Laboratory Test Sheet

CALIFORNIA BEARING RATION TEST

Client : Alfred McAlpine Civil Engineering — Site : Stanton North Phase II
Client Ref : 12345 — Lab. Ref : 10073 — Job No : B4240/96V — Date Received : 04/09/1996
Supplier : — Source :
Material Type : Sub-base — Specification : Type 1 Sub-base
Material Name : Type 1 Sub-base — Stone Type : Not Known

Force measuring device no.	Unsoaked/soaked — As appropriate*
Ring Factor %	Mean calibration N/div
Wt. sample befor sieving =	
Wt. ret. 20mm sieve =	% Retd. 20mm = NOT>25%
Wt. passing 20mm sieve =	

Penetration of plunger mm	Force gauge reading div		Force on plunger kN		Penetration of plunger mm	Force gauge reading div		Force on plunger kN	
0	Top	Bottom	Top	Bottom		Top	Bottom	Top	Bottom
0.25					4.00				
0.50					4.25				
0.75					4.50				
1.00					4.75				
1.25					5.00				
1.50					5.25				
1.75					5.50				
2.00					5.75				
2.25					6.00				
2.50					6.25				
2.75					6.50				
3.00					6.75				
3.25					7.00				
3.50					7.25				
3.75					7.50				

Weight of Wet Soil and Mould + Baseplate (W1) = g
Weight of Mould + Baseplate (W2) = g
Weight of Wet Soil (W3) = g
(d) Bulk Density (W3 x 0.434)/100 = Mg/m3 Dry Density $\frac{d \times 100}{(100 + W)}$ = Mg/m3

Container No.					
Mass of Wet Soil + Container (M2)	g				
Mass of Dry Soil + Container (M3)	g				
Mass of Container (M1)	g				
Mass of Moisture (M2)	g				
Mass of Dry Soil (M3 - M1)	g				
Moisture Content $W = \frac{(M2 - M3)}{(M3 - M1)} 100$	%				
Average Moisture Content					

Test on Top Face unsoaked/soaked
Test on Bottom Face unsoaked/soaked

Standard Forces
2.5mm = 13.2 kN 5.0mm = 20.0 kN

CBR Value at penetration of:	2.5mm	5.0mm
Top %		
Bottom %		
Average CBR =		

Equipment Check ☐
Calibration Check ☐
Sieve Check ☐

California Bearing Ratio Test (graph)

Comments : _____
Tested By : _____ Date : _____ Checked By : _____ Date : _____
Check Level (1/2/3)

Notes : * Delete as applicable