

LOS ANGELES ABRASION
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA c/- Aurecon & WSP Ltd
Contractor : N/A
Sampled by : NC_ Site Team
Date sampled : 26/09/25
*Sampling method : Core
Sample description : Greywacke Sandstone
Sample condition : As Received
Source : BH2B_1111 (42.00m-48.00m)

Project No : 1-C2466.16
Lab Ref No : WL4708/40-LAA
Client Ref No : 1-C2466.16

Test Results

Test Specimen Grading:

A

Los Angeles Abrasion Loss:

16%

Test Method

NZS 4407 : 2015, Test 3.12

Date tested : 4/11/2025
Date reported : 7/11/2025

* Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
This report may only be reproduced in full

IANZ Approved Signatory

Steve McCone

Designation : Laboratory Manager

Date : 7/11/2025



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

LOS ANGELES ABRASION
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA c/- Aurecon & WSP Ltd
Contractor : N/A
Sampled by : NC_ Site Team
Date sampled : 22/08/25
*Sampling method : Core
Sample description : GREYWACKE SANDSTONE
Sample condition : As Received
Source: BH2B_1144 (21.46-25.50m)

Project No : 1-C2466.16
Lab Ref No : WL4708/83-LAA
Client Ref No : 1-C2466.16

Test Results	
Test Specimen Grading:	B
Los Angeles Abrasion Loss:	16%

Test Method
NZS 4407 : 2015, Test 3.12

Date tested : 18/12/2025
Date reported : 12/01/2026

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IANZ Approved Signatory

Dave Hotham

Designation : Technical Advisor

Date : 12/01/2026



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LOS ANGELES ABRASION
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA c/- Aurecon & WSP Ltd
Contractor : N/A
Sampled by : NC_ Site Team
Date sampled : 22/08/25
*Sampling method : Core
Sample description : GREYWACKE SANDSTONE
Sample condition : As Received
Source: BH2B_1144 (26.50-31.20m)

Project No : 1-C2466.16
Lab Ref No : WL4708/84-LAA
Client Ref No : 1-C2466.16

Test Results	
Test Specimen Grading:	B
Los Angeles Abrasion Loss:	17%

Test Method
NZS 4407 : 2015, Test 3.12

Date tested : 19/12/2025
Date reported : 12/01/2026

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IANZ Approved Signatory
Dave Hotham
Designation : Technical Advisor
Date : 12/01/2026



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LOS ANGELES ABRASION
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA c/- Aurecon & WSP Ltd
Contractor : N/A
Sampled by : NC_ Site Team
Date sampled : 26/08/25
*Sampling method : Core
Sample description : GREYWACKE SANDSTONE
Sample condition : As Received
Source : BH2B_1144 (41.10-46.50m)

Project No : 1-C2466.16
Lab Ref No : WL4708/85-LAA
Client Ref No : 1-C2466.16

Test Results	
Test Specimen Grading:	B
Los Angeles Abrasion Loss:	16%

Test Method
NZS 4407 : 2015, Test 3.12

Date tested : 18/12/2025
Date reported : 12/01/2026

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IANZ Approved Signatory
Dave Hotham
Designation : Senior Civil Engineering Technician
Date : 12/01/2026



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LOS ANGELES ABRASION
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA c/- Aurecon & WSP Ltd
Contractor : N/A
Sampled by : NC_ Site Team
Date sampled : 27/08/25
*Sampling method : Core
Sample description : GREYWACKE SANDSTONE
Sample condition : As Received
Source: BH2B_1144 (48.20m-50.55m)

Project No : 1-C2466.16
Lab Ref No : WL4708/86-LAA
Client Ref No : 1-C2466.16

Test Results

Test Specimen Grading:	B
Los Angeles Abrasion Loss:	16%

Test Method

NZS 4407 : 2015, Test 3.12

Date tested : 18/12/2025
Date reported : 12/01/2026

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IANZ Approved Signatory

Dave Hotham

Designation : Technical Advisor

Date : 12/01/2026



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