



BNN DESIGN AND CONSULTANT CO.,LTD.

Soil Boring and Testing , Surveying , Geotechnical Structure and Slope Protection Design

SUMMARY OF TEST RESULT

Project : ก่อสร้างถนน กาญจนภิเษก-พุทธมณฑล สาย2

Date of Boring : 14 พฤศจิกายน 2561

Location : พุทธมณฑล สาย2 เขตทวีวัฒนา กรุงเทพมหานคร

Boring : BH - 8 Page : 1

SAMPLE NUMBER	DEPTH (m.)		PHYSICAL PROPERTIES							ATTERBERG LIMITS			SOIL CLASSIFICATION	ENGINEERING PROPERTIES				
			Wn (%)	γ (t/m ³)	% Passing					LL (%)	PL (%)	PI (%)		UCS (tsm.)	Qur (tsm.)	Qp (tsm.)	N (blows/ft)	Vs (tsm.)
	#4	#10			#40	#100	#200											
ST-1	1.50	2.00	32.55	1.73	100.00	100.00	99.76	99.58	99.32	49.75	28.42	21.33	CL	2.36				
ST-2	3.00	3.50	37.28	1.76	100.00	100.00	99.89	99.80	99.72	47.33	28.49	18.84	CL	3.68				
ST-3	4.50	5.00				NO RECOVERY												
ST-4	6.00	6.50	57.50	1.64	100.00	100.00	99.78	99.63	99.48	50.70	20.83	29.86	CH	2.82				
ST-5	7.50	8.00	51.44	1.67	100.00	100.00	99.88	99.72	99.63	53.45	31.23	22.22	CH	2.24				
ST-6	9.00	9.50				NO RECOVERY												
ST-7	10.50	11.00	38.17	1.68	100.00	100.00	99.70	99.33	99.01	40.00	23.48	16.52	CL	4.98				
ST-8	12.00	12.50	33.51	1.70	100.00	100.00	99.87	87.33	72.47	48.81	25.24	23.56	CL	4.19				
ST-9	13.50	14.00	34.88	1.72	100.00	100.00	98.92	62.42	41.18	46.08	25.21	20.87	SC	7.63				
SS-1	15.00	15.45	34.31		100.00	100.00	100.00	76.13	26.67	25.50	20.96	4.54	SC-SM				5	
SS-2	16.50	16.95	27.71		100.00	100.00	100.00	74.38	40.85	26.87	15.55	11.32	SC				16	
SS-3	18.00	18.45	25.20		100.00	100.00	100.00	77.03	37.52	31.39	18.83	12.56	SC				25	
SS-4	19.50	19.95	29.73		100.00	100.00	100.00	75.18	46.91	38.98	24.18	14.80	SC				21	
SS-5	21.00	21.45	32.59		100.00	100.00	100.00	81.18	44.74	35.99	17.37	18.61	SC				18	
SS-6	22.50	22.95	20.10		100.00	100.00	100.00	46.21	6.86		NP		SP-SM				22	
SS-7	24.00	24.45	15.57		100.00	98.82	51.69	13.27	5.94		NP		SP-SM				50/5"	
SS-8	25.50	25.95	17.01		100.00	99.76	76.17	12.85	5.55		NP		SP-SM				91/5"	
SS-9	27.00	27.45	16.21		100.00	98.95	48.45	16.07	6.70		NP		SP-SM				56"	
SS-10	28.50	28.95	20.18		100.00	98.01	81.22	9.32	3.84		NP		SP				75"	
SS-11	30.00	30.45	20.75		100.00	97.91	48.37	8.96	3.58		NP		SP				45"	

PHYSICAL PROPERTIES

Wn = Natural Water Content

γ = Bulk Unit Weight

ATTERBERG LIMITS

LL = Liquid Limit

PL = Plastic Limit

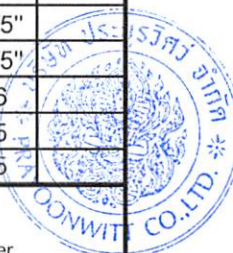
PI = Plasticity Index

ENGINEERING PROPERTIES

UCS = Unconfined Compressive Strength N = Standard Penetration Number

Qur = Remolded Shear Strength Vs = Vane Shear Strength

Qp = Pocket Penetrometer





Boring : BH - 8 Page : 2



Qp = Pocket Penetrometer

**BNN DESIGN AND CONSULTANT CO.,LTD.**

Soil Boring and Testing , Surveying , Geotechnical Structure and Slope Protection Design

LOG OF BORING

Project : ก่อสร้างถนน กาญจนภิเษก-พุทธมณฑล สาย2

Boring No. BH - 8

Tested by N.Winit

Page 1

Location : พุทธมณฑล สาย2 เขตทวีวัฒนา กรุงเทพมหานคร

Started 14 พฤศจิกายน 2561

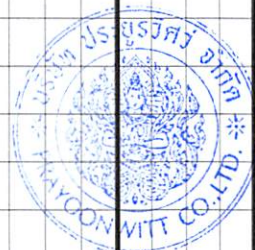
Checked by W.Jakrabhan

N 1,520,656 E 650,914

Finished 15 พฤศจิกายน 2561

GWL. -1.00 m

Depth (m)	Sample No.	Type Of Sample	Sample Distance	Recovery	Soil Description	Graphic Log	Water Content (%)					SPT - N (Blows/ft)			Soil Shear Strength			Total Density (t/m ³)		
							o					◇			o UCS □ FVT			x PP △ TV		
							+ Liquid Limit (%)								(t/m ²)			▲		
							20	40	60	80	100	25	50	75	3	6	9	1.4	1.8	2.2
1		WO			Very Soft to Soft Silty CLAY, grey (CL)															
2	1	ST					×	+												
3		WO																		
4	2	ST					×	+												
5	3	ST		No Recovery	Very Soft to Soft CLAY, grey (CH)															
6		WO																		
7	4	ST					×	+												
8	5	ST					×	+												
9		WO			Soft Silty CLAY, grey (CL)															
10	6	ST		No Recovery																
11	7	ST					×	+												
12		WO																		
13	8	ST			Loose to Medium Dense Clayey SAND, brown (SC) and Clayey Silty SAND (SC-SM) @SS-1		×	+												
14	9	ST					×	+												
15		WO																		
16	1	SS					×	+				◇	5							
17	2	SS			Medium Dense Poorly-graded Silty SAND, brown (SP-SM)		×	+				◇	16							
18		WO																		
19	3	SS					×	+				◇	25							
20	4	SS					×	+				◇	21							
21		WO			Dense to Very Dense Poorly-graded Silty SAND, brown (SP-SM), (SP)															
22	5	SS					×	+				◇	18							
23	6	SS										◇	22							
24		WO																		
25	7	SS																		
26		WO																		
27	8	SS																		
28		WO																		
29	9	SS																		
30		WO																		
31	10	SS																		
32		WO																		
33	11	SS																		
34																				





BNN DESIGN AND CONSULTANT CO.,LTD.

Soil Boring and Testing , Surveying , Geotechnical Structure and Slope Protection Design

LOG OF BORING

Project : ก่อสร้างถนน กาญจนากิเชก-พุทธมณฑล สาย2 Boring No. BH - 8 Tested by N.Winit Page 2
 Location : พุทธมณฑล สาย2 เขตทวีวัฒนา กรุงเทพมหานคร Started 14 พฤศจิกายน 2561 Checked by W.Jakrabhan
 N 1,520,656 E 650,914 Finished 15 พฤศจิกายน 2561 GWL. -1.00 m

Depth (m)	Sample No.	Type Of Sample	Sample Distance	Recovery	Soil Description	Graphic Log	o Water Content (%)	◇ SPT - N	Soil Shear Strength	Total Density	
							x Plastic Limit (%)	(Blows/ft)	o UCS □ FVT	(t/m ³)	
							+ Liquid Limit (%)		x PP △ TV	▲	
							20 40 60 80 100	25 50 75	3 6 9	1.4 1.8 2.2	
31	11	SS			(Same as Above) Dense to Very Dense Poorly-graded Silty SAND, brown (SP-SM), (SP)			◇ 45			
32	12	WO						◇ 49			
33	13	SS						◇ 49			
34	14	WO						◇ 71			
35	15	SS						◇ 44			
36	16	WO						◇ 60			
37	17	SS						86/5◇			
38	18	WO						◇ 50/4"			
39											
40											
41					END OF BORING (40.95) m						
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											

