30
SS-8	27.00	27.45	26.2	Non Plastic					100	51	38		-	38
SS-9	28.50	28.95	26.3	Non Plastic					100	40	27		-	55
SS-10	30.00	30.45	24.2	Non Plastic					100	28	19		-	43
SS-11	31.50	31.95	23.4	Non Plastic					100	32	24		-	70
SS-11	31.50	31.95	23.4	Non Plastic					100	30	21		-	

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-16 (Nearby)

Sample No.	Depth (m)	W _n (%)	Atterberg Limits			Sieve Analysis										USCS Group ^a	Soil Strength		Unit ^u 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	#200			
SS-13	33.00	33.45	20.1	Non Plastic									100	99	29	19	SM	-	28, 25, 50/75		
SS-14	34.50	34.95	12.4	Non Plastic									100	91	38	32	SM	-	40, 50/75, -		
SS-15	36.00	36.45	14.5	Non Plastic									100	92	33	25	SM	-	48		
SS-16	37.50	37.95	12.4	Non Plastic									100	62	29	26	SM	-	57		
SS-17	39.00	39.45	13.4	Non Plastic									100	86	78	30	15	12	SP-SM	-	58
SS-18	40.50	40.95	20.5	36.0	17.9	18.1							100	97	93	89	86	76	CL	-	63
SS-19	42.00	42.45	19.9	34.2	20.5	13.7							100	99	99	98	93	CL	20.9	53	
SS-20	43.50	43.95	13.5	Non Plastic									100	99	92	35	27	SM	-	48	
SS-21	45.00	45.45	16.5	Non Plastic									100	99	56	45	SM	-	75		
SS-22	46.50	46.95	18.8	Non Plastic									100	99	42	32	SM	-	44, 50/25, -		
SS-23	48.00	48.45	17.2	Non Plastic									100	99	53	43	SM	-	45, 50/50, -		
SS-24	49.50	49.95	13.4	Non Plastic									100	99	61	21	14	SM	-	77	
SS-25	51.00	51.45	16.1	Non Plastic									100	92	70	20	12	SP-SM	-	53	
SS-26	52.50	52.95	14.2	Non Plastic									100	97	54	23	14	SM	-	40, 39, 21/50	
SS-27	54.00	54.45	17.5	Non Plastic									100	99	59	17	11	SP-SM	-	61	
SS-28	55.50	55.95	19.8	Non Plastic									100	79	23	13	SM	-	64		
SS-29	57.00	57.45	19.3	Non Plastic									100	63	21	11	SP-SM	-	43		
SS-30	58.50	58.95	15.0	Non Plastic									100	97	35	24	SM	-	36, 43, 21/50		
SS-31	60.00	60.45	19.7	Non Plastic									100	96	27	18	SM	-	33, 50/50, -		
SS-32	61.50	61.95	15.9	Non Plastic									100	96	34	23	SM	-	39, 50/125, -		
SS-33	63.00	63.45	16.6	Non Plastic									100	99	27	14	10	SP-SM	-	25, 35, 40/100	
SS-34	64.50	64.95	15.8	Non Plastic									100	96	24	12	9	SP-SM	-	32, 43, 25/50	
SS-35	66.00	66.45	18.3	Non Plastic									100	99	26	13	9	SP-SM	-	37, 40, 23/50	
SS-36	67.50	67.95	16.7	Non Plastic									100	30	16	11	SP-SM	-	40, 50/125, -		
SS-37	69.00	69.45	17.6	Non Plastic									100	99	27	14	10	SP-SM	-	37, 50/125, -	
SS-38	70.50	70.95	17.8	Non Plastic									100	31	17	12	SP-SM	-	38, 40, 22/50		

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-16 (Nearby) Page 1 of 3

Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : ใต้สะพานพระปิ่นเกล้า

Latitude (N) :

Ground Elevation (m) :

Longitude (E) :

G.W.L (m) : 0.50

Date Started :

Total Depth (m) : 70.95

Date Finished :

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	0.00				
2	■	ST	1						
3	■	ST	2	Medium stiff silty CLAY, grey, high plasticity (CH)	2.50	□	●	33.3 ▲	
4									
5	■	ST	3	Soft silty CLAY, grey, high plasticity (CH)	4.00	□	●	20.7 ▲	
6	■	ST	4			□	●	15.5 ▲	
7									
8	■	ST	5	Medium stiff silty CLAY, grey, high plasticity (CH)	7.00	□	●	27 ▲	
9	■	ST	6	Soft silty CLAY, grey, high plasticity (CH)	8.50	□	●	16.9 ▲	
10									
11	■	ST	7	Medium stiff silty CLAY, grey, high plasticity (CH)	10.00	□	●	34.8 ▲	
12	■	ST	8			□	●	32.1 ▲	
13									
14	■	ST	9	Stiff to very stiff silty CLAY, grey and brown, low and high plasticity (CL, CH)	13.00	□	●	56 ▲	
15	■	ST	10			□	●	20 □	
16	■	SS	1			□	●	24 □	
17	■	SS	2			□	●	28 □	
18	■	SS	3			□	●	25 □	
19	■	SS	4			□	●	28 □	
20	■	SS	5			□	●	27 □	
21	■	SS	6			□	●	33 □	
22	■	SS	7			□	●		
23	■	SS				□	●		
24	■	SS				□	●		
25	■	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-16 (Nearby) Page 2 of 3

Project : พัฒนาพื้นที่เวียงนครเขม

Site Location : ใต้สะพานพระปิ่นเกล้า

Ground Elevation (m) :

G.W.L (m) : 0.50

Total Depth (m) : 70.95

Latitude (N) :

Longitude (E) :

Date Started :

Date Finished :

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	
26	SS	8	Dense and very dense silty SAND, brown, very fine to medium grained (SM, SP-SM)		□			30	□
27	SS	9			□			38	□
28									
29	SS	10			□			55	□
30	SS	11			□			43	□
31									
32	SS	12			□			70	□
33	SS	13			□			75/225	□
34									
35	SS	14			□			50/75	□
36	SS	15			□			48	□
37									
38	SS	16			□			57	□
39	SS	17	□			58	□		
40									
41	SS	18	Hard silty CLAY, brown, low plasticity (CL)	40.00				63	□
42	SS	19						53	□
43									
44	SS	20	Dense to very dense silty SAND, grey and brown, fine to medium grained (SM, SP-SM)	43.00	□			48	□
45	SS	21			□			75	□
46					□			50/25	□
47	SS	22						50/50	□
48	SS	23			□				
49								77	□
50	SS	24			□				

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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Borehole Number : BH-16 (Nearby) Page 3 of 3

Project : โครงการสำรวจออกแบบและจัดทำแผนแม่บทเพื่อพัฒนาริมฝั่งแม่น้ำเจ้าพระยา

Site Location : แขวงสัมพันธวงศ์ เขตสัมพันธวงศ์

Latitude (N) :

Ground Elevation (m) :

Longitude (E) :

G.W.L (m) : 0.50

Date Started :

Total Depth (m) : 70.95

Date Finished :

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	
										20
51	SS	25	Dense to very dense silty SAND, grey and brown, fine to medium grained (SM, SP-SM)		□				53	□
52									60/200	□
53	SS	26			□				61	□
54	SS	27			□				64	□
55										
56	SS	28			□				43	□
57	SS	29			□				64/200	□
58									50/50	□
59	SS	30			□				50/125	□
60	SS	31			□					
61									75/250	□
62	SS	32			□				68/200	□
63									63/200	□
64	SS	34			□				50/125	□
65									50/125	□
66	SS	35			□				62/200	□
67										
68	SS	36			□					
69	SS	37	□							
70										
71	SS	38								
72				End of Borehole	70.95					
73										
74										
75										

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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