

Northern Rivers

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ITP/PCP Number:

NA

Control Line:

Report on TfNSW CBR and MDD

Client: **Bentley Quarry** Report No: 1199-6-CBR Client Address: 1465 Bentley Road, Bentley Report Date: 7/06/2023 Project: 1465 Bentley Road, Bentely Report Page: Page 1 of 1 Works Component: Material Assessment Project No: 1199 Material Used(Source): 65 Minus Flood Blend Request/Order: Material Description: Silty Sandy Gravel Lot Number:

Lot Boundaries:

Lab Test Date/s: Laboratory testing 01/06/2023 to 07/06/2023

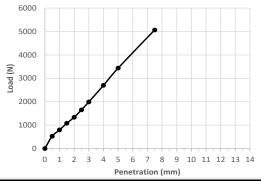
Sample Number	Sample Date	Chainage/Location	Offset	Level of Test	Test Depth
7788	31/05/2023	NA	NA	NA	NA

Parameters	Units	Test Results		Information
Pretreatment Regime		No Pretreatment		
Portion Retained on AS Sieve	%	31% on 19mm		Retained material excluded from CBR
Material Plasticity (Liquid Limit)		Low (Less than 35%)		By Technician's Assessment
Sample Curing Time	hrs	24		
Soil Particle Density	t/m3	2.67		Nominated value
Maximum Dry Density (MDD)	t/m3	1.929		Standard compactive effort.
Optimum Moisture Content (OMC)	%	15.6		
Field Moisture Content	%	Field 9.7 %		Passing 19.0mm portion
Compaction Moisture Content	%	Achieved 15.8 %	LMR = 102%	Specified LMR = 100%
Compaction Dry Density	t/m3	Achieved 1.93 t/m3	LDR = 100%	Specified LDR = 100%
Surcharge Load	kg	kg 4.5		
Period of Soaking	Days	Soaked - 4 Days		
Specimen Swell	%	-0.3		
Moisture Content - Top 30mm	%	16.5		After Penetration
Moisture Content - Full Depth	%	15.6		After Penetration

Dry Density Vs Moisture Content

1.96 1.94 1.92 1.90 1.88 1.86 1.84 1.82 1.80 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 Moisture Content (%)

Load-Penetration Curve



Material CBR Value (%)

47

California Bearing Ratios

 $CBR_{2.5} = 13$

 $CBR_{5.0} = 17$

Including an Applied Correction of

Sampling & Test Methods (Results relate only to the items sampled/tested)

TS 02795.01:0.0(T105): Preparation of samples

TS 02795.14:0.0(T120): Moisture Content, Oven Drying

TS 02795.06:0.0(T111): Laboratory Compaction, MDD Standard

TS 02795.11:0.0(T117): California Bearing Ratio CBR

The specified sampling methods, test results and statistical analysis (where applicable) conform with the relevant ITP. No samples have been abandoned or untested. **

** NATA accreditation does not cover the performance of this service

Report Remarks & Endorsement



Accredited for compliance with

ISO/IEC 17025 - Testing.

NATA Accreditation number:

Issued By:

d By: _______D.k

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D.Kennedy

Approved Signatory

19644

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