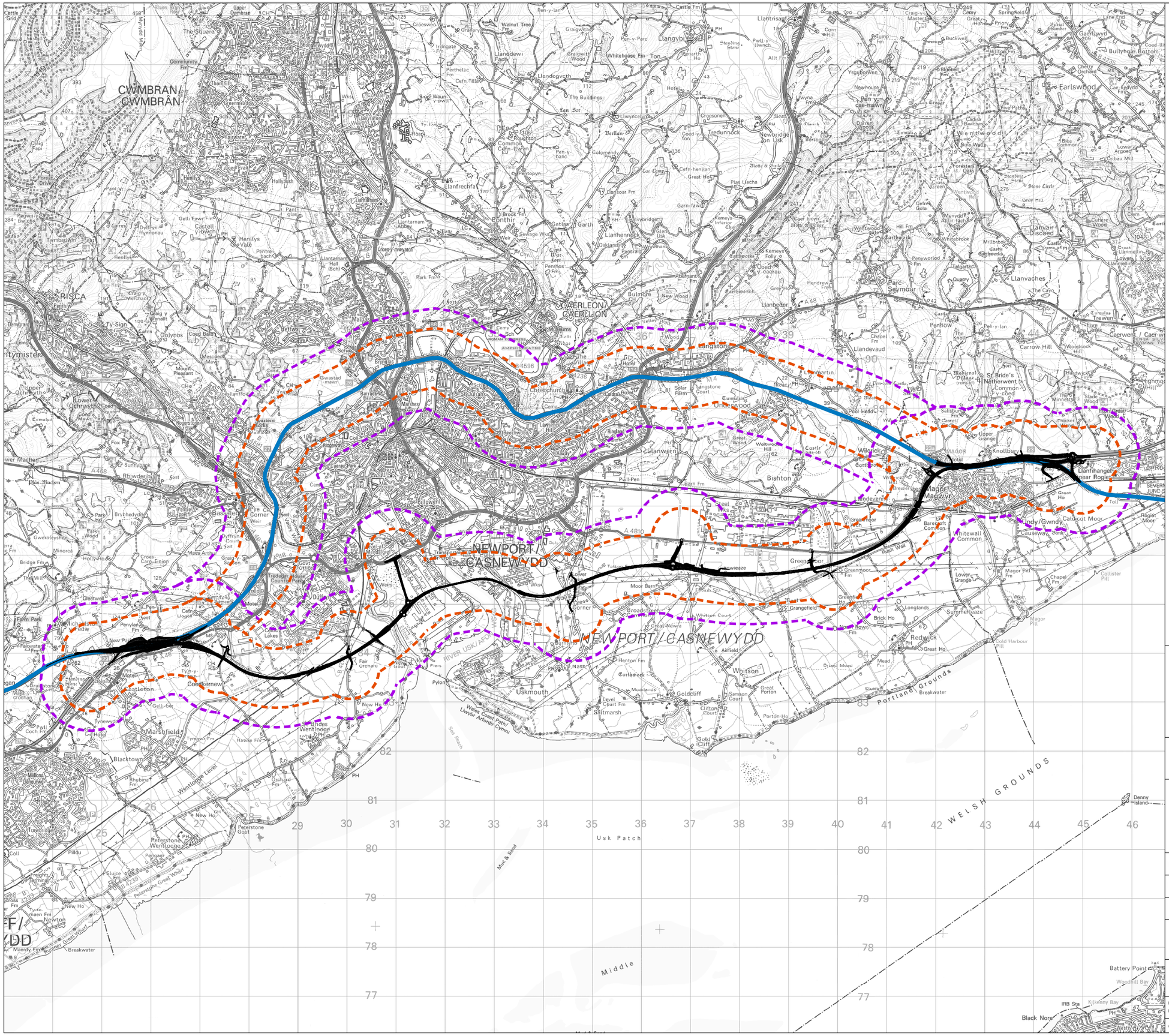


Legend

- New Section of Motorway
- Existing route of M4

Indicative buffers

- 1,000m - Study area
- 600m - Calculation area (from both existing & proposed M4 carriageway)

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Welsh Government

Environmental Statement

Study and Calculation Areas

Figure: 13.1	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:75,000
0 1,000 2,000 m

N

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dwg ref: 8235-0446-04

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2a	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500
0 125 250 m

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dwg ref: 8235-0383-06

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2b	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2c	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

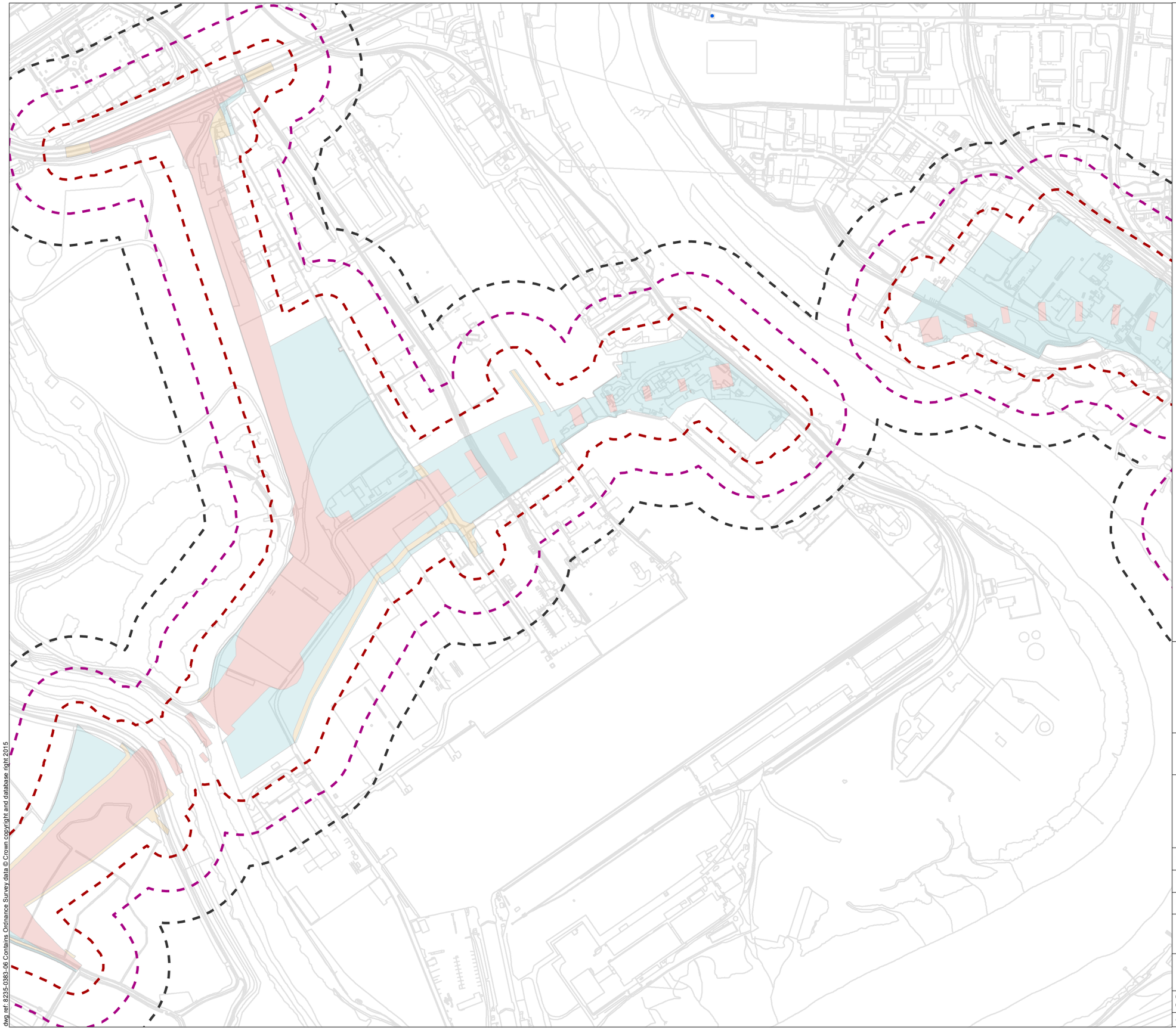
0 125 250 m

N

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2d	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500
0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

Llywodraeth Cymru
Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2e	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

Llywodraeth Cymru
Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2f	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

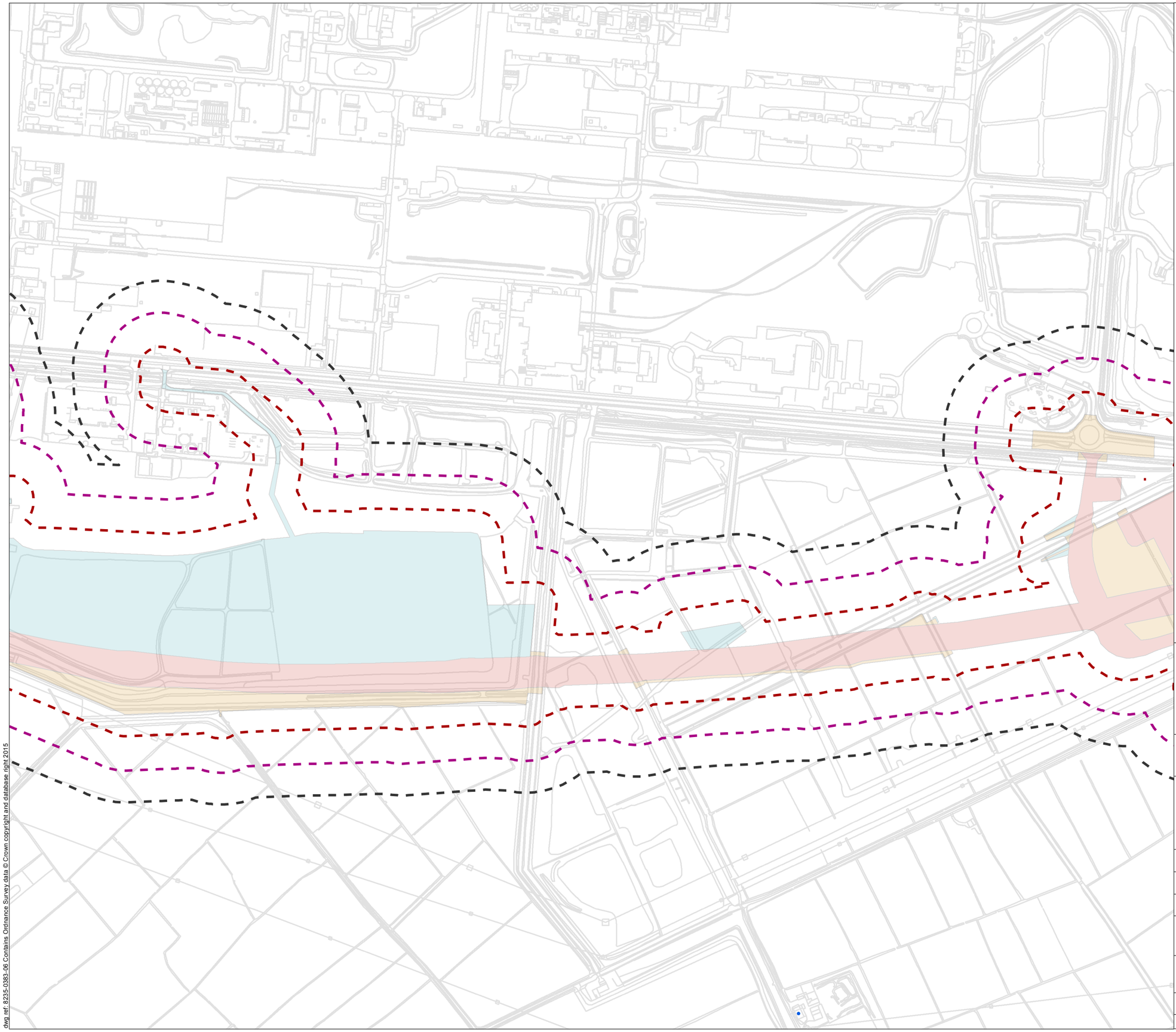
Scale: A3 @ 1:7,500
0 125 250 m

N

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2g	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

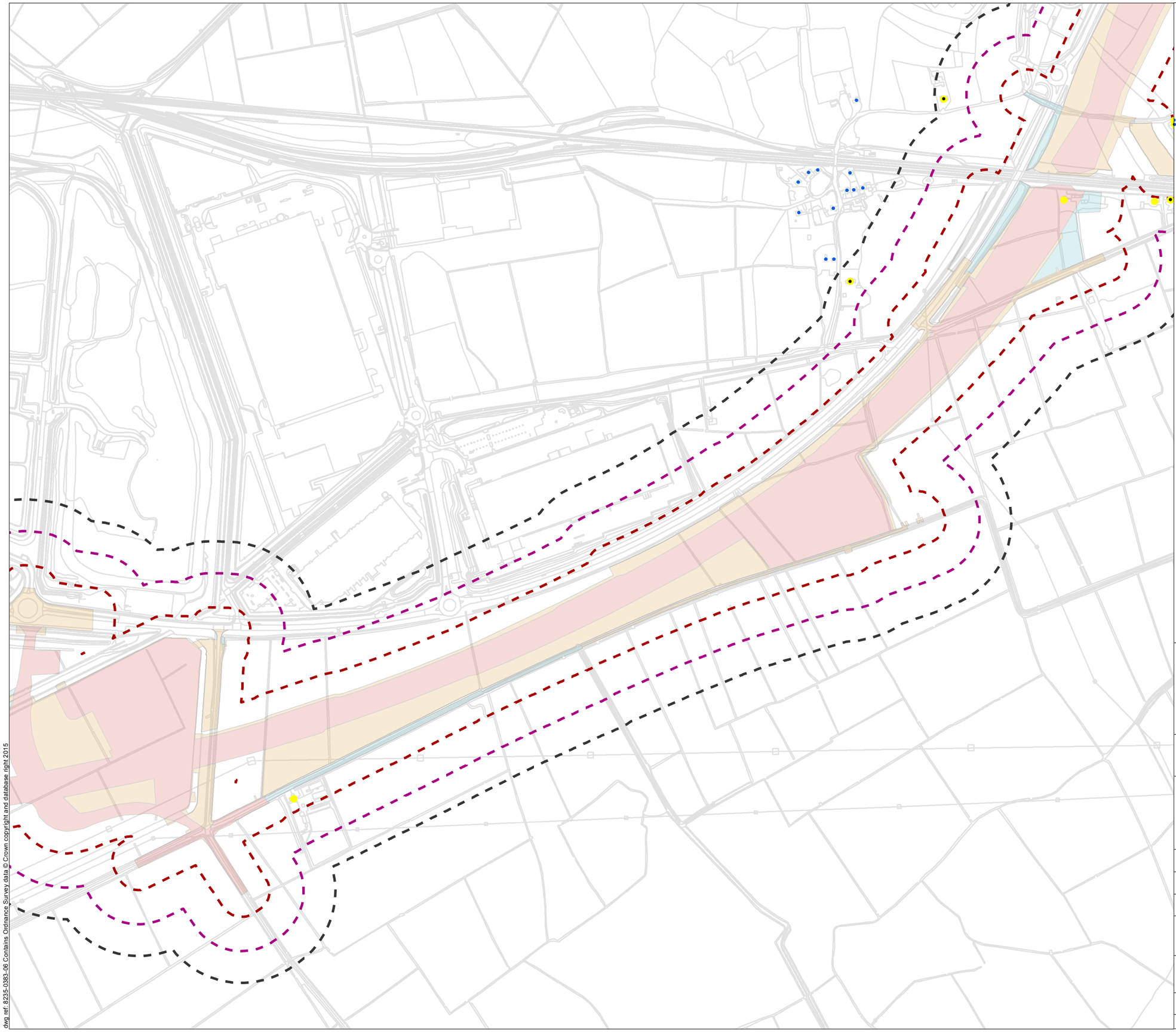
Scale: A3 @ 1:7,500
0 125 250 m

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Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2h	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

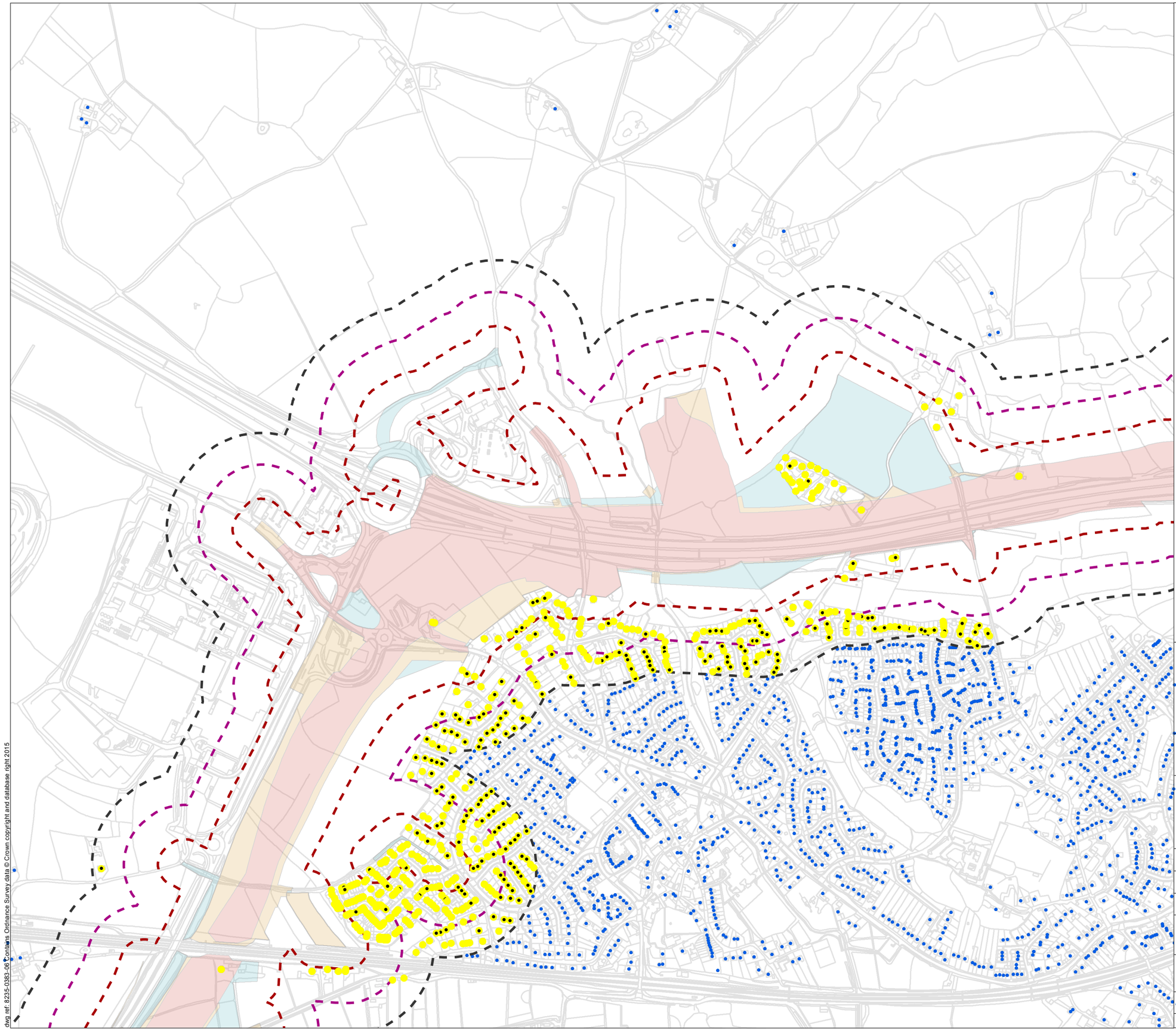
Scale: A3 @ 1:7,500
0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2i	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (without Mitigation)

Figure: 13.2j	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

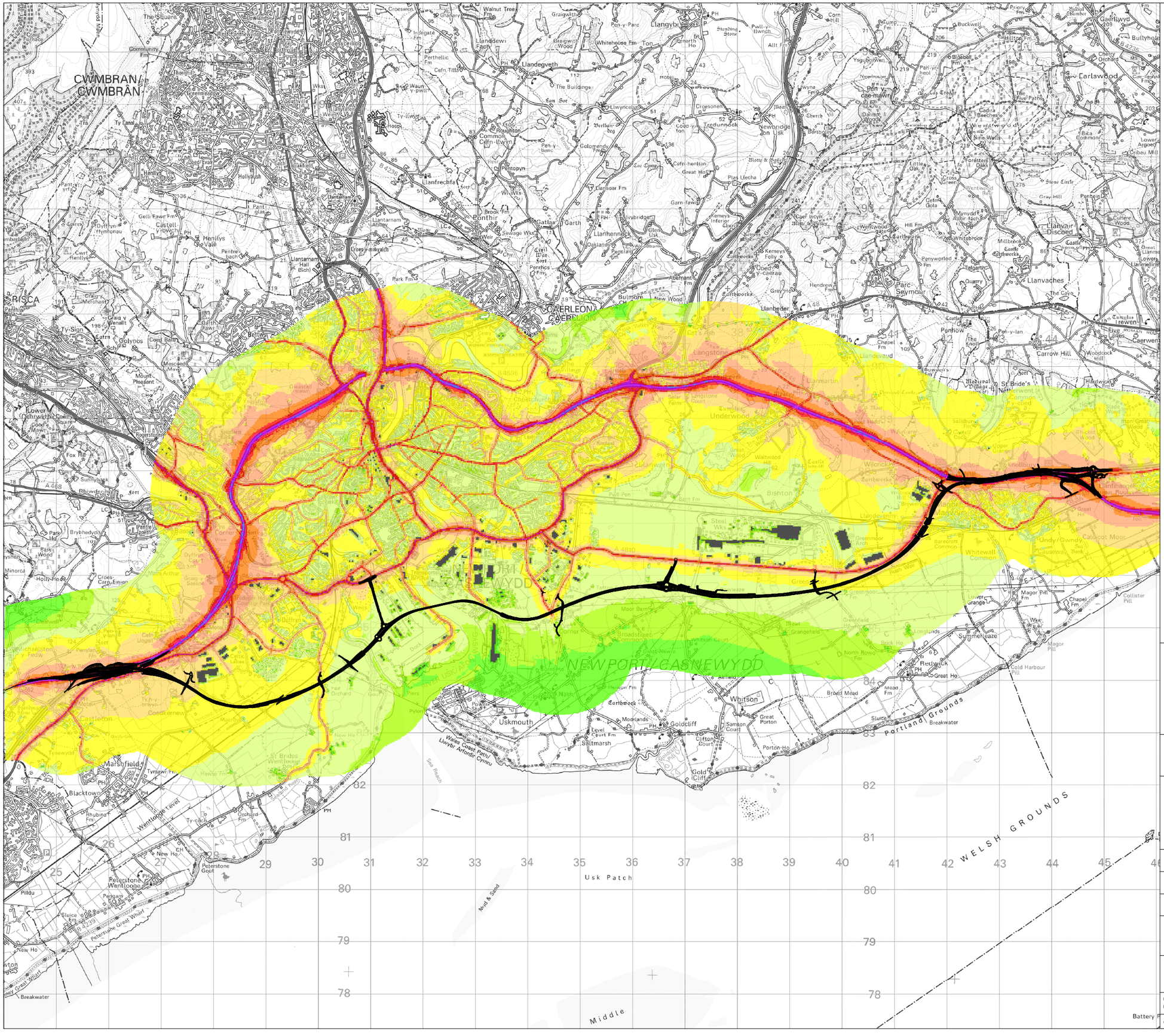
0 125 250 m

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=42
42<	<=45
45<	<=50
50<	<=55
55<	<=60
60<	<=65
65<	<=70
70<	<=75
75<	<=80
80<	<=85
85<	<=90
90<	

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Welsh Government

Environmental Statement

Operational Daytime Noise Levels for Base Year (2014Base)

Figure: 13.3	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

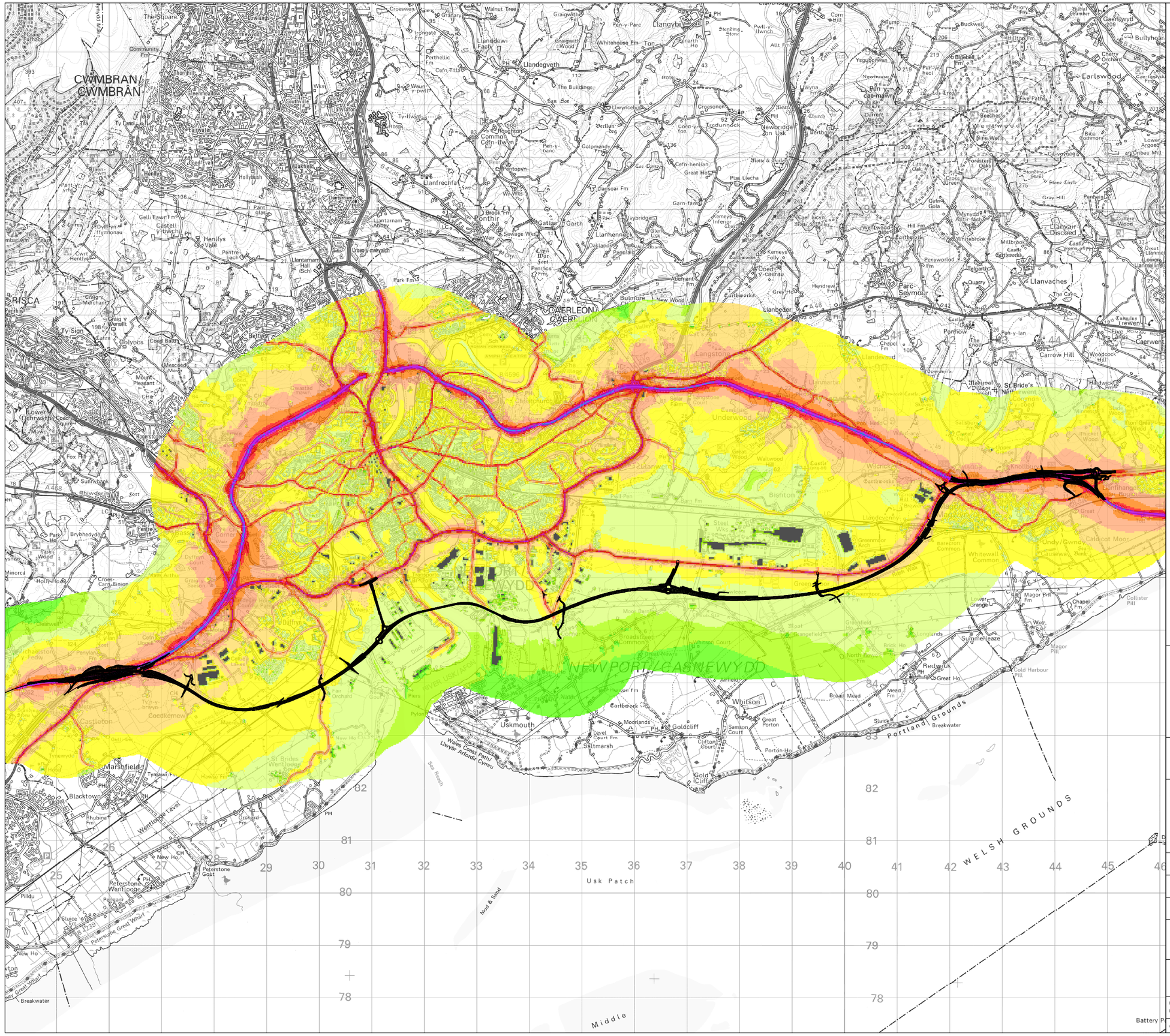
Scale: A3 @ 1:70,000
0 1,000 2,000 m

N

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dwg ref: 8235-0336-06

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=42
42<	<=45
45<	<=50
50<	<=55
55<	<=60
60<	<=65
65<	<=70
70<	<=75
75<	<=80
80<	<=85
85<	<=90
90<	

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Welsh Government

Environmental Statement

Operational Daytime Noise Levels for Opening Year Without Scheme (2022OYDM)

Figure: 13.4	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:70,000
0 1,000 2,000 m

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Legend

New Section of Motorway

Building

Noise Level L10(18h) in dB(A)

	<=42
42<	<=45
45<	<=50
50<	<=55
55<	<=60
60<	<=65
65<	<=70
70<	<=75
75<	<=80
80<	<=85
85<	<=90
90<	

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Welsh Government

Environmental Statement

Operational Daytime Noise Levels for Future Year Without Scheme (2037FYDM)

Figure: 13.5	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:70,000

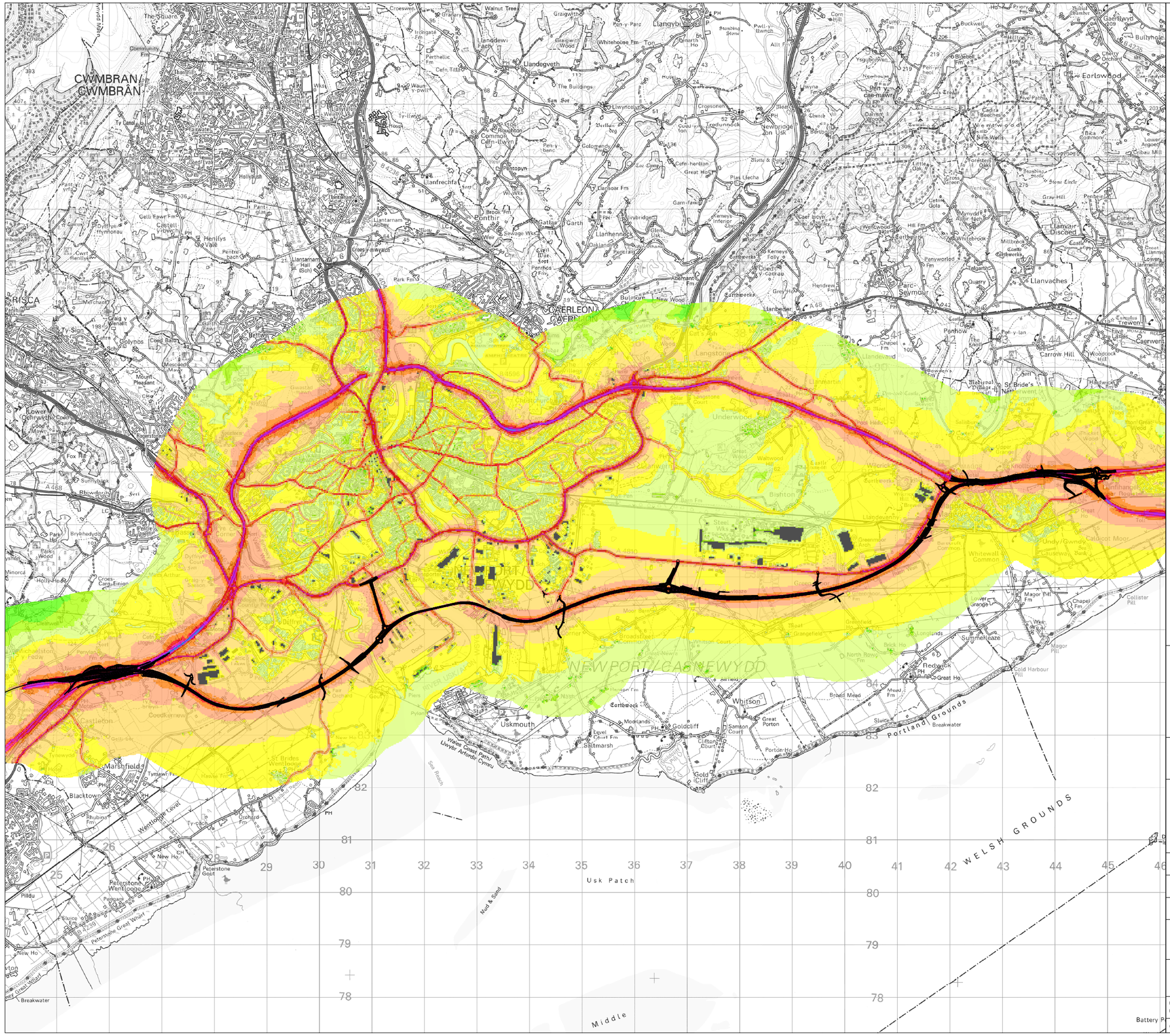
0 1,000 2,000 m

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=42
42<	<=45
45<	<=50
50<	<=55
55<	<=60
60<	<=65
65<	<=70
70<	<=75
75<	<=80
80<	<=85
85<	<=90
90<	

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Welsh Government

Environmental Statement

Operational Daytime Noise Levels for Opening Year With Scheme and Committed Mitigation (2022OYDSCM)

Figure: 13.6	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

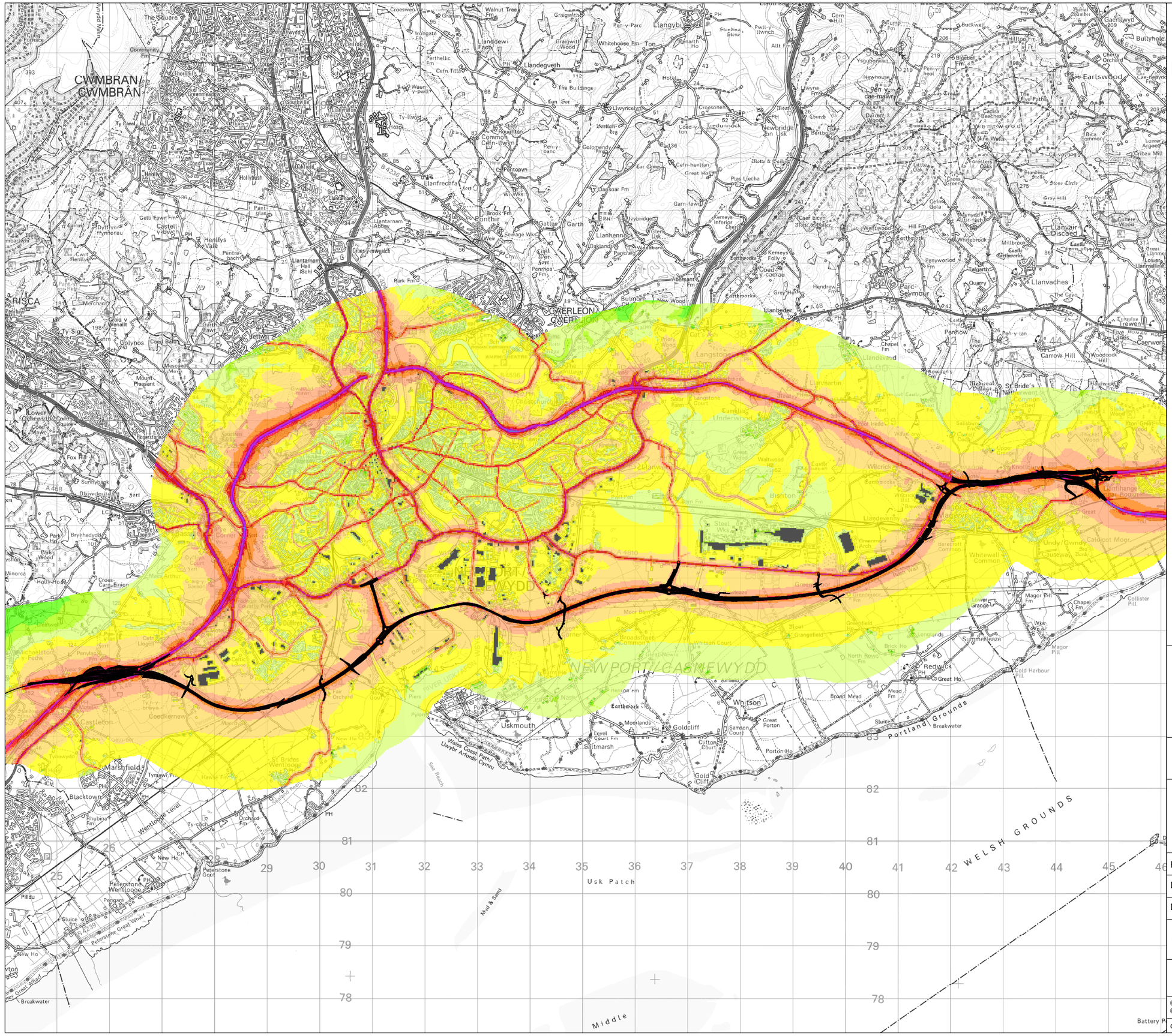
Scale: A3 @ 1:70,000
0 1,000 2,000 m

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dwg ref: 8235-0341-07

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=42
42<	<=45
45<	<=50
50<	<=55
55<	<=60
60<	<=65
65<	<=70
70<	<=75
75<	<=80
80<	<=85
85<	<=90
90<	

Llywodraeth Cymru
Welsh Government

Environmental Statement

Operational Daytime Noise Levels for Future Year With Scheme and Committed Mitigation (2037FYDSCM)

Figure: 13.7	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

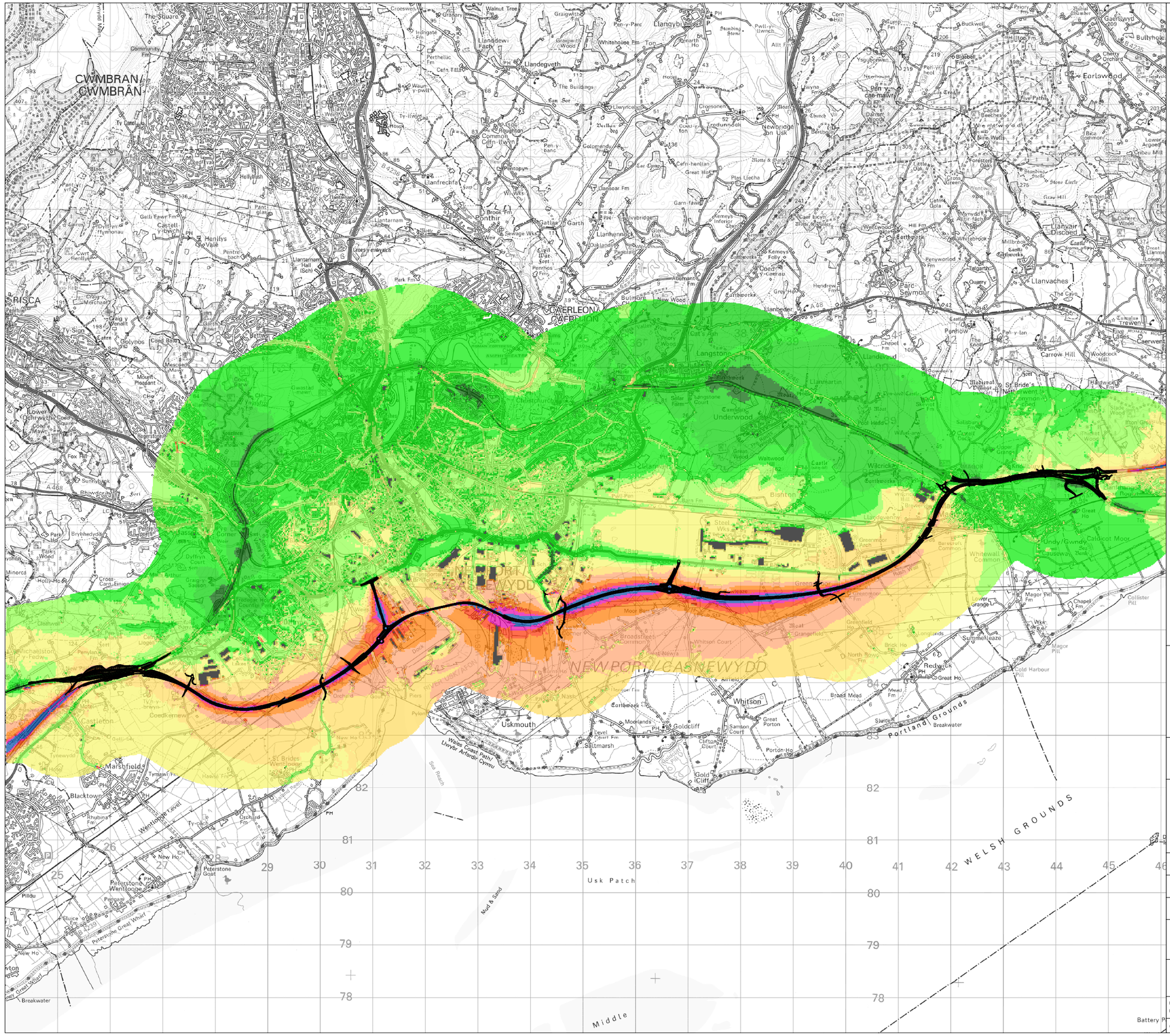
Scale: A3 @ 1:70,000
0 1,000 2,000 m

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=-6
-6<	<=-3
-3<	<=-0.5
-0.5<	<=0.5
0.5<	<=3
3<	<=6
6<	<=9
9<	<=12
12<	<=15
15<	<=18
18<	

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Environmental Statement

Noise difference contours - Do-Minimum scenario to Do-Something scenario for Opening Year (2022OYDM -> 2022OYDSCM)

Figure: 13.8	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

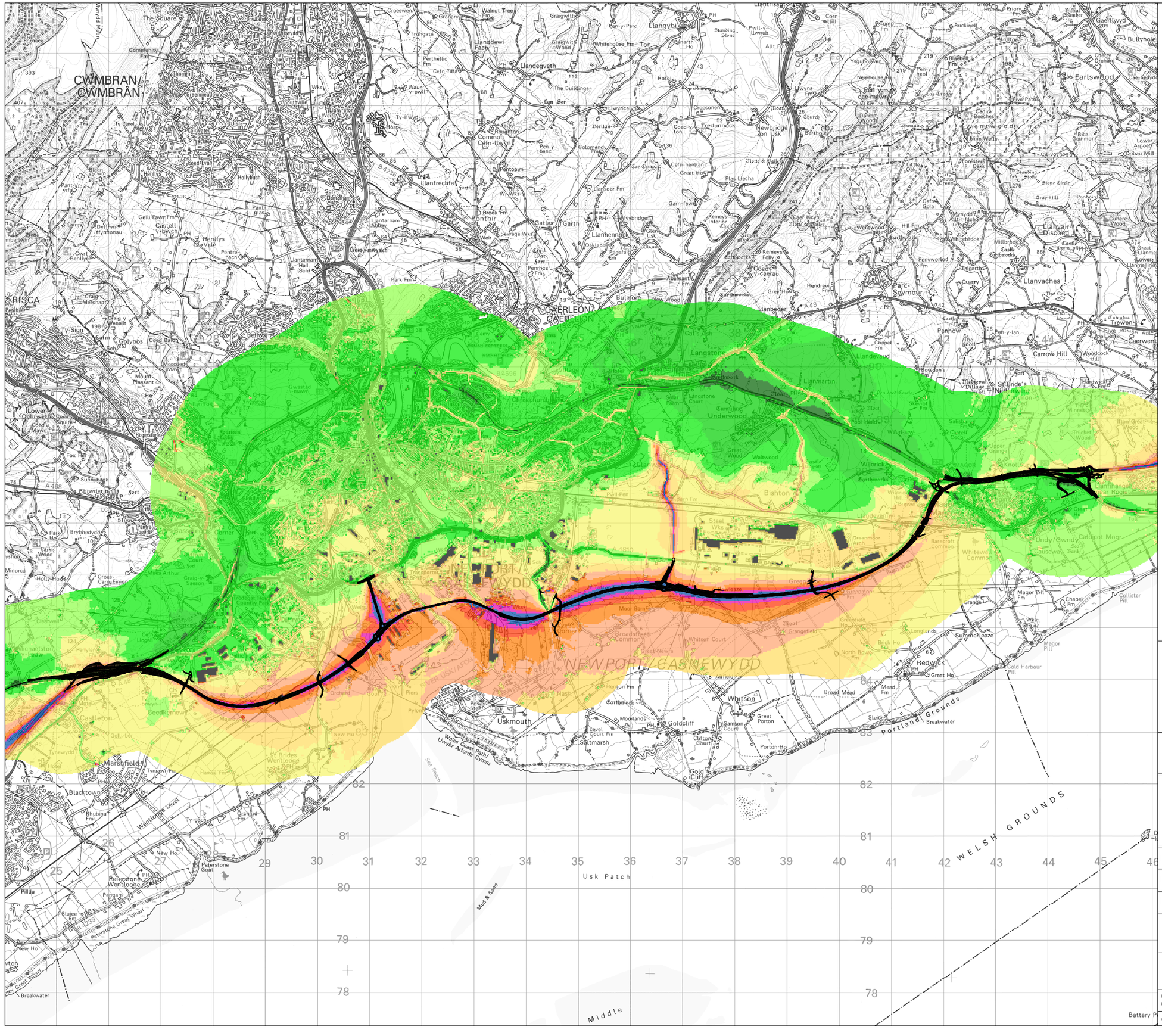
Scale: A3 @ 1:70,000
0 1,000 2,000 m

N

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=-6
-6<	<=-3
-3<	<=-0.5
-0.5<	<=0.5
0.5<	<=3
3<	<=6
6<	<=9
9<	<=12
12<	<=15
15<	<=18
18<	

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Welsh Government

Environmental Statement

Noise difference contours - Do-Minimum scenario in the Opening Year to Do-Something scenario for Future Year (2022OYDM -> 2037FYDSCM)

Figure: 13.9	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:70,000

0 1,000 2,000 m

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Legend

- New Section of Motorway
- Noise Protection Wall

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Environmental Statement

Proposed Locations of Acoustic Barriers

Figure: 13.10	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:70,000
0 1,000 2,000 m

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dwg ref: 8235-0348-08

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11a	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

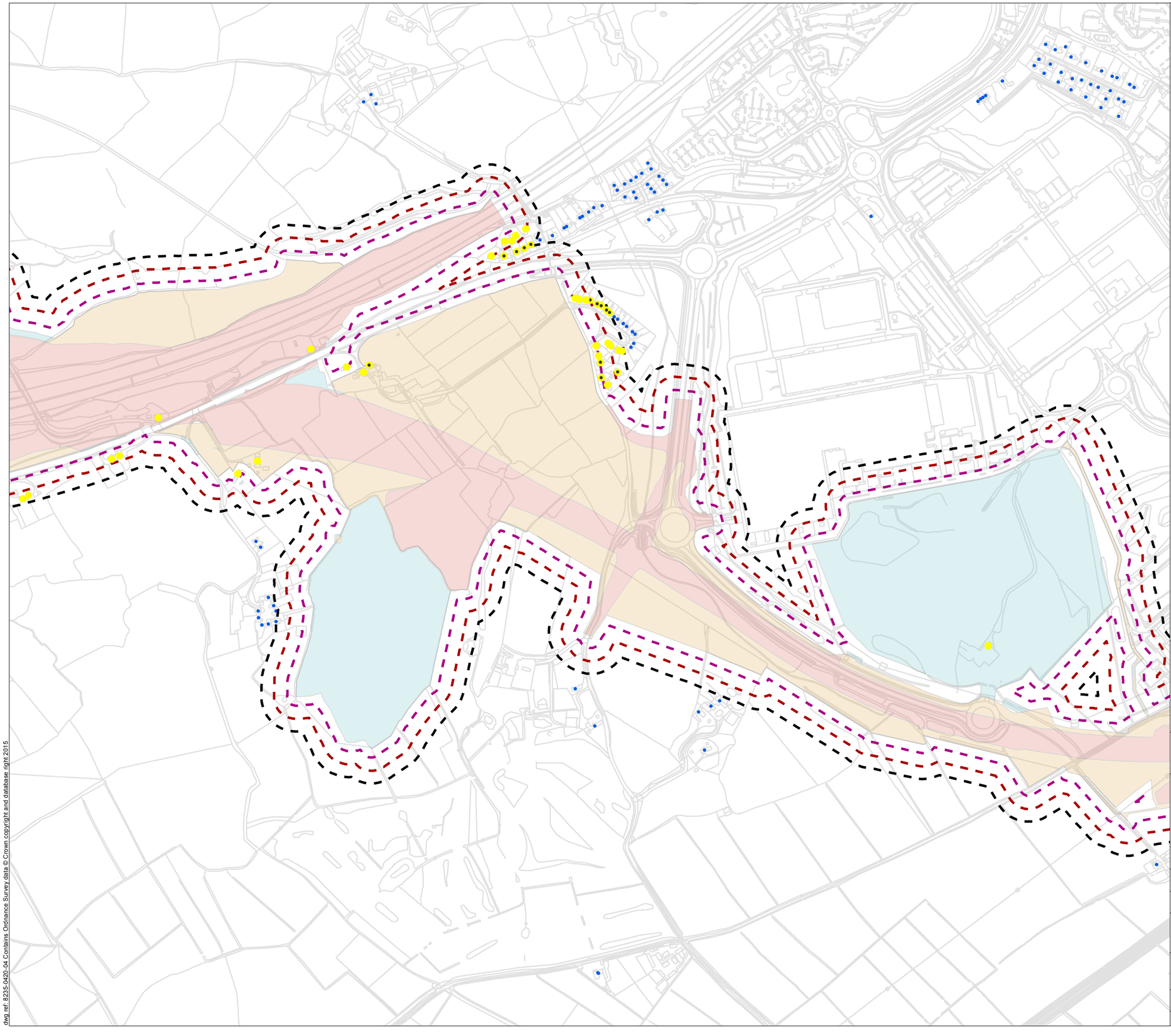
0 125 250 m

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Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11b	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

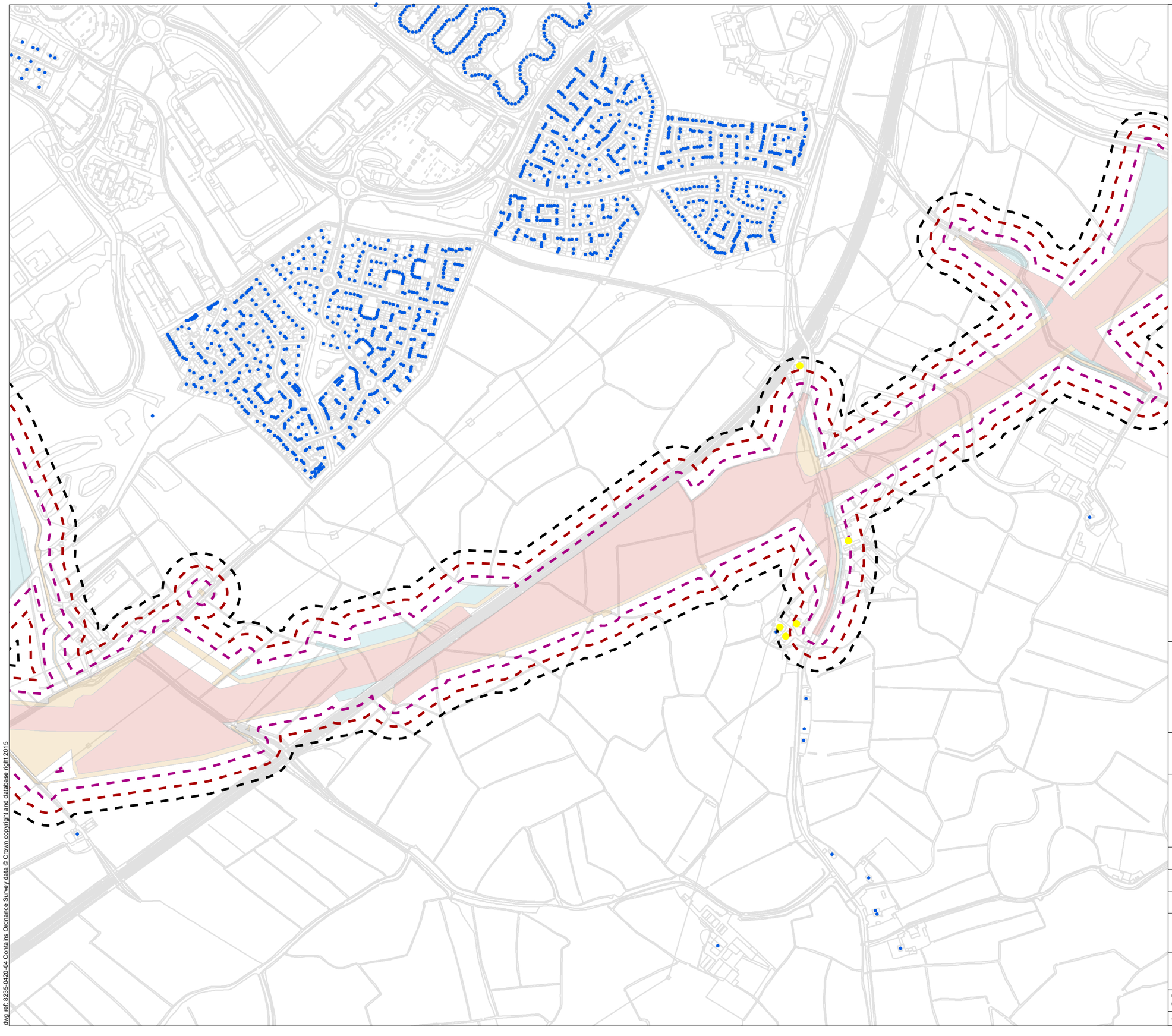
Scale: A3 @ 1:7,500
0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

Llywodraeth Cymru
Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11c	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

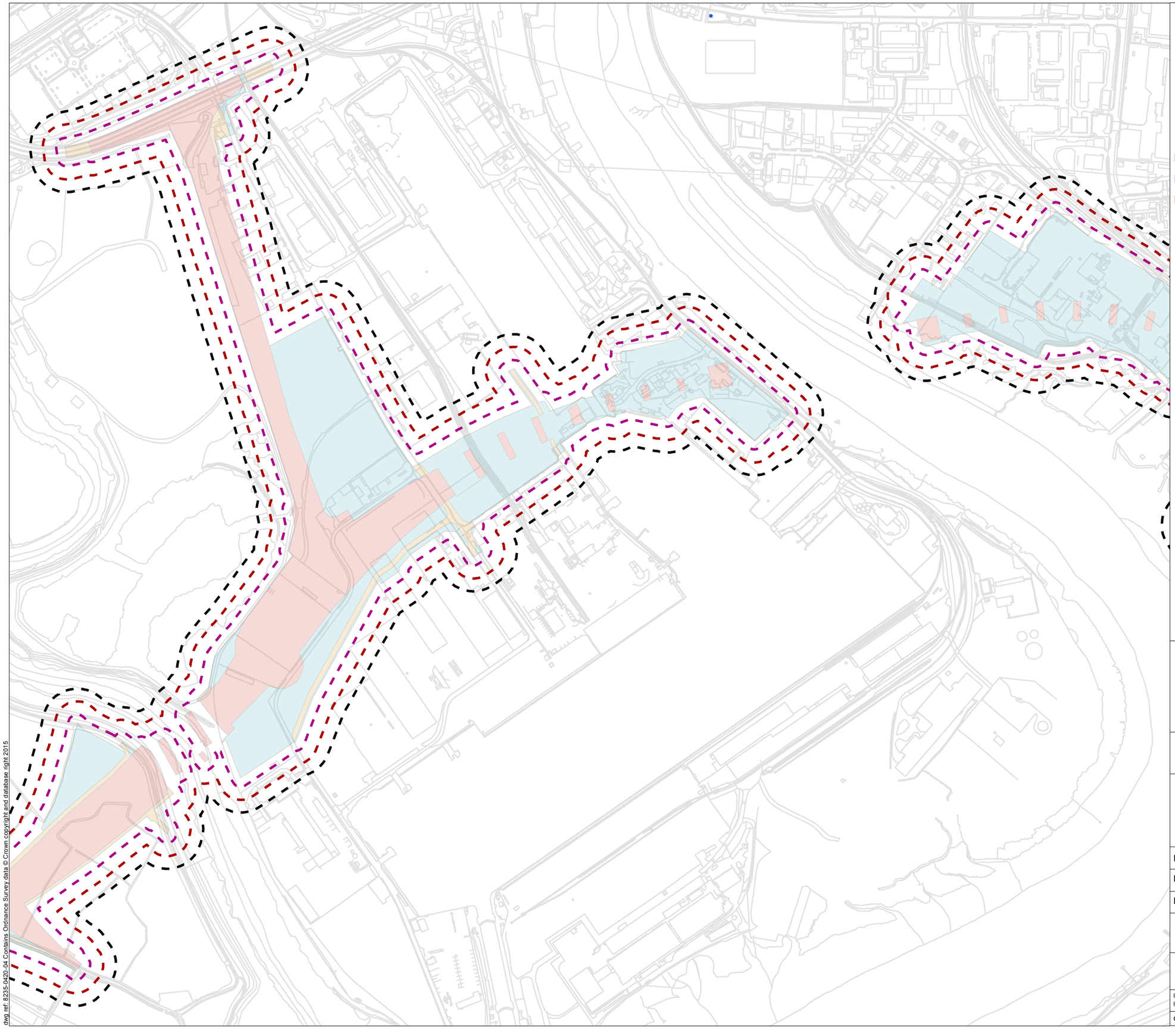
Scale: A3 @ 1:7,500
0 125 250 m

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Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11d	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500
0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11e	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500
0 125 250 m

N

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11f	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

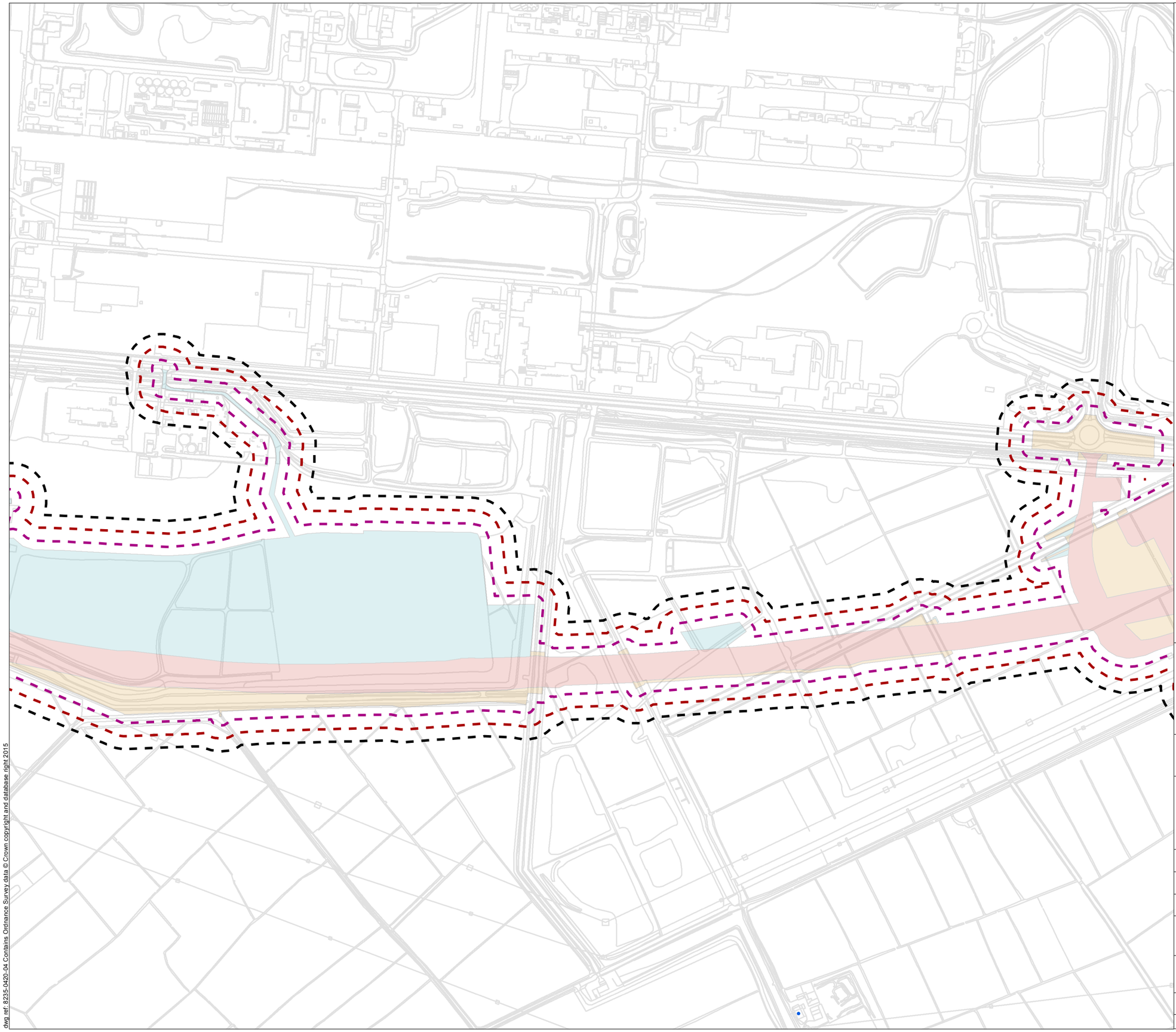
Scale: A3 @ 1:7,500
0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11g	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

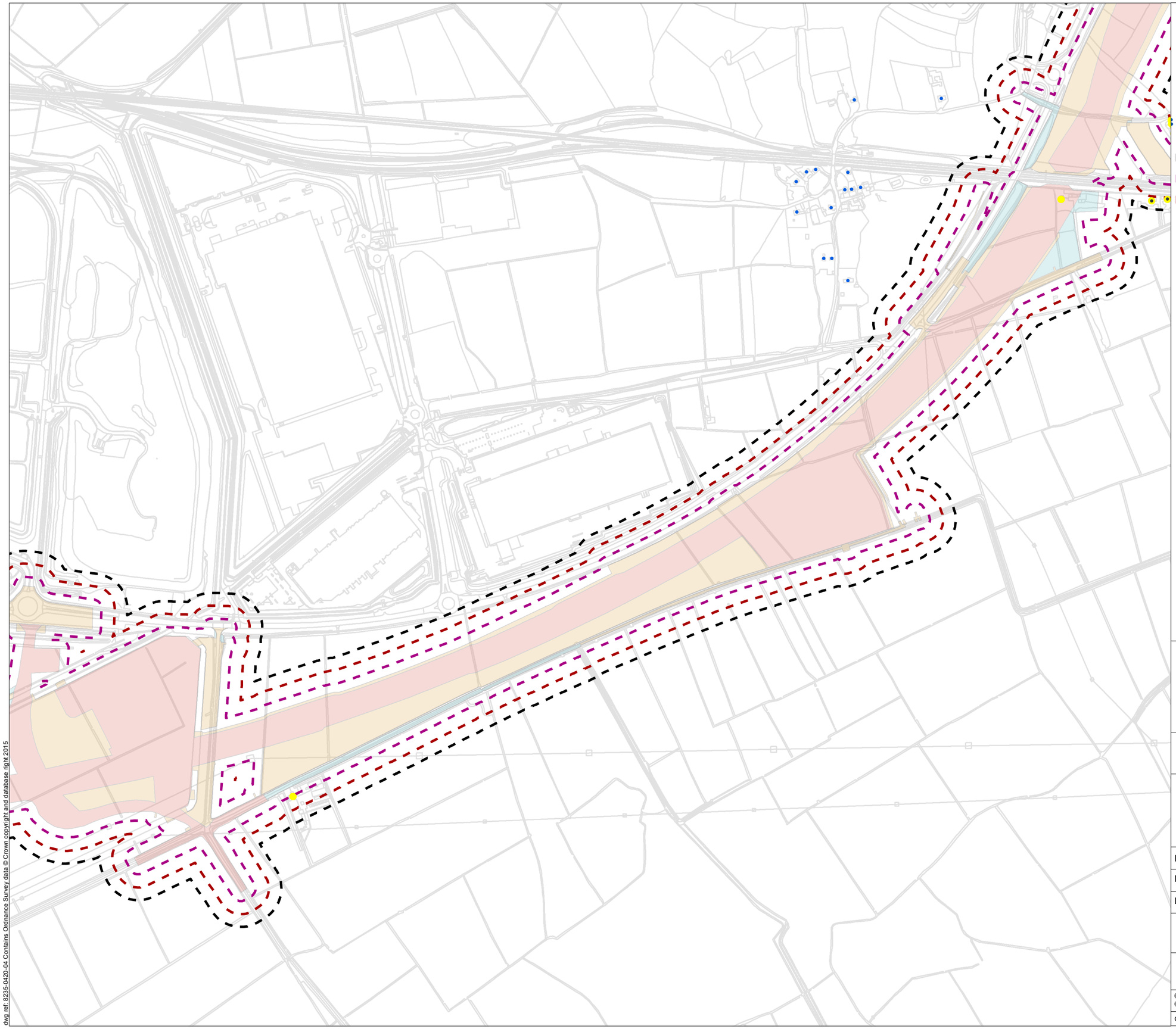
Scale: A3 @ 1:7,500
0 125 250 m

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Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11h	Revision: -
Date: March 2016	Status: AT ISSUE
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Scale: A3 @ 1:7,500
0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11i	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

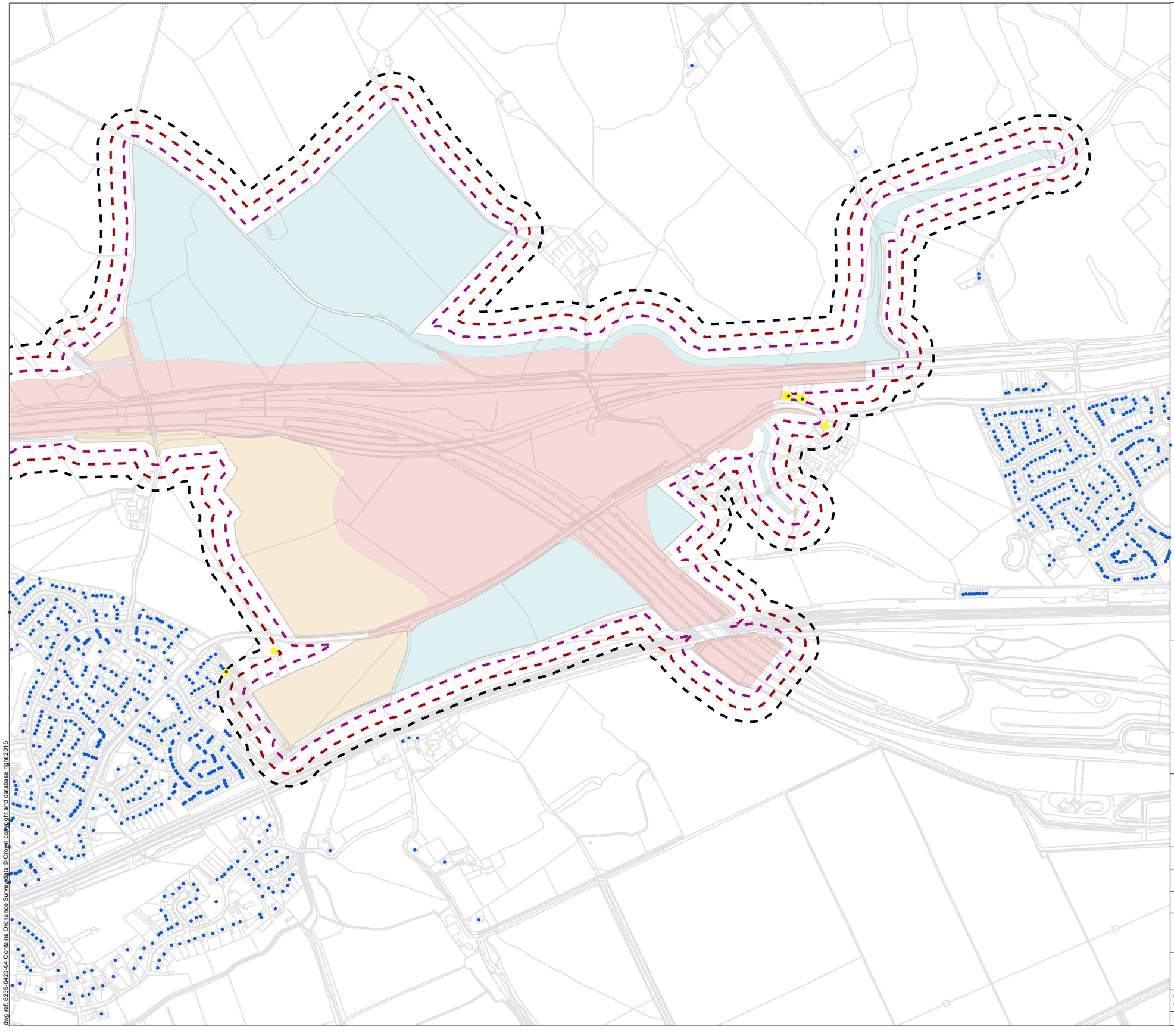
0 125 250 m

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Legend

- Permanent highway land within fenceline, including water treatment areas
- Other permanent land take e.g. mitigation planting.
- Temporary construction land
- Minor Adverse Impact
- Moderate Adverse Impact
- Major Adverse Impact
- Impacted Residential Properties

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Welsh Government

Environmental Statement

Daytime Construction Noise Impact Bands (with Mitigation)

Figure: 13.11j	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

Scale: A3 @ 1:7,500

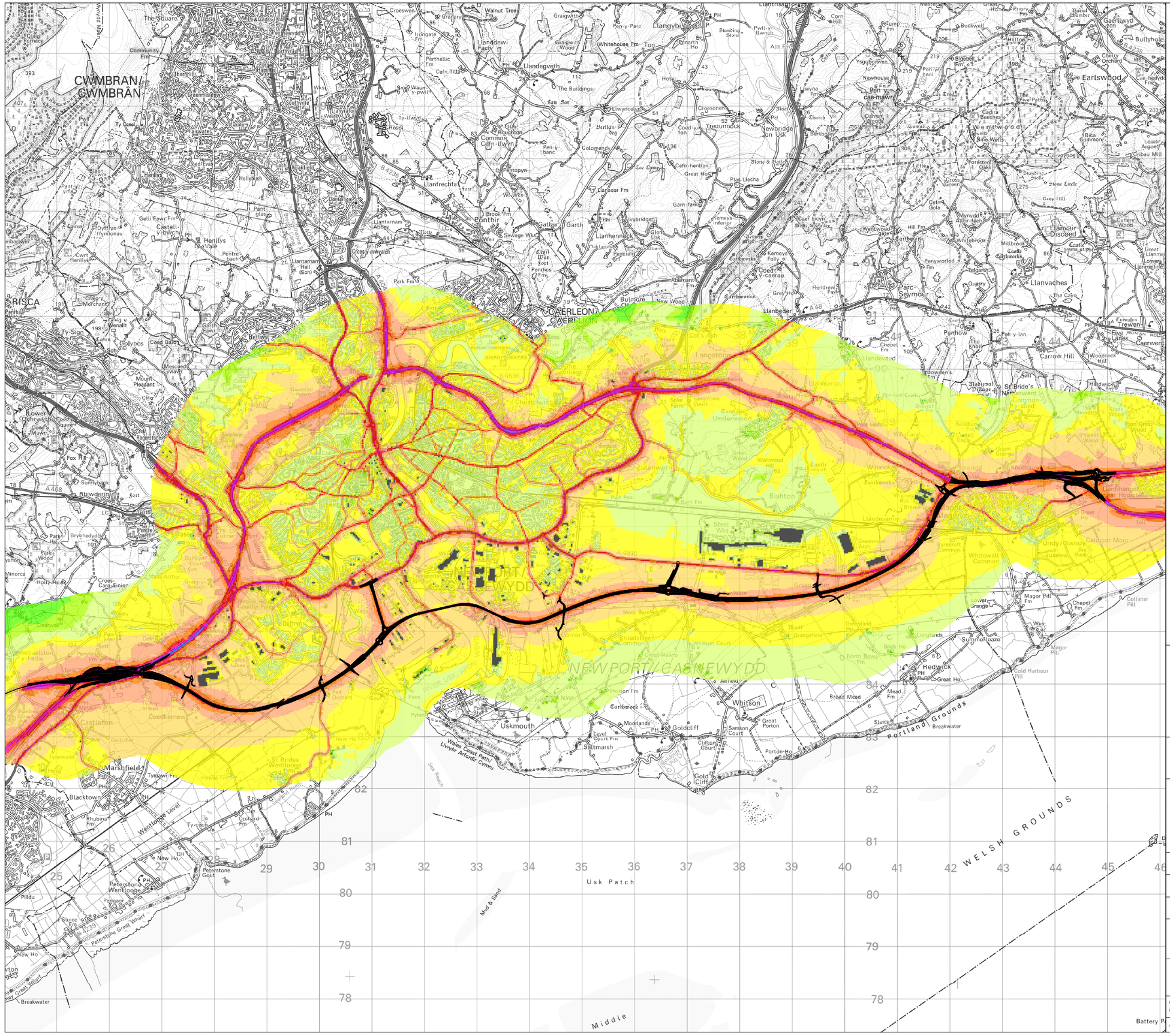
0 125 250 m

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=42
42<	<=45
45<	<=50
50<	<=55
55<	<=60
60<	<=65
65<	<=70
70<	<=75
75<	<=80
80<	<=85
85<	<=90
90<	

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Welsh Government

Environmental Statement

Operational Daytime Noise Levels for Opening Year With Scheme, Committed and Additional Mitigation (2022OYDSCMB2)

Figure: 13.12	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

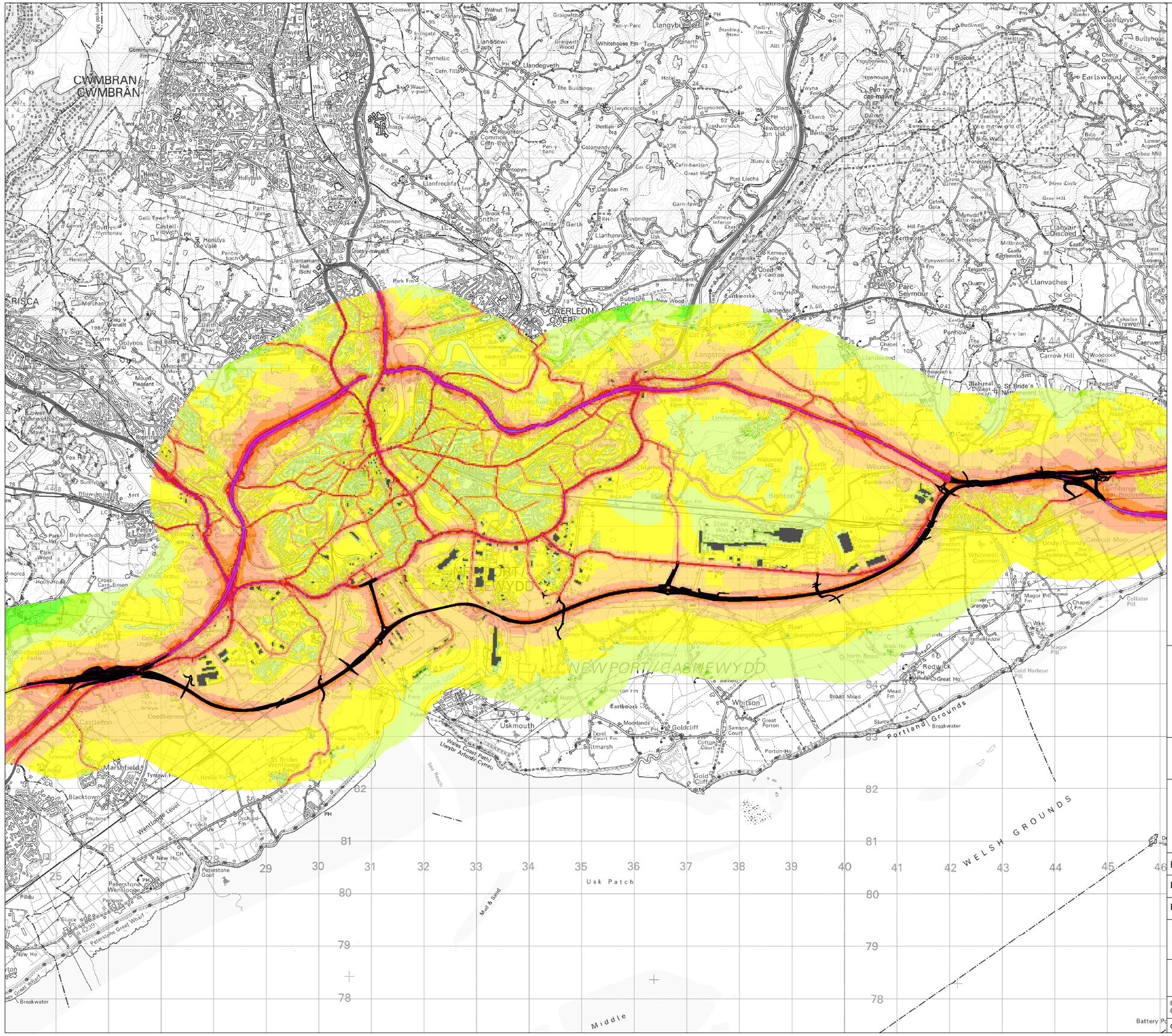
Scale: A3 @ 1:70,000
0 1,000 2,000 m

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=42
42<	<=45
45<	<=50
50<	<=55
55<	<=60
60<	<=65
65<	<=70
70<	<=75
75<	<=80
80<	<=85
85<	<=90
90<	

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Environmental Statement

Operational Daytime Noise Levels for Future Year With Scheme, Committed and Additional Mitigation (2037FYDSCMB2)

Figure: 13.13	Revision:
Date: March 2016	Status: AT ISSUE
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Scale: A3 @ 1:70,000
0 1,000 2,000 m

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dwg ref: 8235-0344-06

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Legend

New Section of Motorway

Building

Noise Level L10(18h) in dB(A)

	<=-6
-6<	<=-3
-3<	<=-0.5
-0.5<	<=0.5
0.5<	<=3
3<	<=6
6<	<=9
9<	<=12
12<	<=15
15<	<=18
18<	

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Environmental Statement

Noise difference contours - Do-Minimum scenario to Do-Something scenario for Opening Year (with Mitigation) (2022OYDM -> 2022OYDSCMB2)

Figure: 13.14	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: SS

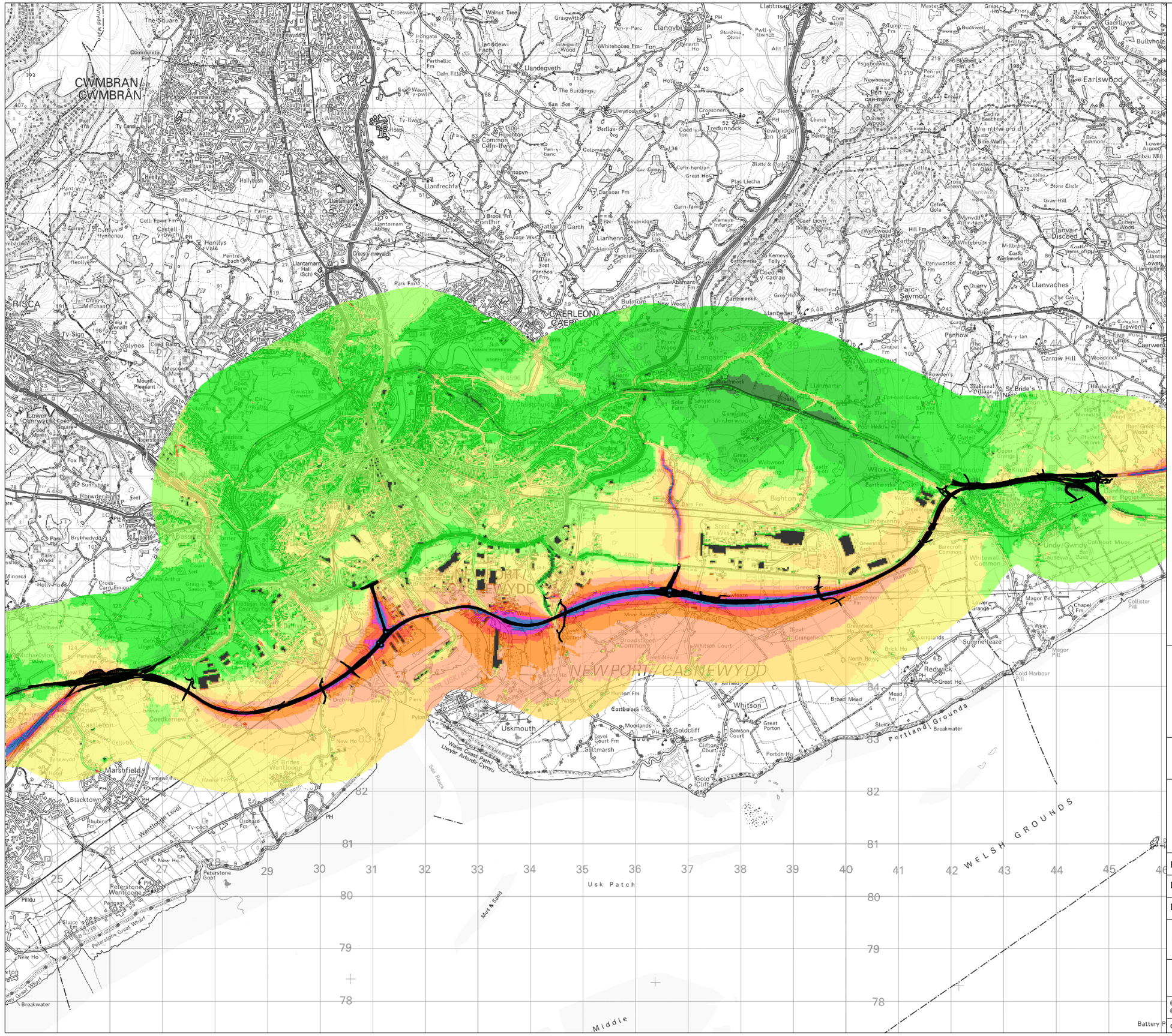
Scale: A3 @ 1:70,000
0 1,000 2,000 m

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Legend

- New Section of Motorway
- Building

Noise Level L10(18h) in dB(A)

	<=-6
-6<	<=-3
-3<	<=-0.5
-0.5<	<=0.5
0.5<	<=3
3<	<=6
6<	<=9
9<	<=12
12<	<=15
15<	<=18
18<	

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Environmental Statement

Noise difference contours - Do-Minimum scenario in the opening year to Do-Something scenario for Future Year (with Mitigation) (2022OYDM -> 2037FYDSCMB2)

Figure: 13.15	Revision:
Date: March 2016	Status: AT ISSUE
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Scale: A3 @ 1:70,000
0 1,000 2,000 m

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