# Noise and Vibration Part 1

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<th>Projectwise Drawing Reference</th>
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<td>NOISE CHANGE CONTOUR PLOTS FOR DO-MINIMUM CHANGE LONG TERM 2041 V 2026 chainage 40000 to 41200</td>
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A9P09-CFJ-ENV-M_ML532_ZZ-DR-EN-0002GIS
A9P09-CFJ-ENV-M_ML546_ZZ-DR-EN-0002GIS
A9P09-CFJ-ENV-M_ML560_ZZ-DR-EN-0002GIS
to Inverness

42200
42600
41400
41800
41200
42000
41600
42400
42800

Legend
- Building
- Residential Building
- Road
- Surface - Hot Rolled Asphalt
- Road
- Surface - Existing Low Noise

Change in Daytime
Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

SCALE 1:5000

DESIGN: ME
DRAWN: HA
CHECK: GG
APPROVED: JF
APR 18

3

P01

DRAFT FOR COMMENT

DESIGN UPDATE

MAY 18

S3

FINAL REVISIONS

JUNE 18

S3

PROJECT 9 CRUBENMORE TO KINCRAIG EIA
PROPOSED SCHEME PLAN
DRAWING 17.4
NOISE CHANGE CONTOUR PLOTS FOR DO-MINIMUM
CHANGE LONG TERM 2041 V 2026

2009-0001

DWG: A9P09-CFJ-ENV-M_ML412_ZZ-DR-EN-0001
DATE: 02/08/2018
PROJ: 495298
DESIGN UPDATE

MAY 18

S3

FINAL REVISIONS

JUNE 18

S3

PROJECT 9 CRUBENMORE TO KINCRAIG EIA
PROPOSED SCHEME PLAN
DRAWING 17.4
NOISE CHANGE CONTOUR PLOTS FOR DO-MINIMUM
CHANGE LONG TERM 2041 V 2026

2009-0001

DWG: A9P09-CFJ-ENV-M_ML412_ZZ-DR-EN-0001
DATE: 02/08/2018
PROJ: 495298
DESIGN UPDATE

MAY 18

S3

FINAL REVISIONS

JUNE 18

S3
DESCRIPTION

SUITABILITY:

A3

SHEET:

3 OF 13

REV:

C01

DATE:

02/08/2018

PROJ:

495298

DESIGN:

ME

DRAWN:

HA

CHK:

GG

APP:

JF

PROJECT 9 CRUBENMORE TO KINCRAIG EIA

PROPOSED SCHEME PLAN

DRAWING 17.5

NOISE CHANGE CONTOUR PLOTS FOR DO-MINIMUM CHANGE LONG TERM 2041 V 2026

chainage 42800 to 44200

DRAFT FOR COMMENT

APR 18

S3

P01

DESIGN UPDATE

HA

JF

MAY 18

S3

P02

FINAL REVISIONS

HA

JF

JUNE 18

S3

P03

Legend

Building

Residential Building

Road

(Surface - Hot Rolled Asphalt)

Road

(Surface - Existing Low Noise)

Change in Daytime Road Traffic Noise, dB

< 3

-3 to -2

-2 to -1

-1 to 0

0 to 1

1 to 2

2 to 3

3 to 4

4 to 5

5 to 6

6 to 7

7 to 8

> 8

Metres

0

125

250

SCALE 1:5000

Legend
PROJECT 9 CRUBENMORE TO KINCRAIG EIA
PROPOSED SCHEME PLAN
DRAWING 17.6
NOISE CHANGE CONTOUR PLOTS FOR DO-MINIMUM
CHANGE LONG TERM 2041 V 2026

Legend

- Building
- Residential Building
- Road (Surface - Hot Rolled Asphalt)
- Road (Surface - Existing Low Noise)

Change in Daytime Road Traffic Noise, dB

- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

SCALE 1:5000

Metres

0 125 250

DESIGN: ME
DRAWN: HA
CHK: GG
APP: JF

APR 18
S3
P01

DESIGN UPDATE
HA
JF
MAY 18
S3
P02

FINAL REVISIONS
HA
JF
JUNE 18
S3
P03
Legend
- Building
- Residential Building
- Road
- Surface - Hot Rolled Asphalts
- Road
- Surface - Existing Low Noise

Change in Daytime
Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

SCALE 1:5000

PROJECT: DESIGN UPDATE FOR PROJECT REVISIONS AND PLAN
CHANGE IN DAYTIME ROAD TRAFFIC NOISE FOR DO-MINIMUM CHANGE LONG TERM 2026 V 2041
CHANGE BOROUGHizioni

DESIGNER: ME
DRAWN: HA
CHECK: GG
APPROVED: JF
DATE: 01/06/2018
PROJECT: 495298
PROJ: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001
SHEET: 5 OF 13
REVISION: C01
DWG: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001

CH2M MILLER KREITZER
CAREER HOUSE, 393 BUCHAN ROAD, GLASGOW, G31 3AL
TEL: 0800-141-4655, FAX: 0800-141-4766

DESIGNER: ME
DRAWN: HA
CHECK: GG
APPROVED: JF
DATE: 01/06/2018
PROJECT: 495298
PROJ: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001
SHEET: 5 OF 13
REVISION: C01
DWG: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001

DESIGNER: ME
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REVISION: C01
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DESIGNER: ME
DRAWN: HA
CHECK: GG
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DATE: 01/06/2018
PROJECT: 495298
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DESIGNER: ME
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DATE: 01/06/2018
PROJECT: 495298
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REVISION: C01
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DESIGNER: ME
DRAWN: HA
CHECK: GG
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REVISION: C01
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DRAWN: HA
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APPROVED: JF
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REVISION: C01
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DESIGNER: ME
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PROJECT: 495298
PROJ: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001
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REVISION: C01
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REVISION: C01
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DESIGNER: ME
DRAWN: HA
CHECK: GG
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PROJECT: 495298
PROJ: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001
SHEET: 5 OF 13
REVISION: C01
DWG: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001

DESIGNER: ME
DRAWN: HA
CHECK: GG
APPROVED: JF
DATE: 01/06/2018
PROJECT: 495298
PROJ: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001
SHEET: 5 OF 13
REVISION: C01
DWG: A9P09-CFJ-ENV-M_ML442_ZZ-DR-EN-0001
Legend

- Building
- Residential Building
- Road
- (Surface - Hot Rolled Asphalt)
- Road
- (Surface - Existing Low Noise)

Change in Daytime Road Traffic Noise, dB

- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

SCALE 1:5000

PROJECT 9 CROMMEN TO INVERNESS A9 DUAL CARRIAGEWAY DUALLING
PROPOSED SCHEME PLAN
NOISE CHANGE CONTOUR PLATES FOR ED MINIMUM CHANGES LEVEL FROM 2026 TO 2041

CH2M HILL Fairhurst JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel: +44 (0) 141 552 2000 Fax: +44 (0) 141 552 2525

DESIGN: ME
DRAWN: HA
CHK: GG
APP: JF

DATE: 30/08/2018
PROJ: 495298
DESIGN UPDATE: MAY 18
FINAL REVISIONS: JUNE 18

METRES
0 125 250
M 1:5000

to Inverness

to Perth
Legend

- Building
- Residential Building
- Road
- (Surface - Hot Rolled Asphalt)
- Road
- (Surface - Existing Low Noise)

Change in Daytime Road Traffic Noise, dB

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<td>-125</td>
</tr>
<tr>
<td>-2</td>
<td>-125</td>
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<td>-125</td>
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<tr>
<td>0</td>
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</tr>
<tr>
<td>7</td>
<td>-125</td>
</tr>
<tr>
<td>&gt; 7</td>
<td>-125</td>
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Legend

- Building
- Residential Building
- Road
  - (Surface - Hot Rolled Asphalt)
  - (Surface - Existing Low Noise)

Change in Daytime Road Traffic Noise, dB

- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

โครงการการปรับปรุงทาง A9: ริมทะเลกับ Inverness ถึง Perth แผนที่ 17.10 ที่ผันผวนการเปลี่ยนแปลงของเสียงการจราจรในวันปกติ ระหว่างปี 2026 และ 2041 สายการจราจร 48600 ถึง 50000 แผนที่สกัล 1:5000
Project 9 Crubenmore to Kincraig EIA
Proposed Scheme Plan
Drawing 17.12
Noise Change Contours Plots for DO-Minimum
Change Long Term 2041 v 2026

Legend
- Building
- Residential Building
- Road
  (Surface - Hot Rolled Asphalt)
- Road
  (Surface - Existing Low Noise)

Change in Daytime Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

Scale 1:5000

Metres

To Inverness

To Perth

Design Update
HA JF May 18

Final Revisions
HA JF June 18

Draft for Comment
HA JF Apr 18
Legend
- Building
- Residential Building
- Road
- (Surface - Hot Rolled Asphalt)
- Road
- (Surface - Existing Low Noise)

Change in Daytime
Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- 8

to Inverness

to Perth

S3

SCALE 1:5000

Legend

- Building
- Residential Building
- Road
- (Surface - Hot Rolled Asphalt)
- Road
- (Surface - Existing Low Noise)

Change in Daytime
Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- 8

to Inverness

to Perth

S3

SCALE 1:5000

Legend

- Building
- Residential Building
- Road
- (Surface - Hot Rolled Asphalt)
- Road
- (Surface - Existing Low Noise)

Change in Daytime
Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- 8

to Inverness

to Perth

S3
PROJECT NUMBER: A9/3
PROPOSED ROUTE PLAN
CHANGE: NOISE CHANGE CONTOUR PLOTS FOR DO-MINIMUM
CHANGE LONG TERM 2026 V 2041

Legend
- Building
- Residential Building
- Road
  - (Surface - Hot Rolled Asphalt)
  - (Surface - Existing Low Noise)

Change in Daytime
Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to 1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

SCALE 1:5000

DESIGN: ME
DRAWN: HA
CHK: GG
APP: JF

JUNE 18
S3
P03

DESIGN UPDATE
MAY 18
S3
P02

DRAFT FOR COMMENT
APR 18
S3
P01

0 125 250
Metres

to Perth

to Inverness

CH2M HILL Fairhurst JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel +44 (0) 141 552 2000 Fax +44 (0) 141 552 2525
to Inverness

to Perth

Legend
- Building
- Residential Building
- Road (Surface - Hot Rolled Asphalt)
- Road (Surface - Existing Low Noise)

Change in Daytime Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8
to Perth

to Inverness

Legend

- Building
- Residential Building
- Road (Surface - Hot Rolled Asphalt)
- Road (Surface - New Low Noise)
- Proposed Scheme Detail
- Permanent Works Boundary
- Temporary Works Boundary

Change in Daytime Road Traffic Noise, dB
- < -3
- -3 to -2
- -2 to -1
- -1 to 0
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 4
- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

SCALE 1:5000

DESIGN: ME
DRAWN: HA
CHK: GG
APP: JF

DATE: 30/07/2018
PROJ: 495298

DESIGN UPDATE: HA JF MAY 18
S3 P02

FINAL REVISIONS: HA JF JUNE 18
S3 P03

DRAFT FOR COMMENT HA JF APR 18
S3 P01

PROJECT 9 CRUBENMORE TO KINCRAIG EIA
PROPOSED SCHEME PLAN
DRAWING 17.17
NOISE CHANGE CONTOUR PLOTS FOR DO-SOMETHING CHANGE FROM 2026 V 2026
CHAINAGE 41200 TO 42800

CH2m ILUMA LTD
CITY OF INVERNESS
CH2m House, 3/13 Skye Street, Inverness IV3 5EY
Tel: +44 (0) 1463 20310 Fax: +44 (0) 1463 203193

METRES

0 125 250

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CH2m ILUMA LTD
CITY OF INVERNESS
CH2m House, 3/13 Skye Street, Inverness IV3 5EY
Tel: +44 (0) 1463 20310 Fax: +44 (0) 1463 203193

METRES

0 125 250

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Legend

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Change in Daytime Road Traffic Noise, dB

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- > 8

Scale 1:5000

Metres

0 125 250

to Perth

to Inverness

Project:

PROJ: 495298

Design:

DESIGN: ME
DRAWN: HA
CHK: GG
APP: JF

Drawn by: CH2M HILL Fairhurst JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel + 44 (0) 141 552 2000 Fax +44 (0) 141 552 2525

Date: 30/07/2018

Draft for Comment

APR 18

Design Update

MAY 18

Final Revisions

JUNE 18

Note: This report contains only selected data and has been compiled to assist in the preparation of a report. It is not intended to be a comprehensive study of all the factors involved.

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Legend

- Building
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Change in Daytime Road Traffic Noise, dB

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- 4 to 5
- 5 to 6
- 6 to 7
- 7 to 8
- > 8

Drawn by: HA
Checked by: GG
Approved by: JF

Project: 9 CRUBENMORE TO KINCRAIG EIA
Proposed Scheme Plan

Noise Change Contours for DO-SOMETHING Change Survey Plan (July 2016)
Legend

- Building
- Residential Building
- Road (Surface - Hot Rolled Asphalt)
- Road (Surface - New Low Noise)
- Proposed Scheme Detail
- Permanent Works Boundary
- Temporary Works Boundary

Change in Daytime
Road Traffic Noise, dB
- < -3
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Scale 1:5000

To Inverness
To Perth