



KASETSART UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING, GEOTECHNICAL ENGINEERING LABORATORY

CBR TEST (ASTM D 1883)

For:	BANGKHEN		
Project:	ROAD NO.2		
Date:	10/5/2004	Test by:	KITTISAK

SWELLING Height of Sample, H_o 128.2 mm

Mould No.		3		4		5	
No. of Layer		5		5		5	
Blows per Layer		12		25		56	
Surcharge lb.							
Time and Date	Elapsed Time hr.	Swelling 0.01mm	% Swelling	Swelling 0.01mm	% Swelling	Swelling 0.01mm	% Swelling
26/4/2547	9:30:00	0	0	0	0	0	0
27/4/2547	9:30:00	0	0	0	0	0	0
28/4/2547	9:30:00	0	0	0	0	0	0
29/4/2547	9:30:00	0	0	0	0	0	0

Load Scale, K 4 kg/div
Piston Area 3 in.²
Penetration Rate 0.05 in./min

PENETRATION SOAKED

Mould No.	12		25		56	
Blows per Layer						
Surcharge lb.						
Penetration in.	Force Gauge Reading * 10 in.	Pressure lb./in ²	Force Gauge Reading * 10 in.	Pressure lb./in ²	Force Gauge Reading * 10 in.	Pressure lb./in ²
0.000	0	0.00	0	0.00	0	0.00
0.025	16	47.04	17	49.98	25	73.50
0.050	34	99.96	65	191.10	78	229.32
0.075	51	149.94	115	338.10	165	485.10
0.100	64	188.16	152	446.88	237	696.78
0.150	77	226.38	177	520.38	300	882.00
0.200	90	264.60	212	623.28	360	1058.40
0.250	100	294.00	237	696.78	413	1214.22
0.300	111	326.34	260	764.40	459	1349.46
0.400	120	352.80	280	823.20	500	1470.00
0.500	128	376.32	298	876.12	535	1572.90
PENETRATION					CBR	
0.1	18.82		44.69		69.68	
0.2	17.64		41.55		70.56	
CBR =	18.82		44.69		70.56	

CBR TEST

