

ASIAN INSTITUTE OF TECHNOLOGY
GEOTECHNICAL AND TRANSPORTATION ENGINEERING DIVISION

ATTERBERG LIMITS TEST

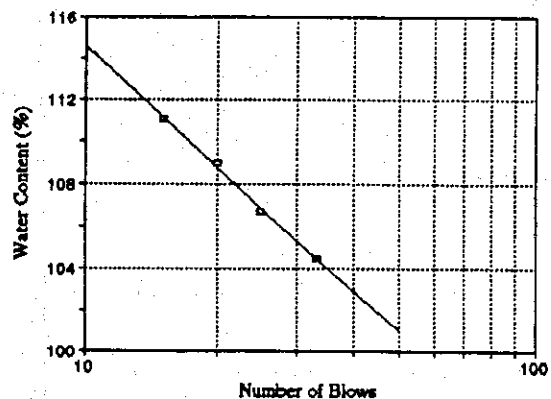
Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 2.00-3.00 Sample No.: UD-1A Test No.: A-5
 Soil Description: _____ Tested By: WY Date: 17-1-1993

		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				15	73
Weight of Container	g			3.26	3.17
Weight of Wet Soil + Container	g			9.55	9.38
Weight of Dry Soil + Container	g			7.53	7.38
Weight of Water	g			2.02	2.00
Weight of Dry Soil	g			4.27	4.21
Water Content	%			47.3	47.5
Average Water Content	%			47.4	

LIQUID LIMIT

	15	20	25	33	
Number of Blows	2	37	6	12	
Container No.					
Weight of Container	g	5.46	5.25	5.43	5.45
Weight of Wet Soil + Container	g	22.66	22.95	21.76	21.46
Weight of Dry Soil + Container	g	13.61	13.72	13.33	13.28
Weight of Water	g	9.05	9.23	8.43	8.18
Weight of Dry Soil	g	8.15	8.47	7.90	7.83
Water Content	%	111.0	109.0	106.7	104.5

Nat. Water Content	=	%
Liquid Limit, LL	=	106.8 %
Plastic Limit, PL	=	47.4 %
Plasticity Index, PI	=	59.4 %
Liquidity Index, LI	=	
Remarks:		



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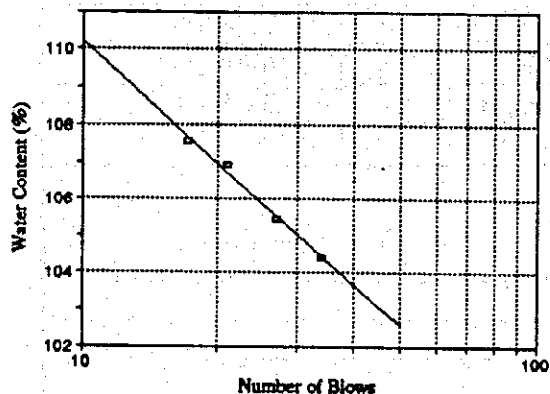
Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 4.00-5.00 Sample No.: UD-2A Test No.: A-6
 Soil Description: _____ Tested By: WY Date: 17-1-1993

		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				209	4
Weight of Container	g			3.19	3.35
Weight of Wet Soil + Container	g			10.32	10.70
Weight of Dry Soil + Container	g			8.00	8.29
Weight of Water	g			2.32	2.41
Weight of Dry Soil	g			4.81	4.94
Water Content	%			48.2	48.8
Average Water Content	%			48.5	

LIQUID LIMIT

Number of Blows		17	21	27	34
Container No.		6	4	90	2
Weight of Container	g	5.50	5.48	5.43	5.41
Weight of Wet Soil + Container	g	20.32	21.35	20.12	20.80
Weight of Dry Soil + Container	g	12.64	13.15	12.58	12.94
Weight of Water	g	7.68	8.20	7.54	7.86
Weight of Dry Soil	g	7.14	7.67	7.15	7.53
Water Content	%	107.6	106.9	105.5	104.4

Nat. Water Content	=		%
Liquid Limit, LL	=	105.9	%
Plastic Limit, PL	=	48.5	%
Plasticity Index, PI	=	57.4	%
Liquidity Index, LI	=		
Remarks:			



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ATTERBERG LIMITS TEST

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 6.00-7.00 Sample No.: UD-3A Test No.: A-7
 Soil Description: _____ Tested By: WY Date: 16-1-1993

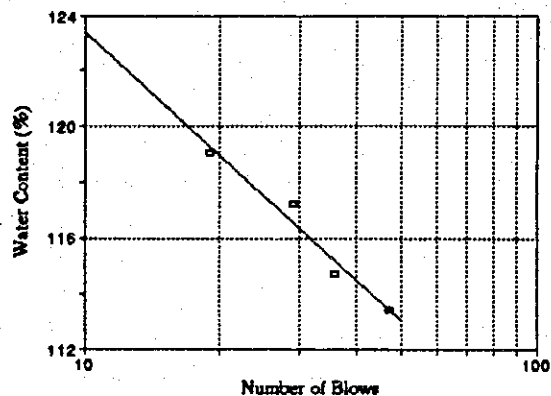
		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				77	80
Weight of Container	g			3.20	3.17
Weight of Wet Soil + Container	g			9.63	9.21
Weight of Dry Soil + Container	g			7.15	7.21
Weight of Water	g			2.48	2.00
Weight of Dry Soil	g			3.95	4.04
Water Content	%			62.8	49.5
Average Water Content	%			56.1	

LIQUID LIMIT

	47	36	29	19
Number of Blows				
Container No.	62	6	71	66
Weight of Container	g	5.09	5.43	5.43
Weight of Wet Soil + Container	g	22.55	18.42	20.70
Weight of Dry Soil + Container	g	13.27	11.48	12.46
Weight of Water	g	9.28	6.94	8.24
Weight of Dry Soil	g	8.18	6.05	7.03
Water Content	%	113.4	114.7	117.2

Nat. Water Content	=	%
Liquid Limit, LL	=	117.5 %
Plastic Limit, PL	=	56.1 %
Plasticity Index, PI	=	61.3 %
Liquidity Index, LI	=	

Remarks: _____



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ATTERBERG LIMITS TEST

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 8.00-9.00 Sample No.: UD-4A Test No.: A-8
 Soil Description: _____ Tested By: WY Date: 16-1-1983

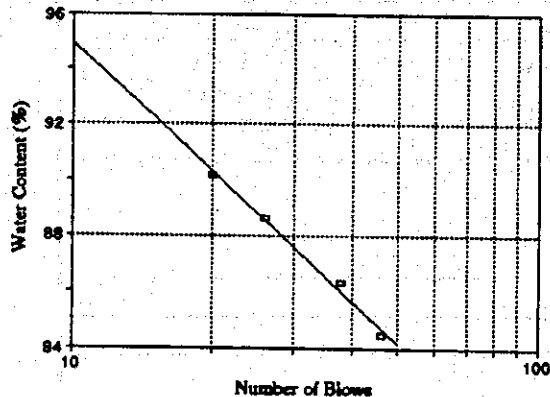
		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.					30
Weight of Container	g			3.13	3.18
Weight of Wet Soil + Container	g			11.00	10.91
Weight of Dry Soil + Container	g			8.73	8.68
Weight of Water	g			2.27	2.23
Weight of Dry Soil	g			5.60	5.50
Water Content	%			40.5	40.5
Average Water Content	%			40.5	

LIQUID LIMIT

	20	26	38	46	
Number of Blows					
Container No.	4	34	90	2	
Weight of Container	g	5.45	5.43	5.40	5.38
Weight of Wet Soil + Container	g	18.21	18.90	21.72	19.18
Weight of Dry Soil + Container	g	12.16	12.57	14.16	12.86
Weight of Water	g	6.05	6.33	7.56	6.32
Weight of Dry Soil	g	6.71	7.14	8.76	7.48
Water Content	%	90.2	88.7	86.3	84.5

Nat. Water Content	=	%
Liquid Limit, LL	=	88.8 %
Plastic Limit, PL	=	40.5 %
Plasticity Index, PI	=	48.3 %
Liquidity Index, LI	=	

Remarks: _____



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ATTERBERG LIMITS TEST

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 10.00-11.00 Sample No.: UD-5A Test No.: A-9
 Soil Description: _____ Tested By: WY Date: 17-1-1993

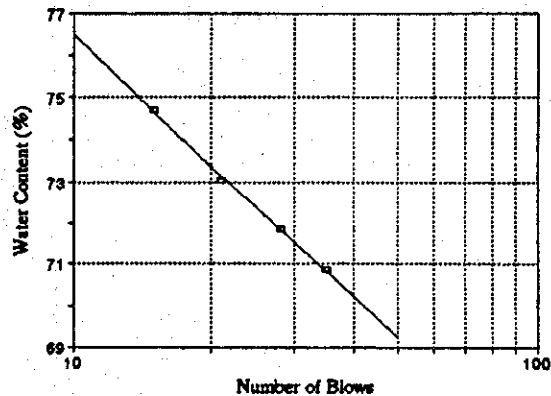
		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				3	23
Weight of Container	g			3.77	3.75
Weight of Wet Soil + Container	g			12.10	12.21
Weight of Dry Soil + Container	g			10.06	10.15
Weight of Water	g			2.04	2.06
Weight of Dry Soil	g			6.29	6.40
Water Content	%			32.4	32.2
Average Water Content	%			32.3	

LIQUID LIMIT

	15	21	28	35	
Number of Blows					
Container No.	41	2	4	59	
Weight of Container	g	5.45	4.64	4.68	5.46
Weight of Wet Soil + Container	g	24.04	24.85	24.03	24.46
Weight of Dry Soil + Container	g	16.09	16.32	15.94	16.58
Weight of Water	g	7.95	8.53	8.09	7.88
Weight of Dry Soil	g	10.64	11.68	11.26	11.12
Water Content	%	74.7	73.0	71.8	70.9

Nat. Water Content	=	%
Liquid Limit, LL	=	72.3 %
Plastic Limit, PL	=	32.3 %
Plasticity Index, PI	=	40.0 %
Liquidity Index, LI	=	

Remarks: _____



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ATTERBERG LIMITS TEST

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 12.00-13.00 Sample No.: UD-6A Test No.: A-10
 Soil Description: _____ Tested By: WY Date: 17-1-1993

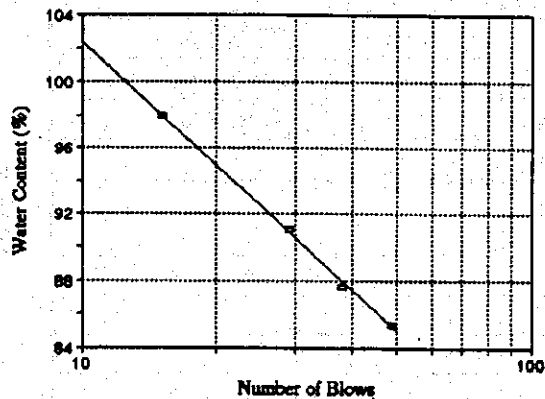
		NATURAL WATER CONTENT	PLASTIC LIMIT
Container No.			1 80
Weight of Container	g		3.31 3.17
Weight of Wet Soil + Container	g		10.27 10.63
Weight of Dry Soil + Container	g		8.72 8.94
Weight of Water	g		1.55 1.69
Weight of Dry Soil	g		5.41 5.77
Water Content	%		28.7 29.3
Average Water Content	%		29.0

LIQUID LIMIT

Number of Blows	15	29	38	49
Container No.	2	131	5	4
Weight of Container	g 5.42	4.65	5.43	4.67
Weight of Wet Soil + Container	g 25.77	21.56	22.60	22.28
Weight of Dry Soil + Container	g 15.70	13.50	14.58	14.17
Weight of Water	g 10.07	8.06	8.02	8.11
Weight of Dry Soil	g 10.28	8.85	9.15	9.50
Water Content	% 98.0	91.1	87.7	85.4

Nat. Water Content	=	%
Liquid Limit, LL	=	92.5 %
Plastic Limit, PL	=	29.0 %
Plasticity Index, PI	=	63.5 %
Liquidity Index, LI	=	

Remarks: _____



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ATTERBERG LIMITS TEST

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 14.00-15.00 Sample No.: UD-7A Test No.: A-11
 Soil Description: _____ Tested By: WY Date: 17-1-1993

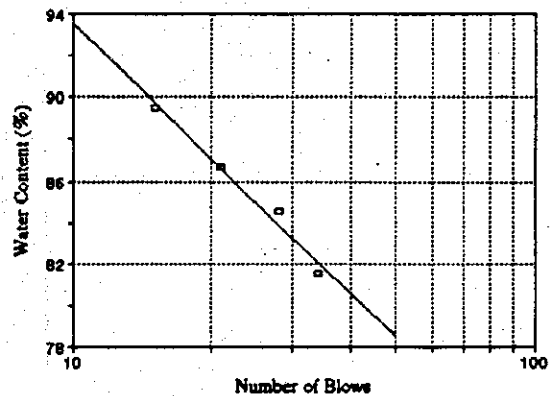
		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				1	38
Weight of Container	g			3.79	3.61
Weight of Wet Soil + Container	g			10.04	9.72
Weight of Dry Soil + Container	g			8.44	8.14
Weight of Water	g			1.60	1.58
Weight of Dry Soil	g			4.65	4.53
Water Content	%			34.4	34.9
Average Water Content	%			34.6	

LIQUID LIMIT

Number of Blows		15	21	28	34
Container No.		62	57	32	66
Weight of Container	g	5.52	5.44	5.44	5.45
Weight of Wet Soil + Container	g	23.73	23.83	23.27	23.35
Weight of Dry Soil + Container	g	15.13	15.29	15.10	15.31
Weight of Water	g	8.60	8.54	8.17	8.04
Weight of Dry Soil	g	9.61	9.85	9.66	9.86
Water Content	%	89.5	86.7	84.6	81.5

Net. Water Content	=	%
Liquid Limit, LL	=	85.0 %
Plastic Limit, PL	=	34.6 %
Plasticity Index, PI	=	50.3 %
Liquidity Index, LI	=	

Remarks: _____



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ATTERBERG LIMITS TEST

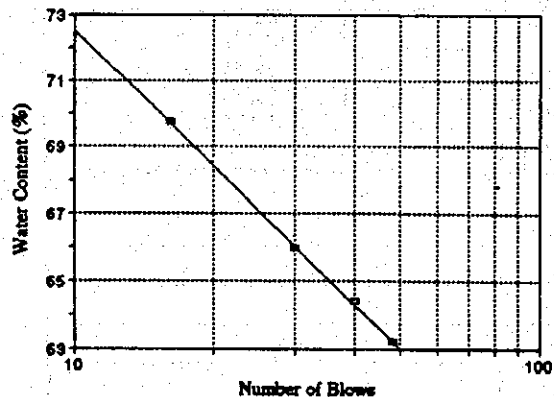
Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/3 Depth (m) 16.00-17.00 Sample No.: UD-8A Test No.: A-12
 Soil Description: _____ Tested By: WY Date: 17-1-1993

		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				1	7
Weight of Container	g			3.32	3.18
Weight of Wet Soil + Container	g			9.61	9.64
Weight of Dry Soil + Container	g			8.22	8.55
Weight of Water	g			1.39	1.09
Weight of Dry Soil	g			4.90	5.37
Water Content	%			28.4	20.3
Average Water Content	%			24.3	

LIQUID LIMIT

Number of Blows		48	40	30	16
Container No.		2	41	32	66
Weight of Container	g	4.62	5.45	5.46	5.45
Weight of Wet Soil + Container	g	22.85	25.41	23.07	22.00
Weight of Dry Soil + Container	g	15.79	17.59	16.07	15.20
Weight of Water	g	7.06	7.82	7.00	6.80
Weight of Dry Soil	g	11.17	12.14	10.61	9.75
Water Content	%	63.2	64.4	66.0	69.7

Nat. Water Content	=	24.3	%
Liquid Limit, LL	=	67.1	%
Plastic Limit, PL	=	24.3	%
Plasticity Index, PI	=	42.8	%
Liquidity Index, LI	=		
Remarks: _____			



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ATTERBERG LIMITS TEST

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/1 Depth (m) 102.00-102.80 Sample No.: UD-C-1A Test No.: A-4
 Soil Description: _____ Tested By: WY Date: 5-2-1993

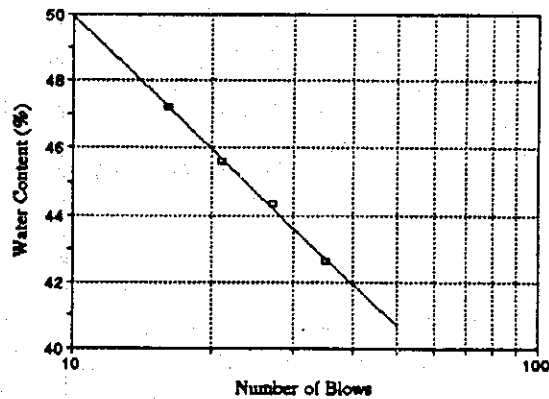
		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				32	86
Weight of Container	g			3.29	3.16
Weight of Wet Soil + Container	g			11.55	11.32
Weight of Dry Soil + Container	g			10.32	10.10
Weight of Water	g			1.23	1.22
Weight of Dry Soil	g			7.03	6.94
Water Content	%			17.5	17.6
Average Water Content	%			17.5	

LIQUID LIMIT

		16	21	27	35
Number of Blows					
Container No.		66	2	6	4
Weight of Container	g	5.42	5.37	5.46	4.66
Weight of Wet Soil + Container	g	21.88	21.36	21.76	21.65
Weight of Dry Soil + Container	g	16.60	16.35	16.75	16.57
Weight of Water	g	5.28	5.01	5.01	5.08
Weight of Dry Soil	g	11.18	10.98	11.29	11.91
Water Content	%	47.2	45.6	44.4	42.7

Nat. Water Content	=	44.0 %
Liquid Limit, LL	=	44.7 %
Plastic Limit, PL	=	17.5 %
Plasticity Index, PI	=	27.1 %
Liquidity Index, LI	=	0.98

Remarks: _____



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ATTERBERG LIMITS TEST

Project: Subsidence in Bangkok Vicinity Location: _____
 Borehole No.: A-1/1 Depth (m) 118.00-119.00 Sample No.: UD-C-2A Test No.: A-3
 Soil Description: _____ Tested By: WY Date: 5-2-1993

		NATURAL WATER CONTENT		PLASTIC LIMIT	
Container No.				1	64
Weight of Container	g			3.31	3.19
Weight of Wet Soil + Container	g			9.58	10.91
Weight of Dry Soil + Container	g			8.59	9.68
Weight of Water	g			0.99	1.23
Weight of Dry Soil	g			5.28	6.49
Water Content	%			18.8	19.0
Average Water Content	%			18.9	

LIQUID LIMIT

	15	23	28	35
Container No.	37	71	15	40
Weight of Container	g 5.27	g 5.58	g 5.44	g 5.53
Weight of Wet Soil + Container	g 20.26	g 20.99	g 20.81	g 20.23
Weight of Dry Soil + Container	g 15.06	g 15.92	g 15.71	g 15.49
Weight of Water	g 5.20	g 5.07	g 5.10	g 4.74
Weight of Dry Soil	g 9.79	g 10.34	g 10.27	g 9.96
Water Content	% 53.1	% 49.0	% 49.7	% 47.6

Nat. Water Content	=	%
Liquid Limit, LL	=	49.6 %
Plastic Limit, PL	=	18.9 %
Plasticity Index, PI	=	30.8 %
Liquidity Index, LI	=	

Remarks: _____

