



TEST REPORT - LABORATORY SOAKED CBR'S

Client Details:	Paterson Pitts Group, 30 The Mall, Cromwell	Attention:	M. Garmonsway
Job Description:	Wooring Tree Investigations, Cromwell		
Sample Description:	Subgrade – See Below	Client Order No:	N/A
Sample Source:	Insitu – See Below	Sample Label No:	53727
Date & Time Sampled:	23-Oct-19	Sampled By:	C. Maxwell
Sample Method:	NZS 4407:2015, Test 2.4.2	Date Received:	23-Oct-19
Test Method:	NZS 4407:2015, Test 3.15		

LABORATORY SOAKED CBR RESULTS				
Sample Source:	#1	#2	#3	#4
Sample Depth: (mm)	0 - 300	0 - 300	0 - 300	0-300
Sample Description:	SAND with minor gravel	SAND with trace of gravel	Fine SAND	SAND with trace of gravel
Condition of Sample:	Soaked	Soaked	Soaked	Soaked
Surcharge Mass: (kg)	4.0	4.0	4.0	4.0
Time Soaked:	4 days	4 days	4 days	4 days
Swell: (%)	-0.2	0.0	-0.2	-0.2
Water Content as Compacted: (%)	4.5	4.4	8.2	7.6
Water Content From Under Plunger: (%)	8.8	18.0	15.2	12.2
Dry Density As Compacted: (t/m ³)	1.84	1.57	1.75	1.96
CBR Value @ 2.5 mm Penetration:	13	8	15	15
CBR Value @ 5.0 mm Penetration:	16	10	21	16
Reported CBR Value:	16	10	21	16
Contract Specification Requirement	Minimum 7			

Notes:

- The material was received in a natural state.
- The material tested was the fraction passing the 19.0mm test sieve.
- The sample was compacted to NZ Standard Compaction at the water content as received.
- The rate of penetration was 1.10 mm / min.
- Information contained in this report which is Not IANZ Accredited relates to the sample descriptions based on NZ Geotechnical Society Guidelines 2005.
- This report may not be reproduced except in full.

Tested By: D. Pearson

Date: 7 to 12-Nov-19

Checked By:

Tests indicated as Not Accredited are outside the scope of the laboratory's accreditation

IANZ
ACCREDITED LABORATORY
Accreditation No: 434



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LABORATORY SOAKED CBR RESULTS				
Sample Source:	#5	#6	#7	#8
Sample Depth: (mm)	0 - 300	0 - 300	0 - 300	0-300
Sample Description:	SAND with trace of / minor gravel	SAND with minor gravel and trace of / minor silt	SAND with trace of silt	Silty SAND
Condition of Sample:	Soaked	Soaked	Soaked	Soaked
Surcharge Mass: (kg)	4.0	4.0	4.0	4.0
Time Soaked:	4 days	4 days	4 days	4 days
Swell: (%)	-0.2	0.0	0.0	-1.0
Water Content as Compacted: (%)	7.7	4.9	5.4	13.8
Water Content From Under Plunger: (%)	12.3	10.4	16.7	13.0
Dry Density As Compacted: (t/m ³)	1.72	1.96	1.71	1.86
CBR Value @ 2.5 mm Penetration:	9	40	14	0.5
CBR Value @ 5.0 mm Penetration:	12	30	14	0.5
Reported CBR Value:	12	40	14	0.5
Contract Specification Requirement	Minimum 7			

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LABORATORY SOAKED CBR RESULTS					
Sample Source:	#9	#10A	#10B	#11	#12
Sample Depth: (mm)	0 - 300	0 - 125	125 - 300	0-300	0-300
Sample Description:	Sandy GRAVEL / Gravelly SAND with minor silt	SAND with minor gravel and trace of / minor silt	Sandy GRAVEL with trace of silt	SAND with some gravel	SAND with trace of silt
Condition of Sample:	Soaked	Soaked	Soaked	Soaked	Soaked
Surcharge Mass: (kg)	4.0	4.0	4.0	4.0	4.0
Time Soaked:	4 days	4 days	4 days	4 days	4 days
Swell: (%)	0.0	0.0	0.0	-0.2	-0.2
Water Content as Compacted: (%)	5.0	5.4	4.4	6.0	14.4
Water Content From Under Plunger: (%)	7.1	10.5	5.9	15.3	18.5
Dry Density As Compacted: (t/m ³)	2.05	2.14	2.05	1.76	1.62
CBR Value @ 2.5 mm Penetration:	55	30	50	15	8
CBR Value @ 5.0 mm Penetration:	50	25	45	16	12
Reported CBR Value:	55	30	50	16	12
Contract Specification Requirement	Minimum 7				

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Date: 7 to 12-Nov-19

Checked By:

Approved Signatory

A.P. Julius
Laboratory Manager

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