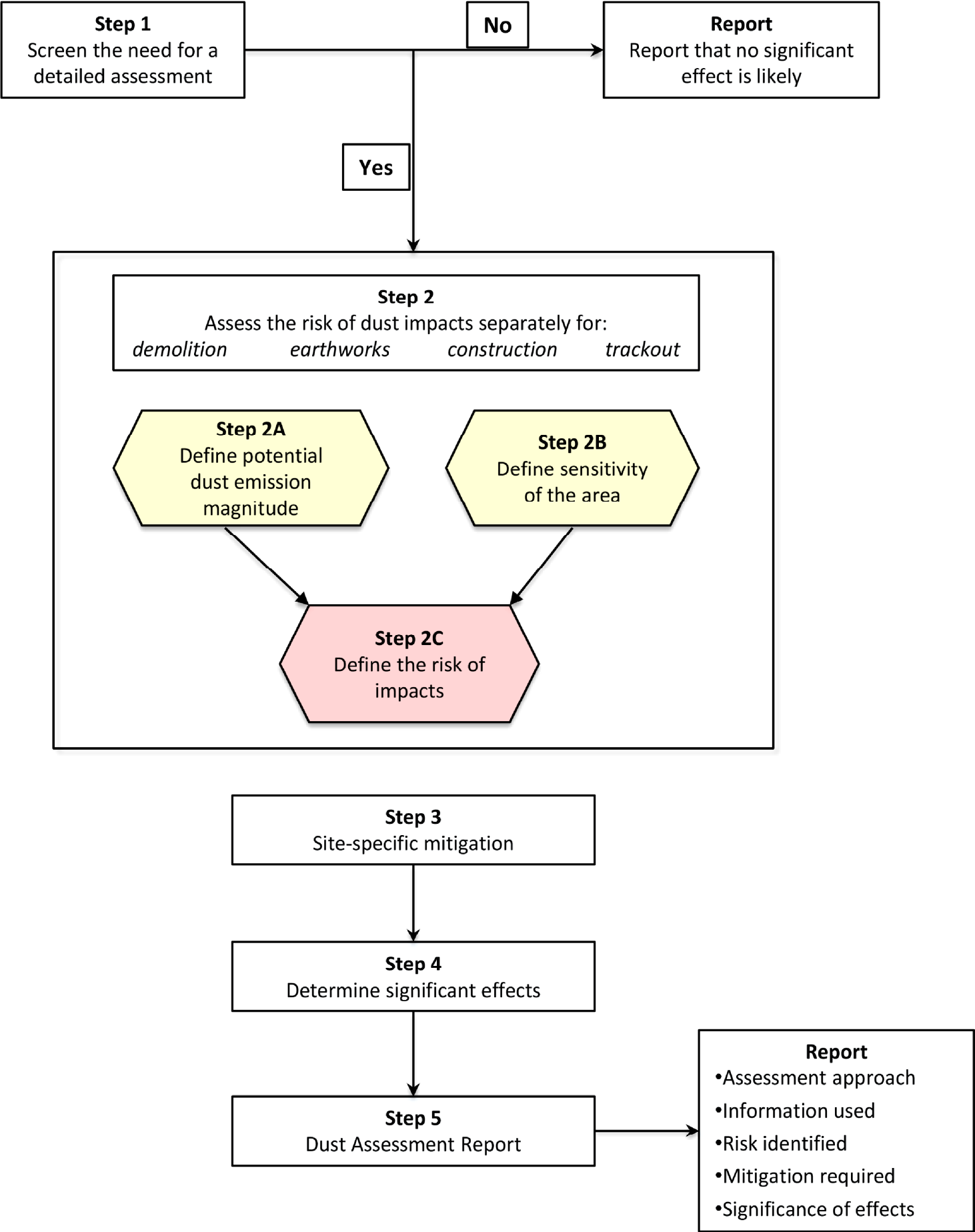


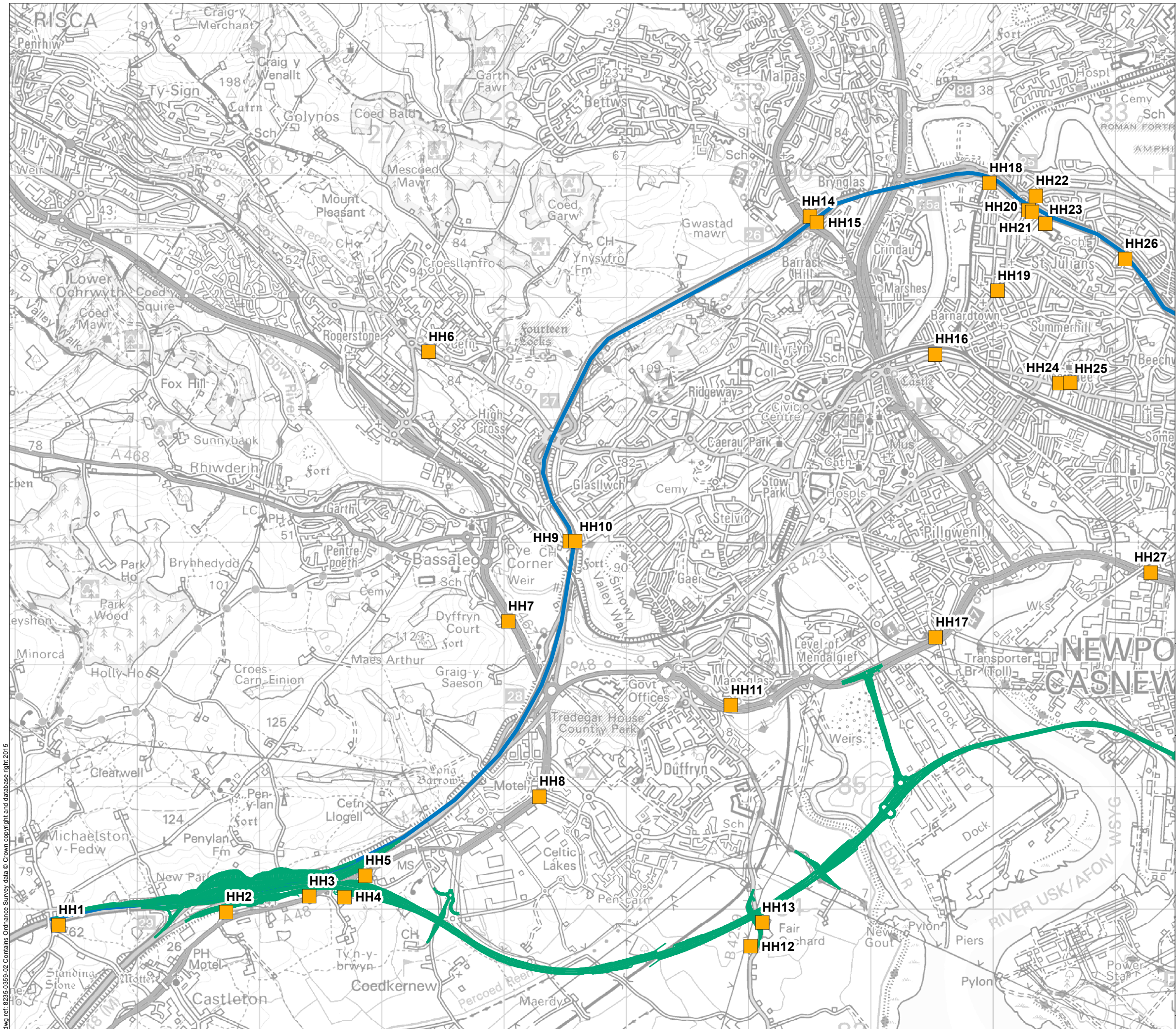
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Legend

|                                                                                                                                                                                         |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <br>Llywodraeth Cymru<br>Welsh Government                                                          |                  |
| Environmental Statement                                                                                                                                                                 |                  |
| Construction Dust Assessment Process                                                                                                                                                    |                  |
| Figure: 7.3                                                                                                                                                                             | Revision: -      |
| Date: March 2016                                                                                                                                                                        | Status: AT ISSUE |
| Drawn: MS/LAS                                                                                                                                                                           | Checked: LM      |
| Scale: A3 @                                                                                                                                                                             |                  |
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| dwg ref: 8235-0368-01                                                                                                                                                                   |                  |





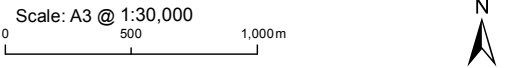
- Legend**
- New Section of Motorway
  - Existing M4 Corridor
  - Human Health Receptors



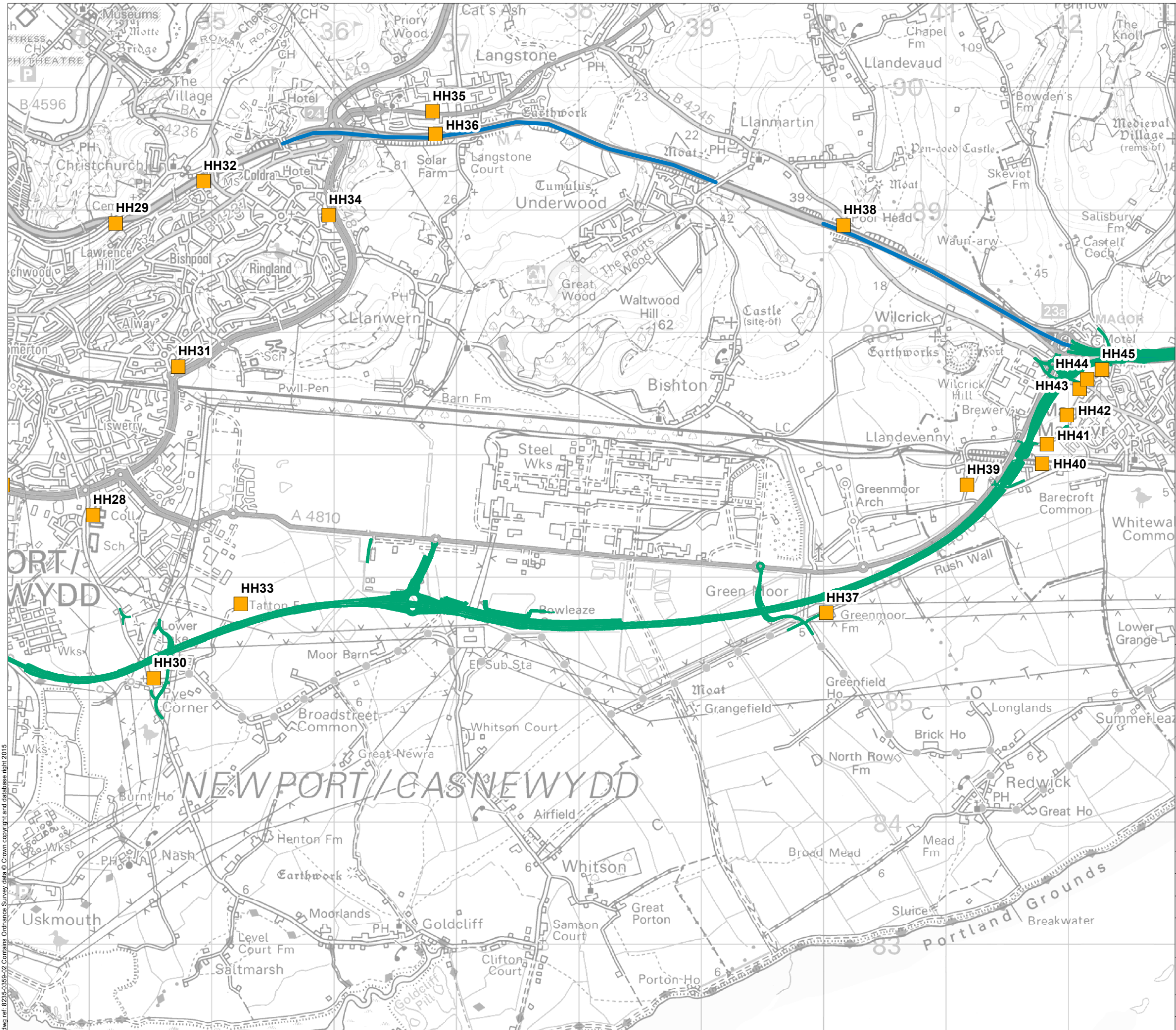
Environmental Statement

Assessed Human Health Receptors:  
Air Quality

|                  |                  |
|------------------|------------------|
| Figure: 7.4a     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |







- Legend**
- New Section of Motorway
  - Existing M4 Corridor
  - Human Health Receptors



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Welsh Government

Environmental Statement

Assessed Human Health Receptors:  
Air Quality

Figure: 7.4b

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/LAS

Checked: LM

Scale: A3 @ 1:30,000  
0 500 1,000m







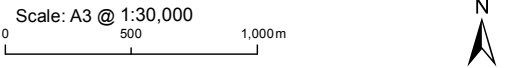
- Legend**
- New Section of Motorway
  - Existing M4 Corridor
  - Human Health Receptors



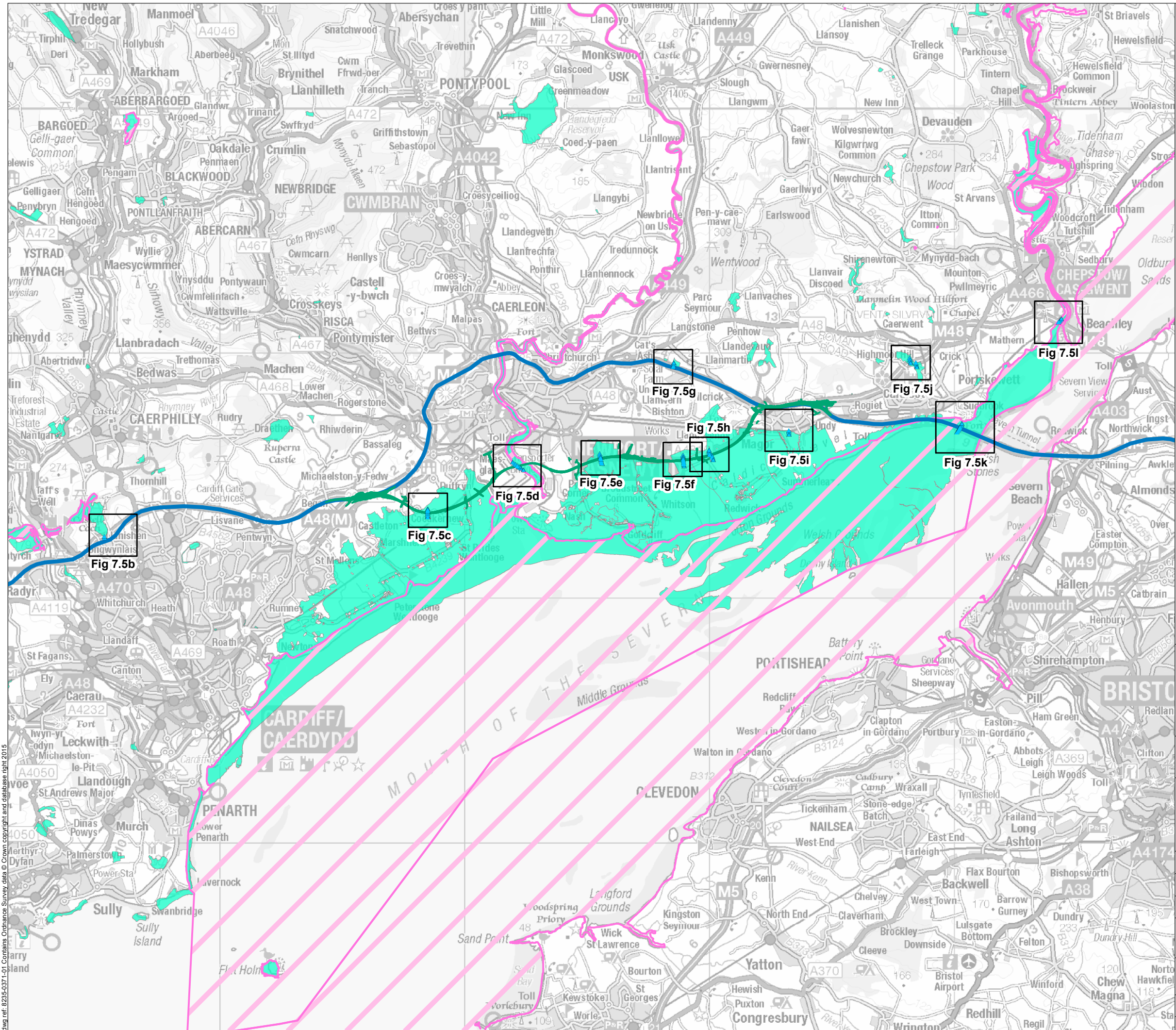
Environmental Statement

Assessed Human Health Receptors:  
Air Quality

|                  |                  |
|------------------|------------------|
| Figure: 7.4c     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |







- Legend**
- New Section of Motorway
  - Existing Route of M4
  - Modelled Ecological Receptors
  - Sites of Special Scientific Interest
  - Special Areas of Conservation

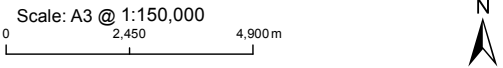


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Environmental Statement

Air Quality Receptor Transects for  
Designated Sites  
Index sheet

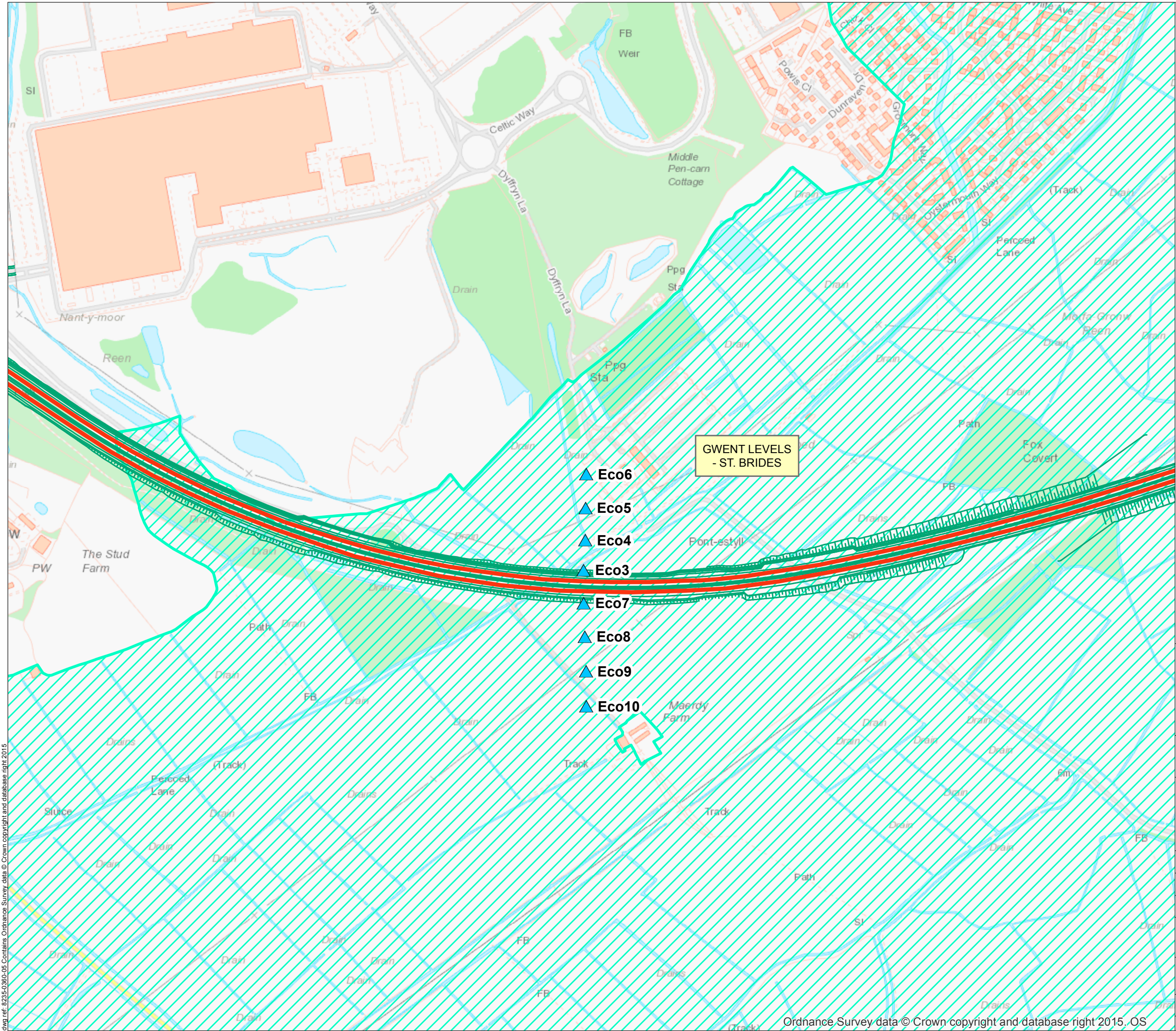
|                  |                  |
|------------------|------------------|
| Figure: 7.5a     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |











- Legend**
- New Section of Motorway
  - ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▭ Special Areas of Conservation



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Welsh Government

Environmental Statement

Air Quality Receptor Transects for  
Designated Sites

Figure: 7.5c

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/LAS

Checked: LM

Scale: A3 @ 1:5,500

0 90 180m



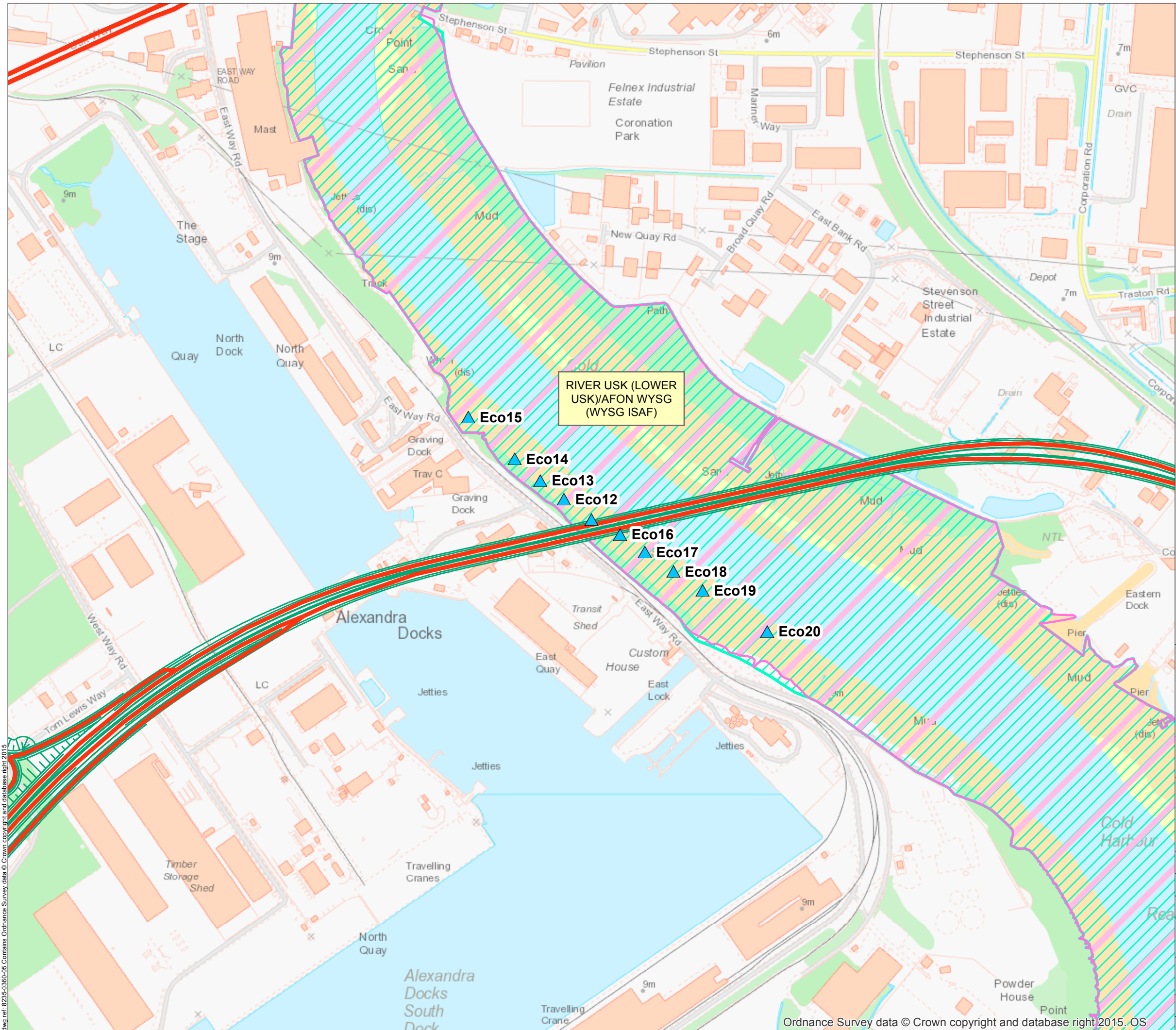
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- Legend**
- New Section of Motorway
  - ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▭ Special Areas of Conservation



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Welsh Government

Environmental Statement

Air Quality Receptor Transects for Designated Sites

|                  |                  |
|------------------|------------------|
| Figure: 7.5d     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |

Scale: A3 @ 1:5,500

0 90 180m



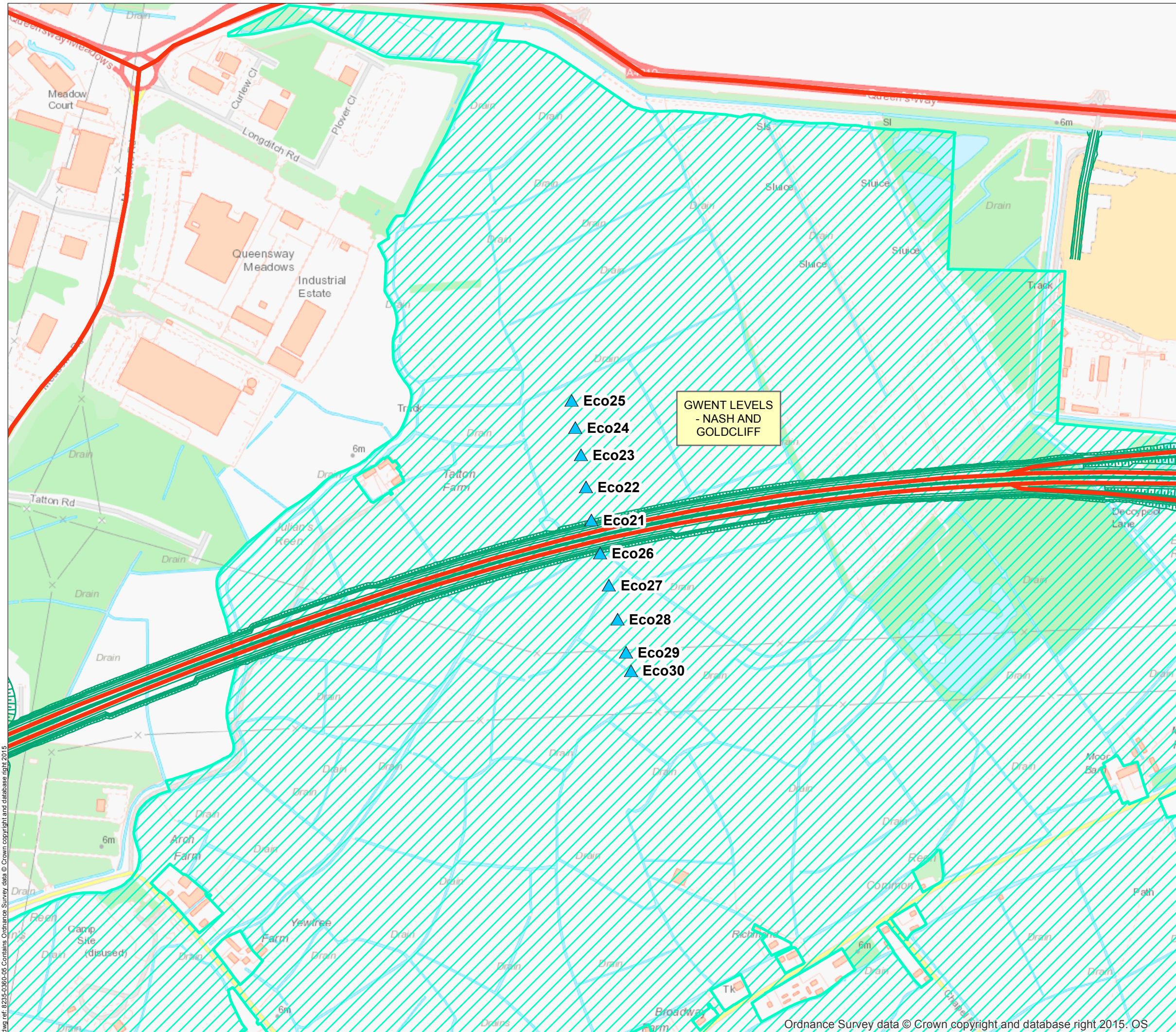
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- Legend**
- New Section of Motorway
  - ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - Special Areas of Conservation

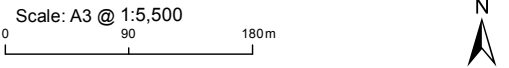


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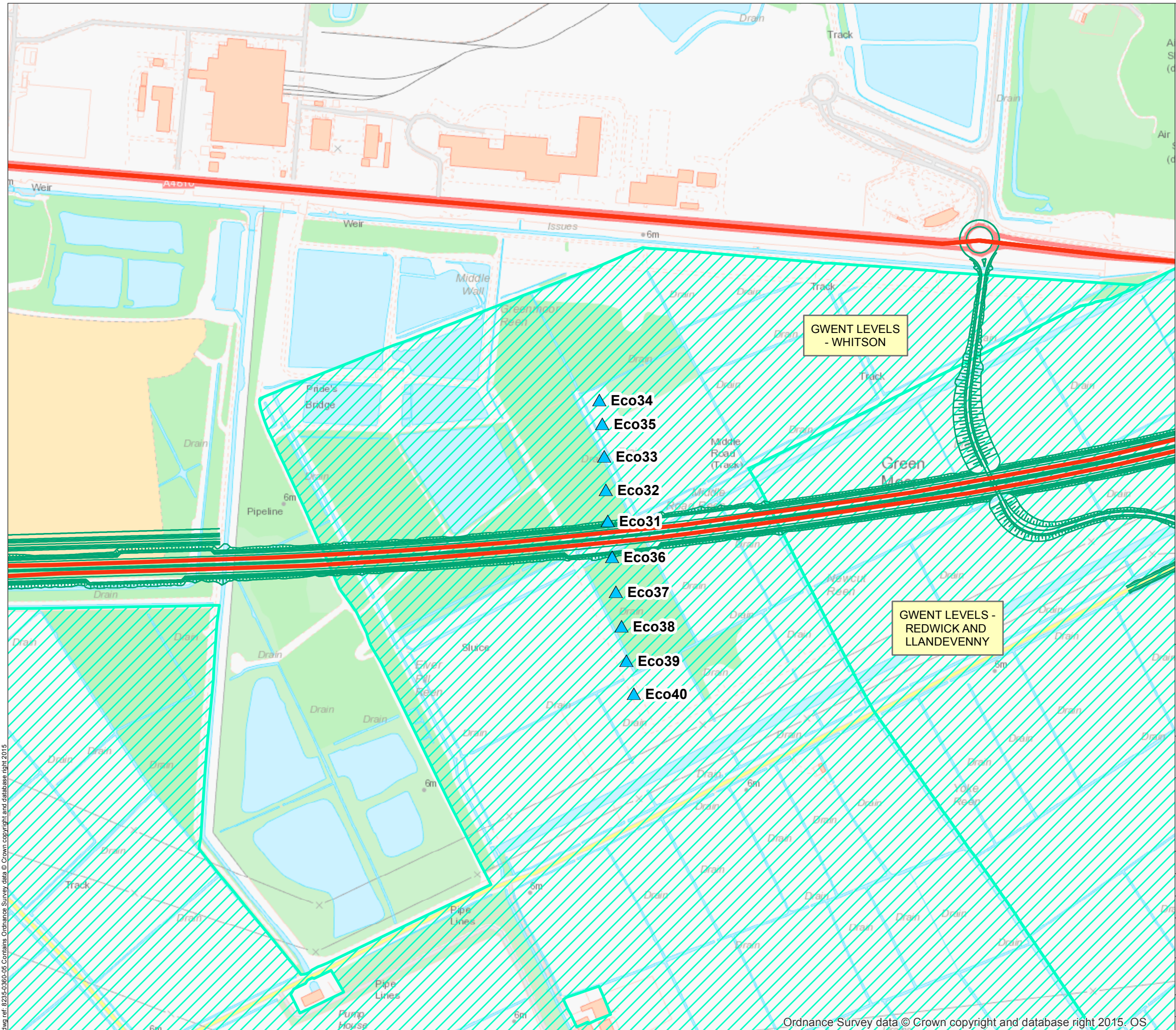
Environmental Statement

Air Quality Receptor Transects for  
Designated Sites

|                  |                  |
|------------------|------------------|
| Figure: 7.5e     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |







- Legend**
- New Section of Motorway
  - ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▨ Special Areas of Conservation

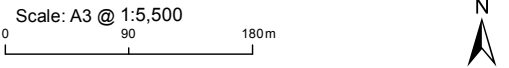


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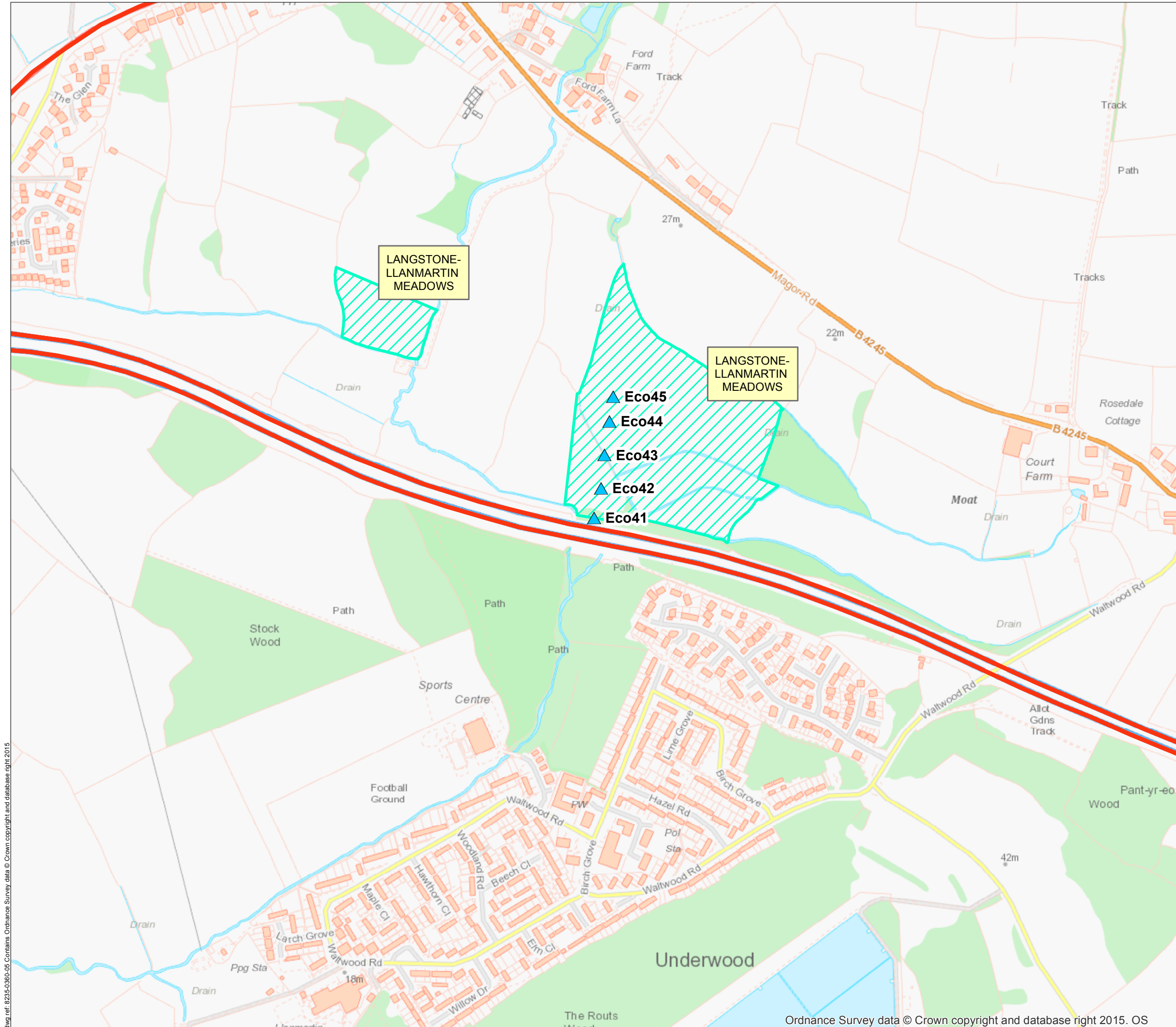
Environmental Statement

Air Quality Receptor Transects for  
Designated Sites

|                  |                  |
|------------------|------------------|
| Figure: 7.5f     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |







- Legend**
- ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▭ Special Areas of Conservation



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Environmental Statement

Air Quality Receptor Transects for  
Designated Sites

|                  |                  |
|------------------|------------------|
| Figure: 7.5g     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |

Scale: A3 @ 1:5,500  
0 90 180m



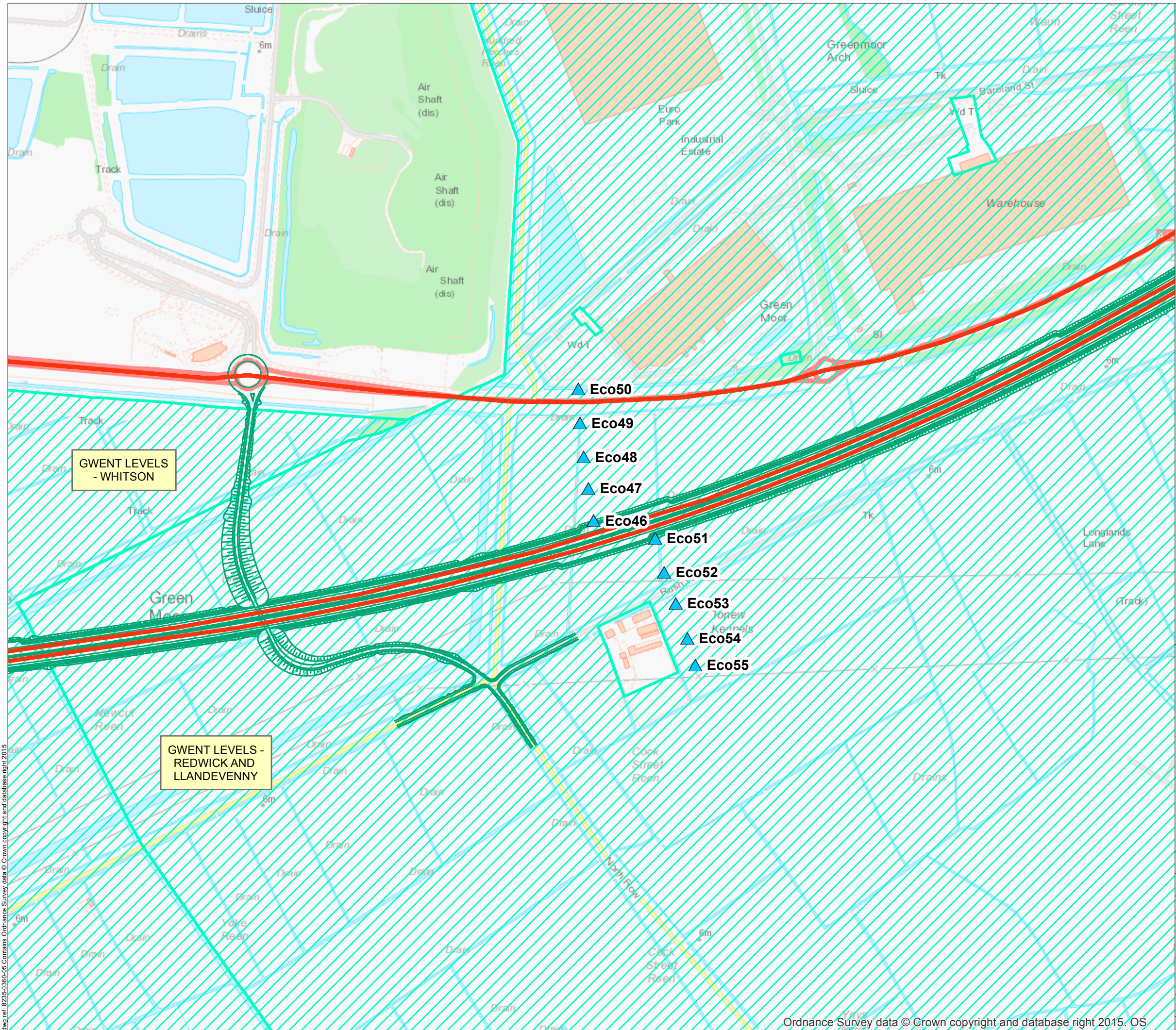
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- Legend**
- New Section of Motorway
  - ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▨ Special Areas of Conservation

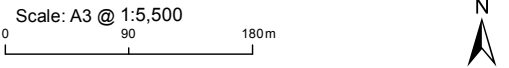


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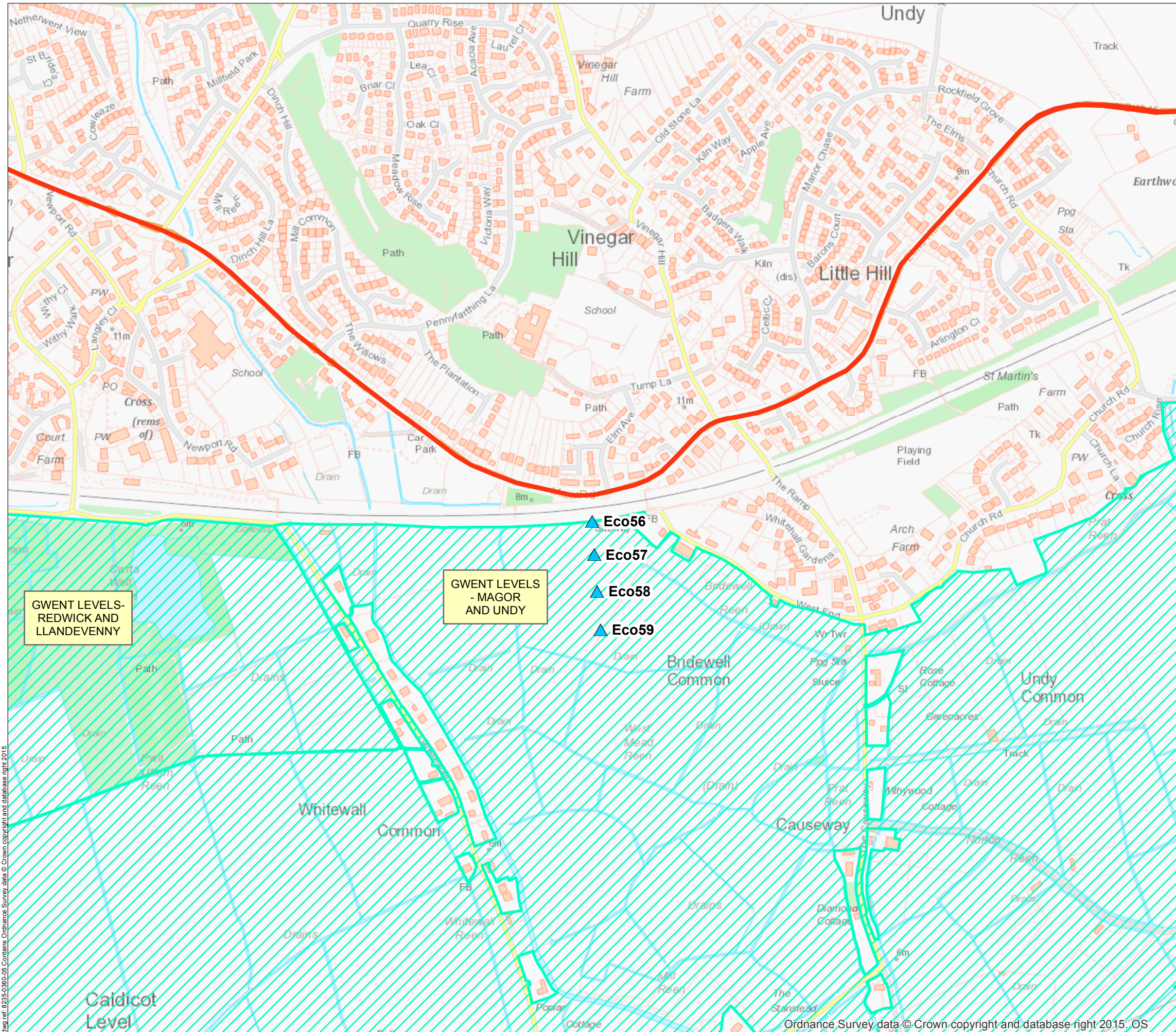
Environmental Statement

Air Quality Receptor Transects for  
Designated Sites

|                  |                  |
|------------------|------------------|
| Figure: 7.5h     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
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- Legend**
- ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▭ Special Areas of Conservation



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Environmental Statement

Air Quality Receptor Transects for  
Designated Sites

Figure: 7.5i

Revision: -

Date: March 2016

Status: AT ISSUE

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Checked: LM

Scale: A3 @ 1:5,500

0 90 180m



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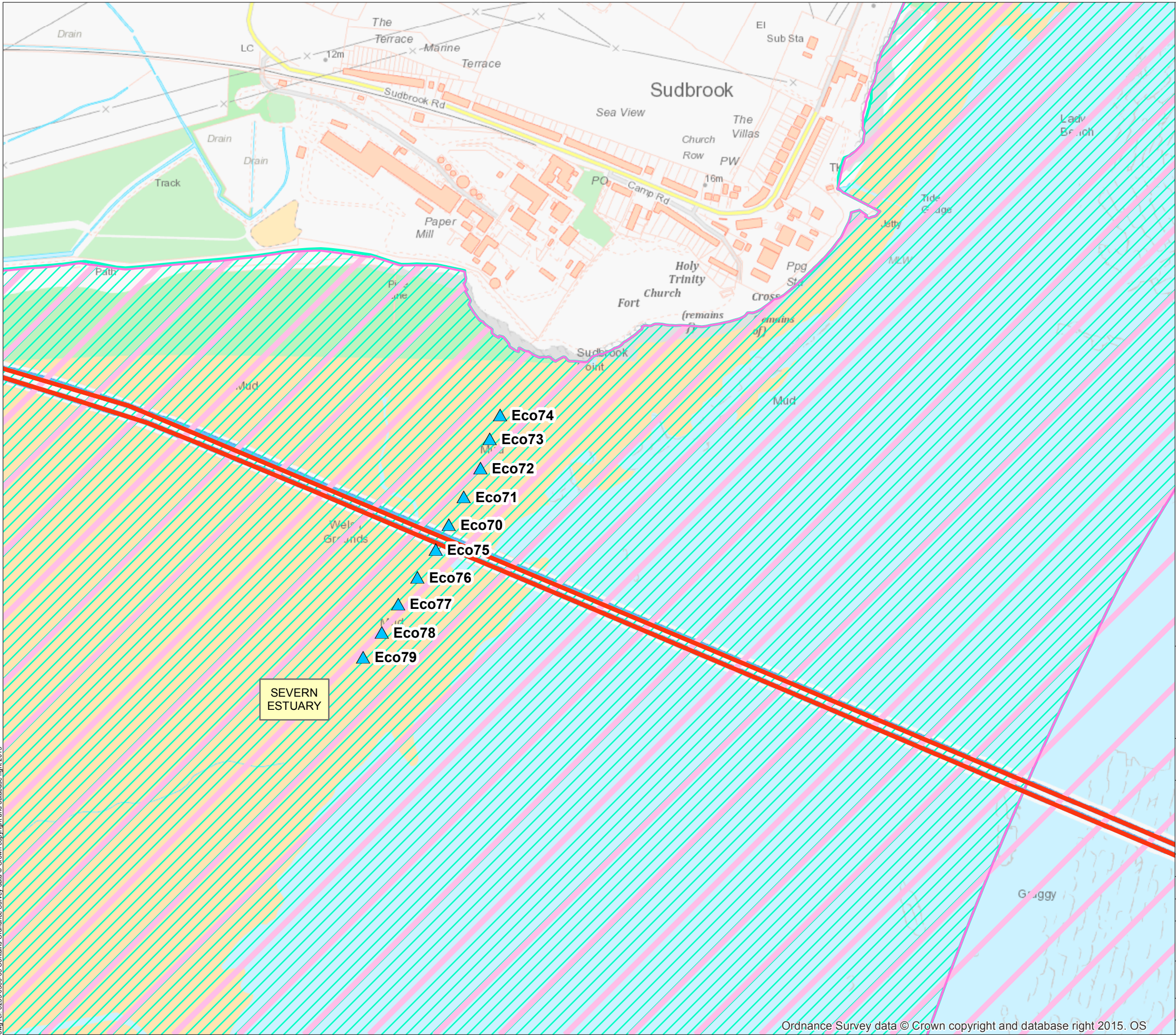
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- Legend**
- ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▨ Special Areas of Conservation

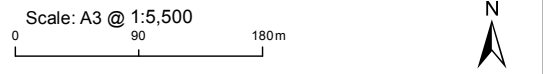


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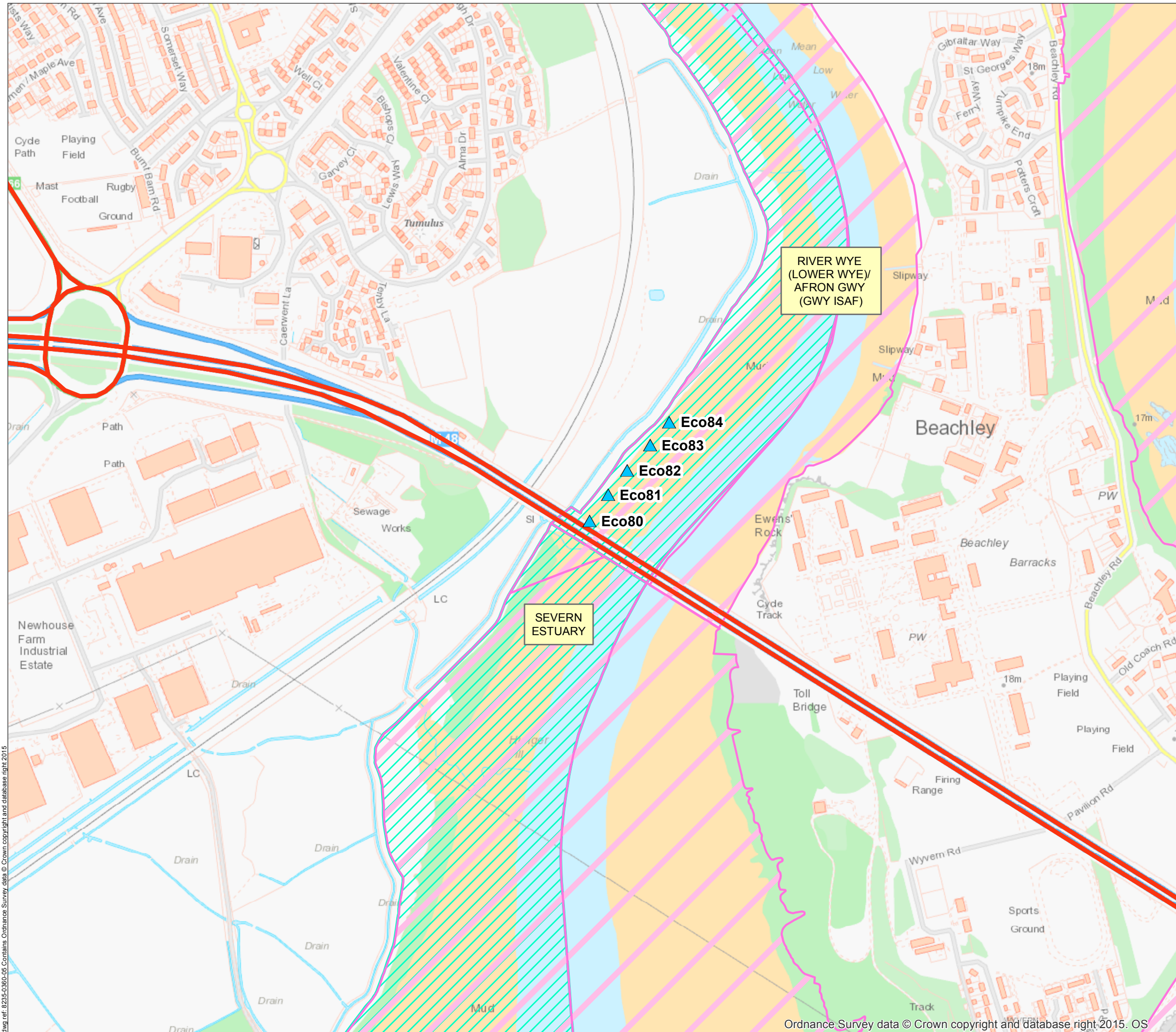
Environmental Statement

Air Quality Receptor Transects for  
Designated Sites

|                  |                  |
|------------------|------------------|
| Figure: 7.5k     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: MS/LAS    | Checked: LM      |







- Legend**
- ▲ Modelled Ecological Receptors
  - Modelled Roads
  - ▨ Sites of Special Scientific Interest
  - ▭ Special Areas of Conservation



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Environmental Statement

Air Quality Receptor Transects for Designated Sites

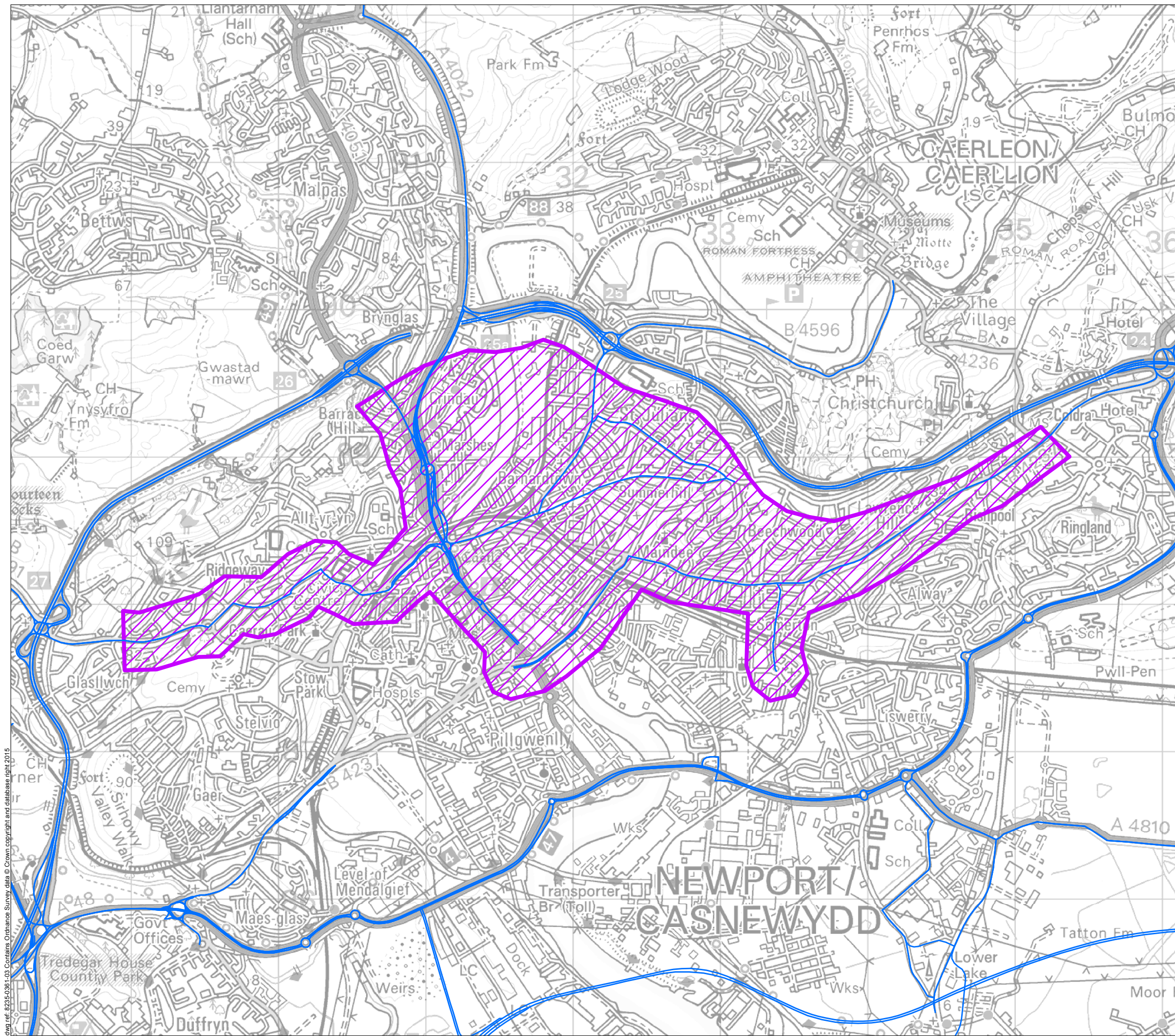
|                  |                  |
|------------------|------------------|
| Figure: 7.51     | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
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Scale: A3 @ 1:5,500  
0 90 180m

N

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**Legend**

- Affected Road Network
- Newport City Centre Verification Area

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Environmental Statement

Newport City Centre Verification  
Factor

|                  |                  |
|------------------|------------------|
| Figure: 7.6      | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: LAS       | Checked: LM      |

Scale: A3 @ 1:25,000

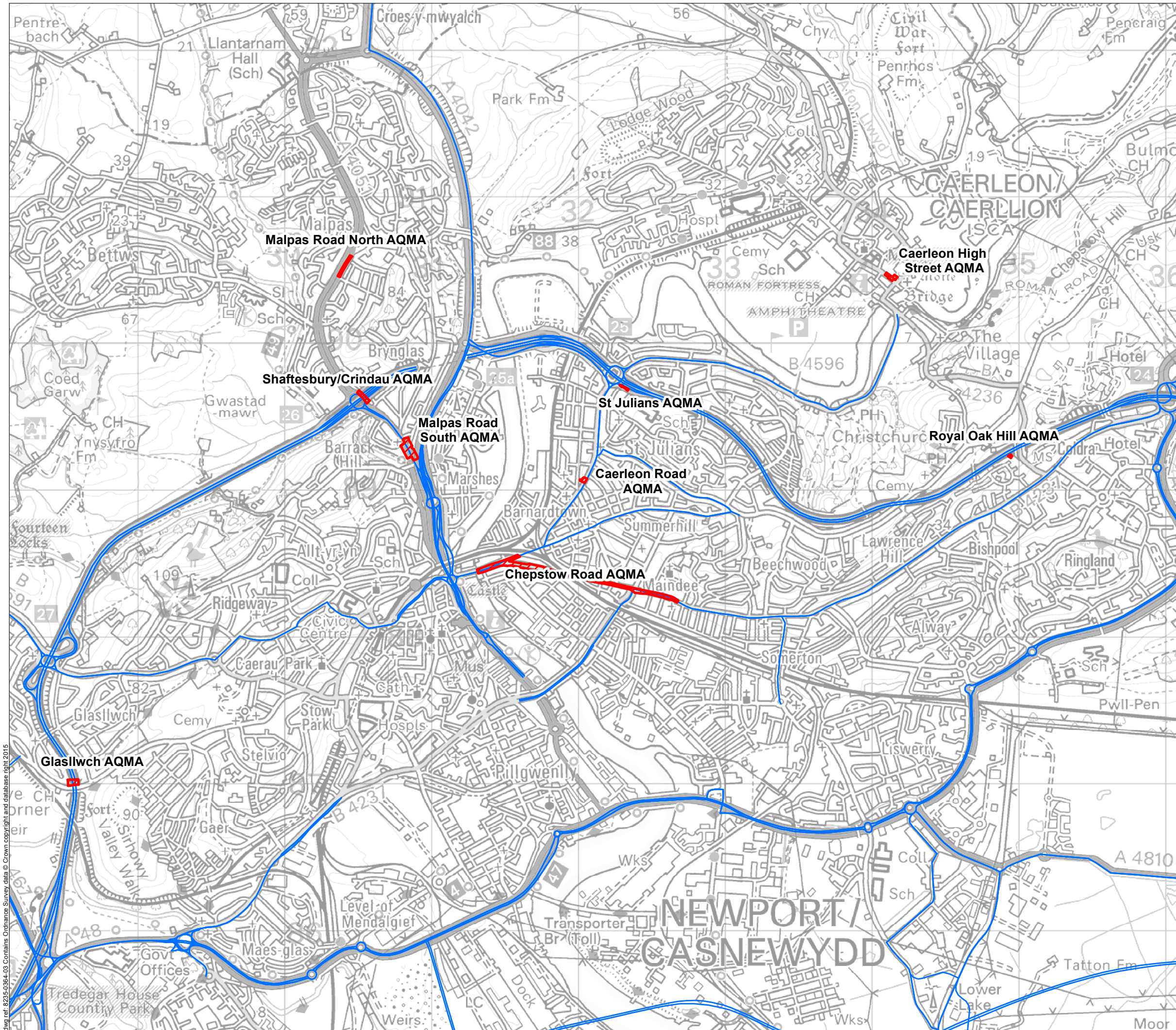
0 415 830m

N

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- Legend**
- Affected Road Network
  - ▢ Air Quality Management

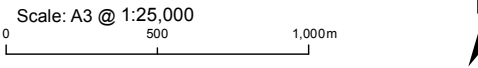


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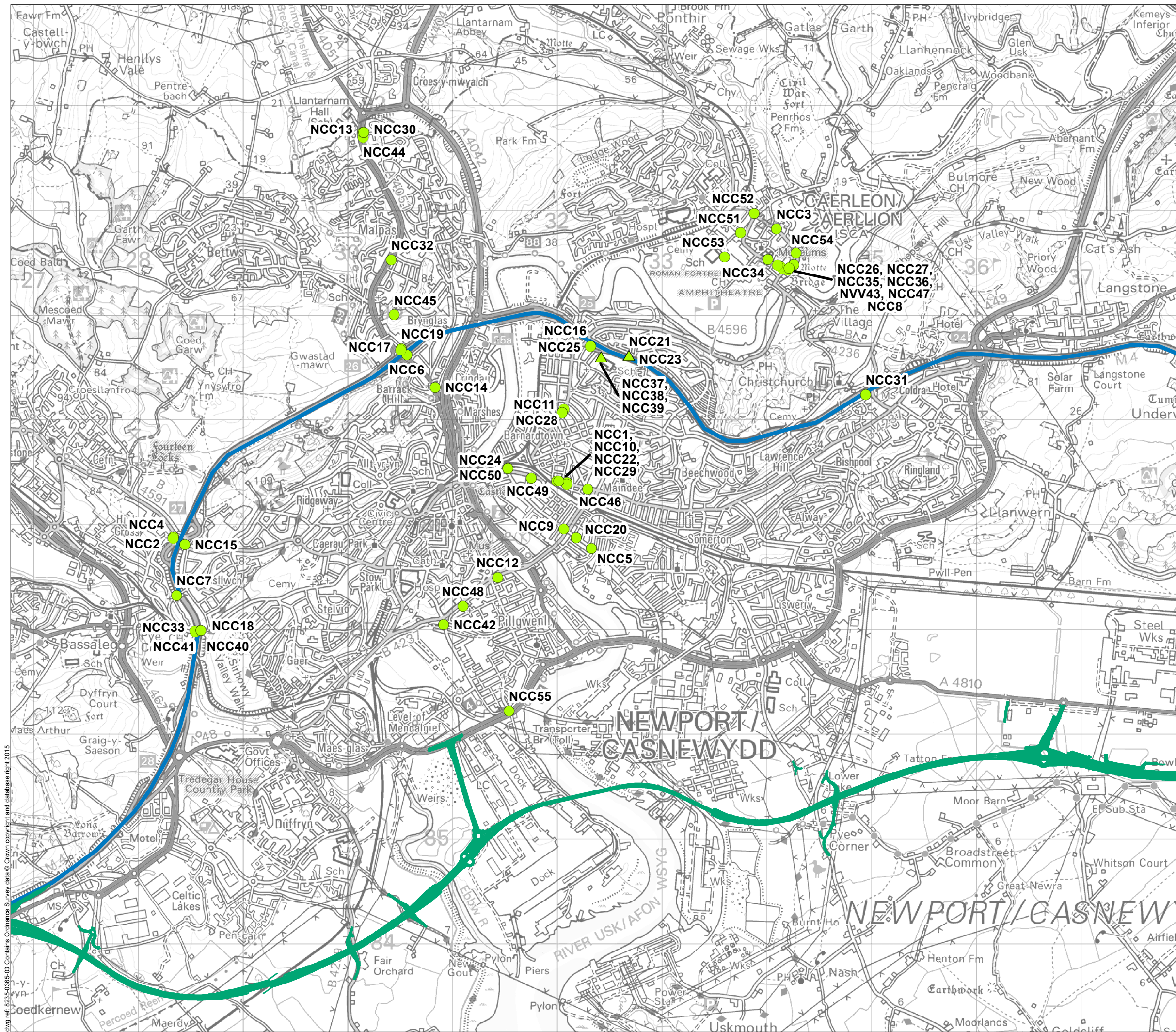
Environmental Statement

Air Quality Management Areas

|                  |                  |
|------------------|------------------|
| Figure: 7.7      | Revision: -      |
| Date: March 2016 | Status: AT ISSUE |
| Drawn: LAS       | Checked: LM      |







- Legend**
- New Section of Motorway
  - Existing Route of M4
  - ▲ Continuous Monitoring Location
  - Diffusion Tubes



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Welsh Government

Environmental Statement

## Newport City Council Air Quality Monitoring

Figure: 7.8

Revision: -

Date: March 2016

Status: AT ISSUE

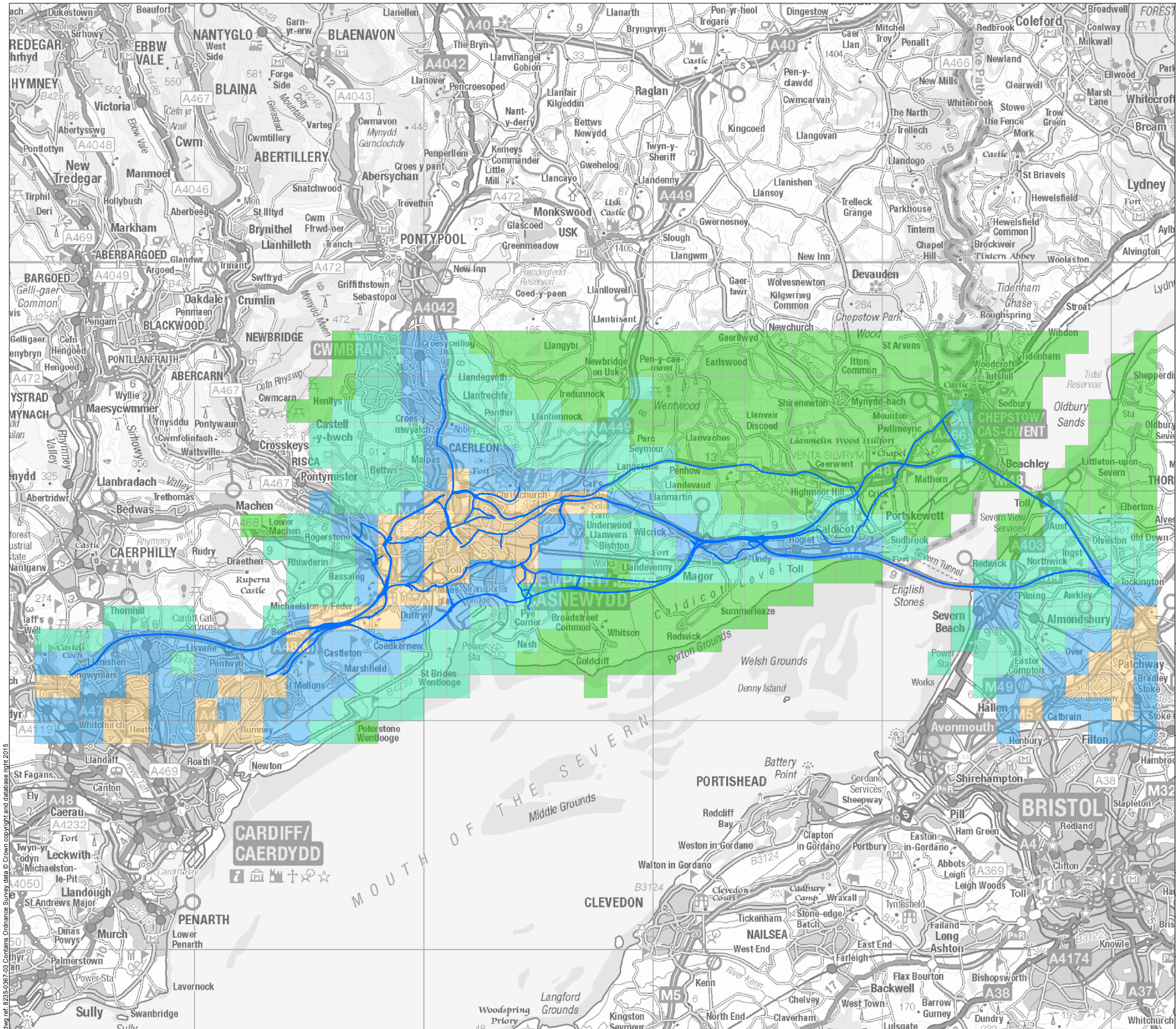
Drawn: LAS

Checked: LM

Scale: A3 @ 1:35,000  
0 550 1,100m







**Legend**

- Affected Road Network

**2014 Annual Mean NO<sub>2</sub>**

- 0.0 - 11.9
- 12.0 - 16.0
- 16.1 - 21.1
- 21.2 - 32.0



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Environmental Statement

Background Annual Mean NO<sub>2</sub>  
Concentrations (µg/m<sup>3</sup>)

Figure: 7.9a

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/LAS

Checked: LM

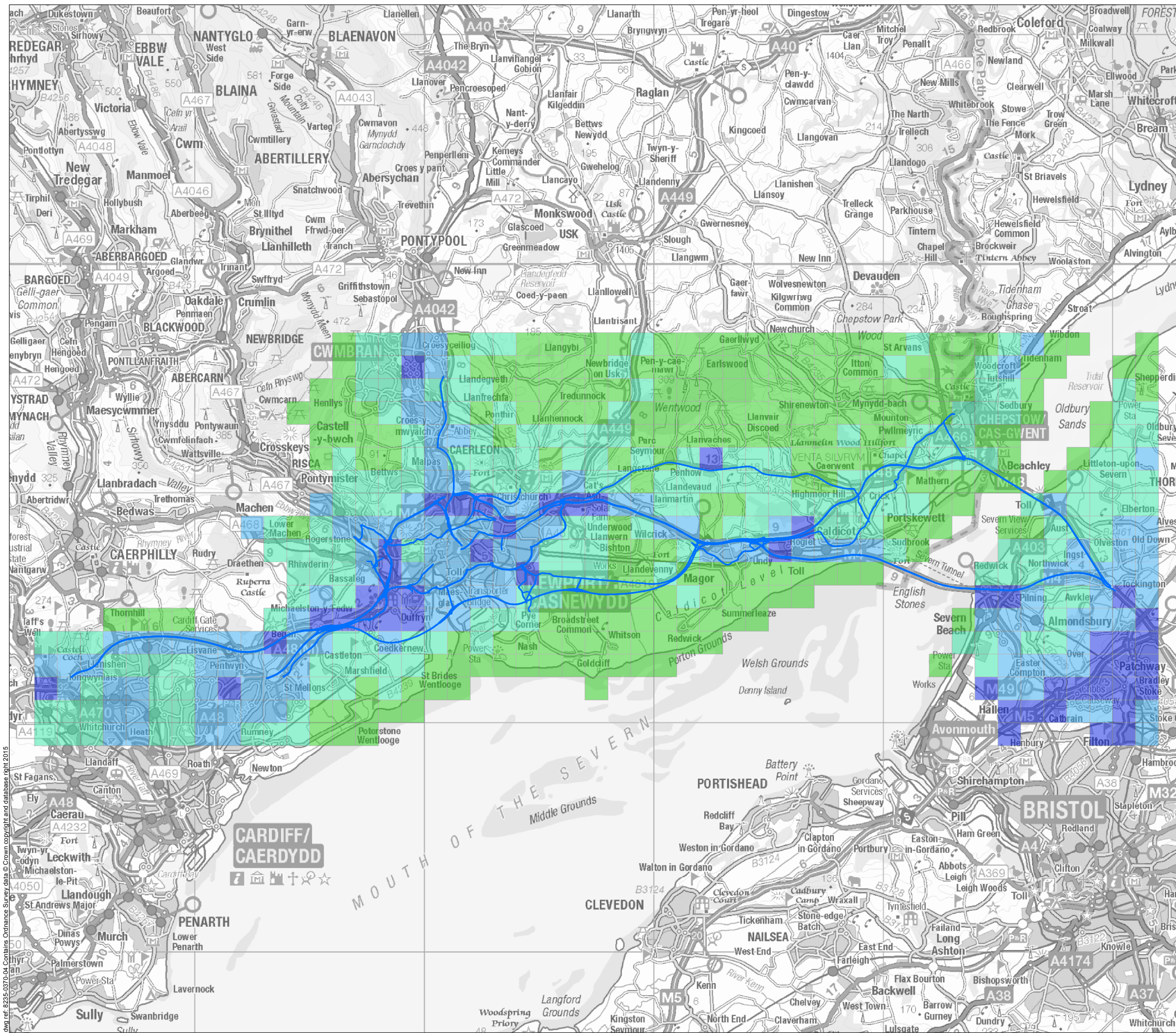
Scale: A3 @ 1:160,000

0 2,600 5,200m

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dwg ref: 8235-0367-03





**Legend**

— Affected Road Network

2014 Annual Mean PM<sub>10</sub>

- 12.3 - 14.0
- 14.1 - 15.3
- 15.4 - 17.1
- 17.2 - 23.4



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Welsh Government

Environmental Statement

Background Annual Mean PM<sub>10</sub>  
Concentrations (µg/m<sup>3</sup>)

Figure: 7.9b

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/LAS

Checked: LM

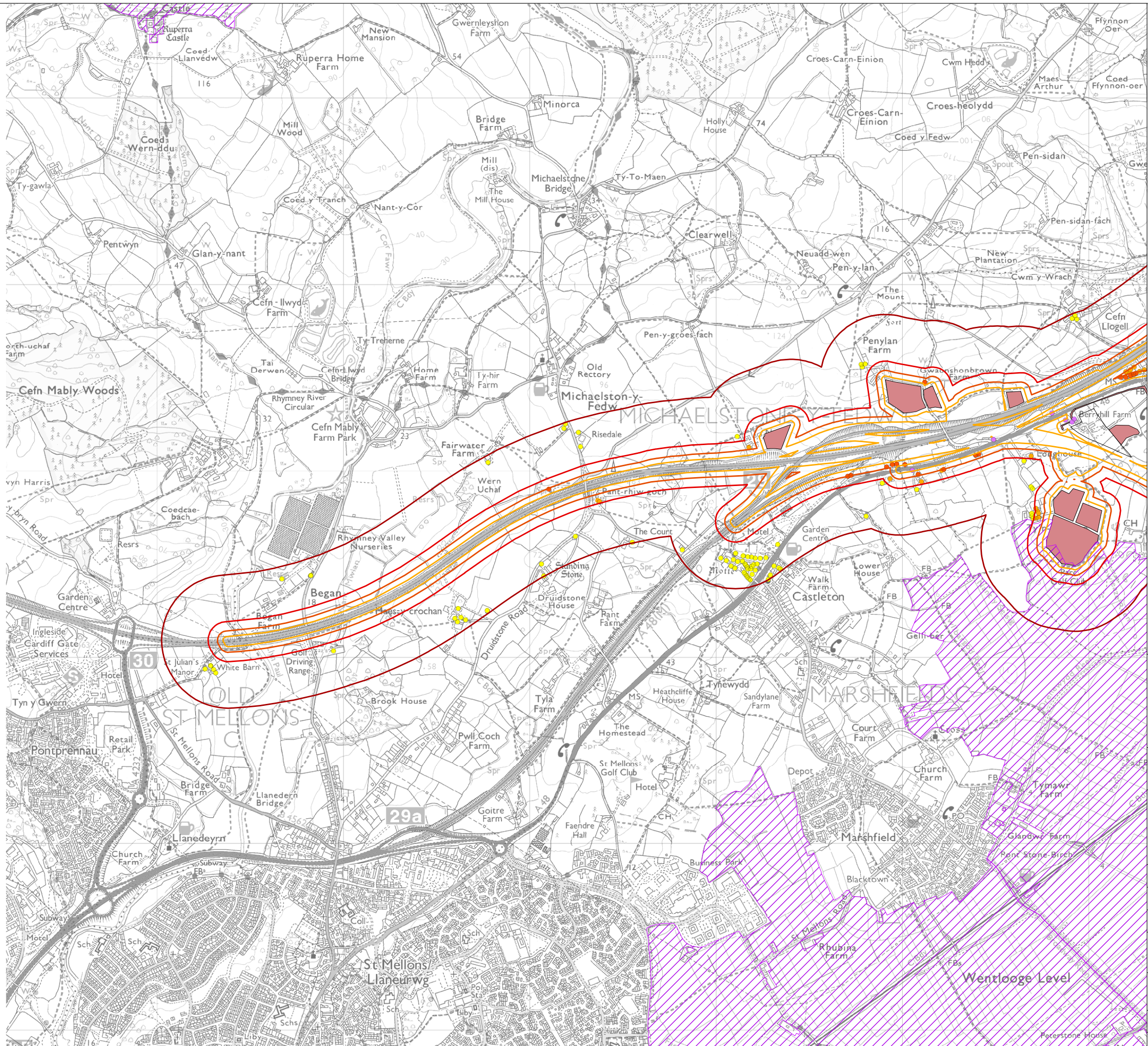
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**Legend**

- Buffer 20m
- Buffer 50m
- Buffer 100m
- Buffer 350m
- Receptors 20m
- Receptors 50m
- Receptors 100m
- Receptors 350m
- SSSI
- SAC
- Borow Pit Areas
- Stockpiles



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Welsh Government

Environmental Statement

Construction Dust Receptors

Figure: 7.10a

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/EM

Checked: LM

Scale: A3 @ 1:20,000

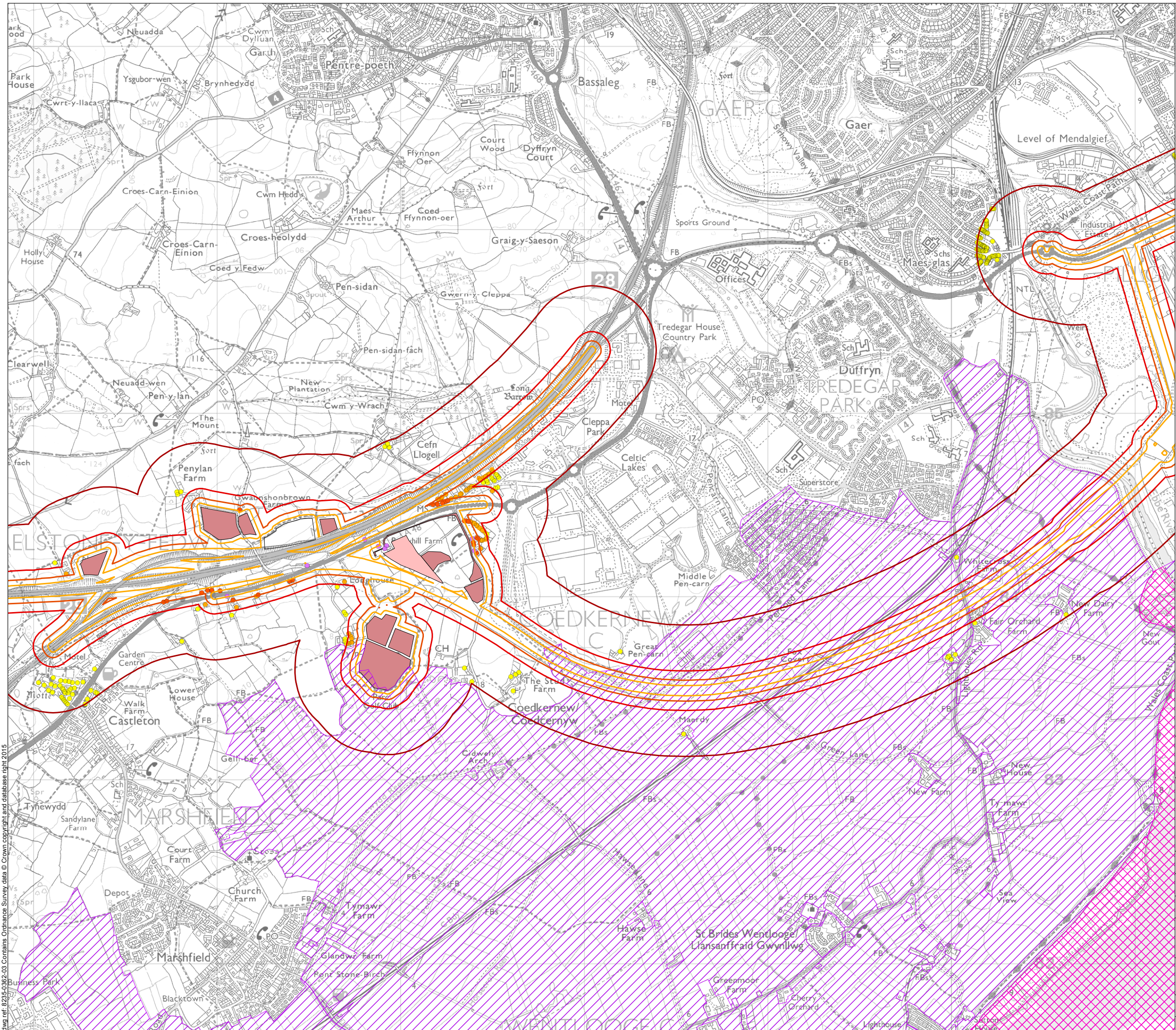
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**Legend**

- Buffer 20m
- Buffer 50m
- Buffer 100m
- Buffer 350m
- Receptors 20m
- Receptors 50m
- Receptors 100m
- Receptors 350m
- SSSI
- SAC
- Borow Pit Areas
- Stockpiles



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Environmental Statement

Construction Dust Receptors

Figure: 7.10b

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/EM

Checked: LM

Scale: A3 @ 1:20,000

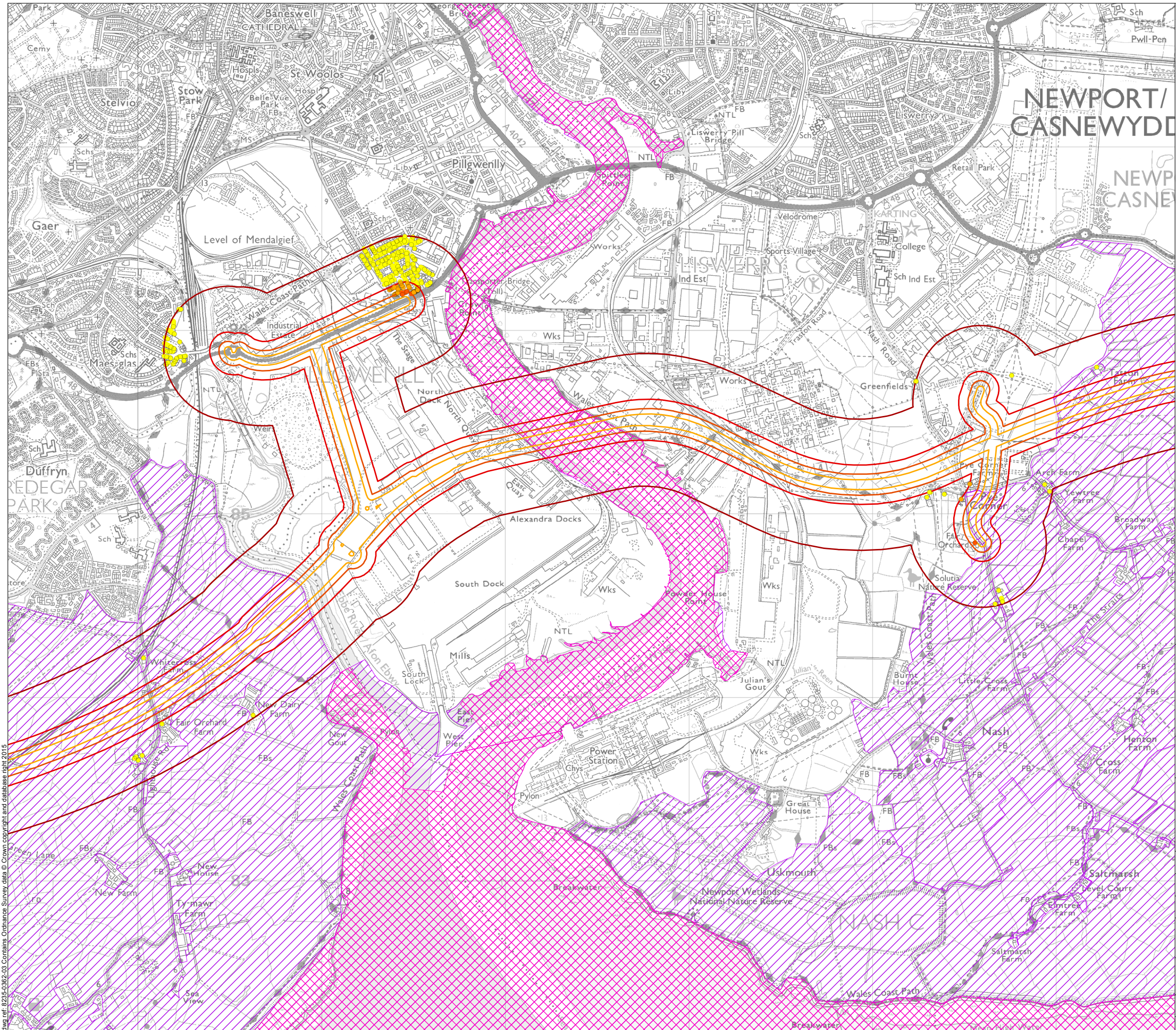
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**Legend**

- Buffer 20m
- Buffer 50m
- Buffer 100m
- Buffer 350m
- Receptors 20m
- Receptors 50m
- Receptors 100m
- Receptors 350m
- SSSI
- SAC
- Borow Pit Areas
- Stockpiles



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Environmental Statement

Construction Dust Receptors

Figure: 7.10c

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/EM

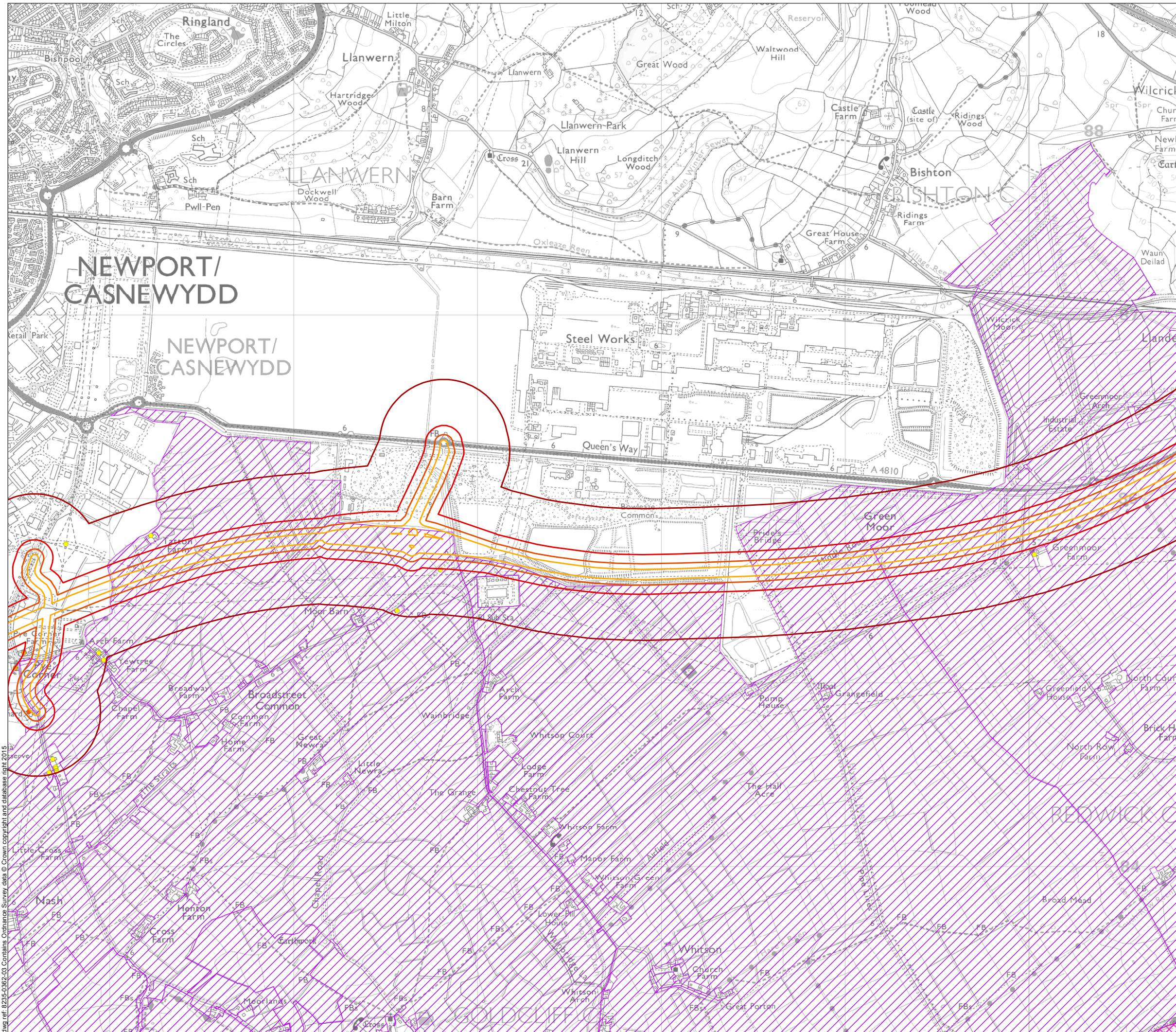
Checked: LM

Scale: A3 @ 1:20,000

0 500 1,000m







**Legend**

- Buffer 20m
- Buffer 50m
- Buffer 100m
- Buffer 350m
- Receptors 20m
- Receptors 50m
- Receptors 100m
- Receptors 350m
- SSSI
- SAC
- Borow Pit Areas
- Stockpiles



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Welsh Government

**Environmental Statement**

**Construction Dust Receptors**

Figure: 7.10d

Revision: -

Date: March 2016

Status: AT ISSUE

Drawn: MS/EM

Checked: LM

Scale: A3 @ 1:20,000

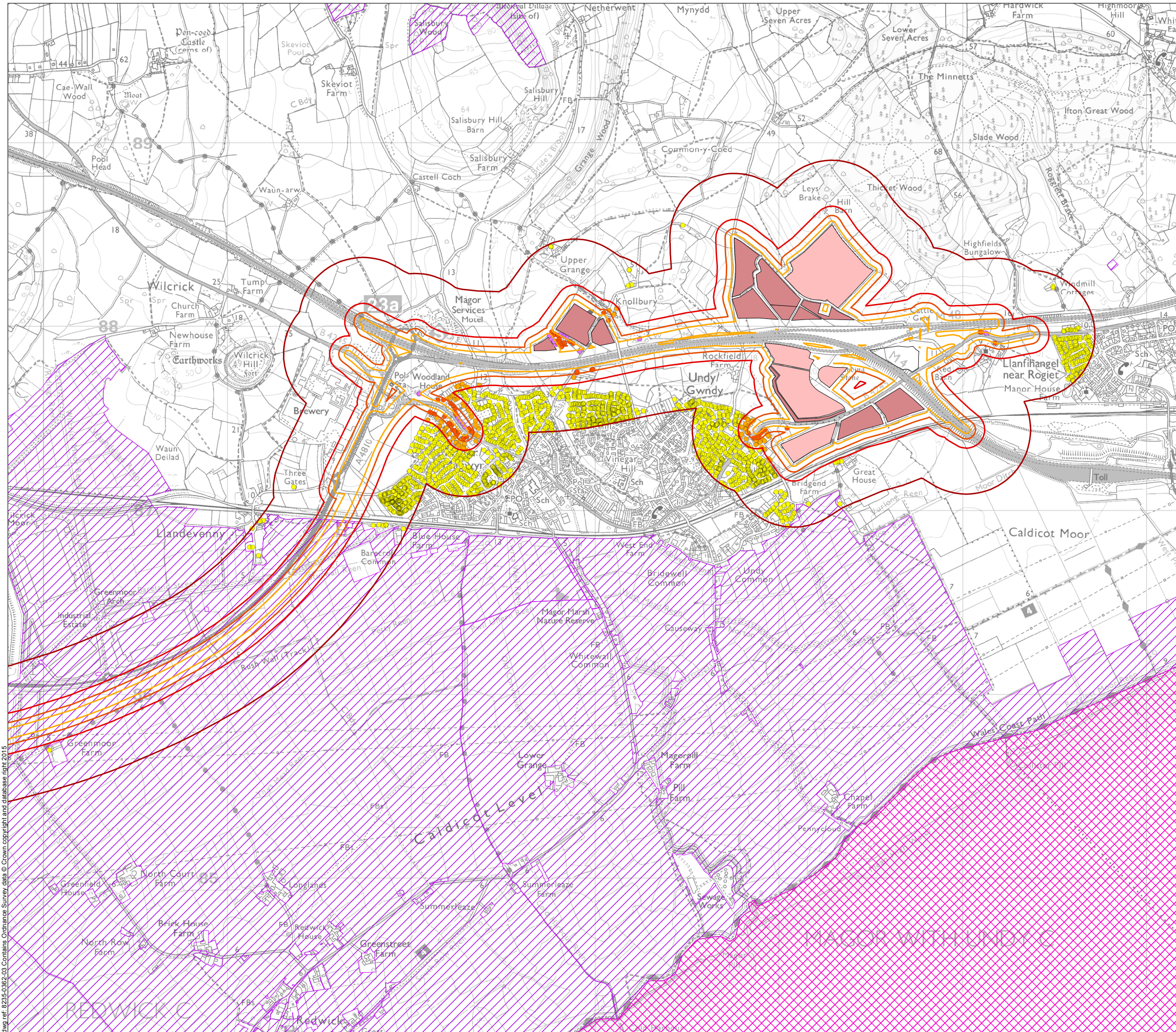
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**Legend**

- Buffer 20m
- Buffer 50m
- Buffer 100m
- Buffer 350m
- Receptors 20m
- Receptors 50m
- Receptors 100m
- Receptors 350m
- SSSI
- SAC
- Borow Pit Areas
- Stockpiles



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Environmental Statement

Construction Dust Receptors

Figure: 7.10e

Revision: -

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Scale: A3 @ 1:20,000

0 500 1,000m



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