

**NZTA M/04 2024 CLASS 1 - AP40
TEST REPORT**



Project : **Quality Assurance**
 Location : **Production Stock**
 Client : **Road Metals Company Limited**
 Contractor : **Various**
 Sampled by : **Paul Campbell (Road Metals)**
 Date sampled : **18 March 2026**
 Sampling method : **NZS4407:2015 2.4.6.3.2**
 Sample description : **NZTA M/4 AP40**
 Sample condition : **Damp as received**
 Source : **Yaldhurst Quarry**

Project No : **6-JRMCO.16/6LC**
 Lab Ref No : **CH13769**
 Client Ref No : **910-LR-606**

Particle Size Distribution		
Sieve Size (mm)	Percentage Passing	
	Sample	Limits
53.0	-	100 - 100
37.5	100	98 - 100
26.5	-	-
19.0	81	66 - 81
9.5	54	43 - 57
4.75	37	28 - 43
2.36	28	19 - 33
1.18	19	12 - 25
0.600	15	7 - 19
0.300	11	3 - 14
0.150	6	0 - 10
0.075	4	0 - 7

% passing the finest sieve is obtained by difference

Grading Shape Control		
Fraction (mm)	% Within Fraction	
	Sample	Limits
37.5 - 9.50	46	-
19.0 - 4.75	45	28 - 48
9.5 - 2.36	26	14 - 34
4.75 - 1.18	17	7 - 27
2.36 - 0.600	13	5 - 21
1.18 - 0.300	9	3 - 17
0.600 - 0.150	9	2 - 14

Crushing Resistance		
% Fines @ Spec. Load	Not Tested	%
Specification	-	%
Crushing Resistance	-	kN
Nom Aggregate Size	-	mm
Specified Load	180	kN

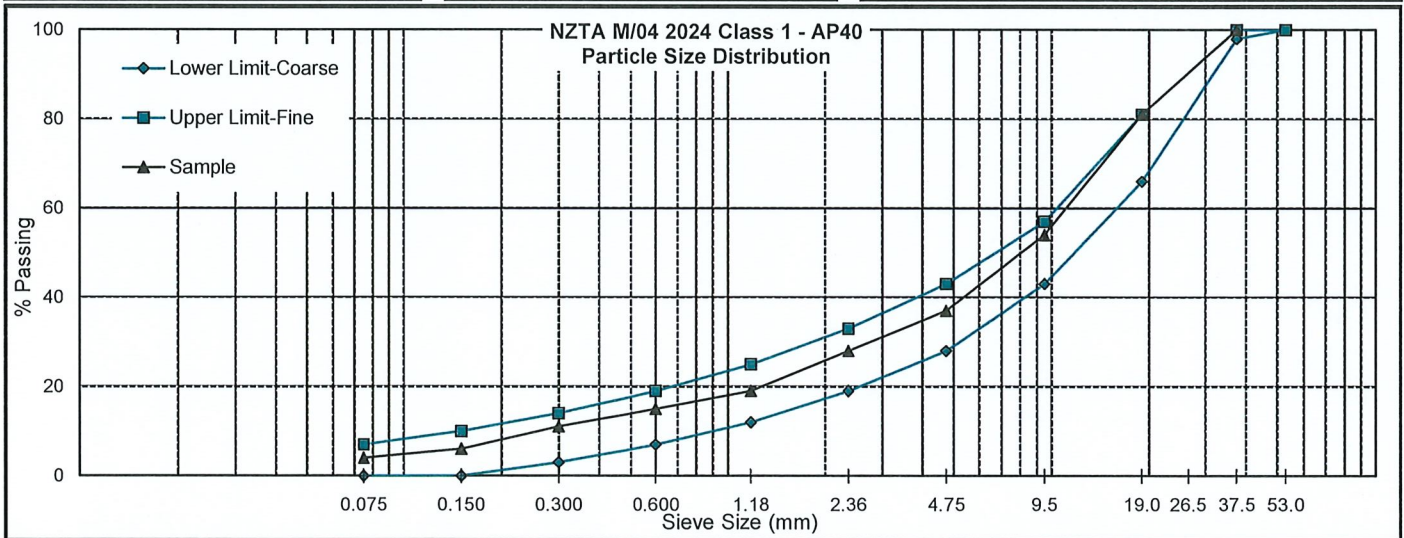
Broken Faces Content of Aggregate		
Fraction (mm)	Percentage by Weight	
	Sample	Lower Limit
37.5 - 19.0	77	70
19.0 - 9.5	84	70
9.5 - 4.75	79	70

Plasticity Index	
Sample PI	Not Tested
Specification	<=5
Sample CPL	-
Specification	-

Flakiness Index	
Sample FI	Not Tested
Specification	<=35

Clay Index	
Sample CI	Not Tested
Specification	<=3
Sample from	Nat Fines / Rock Powder

Sand Equivalent	
Sample SE	Not Tested
Specified	-
Sample Preparation	Washed, Mechanical Shaking



Test Methods	Notes
Particle Size Distribution - NZS 4407 : 2015 : Test 3.8.1 Broken Faces Content of Aggregate - NZS 4407 : 2015 : Test 3.14	All information supplied by Client Sampling is covered by IANZ Accreditation This report may only be reproduced in full

Date tested : 20 March 2026
 Date reported : 30 March 2026

Approved Signatory 
 Designation : **Laboratory Manager**
 Date : 30 March 2026

PF-LAB-040 (4/11/2025)



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

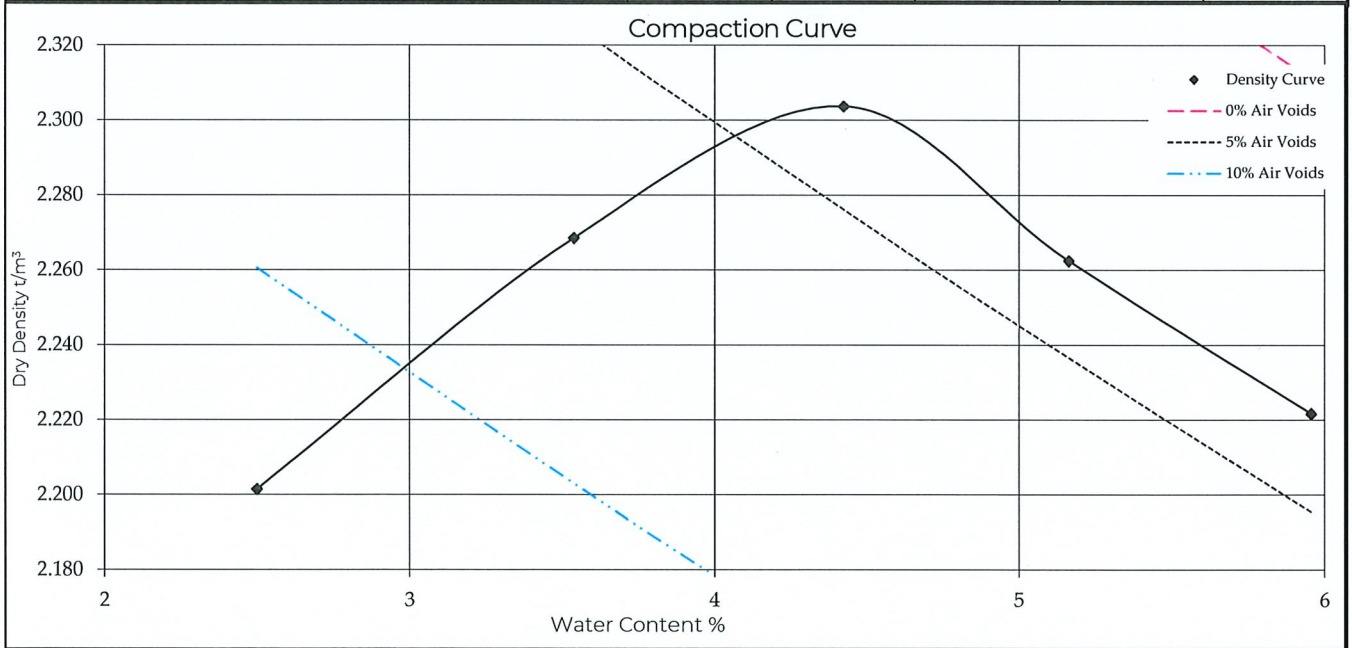
**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



Project : Quality Assurance
 Location : Production Stock
 Client : Road Metals Company Limited
 Contractor : Various
 Sampled by : Paul Campbell (Road Metals)
 Date sampled : 18 March 2026
 Sampling method : NZS 4407: 2015 (2.4.6.3.2)
 Sample description : NZTA M/4 AP40
 Sample condition : Damp as received
 Solid density : 2.68 t/m³ (Assumed)
 Source : Yaldhurst Quarry

Project No :	6-JRMCO.16/6LC
Lab Ref No :	CH13769
Client Ref No :	910-LR-606

Test Results								
Maximum dry density	2.30	t/m ³				Natural water content	2.5	%
Optimum water content	4.4	%				Fraction tested	Whole	
Sample ID	NAT	+1%	+2%	+3%	+4%			
Bulk density	t/m ³	2.256	2.349	2.406	2.379	2.354		
Water content	%	2.5	3.5	4.4	5.2	6.0		
Dry density	t/m ³	2.201	2.269	2.304	2.262	2.222		
Sample condition		Moist Hard	Wet Firm	Wet Firm	Wet Firm	Saturated Soft		



Test Methods	Notes
Compaction NZS 4402 : 1986 : Test 4.1.3	All information supplied by Client

Date tested : 26 March 2026
 Date reported : 30 March 2026

Sampling is covered by IANZ Accreditation
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Approved Signatory 
 Designation : Laboratory Manager
 Date : 30 March 2026



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