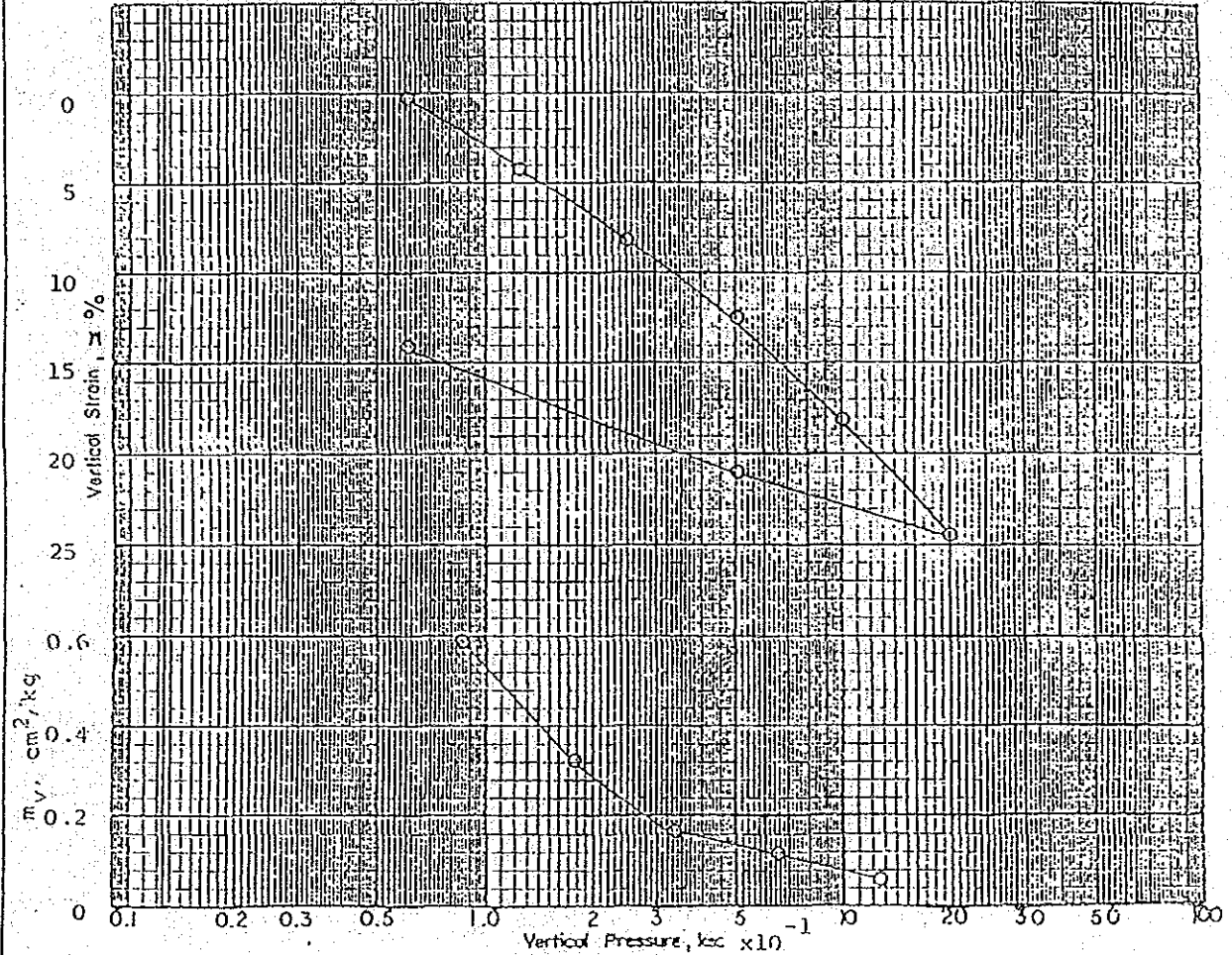


## CONSOLIDATION TEST RESULTS

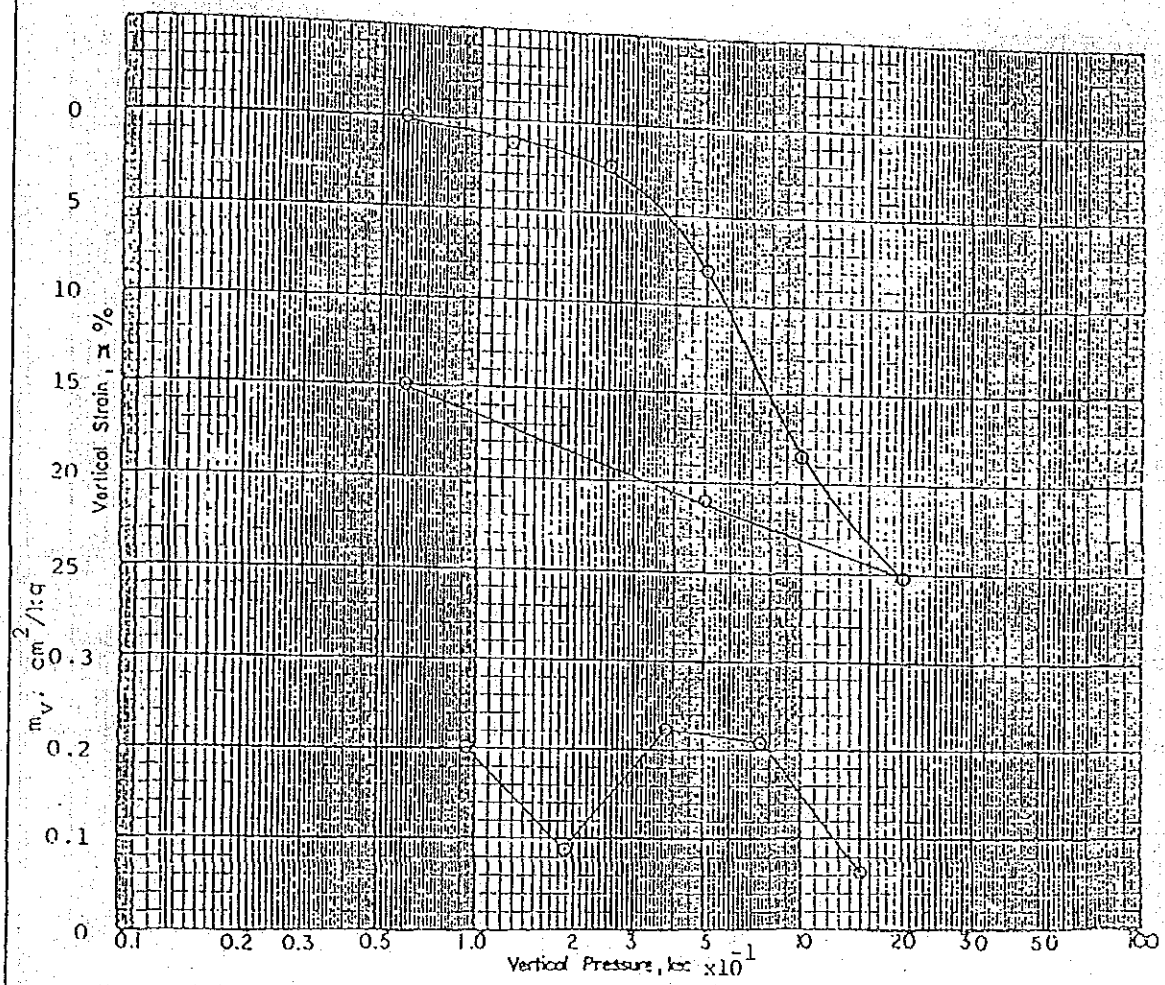
Project Model Infrastructure Project	Location Chareonraj Pumping station Bang Bo Samut Prakan Province	Job No. 1488
Boring No. B-2	Sample No. PST-1	Depth 1.00-1.80 m. Date 9/3/88



Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm/sec}$	Vertical Strain, $\epsilon$ %		
					Initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 87.5
Initial					Degree of Saturation, S	% 100
0.06	79.21	2.8	0.14	0.31	Solid Height of Sample, $H_s$	0.75 cm.
0.125	43.56	4.8	2.81	4.12	Diameter of Sample D	6.35 cm.
0.25	42.25	4.6	1.50	8.20	Wet Unit Weight $\gamma_t$	1.49 g/cc
0.50	54.02	3.2	0.56	12.54	Dry Unit Weight $\gamma_d$	0.80 g/cc
1	42.90	3.5	0.29	18.12	Liquid Limit LL	86.2 %
2	53.29	2.4	0.15	24.48	Plastic Limit PL	32.6 %
8					Compression Ratio CR	
6					Recompression Ratio RR	
					Specific Gravity G	2.65

# CONSOLIDATION TEST RESULTS

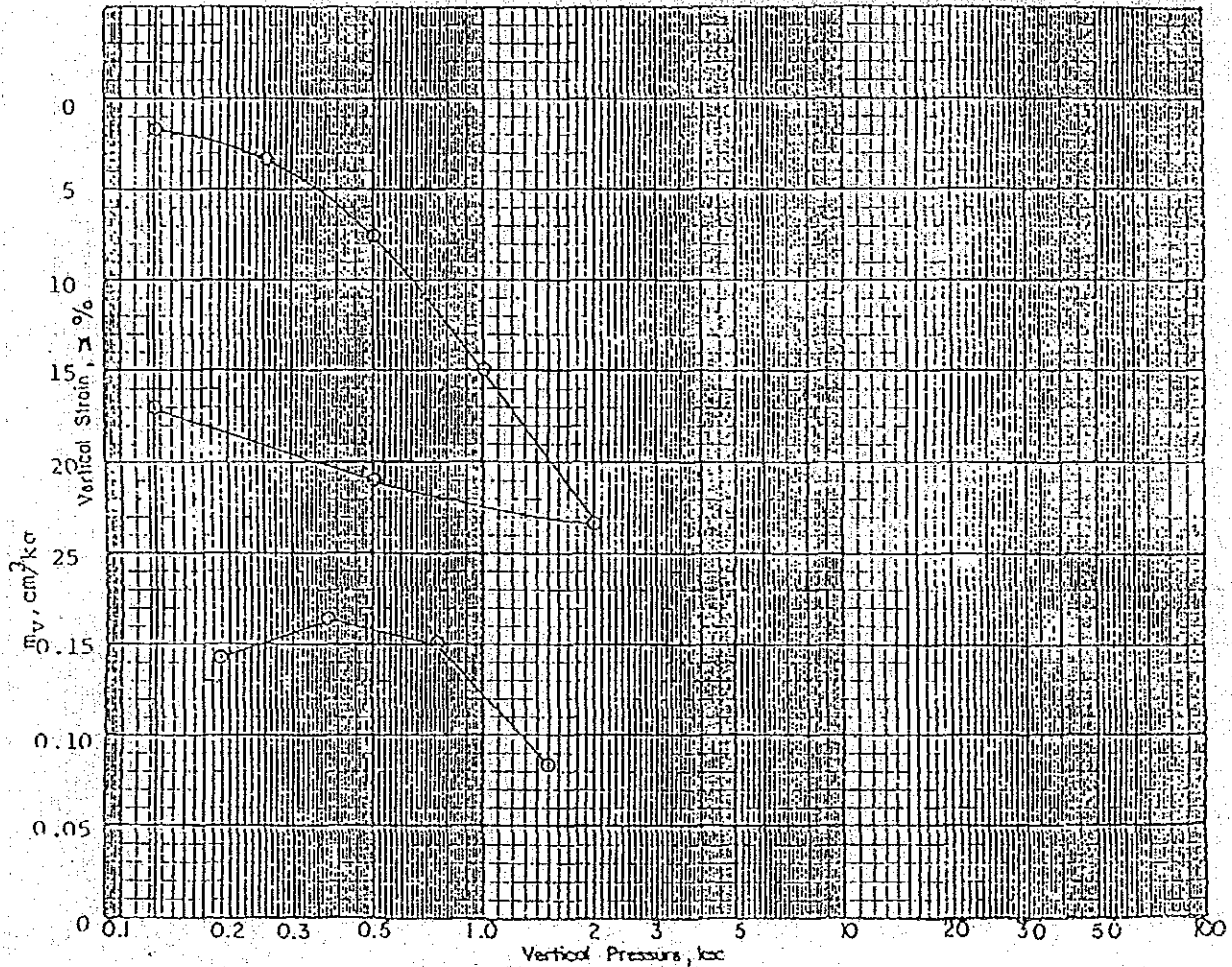
Project Model Infrastructure Project Location Chareonraj Pumping station  
 Boring No. B-2 Sample No. PST-5 Depth 5.00-5.80 m. Date 9/3/88  
 Job No. 1488  
 Location Bang Bo, Samut Prakan Province



Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm}/\text{sec}$	Vertical Strain, $\epsilon$ %	$\sigma_{vm} = 0.35 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 92.6
Initial	—	—			Degree of Saturation, S	% 96
0.06	—			0.02	Solid Height of Sample, $H_s$	0.698 cm.
0.125	25.0	8.6	1.72	1.32	Diameter of Sample $D$	6.35 cm.
0.25	25.0	8.4	0.74	2.42	Wet Unit Weight $\gamma_t$	1.43 g/cc
0.50	73.96	2.6	0.58	7.97	Dry Unit Weight $\gamma_d$	0.75 g/cc
1	50.41	3.0	0.63	18.54	Liquid Limit LL	86.6 %
2	26.52	4.9	0.33	25.19	Plastic Limit PL	34.9 %
8					Compression Ratio CR	0.36
16					Recompression Ratio RR	0.04
					Specific Gravity G	2.67

## CONSOLIDATION TEST RESULTS

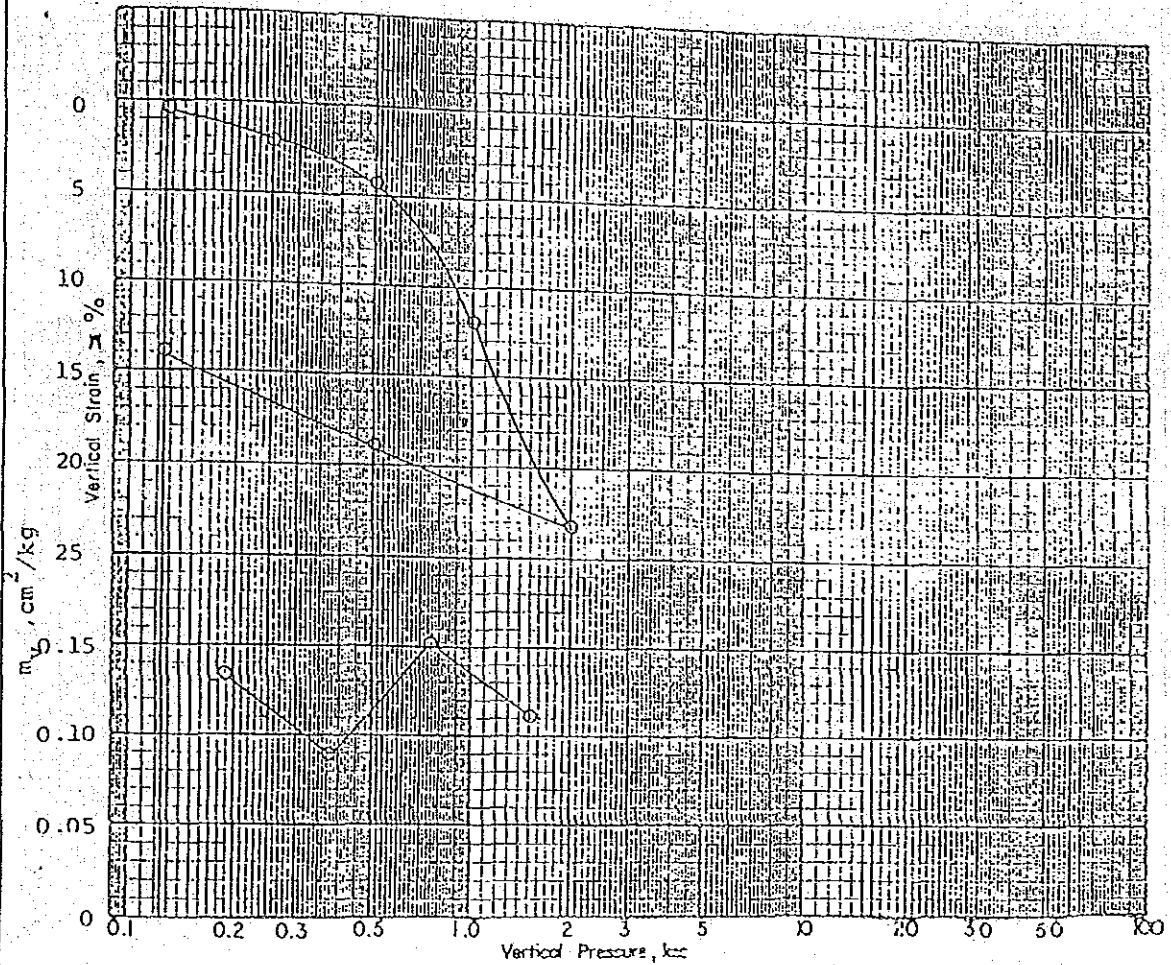
Project	Model Infrastructure Project	Location	Chareonraj Pumping station Bang Bo, Samut Prakan Province	Job No.	1488
Boring No.	B-2	Sample No.	PST-7	Depth	7.0-7.80 m. Date 9/3/88



Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm/sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.4 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 87.8
Initial	—	—			Degree of Saturation, S	% 96
0.125	3.61	59.9	7.76	1.62	Solid Height of Sample, $H_s$	0.73 cm.
0.25	23.04	9.0	1.28	3.40	Diameter of Sample, $D$	6.35 cm.
0.50	21.16	9.1	1.40	7.19	Wet Unit Weight, $\gamma_t$	1.45 g/cc
1	42.90	3.8	0.57	14.99	Dry Unit Weight, $\gamma_d$	0.77 g/cc
2	43.56	3.1	0.26	23.36	Liquid Limit, LL	%
4					Plastic Limit, PL	%
8					Compression Ratio CR	0.26
16					Recompression Ratio RR	0.06
					Specific Gravity, G	2.66

## CONSOLIDATION TEST RESULTS

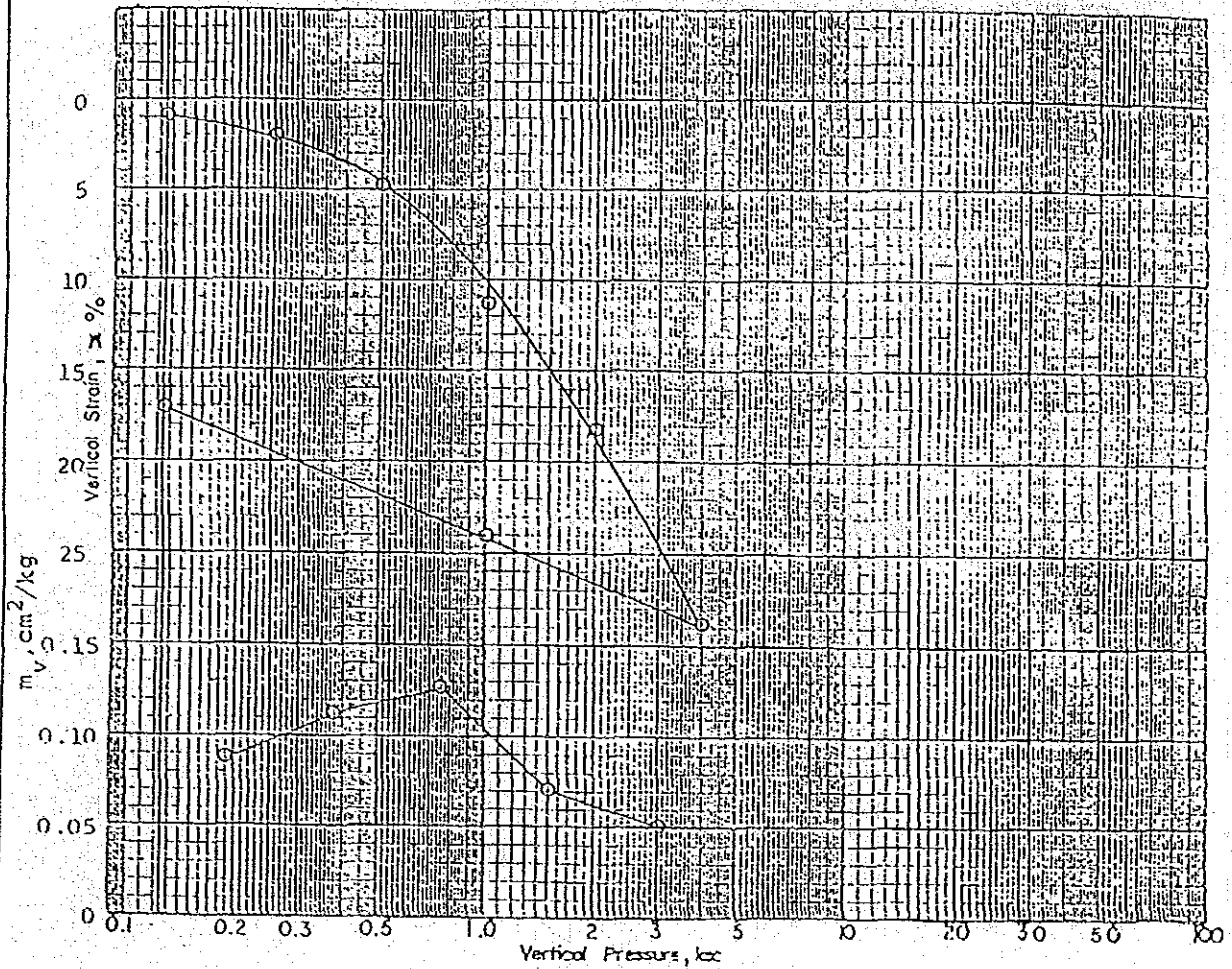
Project Model Infrastructure Project		Location Chareonraj Pumping station		Job No. 1488
		Bang Bo, Samut Prakan Province		
Boring No. B-2	Sample No. PST-9	Depth 9.10-9.90 m.	Date 9/3/88	



Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_c, 10^{-4} \frac{cm^2}{sec}$	Coef. of Permeability $K, 10^{-7} \frac{cm}{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.62 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 97.2
Initial	—	—	—		Degree of Saturation, S	% 99
0.125	-	-	-	0.41	Solid Height of Sample, $H_s$	0.69 cm.
0.25	11.56	18.6	2.49	2.09	Diameter of Sample $\phi$	6.35 cm.
0.50	17.64	11.2	0.99	4.32	Wet Unit Weight $\gamma_t$	1.45 g/cc
1	60.0	2.7	0.41	11.97	Dry Unit Weight $\gamma_d$	0.74 g/cc
2	67.24	1.8	0.20	23.20	Liquid Limit LL	107.4 %
4					Plastic Limit PL	36.8 %
8					Compression Ratio CR	0.40
16					Recompression Ratio RR	0.055
					Specific Gravity G	2.65

## CONSOLIDATION TEST RESULTS

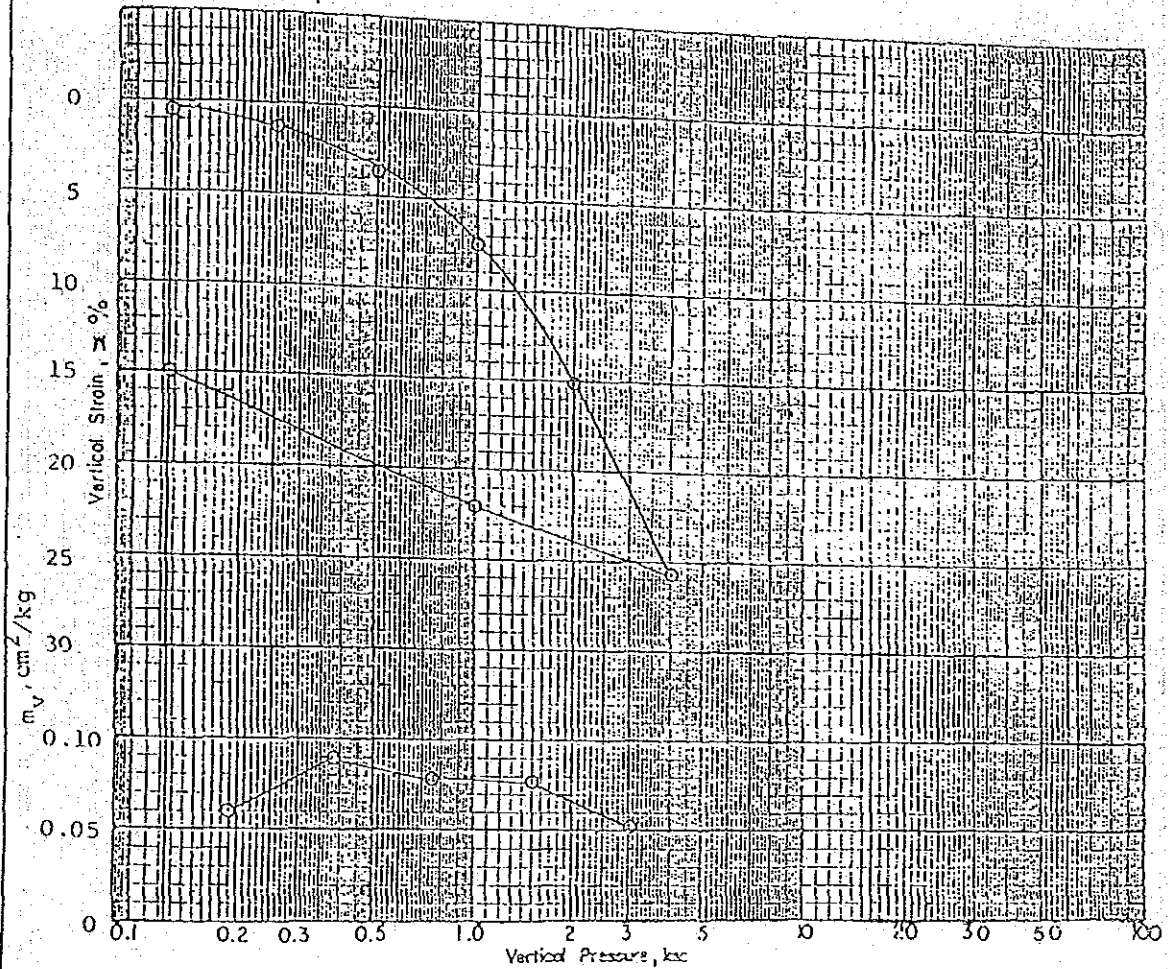
Project Model Infrastructure Project		Location Chareonraj Pumping station Bang. Bo, Samut Prakan Province		Job No 1488
Boring No. B-2	Sample No. PST-11	Depth 11.00-11.80 m.	Date 9/3/88	



Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \frac{cm^2}{sec}$	Coef. of Permeability $K, 10^{-7} \frac{cm}{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.78 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 102.5
					Degree of Saturation, S	% 98
0.125	7.84	27.8	2.07	0.93	Solid Height of Sample, H <sub>s</sub>	0.66 cm.
0.25	19.36	11.0	0.97	2.03	Diameter of Sample D	6.35 cm.
0.50	27.04	7.5	0.85	4.86	Wet Unit Weight $\gamma_t$	1.43 g/cc
1	104.04	1.7	0.22	11.27	Dry Unit Weight $\gamma_d$	0.70 g/cc
2	40.96	3.7	0.27	18.44	Liquid Limit LL	%
4	44.89	2.7	0.14	28.75	Plastic Limit PL	%
8					Compression Ratio CR	0.35
8					Recompression Ratio RR	0.042
					Specific Gravity G	2.65

## CONSOLIDATION TEST RESULTS

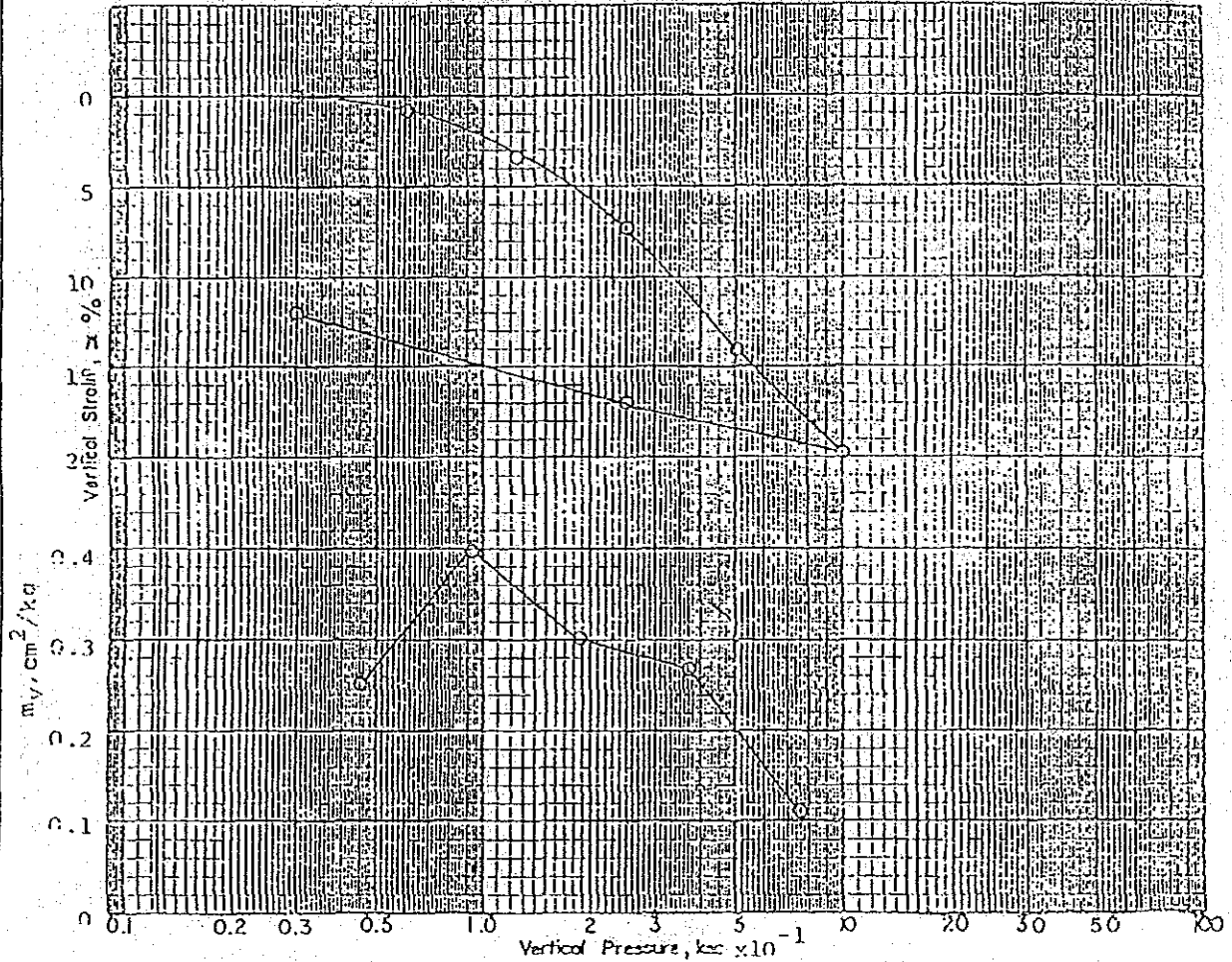
Project Model Infrastructure Project Location Chareonraj Pumping station  
 Bang Bo, Samut Prakan Province Job No 1488  
 Boring No. B-2 Sample No. PST-14 Depth 14.00-14.80 m. Date 9/3/88



Pressure Ksc	90% Consol Time min	Coef. of Consolidation C <sub>r</sub> , 10 <sup>-4</sup> cm <sup>2</sup> /sec	Coef. of Permeability K, 10 <sup>-7</sup> cm/sec	Vertical Strain, ε %	σ <sub>vm</sub> = 1.0 ksc	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 88.9
Initial	—	—			Degree of Saturation, S	% 97
0.125	3.61	60.7	2.77	0.57	Solid Height of Sample, H <sub>s</sub>	0.73 cm.
0.25	17.64	12.2	0.72	1.31	Diameter of Sample D	6.35 cm.
0.50	17.64	11.7	1.06	3.57	Wet Unit Weight γ <sub>t</sub>	1.45 g/cc
1	30	6.4	0.51	7.52	Dry Unit Weight γ <sub>d</sub>	0.77 g/cc
2	60	2.7	0.21	15.26	Liquid Limit LL	112.4 %
4	49	2.7	0.14	25.60	Plastic Limit PL	42.3 %
8					Compression Ratio CR	0.37
ks					Recompression Ratio RR	0.045
					Specific Gravity G	2.64

## CONSOLIDATION TEST RESULTS

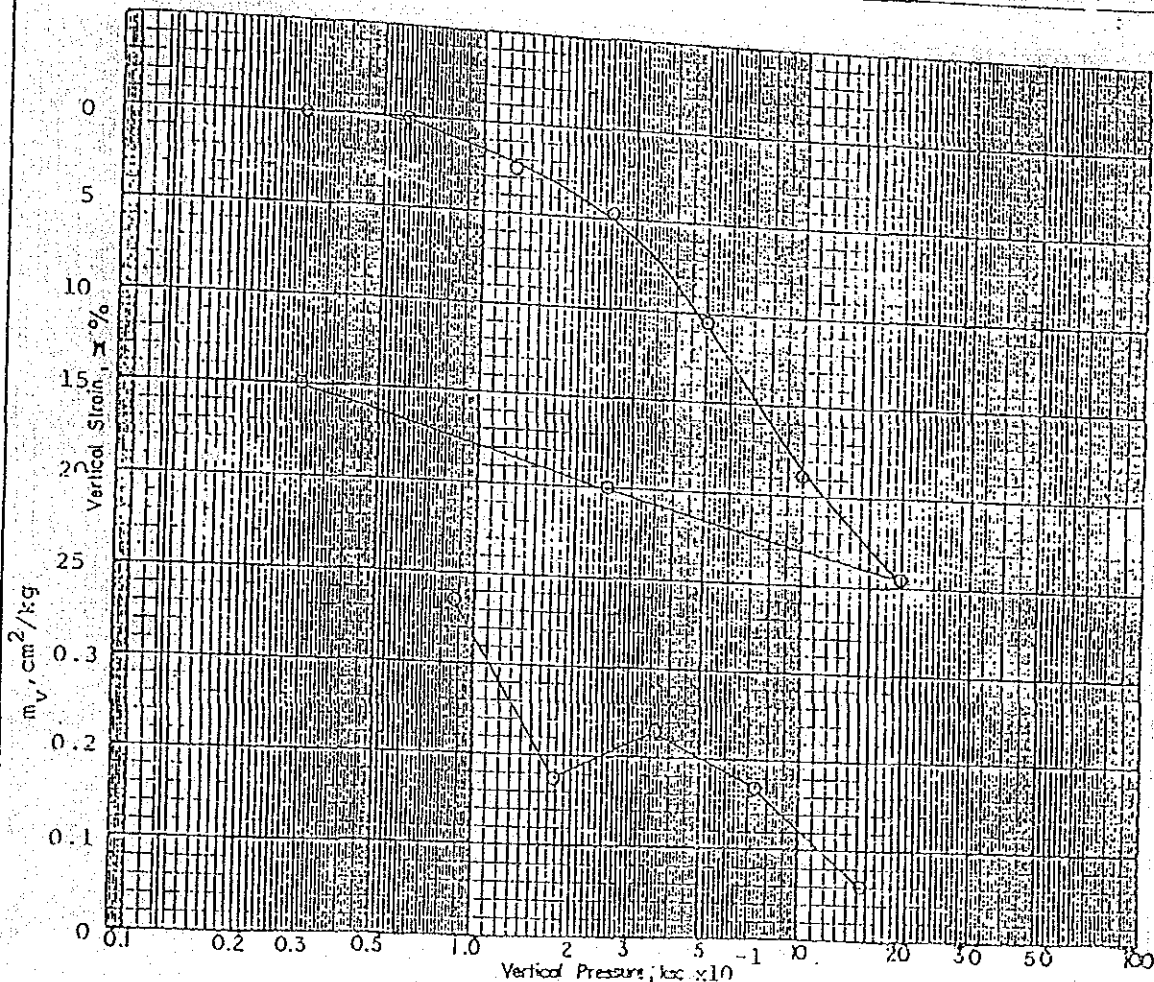
Project Model Infrastructure Project	Location Chareonraj Pumping station Bang Bo, Samut Prakan Province	Job No. 1488
Boring No. B-3	Sample No. PST-1	Depth 1.00-1.80 m. Date 8/3/88



Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_c, 10^{-4} \frac{cm^2}{sec}$	Coef. of Permeability $K, 10^{-7} \frac{cm}{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.16 \text{ ksc}$	initial	Final
					Height of Sample, H	cm. 2.50	
					Water Content, W	% 91.2	
Initial					Degree of Saturation, S	% 97	
0.03				0.71	Solid Height of Sample, H <sub>s</sub>	0.70	cm.
0.06	7.84	27.8	6.95	0.76	Diameter of Sample, D	6.35	cm.
0.125	15.0	13.9	5.60	3.38	Wet Unit Weight, $\gamma$	1.44	g/cc
0.25	31.36	6.2	1.92	7.24	Dry Unit Weight, $\gamma_d$	0.74	g/cc
0.50	36.0	4.7	1.28	14.05	Liquid Limit, LL	92.5	%
1	36.0	4.1	0.46	19.70	Plastic Limit, PL	34.4	%
2					Compression Ratio CR	0.21	
4					Recompression Ratio RR	0.03	
					Specific Gravity, G	2.65	

# CONSOLIDATION TEST RESULTS

Project Model Infrastructure Project Location Chareonraj Pumping station  
 Boring No. B-3 Sample No. PST-5 Depth 5.00-5.80 m. Job No. 1488  
 Date 8/3/88

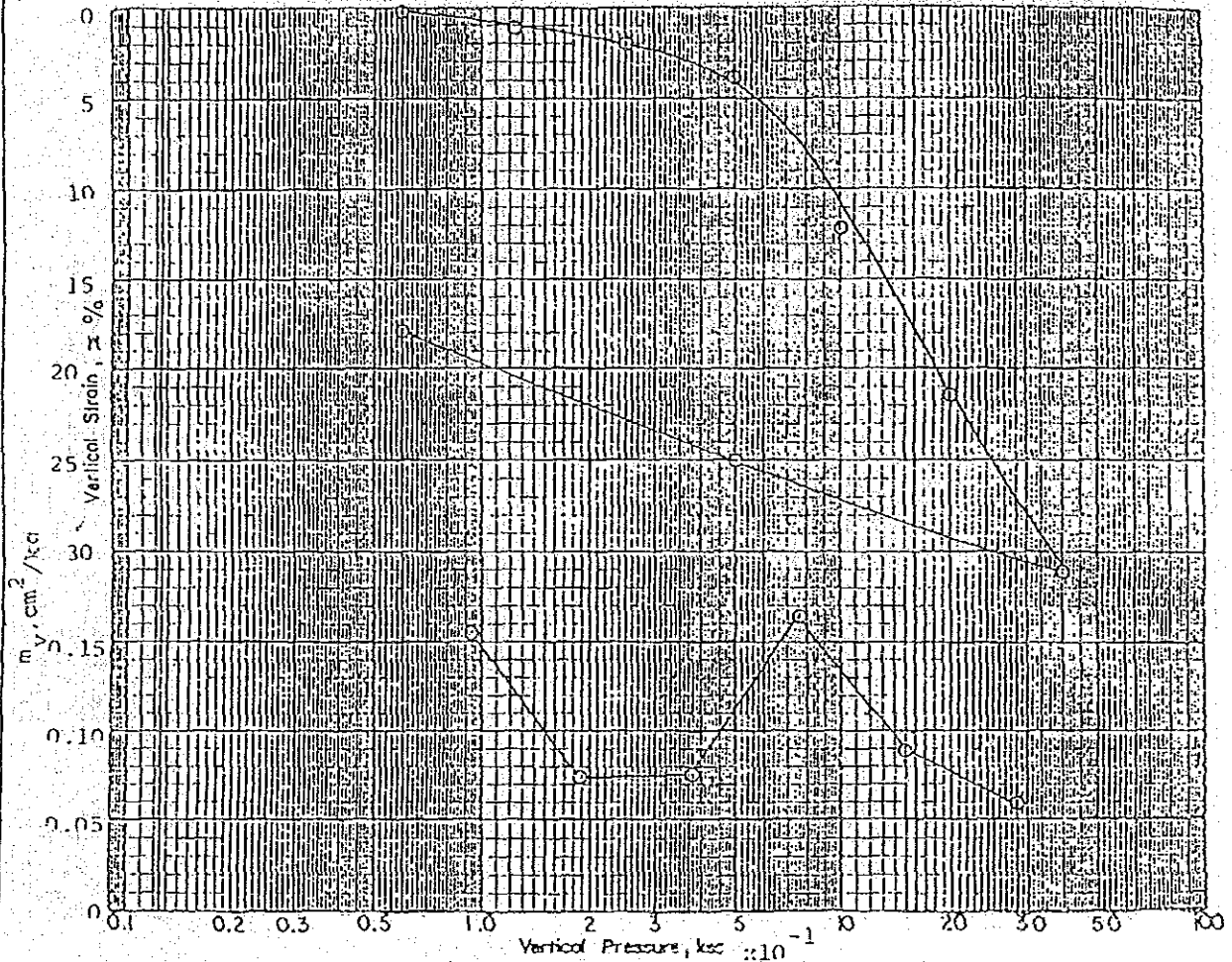


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \frac{cm^2}{sec}$	Coef. of Permeability $K, 10^{-7} \frac{cm}{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.3 \text{ ksc}$	
					initial	Final
					Height of Sample, H cm.	2.5
					Water Content, W %	90.3
Initial					Degree of Saturation, S %	98
0.03				0.01	Solid Height of Sample, Hs cm.	0.73
0.06				0.03	Diameter of Sample D cm.	6.35
0.125	10.24	20.6	7.70	2.46	Wet Unit Weight $\gamma$ g/cc	1.47
0.25	23.04	8.7	1.54	4.67	Dry Unit Weight $\gamma_d$ g/cc	0.77
0.50	33.44	4.7	1.09	10.46	Liquid Limit LL %	86.2
1	34.31	4.4	0.74	18.83	Plastic Limit PL %	35.5
2	38.44	3.3	0.19	24.70	Compression Ratio CR	0.28
4					Precompression Ratio PR	0.06
6					Specific Gravity G	2.65



## CONSOLIDATION TEST RESULTS

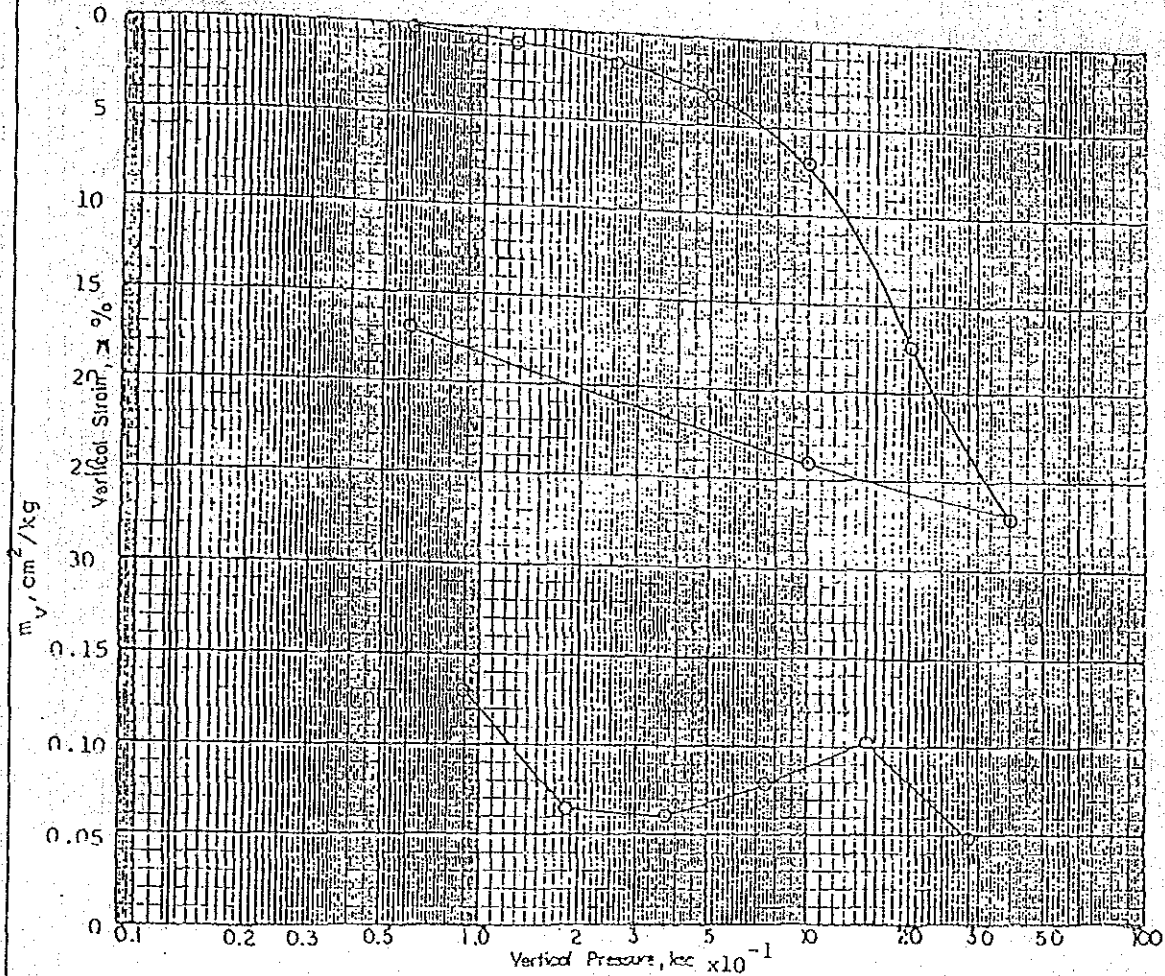
Project Model Infrastructure Project		Location Chareonraj Pumping station Bang. Bo Samut Prakan Province		Job No. 1408
Boring No. B-3	Sample No. PST-9	Depth 9.00-9.80	m.	Date 8/3/88



Pressure Ksc	90% Consol. Time, min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm/sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.6 \text{ ksc}$	
					Height of Sample, H cm	Final
Initial	—	—	—	—	Water Content, W %	98.4
0.06	—	—	—	0.12	Degree of Saturation, S %	100
0.125	4.84	44.7	6.95	1.13	Solid Height of Sample, $H_s$ cm	0.67
0.25	6.76	31.5	2.34	2.06	Diameter of Sample cm	6.35
0.50	13.69	15.0	1.14	3.96	Wet Unit Weight $\gamma_1$ g/cc	1.44
1	51.34	3.4	0.56	12.17	Dry Unit Weight $\gamma_d$ g/cc	0.73
2	39.69	3.7	0.33	21.08	Liquid Limit LL %	100.7
4	34.31	3.3	0.19	31.25	Plastic Limit PL %	38.2
B	—	—	—	—	Compression Ratio CR	0.34
					Recompression Ratio RR	0.036
					Specific Gravity G	2.70

## CONSOLIDATION TEST RESULTS

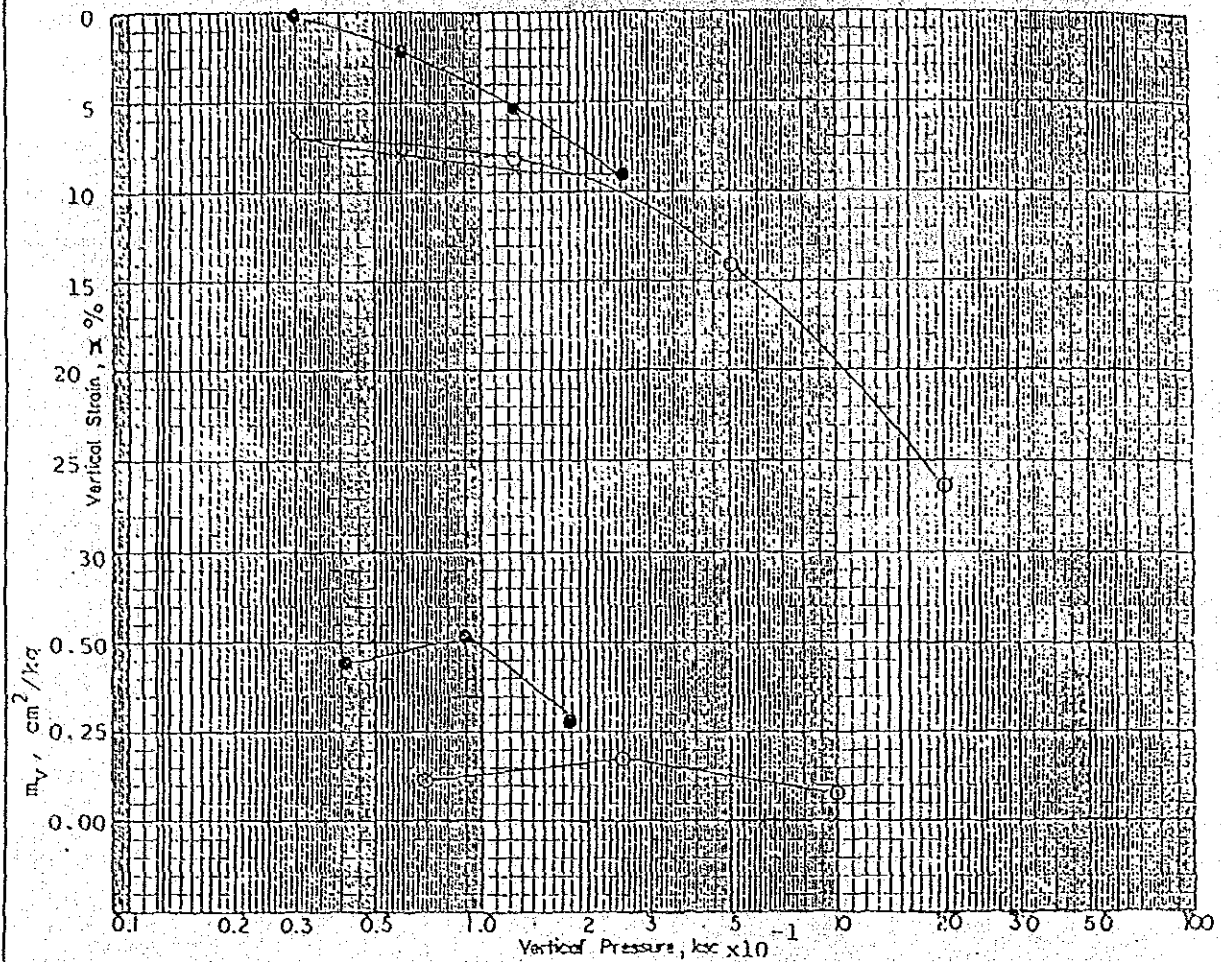
Project Model Infrastructure Project Location Chareonraj Pumping station  
 Band. Bo. Samut Prakan Province Job No 1488  
 Boring No. B-3 Sample No. PST-13 Depth 13.0-13.8 m. Date 11/3/88



Pressure Ksc	90% Consol. Time min	Coef. of Consolidation C <sub>v</sub> , 10 <sup>-4</sup> cm <sup>2</sup> / sec	Coef. of Permeability K, 10 <sup>-7</sup> cm/sec	Vertical Strain, ε %	$\bar{\sigma}_{vm} = 0.05$ ksc	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 92.3
Initial					Degree of Saturation, S	% 97
0.06				0.016	Solid Height of Sample, H <sub>s</sub>	0.71 cm.
0.125	7.29	29.7	3.95	0.88	Diameter of Sample D	6.35 cm.
0.25	17.64	12.0	0.78	1.69	Wet Unit Weight $\gamma_1$	1.44 g/cc
0.50	26.01	7.8	0.48	3.22	Dry Unit Weight $\gamma_d$	0.75 g/cc
1	33.06	5.6	0.43	7.08	Liquid Limit LL	119.8 %
2	75.69	1.9	0.19	17.43	Plastic Limit PL	42.1 %
4	68.89	1.4	0.007	27.13	Compression Ratio CR	0.35
8					Precompression Ratio PR	0.025
					Specific Gravity G	2.65

## CONSOLIDATION TEST RESULTS

Project Model Infrastructure Project Location Chareonraj Pumping Station  
 Bang Bo, Samut Prakan Province Job No. 1488  
 Boring No. B-5 Sample No. PST-1 Depth 1.00-1.80 m. Date 4/4/88

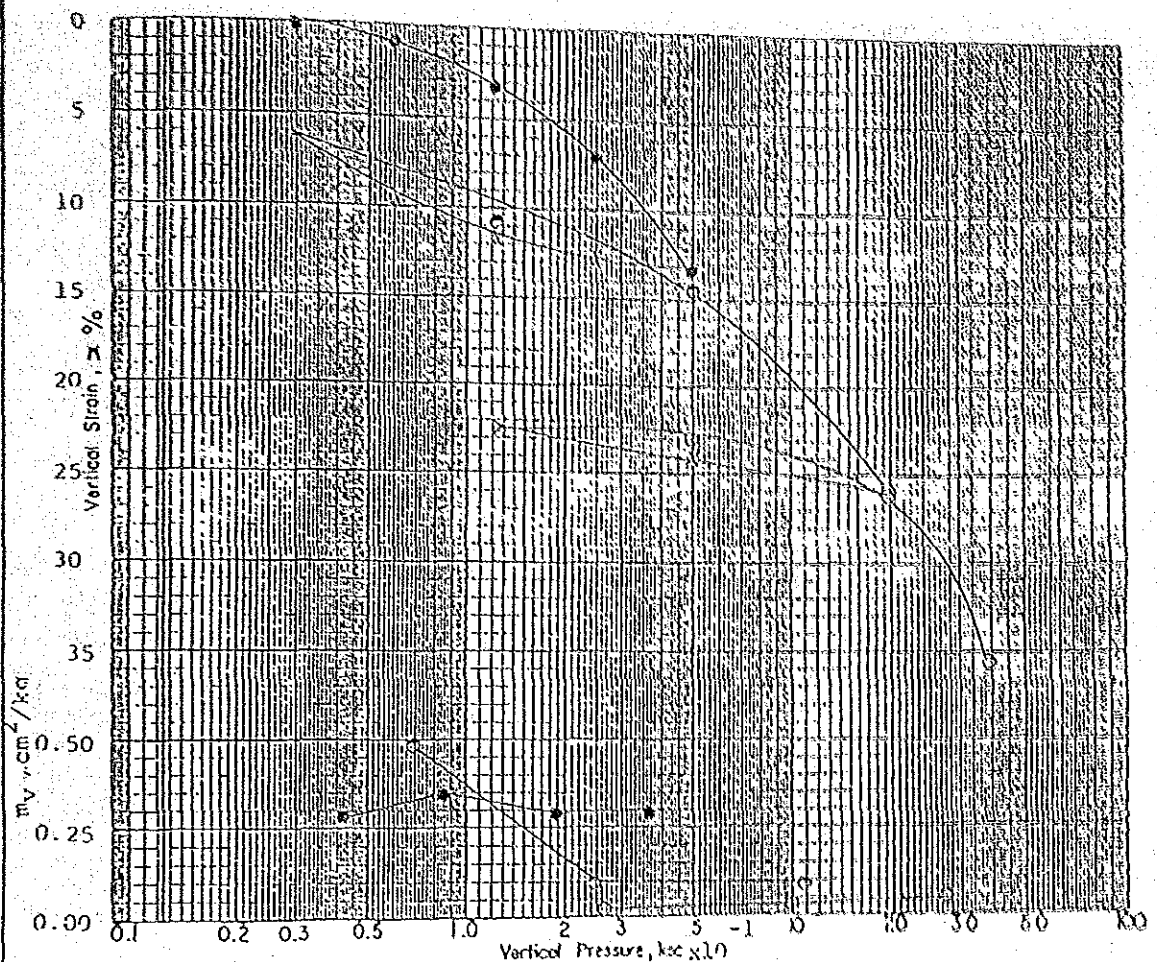


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm}/\text{sec}$	Vertical Strain, $\epsilon$ %	$\sigma_{vm} = 0.39 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 66.8
Initial	—	—			Degree of Saturation, S	% 0.8
0.03	7.18	3.07	0.73	0.71	Solid Height of Sample, H <sub>s</sub>	0.39 cm.
0.06	43.56	4.90	2.16	2.03	Diameter of Sample D	6.35 cm.
0.125	51.84	3.85	1.98	5.38	Wet Unit Weight $\gamma_t$	1.57 g/cc
0.25	77.44	2.39	0.69	8.99	Dry Unit Weight $\gamma_d$	0.94 g/cc
0.125	13.32	1.38	0.02	8.82	Liquid Limit LL	95.0 %
0.06	21.62	8.62	1.06	8.02	Plastic Limit PL	33.3 %
0.03	34.44	5.53	1.95	6.96	Compression Ratio CR	0.195
0.125	23.23	8.04	0.98	8.12	Recompression Ratio RR	0.08
0.5	55.95	2.97	0.47	14.02	Specific Gravity G	2.64
2	61.62	2.02	0.17	26.42		

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# CONSOLIDATION TEST RESULTS

Project: Model Infrastructure Project  
 Location: Chareonraj Pumping Station, Bang Bo Samut Prakan Province.  
 Well No: 1498  
 Spring No: R-5  
 Sample No: PST-3  
 Depth: 3.00-3.80 m  
 Date: 29/3/98

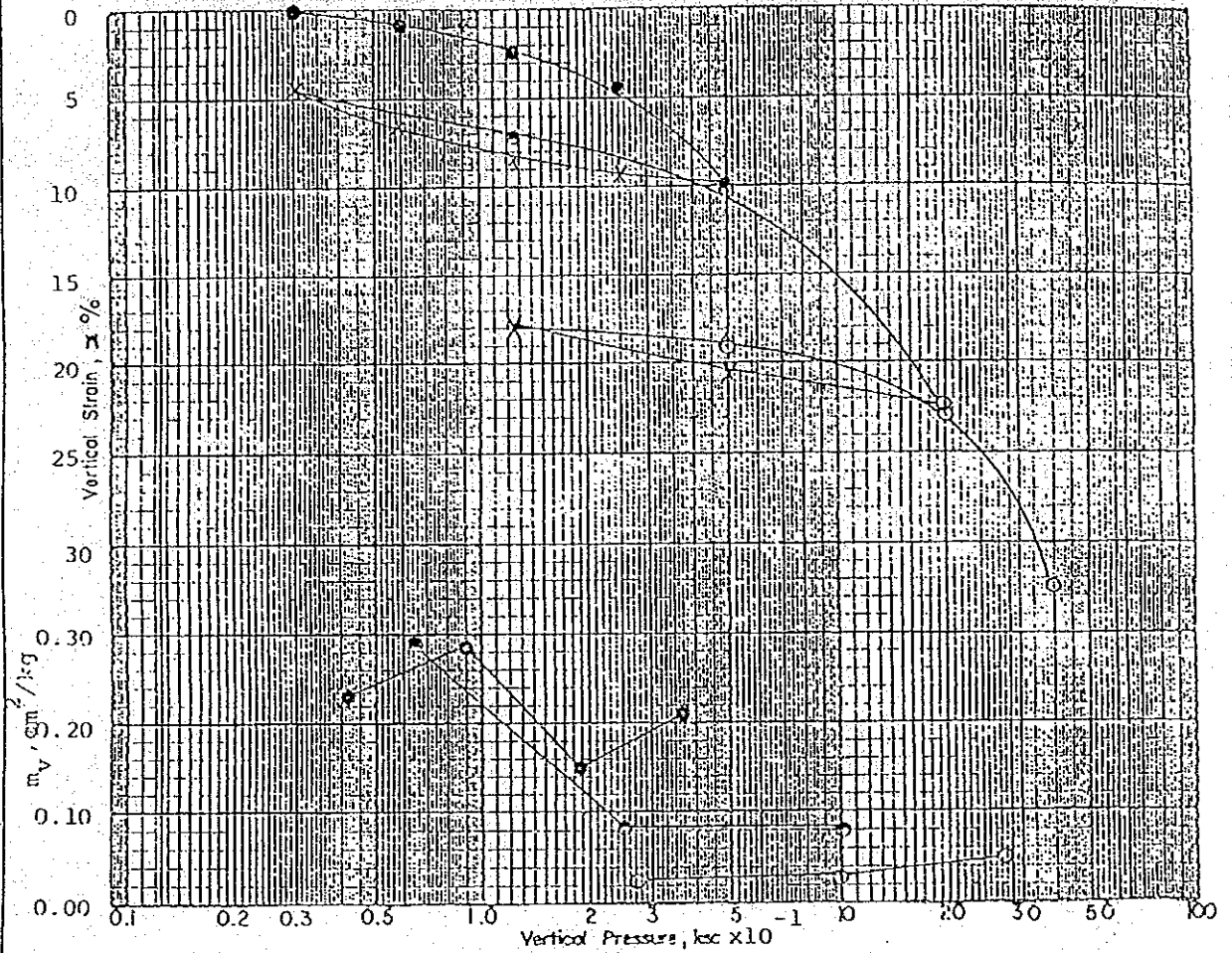


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm/sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.21 \text{ kg/cm}^2$	
					Initial	Final
					Height of Sample, H	cm, 2.5
					Water Content, W	% 93.0
					Degree of Saturation, S	% 97
0.06	8	27.22	6.99	0.79	Solid Height of Sample, H <sub>s</sub>	0.67 cm
0.125	25	8.30	3.22	3.31	Diameter of Sample, D	6.35 cm
0.25	46.74	4.19	1.18	6.83	Wet Unit Weight, $\gamma_t$	1.44 g/cc
0.50	55.95	3.03	0.79	13.31	Dry Unit Weight, $\gamma_d$	0.75 g/cc
0.125	23.04	7.68	3.74	10.72	Liquid Limit, LL	95.5 %
0.5	23.81	6.99	0.66	14.32	Plastic Limit, PL	36.2 %
2.0	32.04	3.92	0.30	25.81	Compression Ratio, CR	0.97
0.125	4.84	27.42	1.19	22.35	Recompression Ratio, RR	0.23
0.5	6	21.89	0.33	22.92	Specific Gravity, G	2.65
2.0	21.8	5.53	0.13	26.31		
4.0	8.29	13.09	0.61	35.56		

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## CONSOLIDATION TEST RESULTS

Project Model Infrastructure Project	Location Chareonraj Pumping Station Bang Bo, Samut Prakan Province	Job No 1488
Boring No. B-5	Sample No. PST-5	Depth 5.00-5.80 m. Date 4/4/88

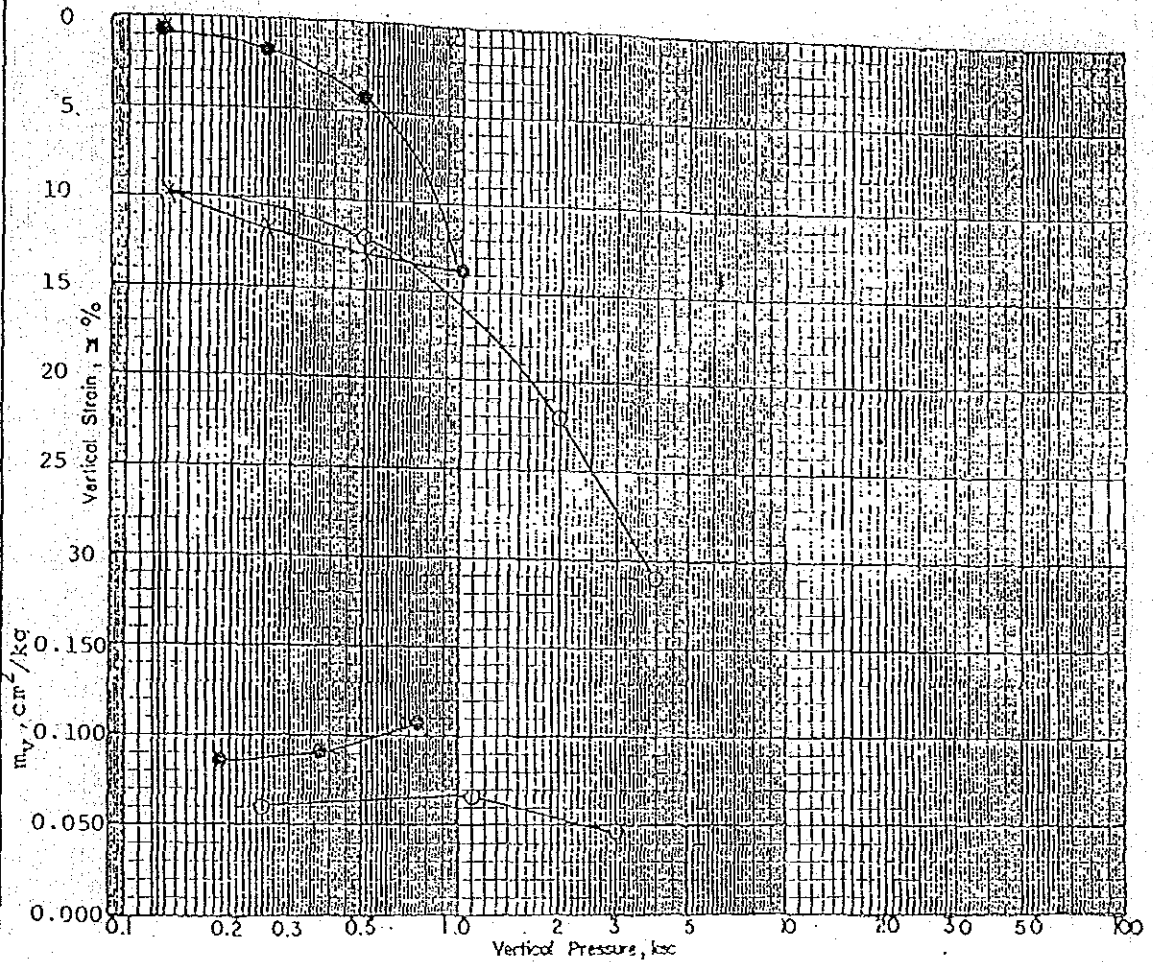


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4}$ cm <sup>2</sup> /sec	Coef. of Permeability $K, 10^{-7}$ cm/sec	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.35$ ksc	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 90.0
0.06	16.4	13.28	3.10	0.70	Degree of Saturation, S	% 98
0.125	19.8	10.64	3.04	2.56	Solid Height of Sample, H <sub>s</sub>	0.73 cm.
0.25	27.04	7.50	1.16	4.49	Diameter of Sample D	6.35 cm.
0.50	58.83	3.11	0.65	9.75	Wet Unit Weight $\gamma_t$	1.46 g/cc
0.125	9.3	20.56	5.87	7.15	Dry Unit Weight $\gamma_d$	0.77 g/cc
0.5	10.24	17.67	1.48	10.30	Liquid Limit LL	97.0 %
2.0	25	5.56	0.45	22.40	Plastic Limit PL	36.6 %
0.125	32.38	4.54	0.34	18.04	Compression Ratio CR	0.26
0.5	7.13	20.40	0.49	18.94	Recompression Ratio PR	0.04
2.0	5.76	23.35	0.57	22.62	Specific Gravity G	2.66
4.0	31.92	3.42	0.17	32.51		

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# CONSOLIDATION TEST RESULTS

Project Model Infrastructure Project Location Chareonraj Pumping Station  
 Bang. Bo. Province Samut Prakan Job No 1488  
 Boring No. B-5 Sample No. PST-7 Depth 7.00-7.80 m. Date 24/3/88

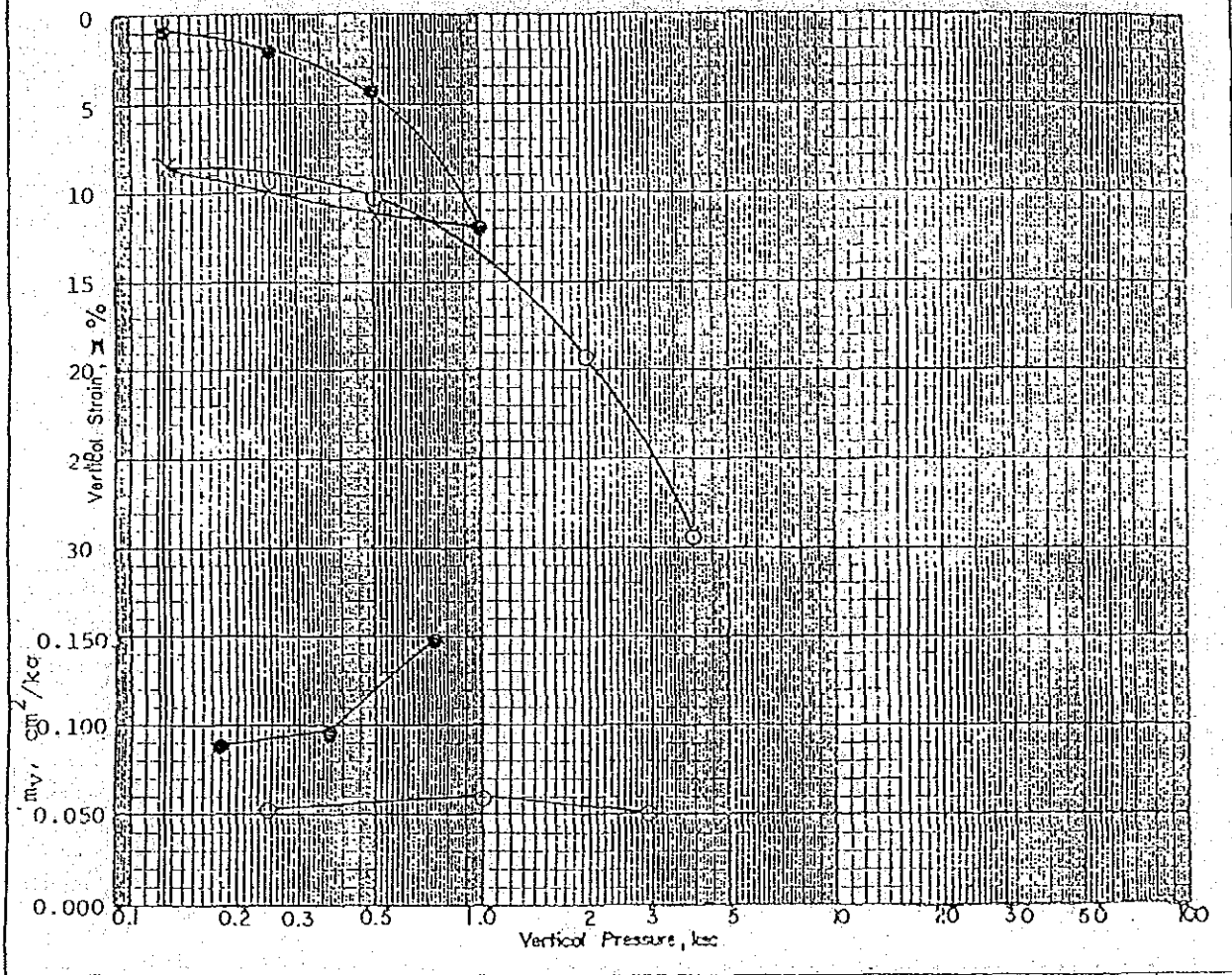


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm}/\text{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.46 \text{ ksc}$ Height of Sample, H cm.	initial	Final
Initial	—	—	—	—	Water Content, W %	85.4	
0.125	8	27.21	1.39	0.64	Degree of Saturation, S %	99	
0.25	8	26.53	2.25	1.70	Solid Height of Sample, $H_s$ cm.	0.76	
0.50	10.24	19.71	1.77	3.95	Diameter of Sample D cm.	6.35	
1	60.0	2.62	0.51	13.62	Wet Unit Weight $\gamma_t$ g/cc	1.50	
0.5	9.61	15.94	0.19	13.04	Dry Unit Weight $\gamma_d$ g/cc	0.81	
0.25	29.16	5.47	0.29	11.70	Liquid Limit LL %	94.4	
0.125	60.0	2.80	0.41	9.86	Plastic Limit PL %	35.8	
0.5	23.04	6.93	0.41	12.08	Compression Ratio CR	0.31	
2.0	38.44	3.09	0.20	22.0	Recompression Ratio RR	0.03	
4.0	43.56	1.95	0.09		Specific Gravity G	2.65	

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## CONSOLIDATION TEST RESULTS

Project	Model Infrastructure Project	Location	Charoernraj Pumping Station Bang Bo Samut Prakan Province	Job No	1488
Boring No	B-5	Sample No	PST-9	Depth	9.00-9.80 m. Date 24/3/88

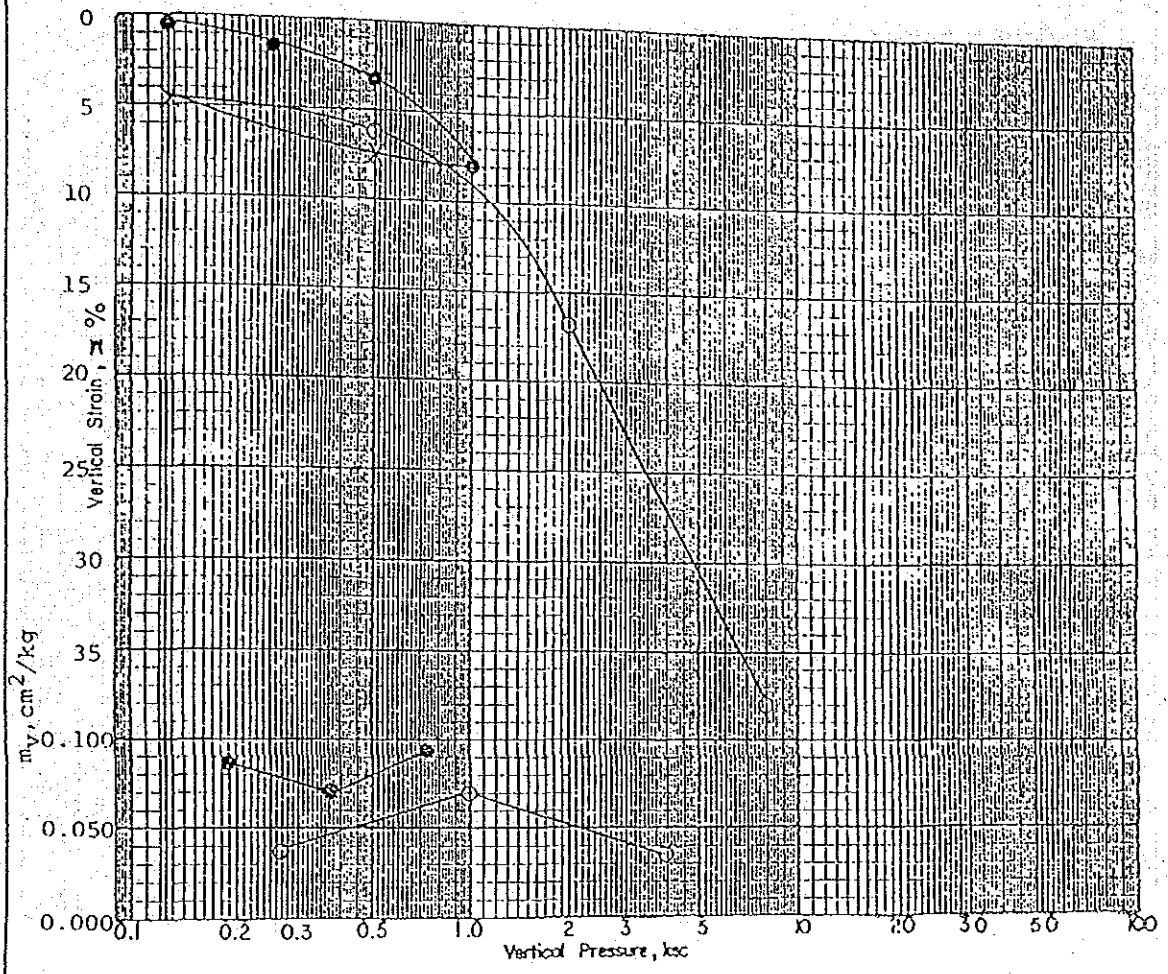


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm/sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.56 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 93.1
Initial					Degree of Saturation, S	% 98
0.125	8	27.19	1.87	0.86	Solid Height of Sample, $H_s$	0.71 cm
0.25	12.96	16.40	1.44	1.96	Diameter of Sample D	6.35 cm.
0.50	20.25	10.04	0.97	4.37	Wet Unit Weight $\gamma_t$	1.45 g/cc
1	94.09	1.86	0.28	11.85	Dry Unit Weight $\gamma_d$	0.75 g/cc
0.5	9.0	19.29	0.22	11.29	Liquid Limit LL	116.2 %
0.25	21.16	8.42	0.52	9.76	Plastic Limit PL	38.9 %
0.125	51.84	3.57	0.42	8.30	Compression Ratio CR	0.31
0.5	21.16	8.45	0.44	10.27	Recompression Ratio RR	0.038
2.0	37.21	3.96	0.24	19.19	Specific Gravity G	2.63
4.0	54.76	2.11	0.11	29.4		

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# CONSOLIDATION TEST RESULTS

Project Model Infrastructure Project	Location Chareonraj Pumping Station Bang. Bo. Samut Prakan Province	Job No. 1488
Boring No. B-5	Sample No. PST-11	Depth 11.00-11.80 m. Date 5/4/88



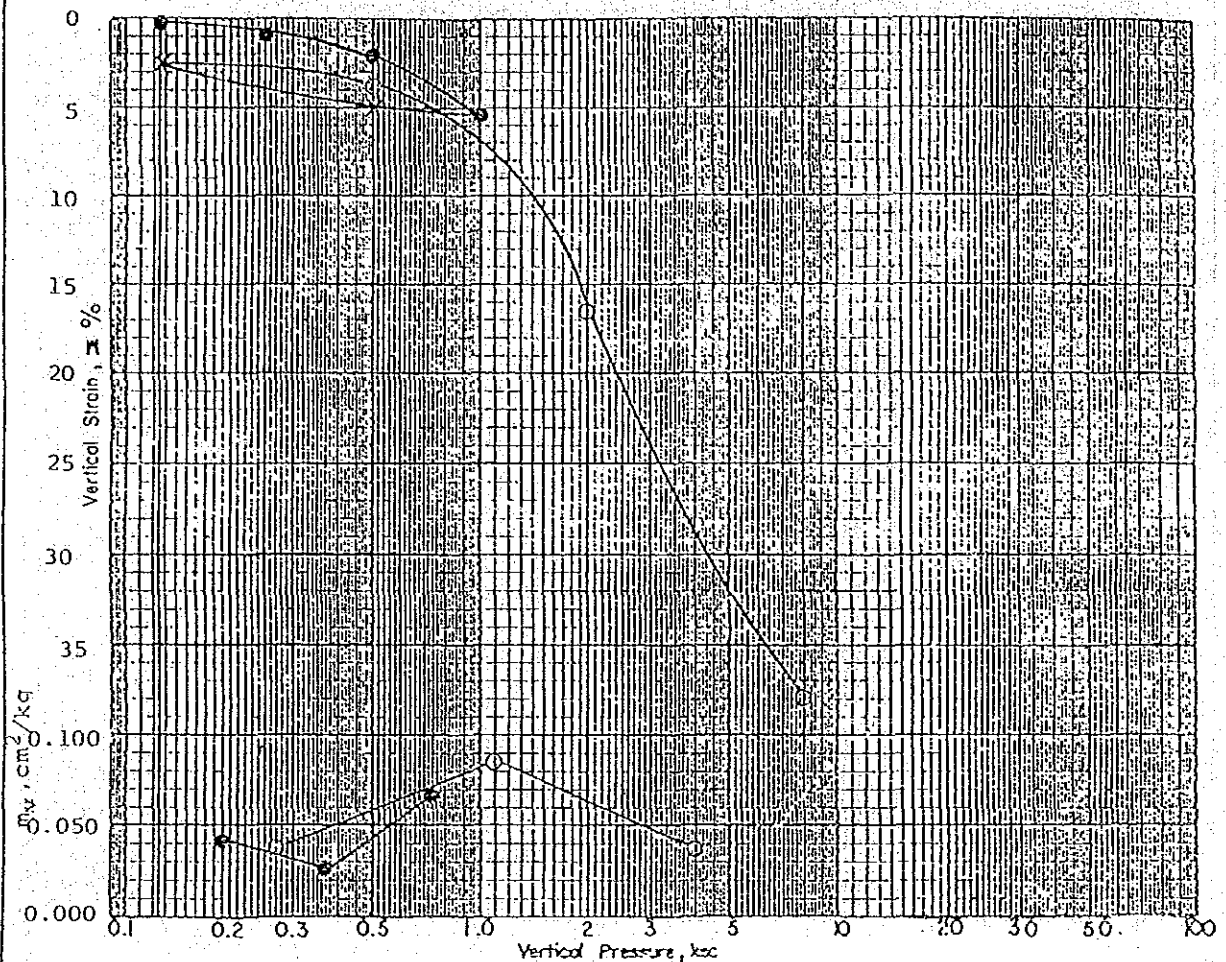
Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \frac{cm^2}{sec}$	Coef. of Permeability $K, 10^{-7} \frac{cm}{sec}$	Vertical Strain, $\epsilon$ %	$\sigma_{vm} = 0.75 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 98.8
					Degree of Saturation, S	% 95
Initial	—	—			Solid Height of Sample, $H_s$	0.67 cm.
0.125	—			0.45	Diameter of Sample D	6.35 cm.
0.25	11.56	18.56	1.59	1.52	Wet Unit Weight $\gamma_t$	1.40 g/cc
0.50	19.36	10.69	0.75	3.28	Dry Unit Weight $\gamma_d$	0.71 g/cc
1	26.01	7.34	0.68	7.92	Liquid Limit LL	119.5 %
0.5	9.0	21.06	0.29	7.23	Plastic Limit PL	41.8 %
0.125	18.49	10.71	0.67	4.87	Compression Ratio CR	0.31
0.5	19.36	10.06	0.38	6.29	Recompression Ratio RR	0.04
2	39.36	3.95	0.28	16.81	Specific Gravity G	2.65
8	51.84	1.84	0.06	37.91		

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## CONSOLIDATION TEST RESULTS

Project Model Infrastructure Project Location Chareonraj Pumping Station, Bang Bo, Samut Prakan Province Job No. 1488  
 Boring No. B-5 Sample No. PST-13 Depth 13.00-13.80 m. Date 5/4/88

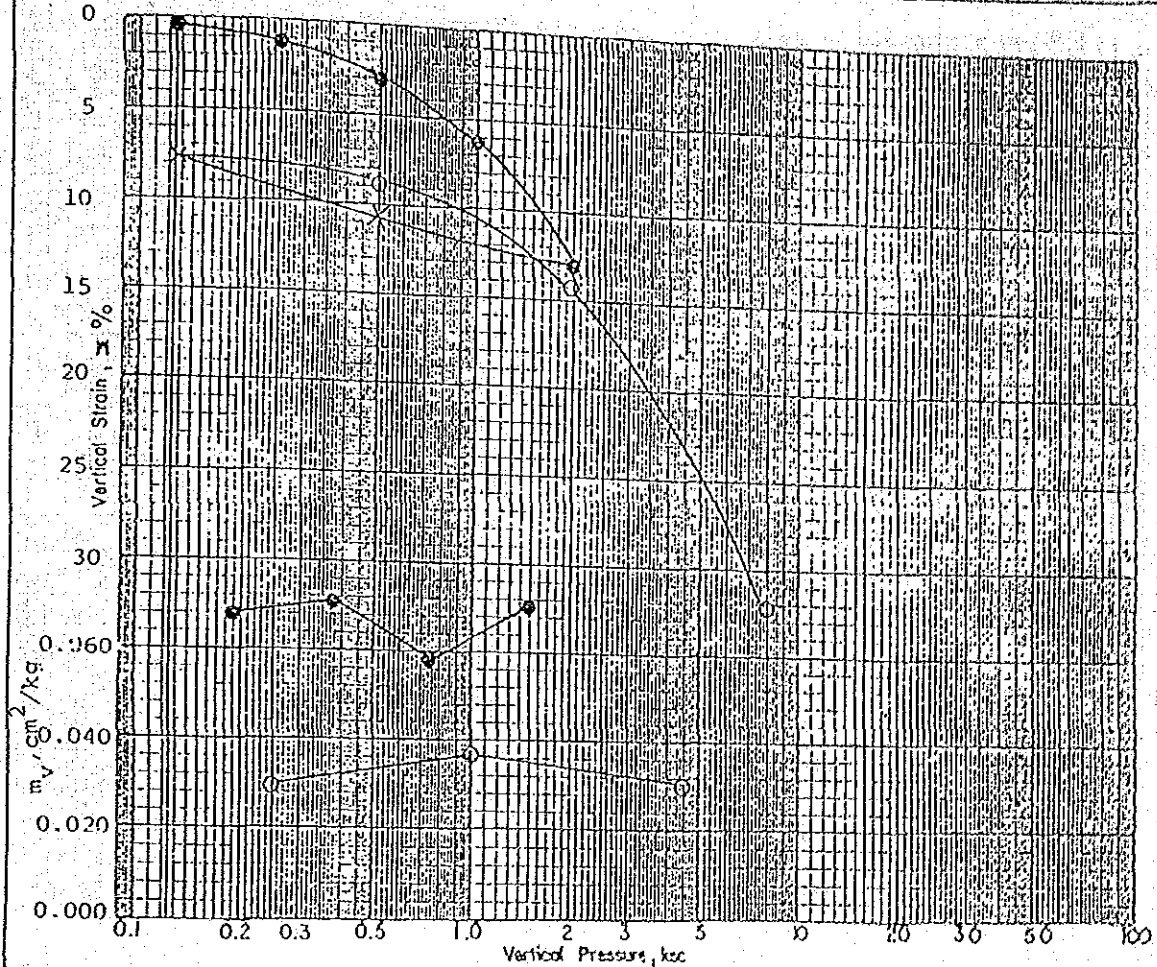


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \frac{cm^2}{sec}$	Coef. of Permeability $K, 10^{-7} \frac{cm}{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 0.85 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 100.2
Initial	—	—			Degree of Saturation, S	% 97
0.125	—			0.18	Solid Height of Sample, $H_s$	0.67 cm.
0.25	7.84	27.69	1.17	0.71	Diameter of Sample D	6.35 cm.
0.50	8.0	26.40	0.69	2.03	Wet Unit Weight $\gamma_t$	1.42 g/cc
1	36.0	5.36	0.37	5.44	Dry Unit Weight $\gamma_d$	0.71 g/cc
0.5	15.0	12.99	0.18	4.73	Liquid Limit LL	115.8 %
0.125	30.0	6.87	0.43	2.40	Plastic Limit PL	42.2 %
0.5	11.56	17.37	0.66	3.82	Compression Ratio CR	0.37
2	73.96	1.91	0.16	16.56	Recompression Ratio RR	0.035
8	60.0	1.19	0.04	37.86	Specific Gravity G	2.64

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# CONSOLIDATION TEST RESULTS

Project	Model Infrastructure	Chareonraj Pumping Station	Job No 1488
		Location Bang Bo, Samut Prakan Province.	
Boring No. B-5	Sample No. PST-15	Depth 15.00-15.80 m.	Date 4/4/88

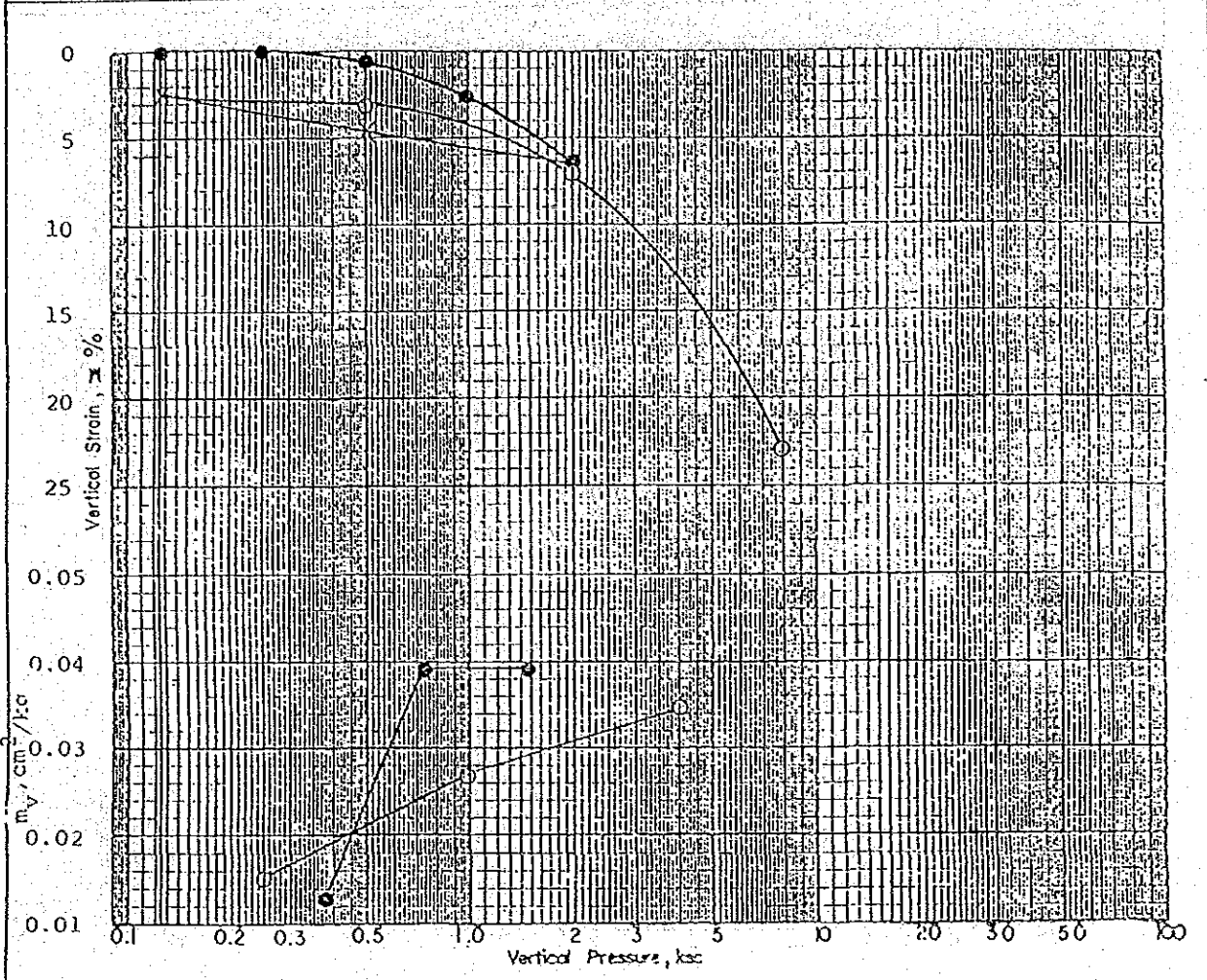


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \text{ cm}^2/\text{sec}$	Coef. of Permeability $K, 10^{-7} \text{ cm}^2/\text{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 1.1 \text{ ksc}$	
					initial	Final
					Height of Sample, H	cm. 2.5
					Water Content, W	% 79.2
Initial	—	—			Degree of Saturation, S	% 96
0.125	3.24	67.6	2.22	0.41	Solid Height of Sample, H <sub>s</sub>	0.78 cm.
0.25	7.29	29.5	2.03	1.27	Diameter of Sample, D	6.35 cm.
0.50	31.36	6.64	0.47	3.05	Wet Unit Weight, $\gamma_t$	1.50 g/cc
1	32.49	6.04	0.36	5.99	Dry Unit Weight, $\gamma_d$	0.84 g/cc
2	62.41	2.73	0.19	13.00	Liquid Limit, LL	110.4 %
0.5	30.0	5.85	0.01	10.57	Plastic Limit, PL	38.0 %
0.125	43.56	4.29	0.33	7.69	Compression Ratio CR	0.325
0.5	15.0	12.30	0.35	8.77	Recompression Ratio RCR	0.045
2	23.04	7.20	0.26	14.22	Specific Gravity, G	2.68
8	65.61	1.68		32.14		

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## CONSOLIDATION TEST RESULTS

Project Model Infrastructure Project	Location Chareonraj Pumping Station Bang Bo, Samut Prakan Province	Job No. 1488
Boring No. B-5	Sample No. FST-17	Depth 17.00-17.80 m. Date 4/4/88

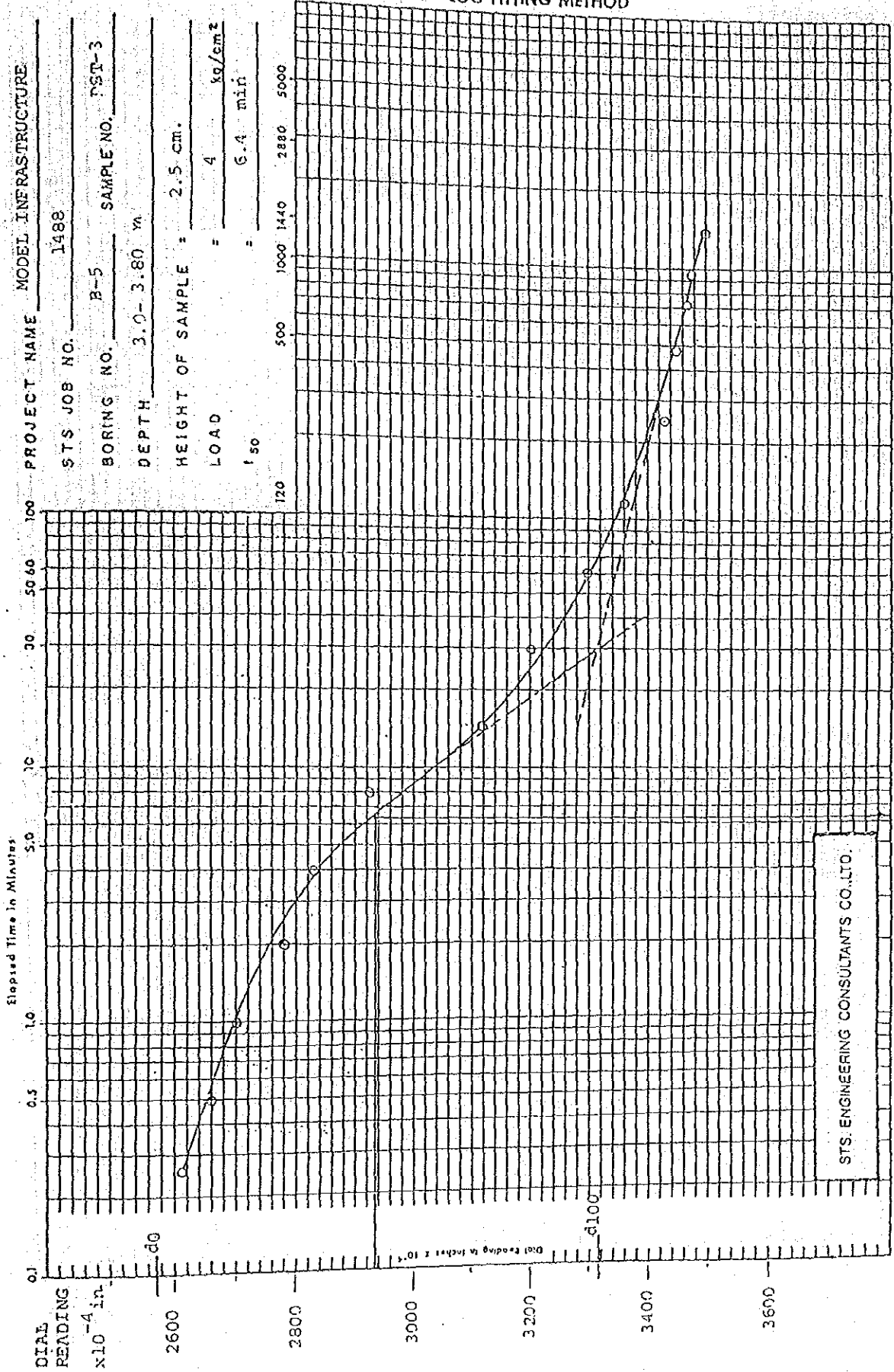


Pressure Ksc	90% Consol. Time min	Coef. of Consolidation $C_v, 10^{-4} \frac{cm^2}{sec}$	Coef. of Permeability $K, 10^{-7} \frac{cm}{sec}$	Vertical Strain, $\epsilon$ %	$\bar{\sigma}_{vm} = 1.6 \text{ ksc}$	
					Height of Sample, H cm	Initial
Initial	—	—	—	—	Water Content, W %	70.9
0.125	—	—	—	0	Degree of Saturation, S %	99
0.25	—	—	—	0	Solid Height of Sample, $H_s$ cm	0.86
0.50	14.44	15.11	0.19	0.63	Diameter of Sample $D$ cm	6.35
1	18.49	11.40	0.45	2.60	Wet Unit Weight $\gamma_t$ g/cc	1.58
2	21.16	9.26	0.36	6.50	Dry Unit Weight $\gamma_d$ g/cc	0.92
0.5	26.01	7.67	0.09	4.77	Liquid Limit LL %	91.1
0.125	37.21	5.59	0.31	2.69	Plastic Limit PL %	34.9
0.5	15.0	13.80	0.21	3.25	Compression Ratio CR	0.25
2	17.64	10.89	0.29	7.25	Recompression Ratio RR	0.06
8	64.0	1.96	0.07	27.81	Specific Gravity G	2.69

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CONSOLIDATION TEST - LOG FITTING METHOD

PROJECT NAME MODEL INFRASTRUCTURE  
 STS JOB NO. 1488  
 BORING NO. B-5 SAMPLE NO. PST-3  
 DEPTH 3.0-3.80 m  
 HEIGHT OF SAMPLE : 2.5 cm.  
 LOAD = 4 kg/cm<sup>2</sup>  
 t<sub>50</sub> = 6.4 min



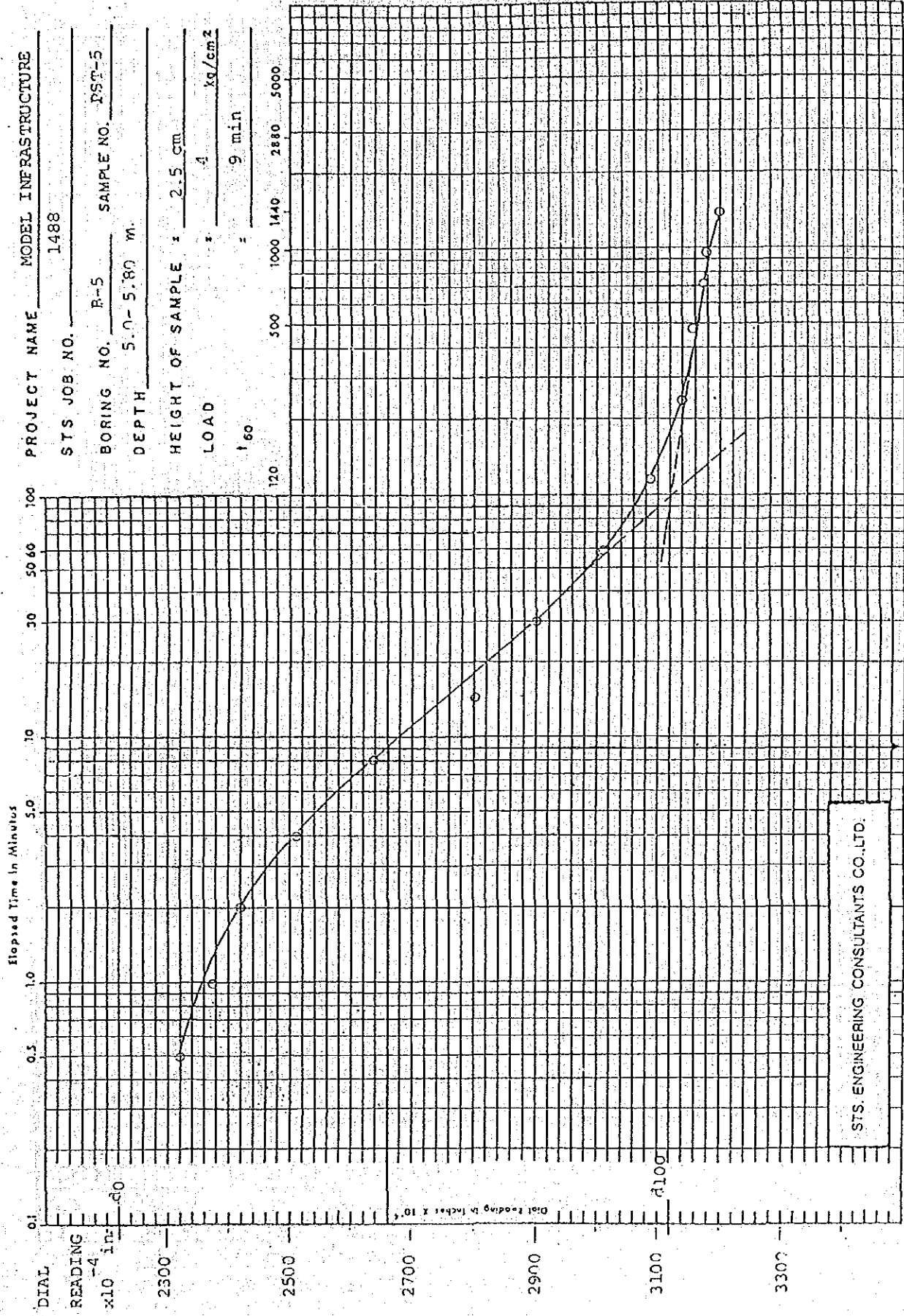
STS ENGINEERING CONSULTANTS CO., LTD.

C<sub>α</sub> = 1.11 % Strain/min

t<sub>50</sub>

CONSOLIDATION TEST - LOG FITTING METHOD

PROJECT NAME MODEL INFRASTRUCTURE  
 STS JOB NO. 1488  
 BORING NO. R-5 SAMPLE NO. E5T-5  
 DEPTH 5.0 - 5.80 m.  
 HEIGHT OF SAMPLE : 2.5 cm  
 LOAD : 4 kg/cm<sup>2</sup>  
 = 9 min



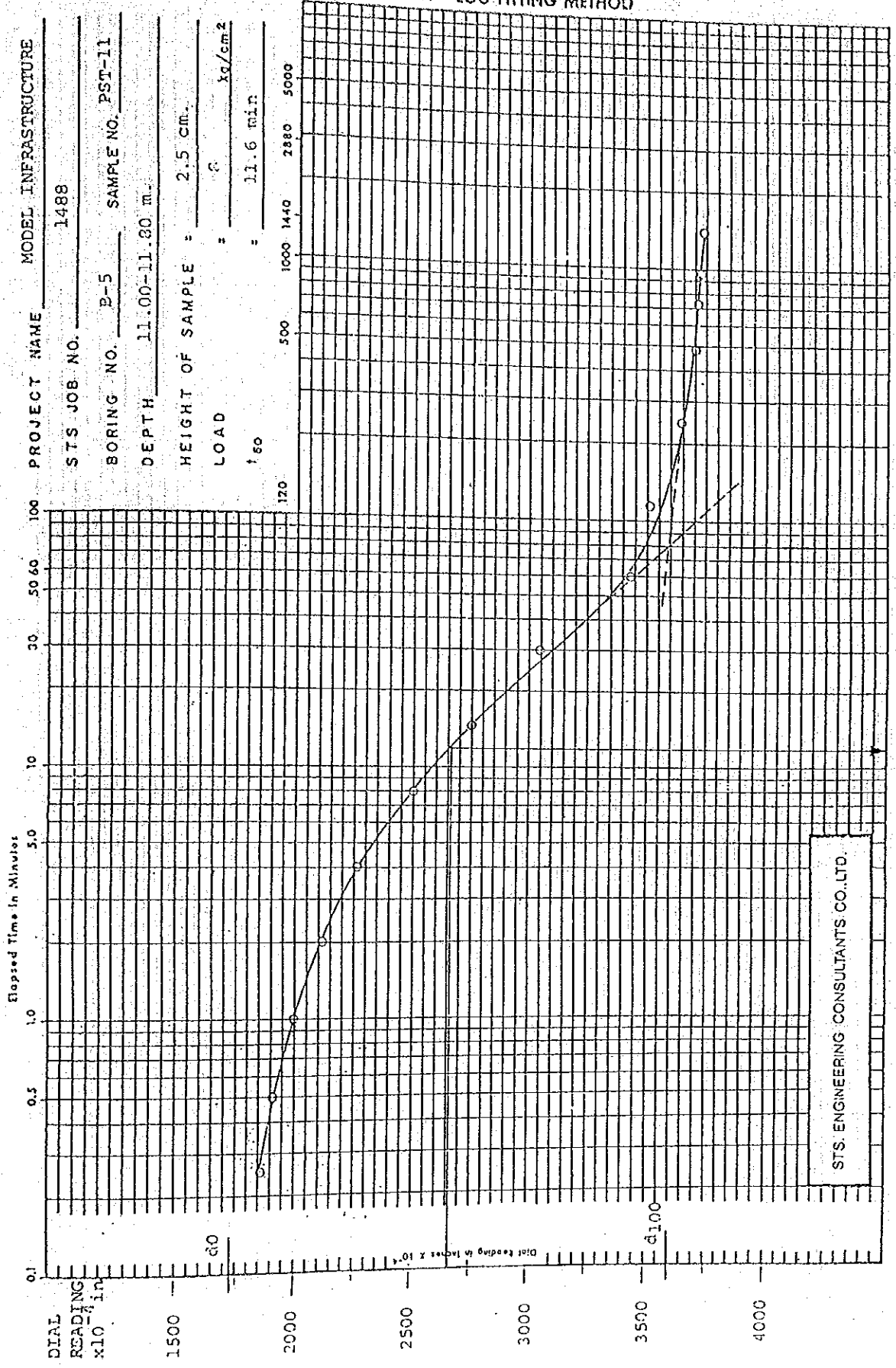
STS. ENGINEERING CONSULTANTS CO., LTD.

$C_{\alpha} = 0.59 \text{ \& Starin/min}$

50

CONSOLIDATION TEST - LOG FITTING METHOD

MODEL INFRASTRUCTURE  
 PROJECT NAME \_\_\_\_\_  
 STS JOB NO. 1488  
 BORING NO. B-5 SAMPLE NO. PST-11  
 DEPTH 11.00-11.80 m.  
 HEIGHT OF SAMPLE = 2.5 cm.  
 LOAD =  $\sigma$  kg/cm<sup>2</sup>  
 = 160  
 = 11.6 min

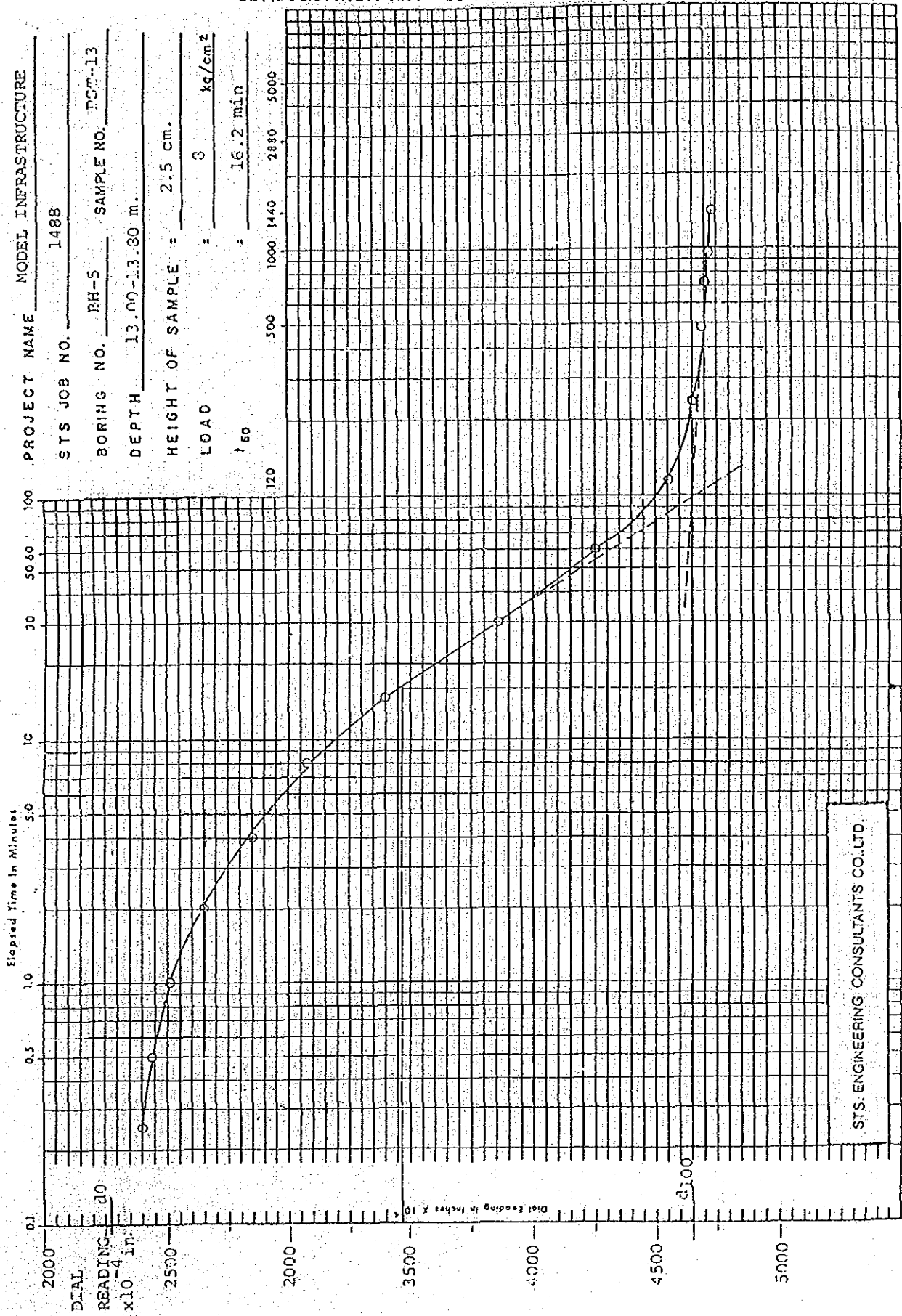


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Ca = 1.31 % Strain/min

CONSOLIDATION TEST - LOG FITTING METHOD

PROJECT NAME MODEL INFRASTRUCTURE  
 STS JOB NO. 1488  
 BORING NO. RH-5 SAMPLE NO. PST-13  
 DEPTH 13.00-13.80 m.  
 HEIGHT OF SAMPLE = 2.5 cm.  
 LOAD = 3 kg/cm<sup>2</sup>  
 t<sub>50</sub> = 16.2 min



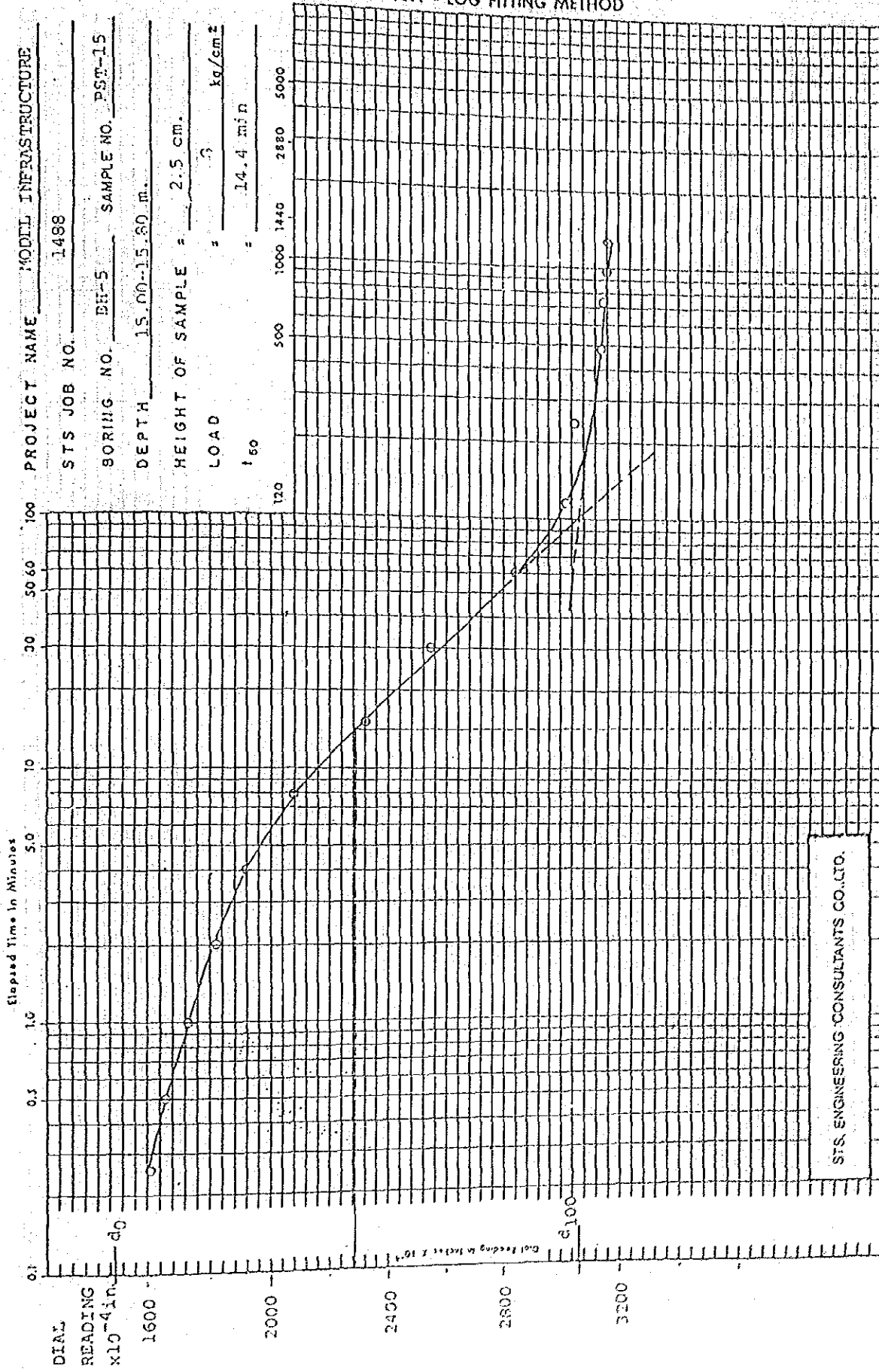
C<sub>c</sub> = 0.73 % strain/min.

t<sub>50</sub>

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CONSOLIDATION TEST - LOG FITTING METHOD

PROJECT NAME MODEL INFRASTRUCTURE  
 STS JOB NO. 1488  
 BORING NO. DH-5 SAMPLE NO. PST-15  
 DEPTH 15.00-15.60 m.  
 HEIGHT OF SAMPLE = 2.5 cm.  
 LOAD = 3 kg/cm<sup>2</sup>  
 t<sub>50</sub> = 14.4 min



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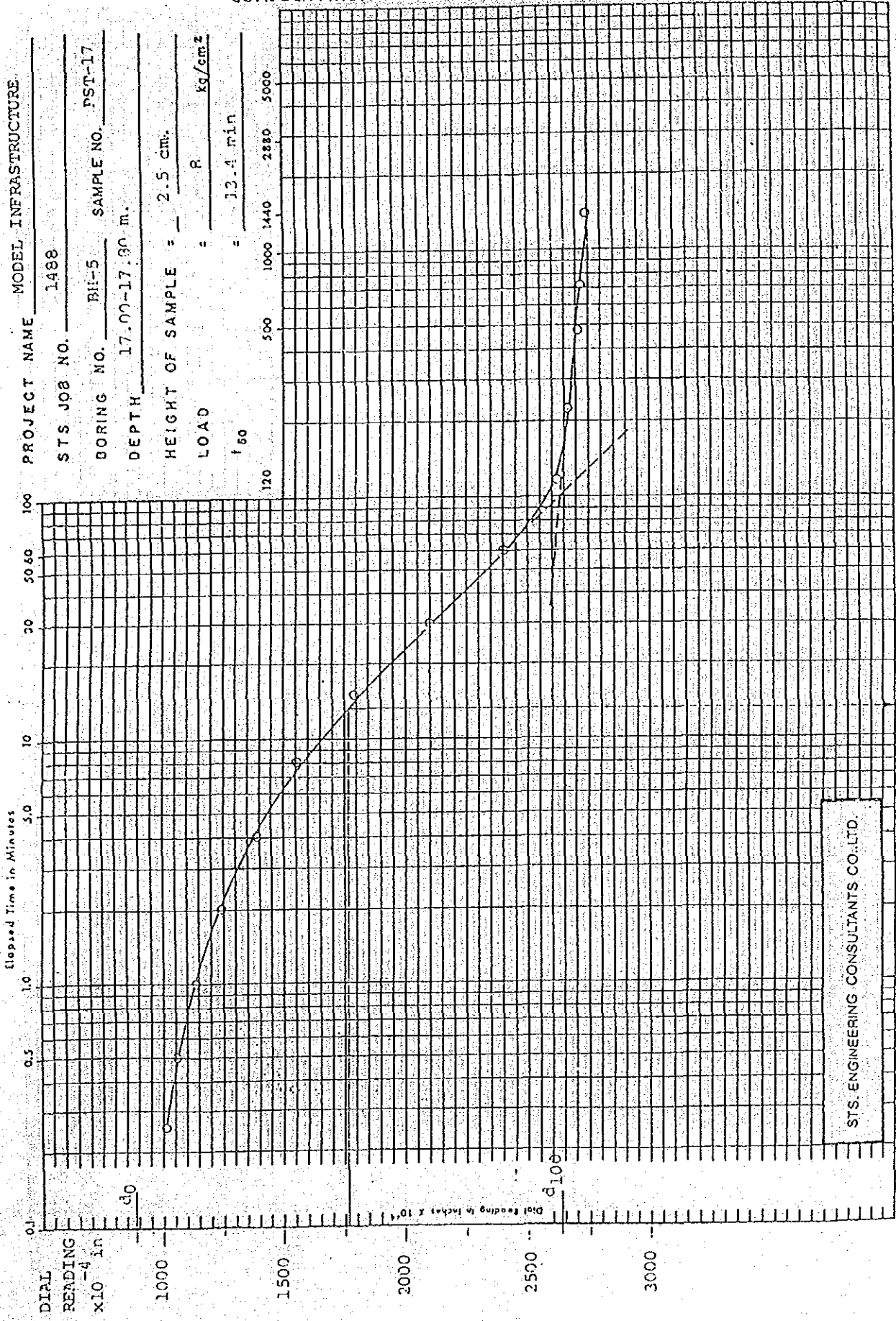
C<sub>c</sub> = 0.97 % Strain/in

t<sub>50</sub>



CONSOLIDATION TEST - LOG FITTING METHOD

PROJECT NAME MODEL INFRASTRUCTURE  
 STS JOB NO. 1488  
 BORING NO. BI-5 SAMPLE NO. PST-17  
 DEPTH 17.00-17.30 m.  
 HEIGHT OF SAMPLE = 2.5 cm.  
 LOAD = P kg/cm<sup>2</sup>  
 t<sub>60</sub> = 13.4 min



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C<sub>α</sub> = 1.02 % Strain/min