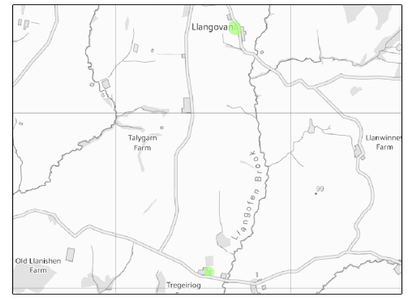
Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Extent of Complementary Measures on Existing M4
- Special Area of Conservation
- Special Protection Area
- RAMSAR Site

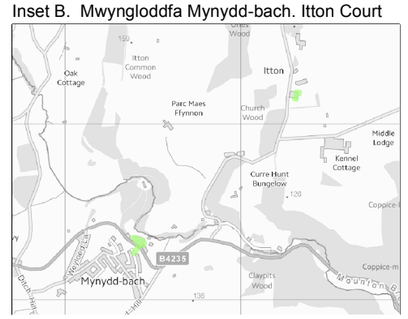
Sugar Loaf Woodlands
Usk Bat Sites / Safleodd Ystlumod Wysg
Cwm Clydach Woodlands / Coedydd Cwm Clydach
River Usk / Afon Wysg
Wye Valley and Forest of Dean Bat Sites / Safleoedd Ystlumod Dyffryn Gwy a Fforest y Ddena (Wales)
Wye Valley & Forest of Dean Bat Sites (England)
River Wye (England)
Wye Valley Woodlands / Coetiroedd Dyffryn Gwy (Wales)
Wye Valley Woodlands (England)
Aberbargoed Grasslands
Inset A
Inset B
Cardiff Beech Woods
Severn Estuary (Wales) RAMSAR, SPA, SAC
Avon Gorge Woodlands
North Somerset & Mendip Bat (England)
Chew Valley Lake
Mendip Limestone Grasslands

Parts of Wye Valley & Forest of Dean Bat Sites

Inset A. The Priory, Llangovan. Tregeiriog Farm.



Inset B. Mwyngloddfa Mynydd-bach. Itton Court



Llywodraeth Cymru
Welsh Government

Environmental Statement

Internationally Designated Nature Conservation Sites

Figure: 10.1	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

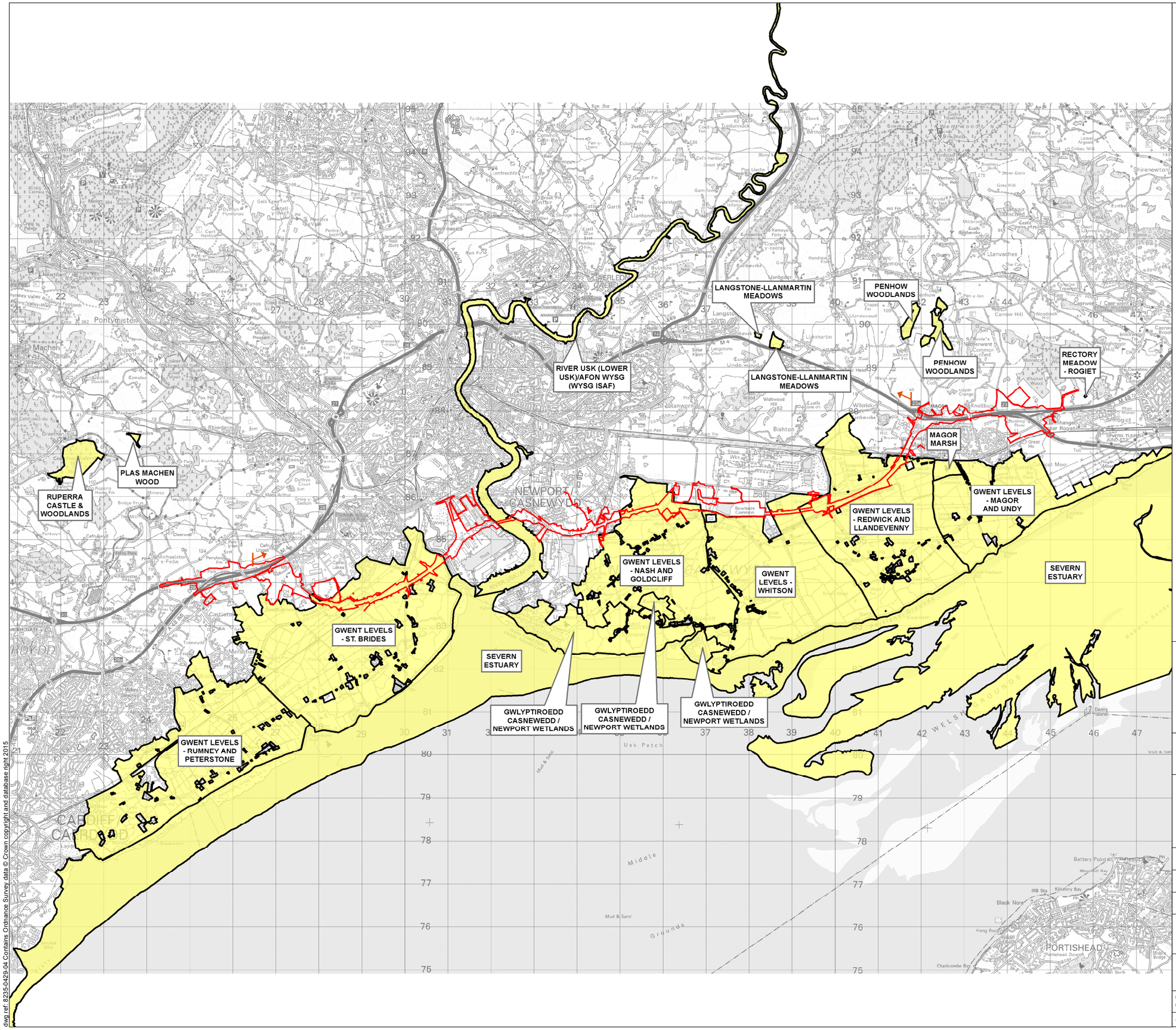
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Area of Complementary Measures on Existing M4
- Site of Special Scientific Interest

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Welsh Government

Environmental Statement

Nationally Designated Nature Conservation Sites

Figure: 10.2	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

Scale: A3 @ 1:85,000

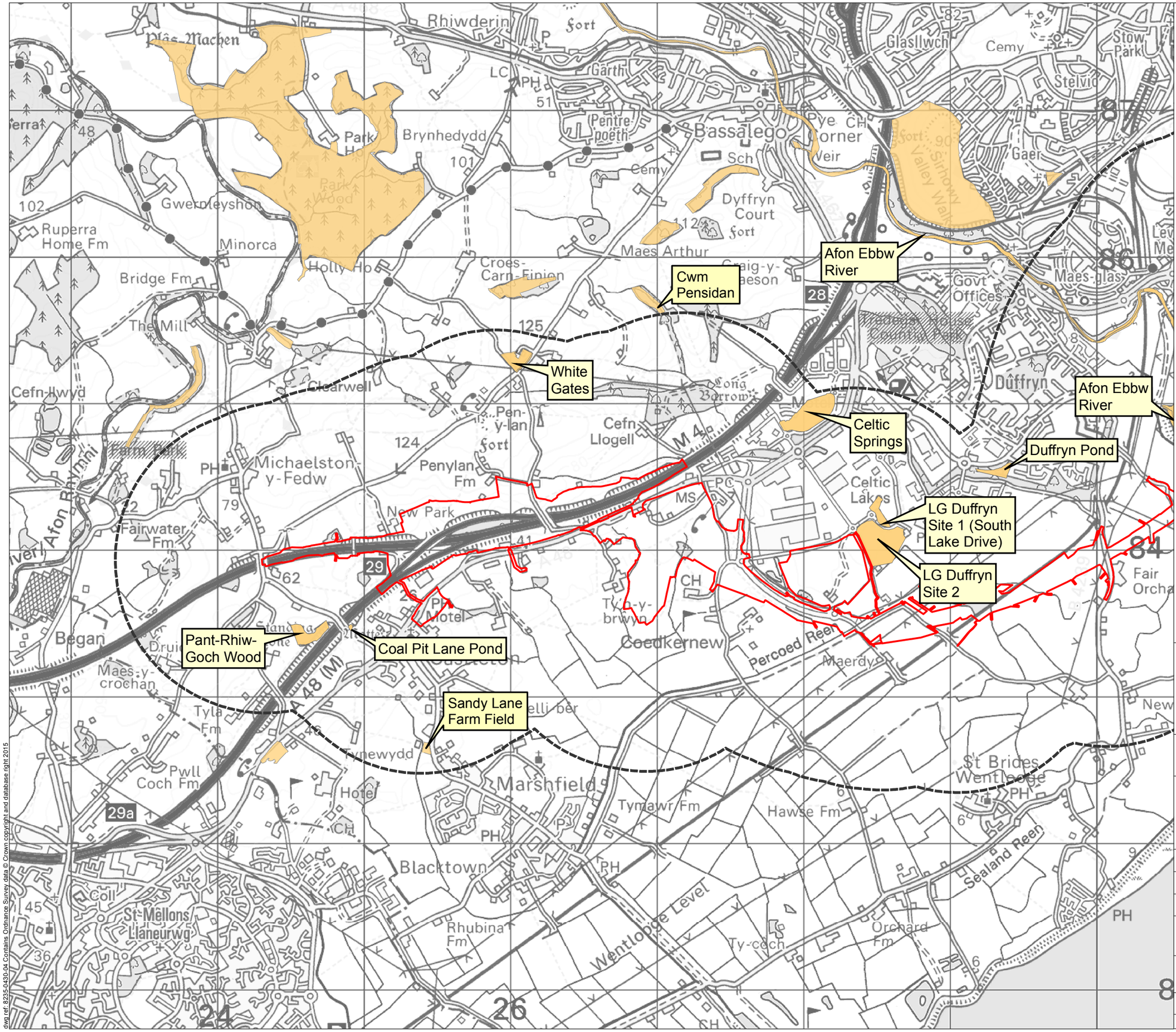
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 1km Search
- Wildlife Trust Reserve
- SINC within Monmouthshire County Council
- SINC within Newport City Council
- National Nature Reserve including RSPB Reserve

Llywodraeth Cymru
Welsh Government

Environmental Statement

Locally Designated Nature Conservation Sites and Nature Reserves

Figure: 10.3a	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

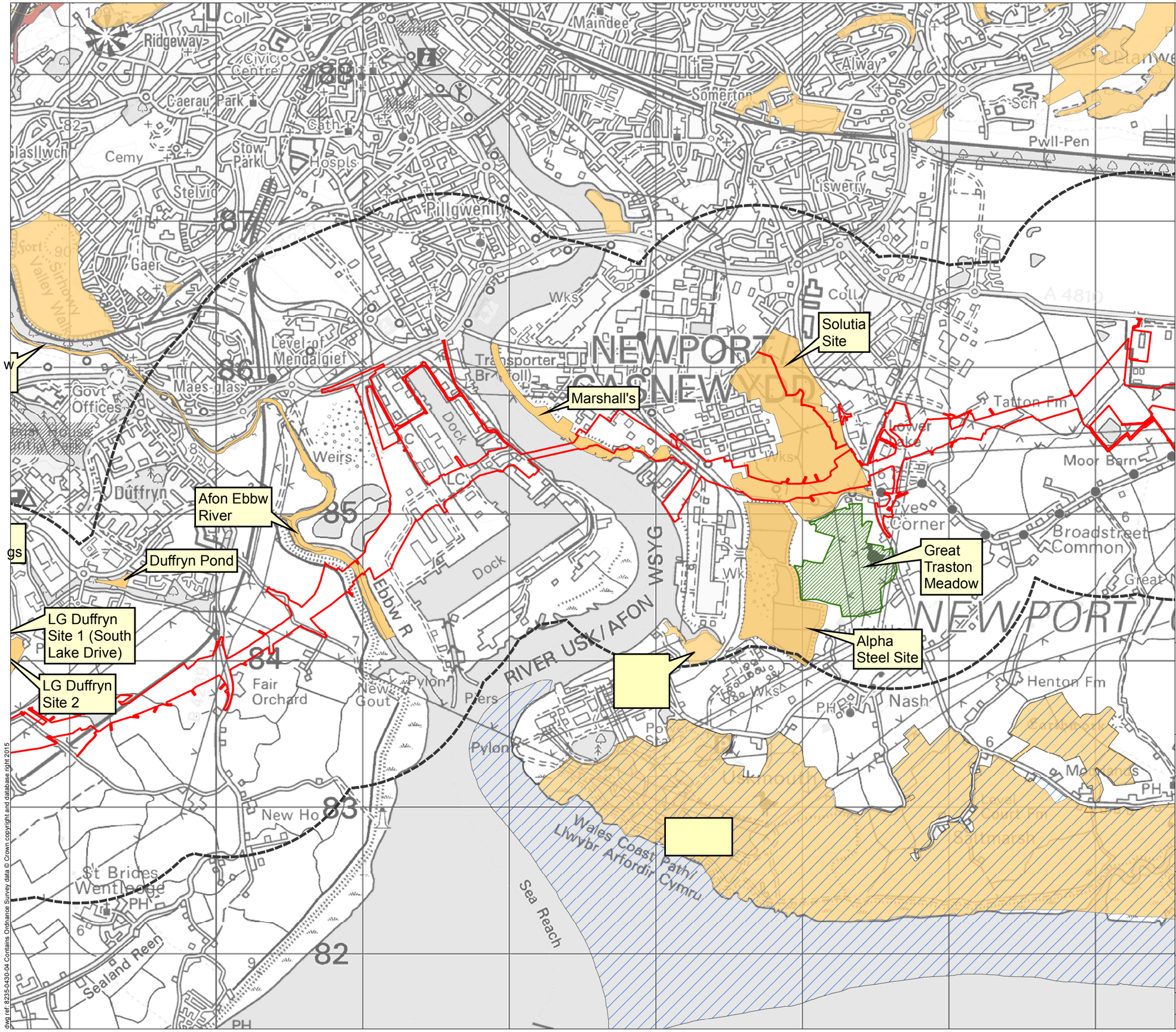
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 1km Search
- Wildlife Trust Reserve
- SINC within Monmouthshire County Council
- SINC within Newport City Council
- National Nature Reserve including RSPB Reserve

Llywodraeth Cymru
Welsh Government

Environmental Statement

Locally Designated Nature Conservation Sites and Nature Reserves

Figure: 10.3b	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

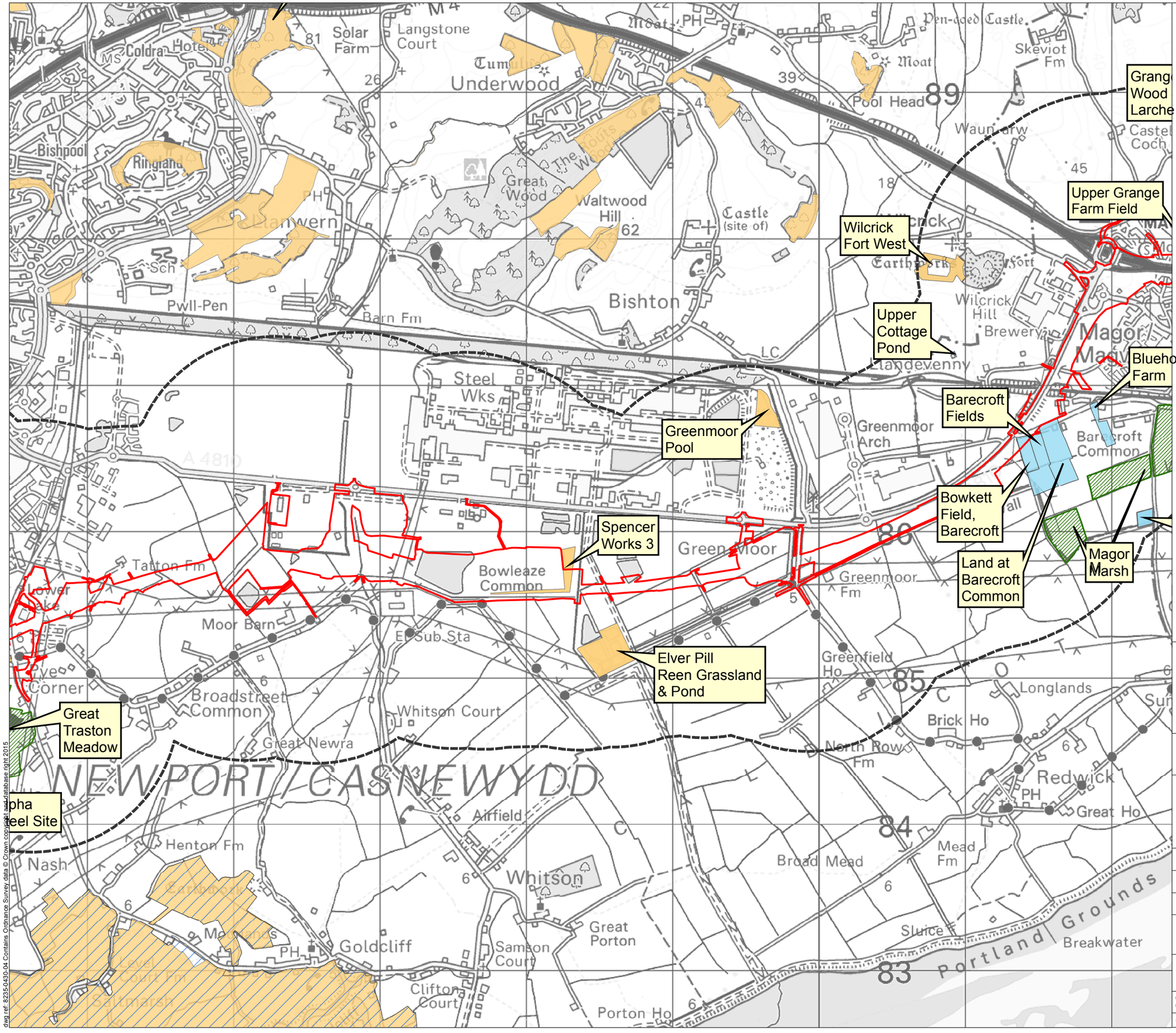
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 1km Search
- Wildlife Trust Reserve
- SINC within Monmouthshire County Council
- SINC within Newport City Council
- National Nature Reserve including RSPB Reserve

Llywodraeth Cymru
Welsh Government

Environmental Statement

Locally Designated Nature Conservation Sites and Nature Reserves

Figure: 10.3c	Revision: -
Date: March 2016	Status: AT ISSUE
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Scale: A3 @ 1:25,000
0 415 830m

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Grange Wood & The Larches

Wood West of Common-y-Coed

Upper Grange Farm Field

Upper Cottage Pond

Grange Road

Breezy Bank to Rockfield Farm

Bluehouse Farm

Barecroft Fields

Bridewell Common Field

Bowkett Field, Barecroft

Land at Barecroft Common

Magor Marsh

Blackwall Lane Field

Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 1km Search
- Wildlife Trust Reserve
- SINC within Monmouthshire County Council
- SINC within Newport City Council
- National Nature Reserve including RSPB Reserve

Llywodraeth Cymru
Welsh Government

Environmental Statement

Locally Designated Nature Conservation Sites and Nature Reserves

Figure: 10.3d	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

Scale: A3 @ 1:25,000

0 415 830m

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Michaelston-y-Fedw

Penylan Road

New Park Farm

M4 Junction 29

Pound Hill

Gwaunshonb Farm

Pwl Diwaeold

Castleton

Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 250m Buffer area
- Target note
- Tree
- Scrub
- Watercourse
- Species-rich intact hedge
- Species-poor intact hedge
- Species-rich defunct hedge
- Species poor defunct hedge with fence
- Species-rich hedge with trees
- Species-poor hedge with trees
- Fence
- Wall
- Dry ditch
- Boundary removed
- Earth bank
- Unimproved neutral grassland
- Caravan site
- Introduced shrub
- Scattered saltmarsh
- Broad leaved semi-natural Woodland
- Broad leaved plantation Woodland
- Coniferous plantation woodland
- Mixed semi-natural Woodland
- Mixed plantation Woodland
- Scrub dense continuous
- Scrub scattered
- Broadleaved plantation woodland
- Mixed parkland
- SI Semi-improved Neutral grassland
- I Improved grassland
- Marsh/marshy grassland
- SI Poor semi-improved grassland
- Tall ruderal
- Swamp
- Inundation vegetation
- Marginal vegetation
- Standing water
- Intertidal mud/sand
- Saltmarsh dense/continuous
- Hardstanding
- A Arable
- A Amenity grassland
- Ephemeral/short perennial
- Building
- Bare Ground
- Other habitat
- Orchard
- No access
- Allotment

Note: 2015 survey area includes Peter Sturgess 2015 NVC survey area

Llywodraeth Cymru
Welsh Government

Environmental Statement

Phase 1 Habitat Plan

Figure: 10.4a	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: MS	Checked: JW

Scale: A3 @ 1:10,000

0 200 400m

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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 250m Buffer area
- Target note
- Tree
- Scrub
- Watercourse
- Species-rich intact hedge
- Species-poor intact hedge
- Species-rich defunct hedge
- Species poor defunct hedge with fence
- Species-rich hedge with trees
- Species-poor hedge with trees
- Fence
- Wall
- Dry ditch
- Boundary removed
- Earth bank
- Unimproved neutral grassland
- Caravan site
- Introduced shrub
- Scattered saltmarsh
- Broad leaved semi-natural Woodland
- Broad leaved plantation Woodland
- Coniferous plantation woodland
- Mixed semi-natural Woodland
- Mixed plantation Woodland
- Scrub dense continuous
- Scrub scattered
- Broadleaved plantation woodland
- Mixed parkland
- Semi-improved Neutral grassland
- Improved grassland
- Marsh/marshy grassland
- SI Poor semi-improved grassland
- Tall ruderal
- Swamp
- Inundation vegetation
- Marginal vegetation
- Standing water
- Intertidal mud/sand
- Saltmarsh dense/continuous
- Hardstanding
- A Arable
- A Amenity grassland
- Ephemeral/short perennial
- Building
- Bare Ground
- Other habitat
- Orchard
- No access
- Allotment

Note: 2015 survey area includes Peter Sturgess 2015 NVC survey area

Llywodraeth Cymru
Welsh Government

Environmental Statement

Phase 1 Habitat Plan

Figure: 10.4b	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: MS	Checked: JW

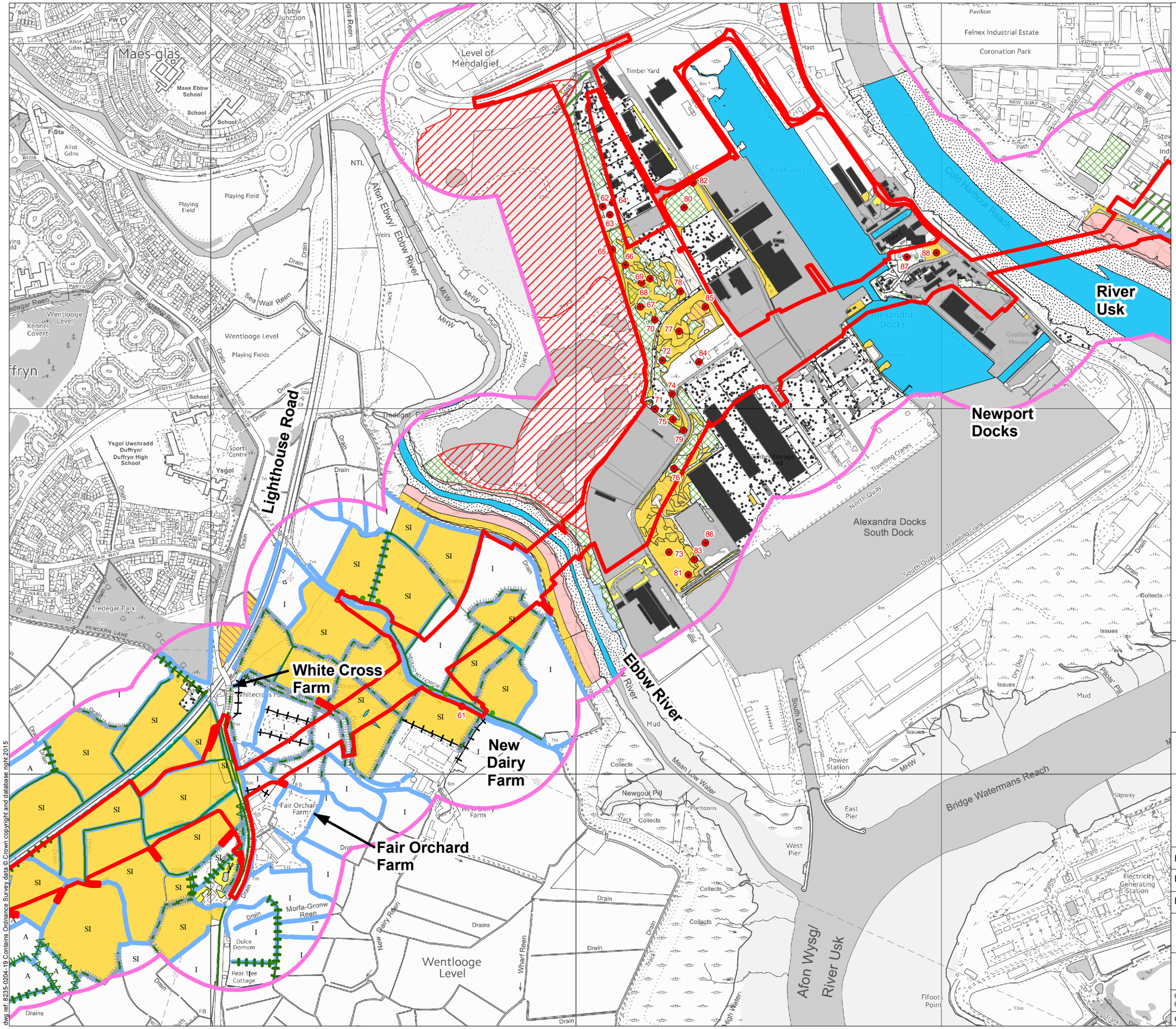
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 250m Buffer area
- Target note
- Tree
- Scrub
- Watercourse
- Species-rich intact hedge
- Species-poor intact hedge
- Species-rich defunct hedge
- Species poor defunct hedge with fence
- Species-rich hedge with trees
- Species-poor hedge with trees
- Fence
- Wall
- Dry ditch
- Boundary removed
- Earth bank
- Unimproved neutral grassland
- Caravan site
- Introduced shrub
- Scattered saltmarsh
- Broad leaved semi-natural Woodland
- Broad leaved plantation Woodland
- Coniferous plantation woodland
- Mixed semi-natural Woodland
- Mixed plantation Woodland
- Scrub dense continuous
- Scrub scattered
- Broadleaved plantation woodland
- Mixed parkland
- SI Semi-improved Neutral grassland
- I Improved grassland
- Marsh/marshy grassland
- SI Poor semi-improved grassland
- Tall ruderal
- Swamp
- Inundation vegetation
- Marginal vegetation
- Standing water
- Intertidal mud/sand
- Saltmarsh dense/continuous
- Hardstanding
- A Arable
- A Amenity grassland
- Ephemeral/short perennial
- Building
- Bare Ground
- Other habitat
- Orchard
- No access
- Allotment

Note: 2015 survey area includes Peter Sturgess 2015 NVC survey area

Llywodraeth Cymru
Welsh Government

Environmental Statement

Phase 1 Habitat Plan

Figure: 10.4c	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: MS	Checked: JW

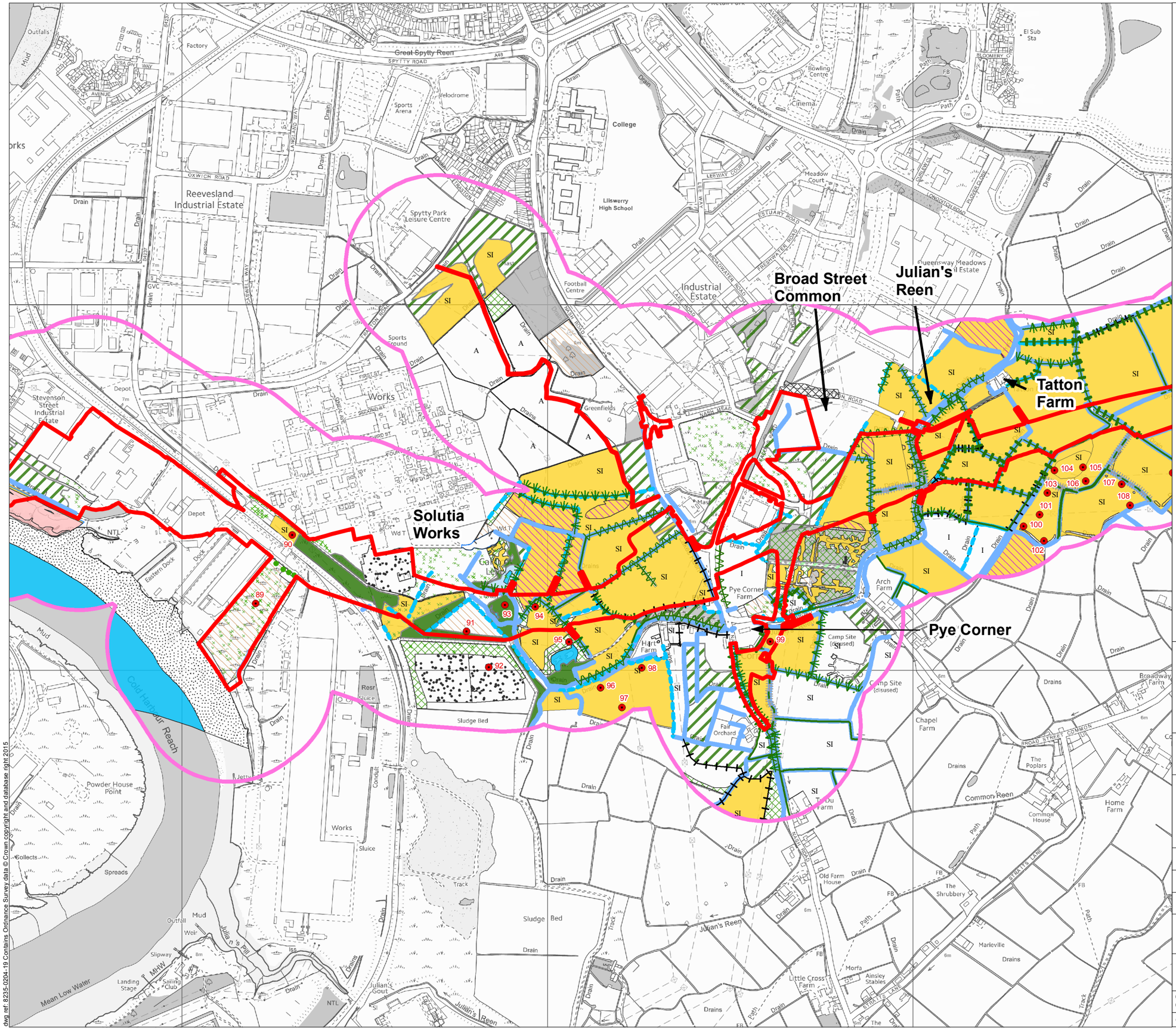
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 250m Buffer area
- Target note
- Tree
- Scrub
- Watercourse
- Species-rich intact hedge
- Species-poor intact hedge
- Species-rich defunct hedge
- Species poor defunct hedge with fence
- Species-rich hedge with trees
- Species-poor hedge with trees
- Fence
- Wall
- Dry ditch
- Boundary removed
- Earth bank
- Unimproved neutral grassland
- Caravan site
- Introduced shrub
- Scattered saltmarsh
- Broad leaved semi-natural Woodland
- Broad leaved plantation Woodland
- Coniferous plantation woodland
- Mixed semi-natural Woodland
- Mixed plantation Woodland
- Scrub dense continuous
- Scrub scattered
- Broadleaved plantation woodland
- Mixed parkland
- SI Semi-improved Neutral grassland
- I Improved grassland
- Marsh/marshy grassland
- SI Poor semi-improved grassland
- Tall ruderal
- Swamp
- Inundation vegetation
- Marginal vegetation
- Standing water
- Intertidal mud/sand
- Saltmarsh dense/continuous
- Hardstanding
- A Arable
- A Amenity grassland
- Ephemeral/short perennial
- Building
- Bare Ground
- Other habitat
- Orchard
- No access
- Allotment

Note: 2015 survey area includes Peter Sturgess 2015 NVC survey area

Llywodraeth Cymru
Welsh Government

Environmental Statement

Phase 1 Habitat Plan

Figure: 10.4d	Revision:
Date: March 2016	Status: AT ISSUE
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Scale: A3 @ 1:10,000

0 200 400m

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Moor Ditch

Tata Steelworks

Tata Steel Land

Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 250m Buffer area
- Target note
- Tree
- Scrub
- Watercourse
- Species-rich intact hedge
- Species-poor intact hedge
- Species-rich defunct hedge
- Species poor defunct hedge with fence
- Species-rich hedge with trees
- Species-poor hedge with trees
- Fence
- Wall
- Dry ditch
- Boundary removed
- Earth bank
- Unimproved neutral grassland
- Caravan site
- Introduced shrub
- Scattered saltmarsh
- Broad leaved semi-natural Woodland
- Broad leaved plantation Woodland
- Coniferous plantation woodland
- Mixed semi-natural Woodland
- Mixed plantation Woodland
- Scrub dense continuous
- Scrub scattered
- Broadleaved plantation woodland
- Mixed parkland
- Semi-improved Neutral grassland (SI)
- Improved grassland (I)
- Marsh/marshy grassland
- Poor semi-improved grassland (SI)
- Tall ruderal
- Swamp
- Inundation vegetation
- Marginal vegetation
- Standing water
- Intertidal mud/sand
- Saltmarsh dense/continuous
- Hardstanding
- Arable (A)
- Amenity grassland (A)
- Ephemeral/short perennial
- Building
- Bare Ground
- Other habitat
- Orchard
- No access
- Allotment

Note: 2015 survey area includes Peter Sturgess 2015 NVC survey area

Llywodraeth Cymru
Welsh Government

Environmental Statement

Phase 1 Habitat Plan

Figure: 10.4e	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: MS	Checked: JW

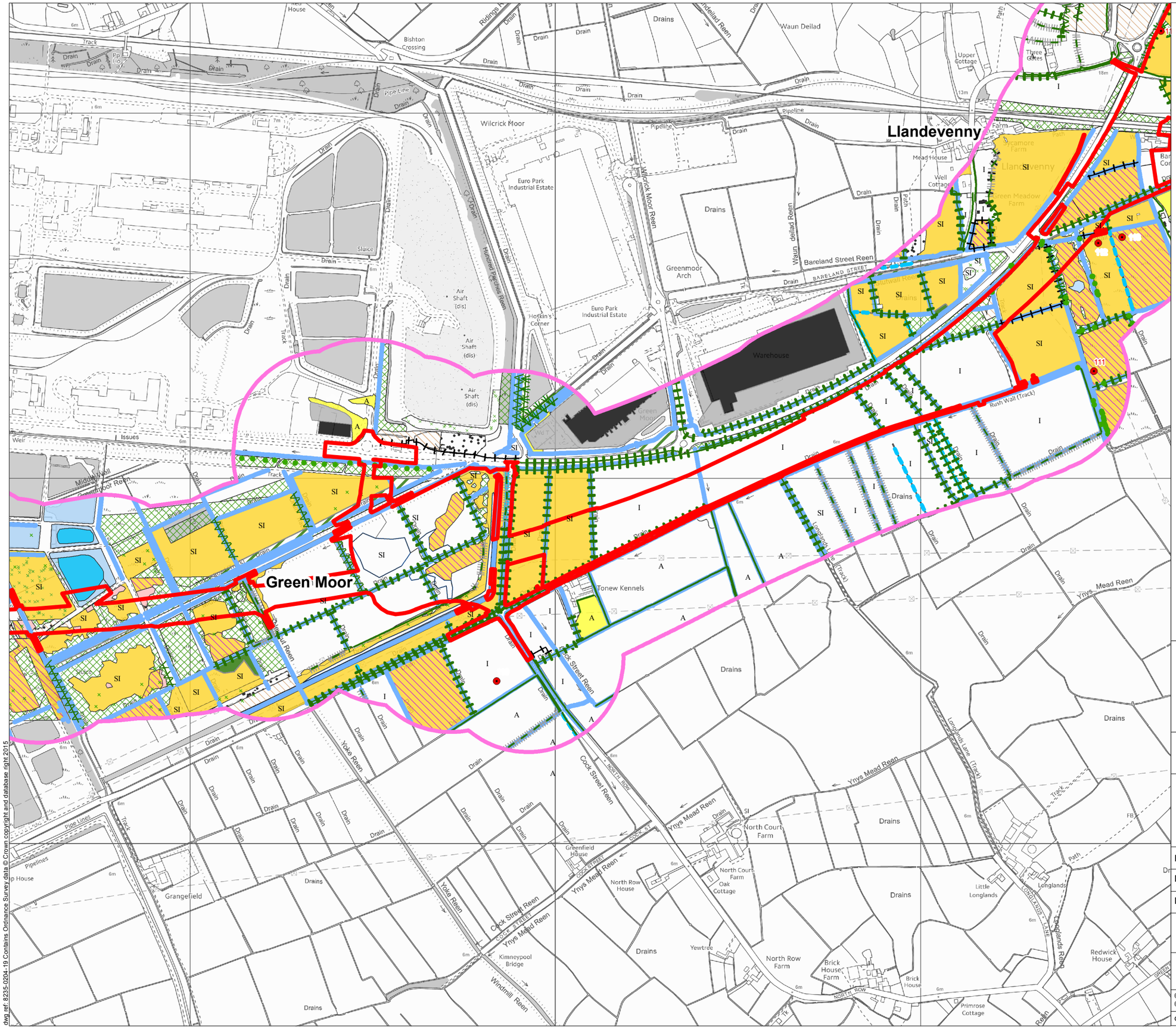
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 250m Buffer area
- Target note
- Tree
- Scrub
- Watercourse
- Species-rich intact hedge
- Species-poor intact hedge
- Species-rich defunct hedge
- Species poor defunct hedge with fence
- Species-rich hedge with trees
- Species-poor hedge with trees
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- Coniferous plantation woodland
- Mixed semi-natural Woodland
- Mixed plantation Woodland
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- Scrub scattered
- Broadleaved plantation woodland
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- SI Semi-improved Neutral grassland
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- SI Poor semi-improved grassland
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- Swamp
- Inundation vegetation
- Marginal vegetation
- Standing water
- Intertidal mud/sand
- Saltmarsh dense/continuous
- Hardstanding
- A Arable
- A Amenity grassland
- Ephemeral/short perennial
- Building
- Bare Ground
- Other habitat
- Orchard
- No access
- Allotment

Note: 2015 survey area includes Peter Sturgess 2015 NVC survey area

Llywodraeth Cymru
Welsh Government

Environmental Statement

Phase 1 Habitat Plan

Figure: 10.4f	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: MS	Checked: JW

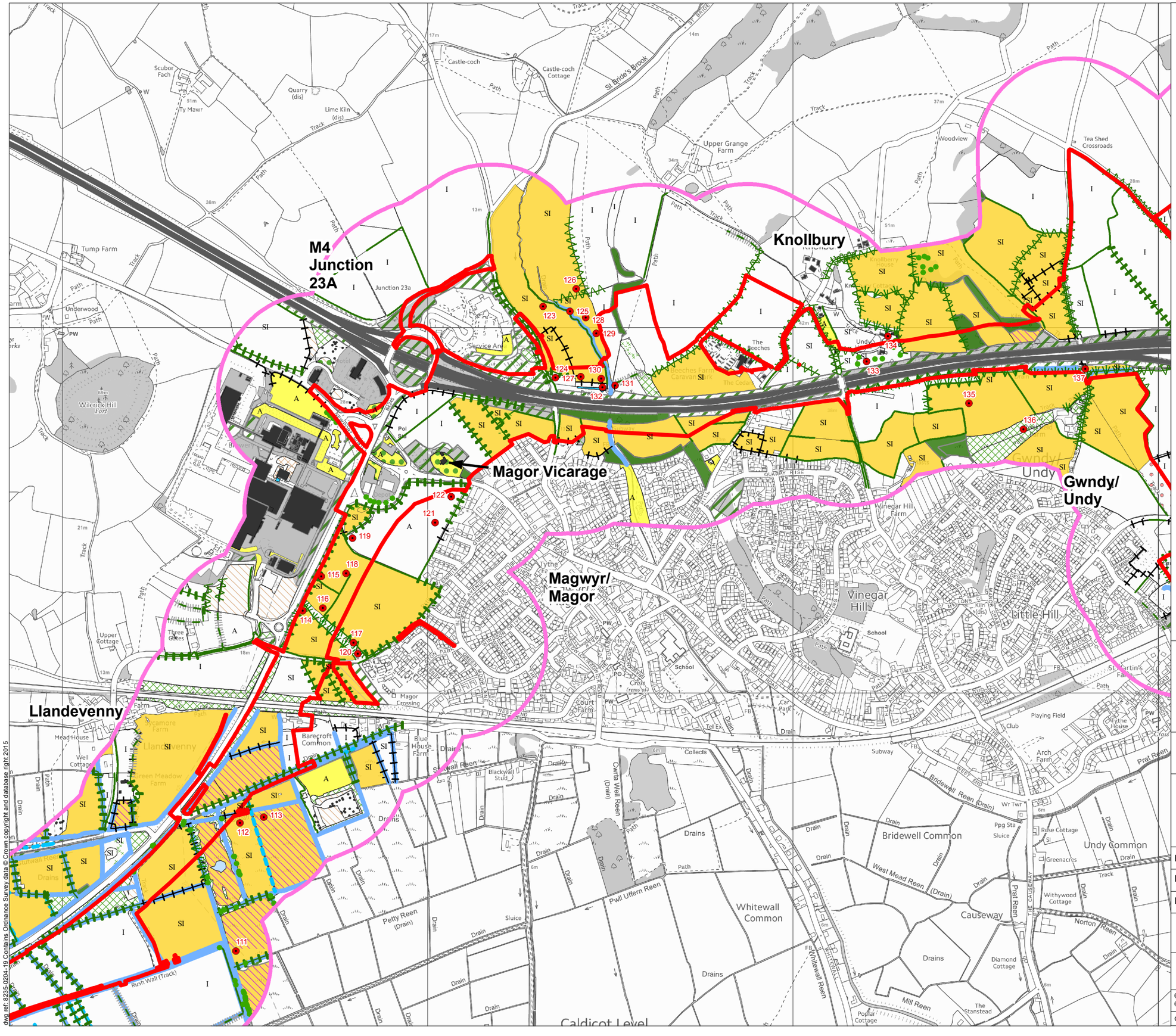
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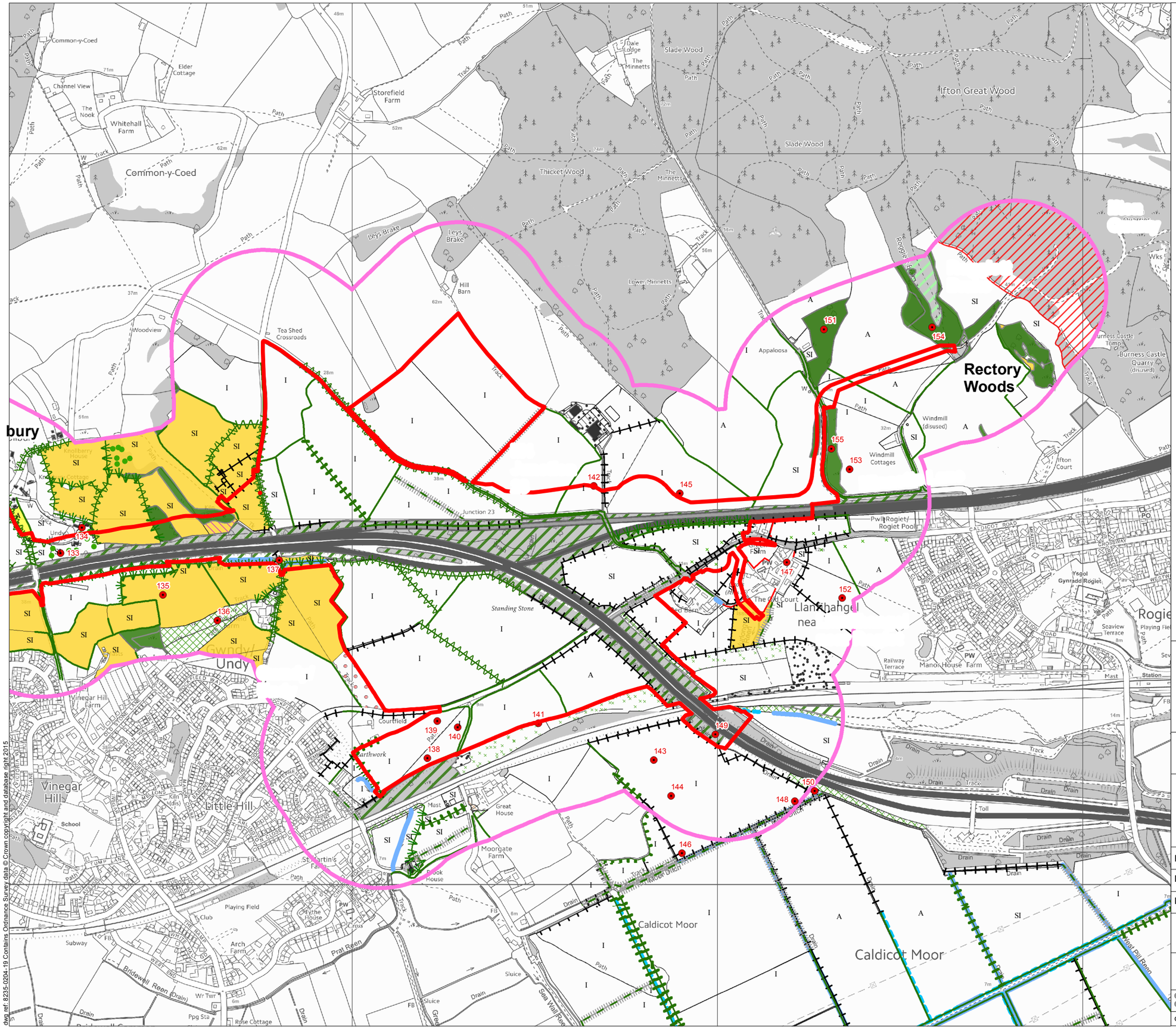
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M4 Junction 23A
Knollbury
Magor Vicarage
Gwndy/ Undy
Magwyr/ Magor
Llandevenny
Caldicot Level
Whitewall Common
Bridewell Common
Undy Common
Causeway
Vinegar Hill
Little Hill
Wilcrick Hill Fort
Tump Farm
Upper Grange Farm
Castle-coch
Castle-coch Cottage
St Bride's Brook
Quarry (dis)
Lime Kiln (dis)
Scubor Fach
Ty Mawr
Underwood
Junction 23a
Service Area
The Beeches
Beeches Farm Caravan Park
Tea Shed Crossroads
Woodview
Upper Cottage
Three Gates
Sycamore Farm
Green Meadow Farm
Mead House
Well Cottage
Barecroft Common
Blue House Farm
Blackwall Stud
Court Farm
Tythe
Arch Farm
Playing Field
Tythe House
St Martin's Farm
Withywood Cottage
Greenacres
Rose Cottage
Diamond Cottage
Poplar Cottage
The Stanstead
Norton Reen
Petty Reen (Drain)
Pwll Uffern Reen
Cwrta Well Reen (Drain)
Blackwall Reen
West Mead Reen (Drain)
Bridewell Reen (Drain)
Prat Reen
Mill Reen
Whitewall Reen
Rush Wall (Track)
Magor Crossing
Sluice
Collects
Drains
Subway
Brewery
Pol Sta
Ppg Sta
Wr Twr
Tel Ex
Car Park
Club
School
PO
Cross
Quarry Rise
Whitewall Drive
Whitewall Road
Oakfield Road
Pentre Farm Road
Pentre Farm Close
Pentre Farm Crescent
Pentre Farm Drive
Pentre Farm Way
Pentre Farm Walk
Pentre Farm Gardens
Pentre Farm Grove
Pentre Farm Rise
Pentre Farm Court
Pentre Farm Avenue
Pentre Farm Lane
Pentre Farm Place
Pentre Farm Terrace
Pentre Farm Square
Pentre Farm Mews



Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 250m Buffer area
- Target note
- Tree
- Scrub
- Watercourse
- Species-rich intact hedge
- Species-poor intact hedge
- Species-rich defunct hedge
- Species poor defunct hedge with fence
- Species-rich hedge with trees
- Species-poor hedge with trees
- Fence
- Wall
- Dry ditch
- Boundary removed
- Earth bank
- Unimproved neutral grassland
- Caravan site
- Introduced shrub
- Scattered saltmarsh
- Broad leaved semi-natural Woodland
- Broad leaved plantation Woodland
- Coniferous plantation woodland
- Mixed semi-natural Woodland
- Mixed plantation Woodland
- Scrub dense continuous
- Scrub scattered
- Broadleaved plantation woodland
- Mixed parkland
- SI Semi-improved Neutral grassland
- I Improved grassland
- Marsh/marshy grassland
- SI Poor semi-improved grassland
- Tall ruderal
- Swamp
- Inundation vegetation
- Marginal vegetation
- Standing water
- Intertidal mud/sand
- Saltmarsh dense/continuous
- Hardstanding
- A Arable
- A Amenity grassland
- Ephemeral/short perennial
- Building
- Bare Ground
- Other habitat
- Orchard
- No access
- Allotment

Note: 2015 survey area includes Peter Sturgess 2015 NVC survey area

Llywodraeth Cymru
Welsh Government

Environmental Statement

Phase 1 Habitat Plan

Figure: 10.4h	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: MS	Checked: JW

Scale: A3 @ 1:10,000

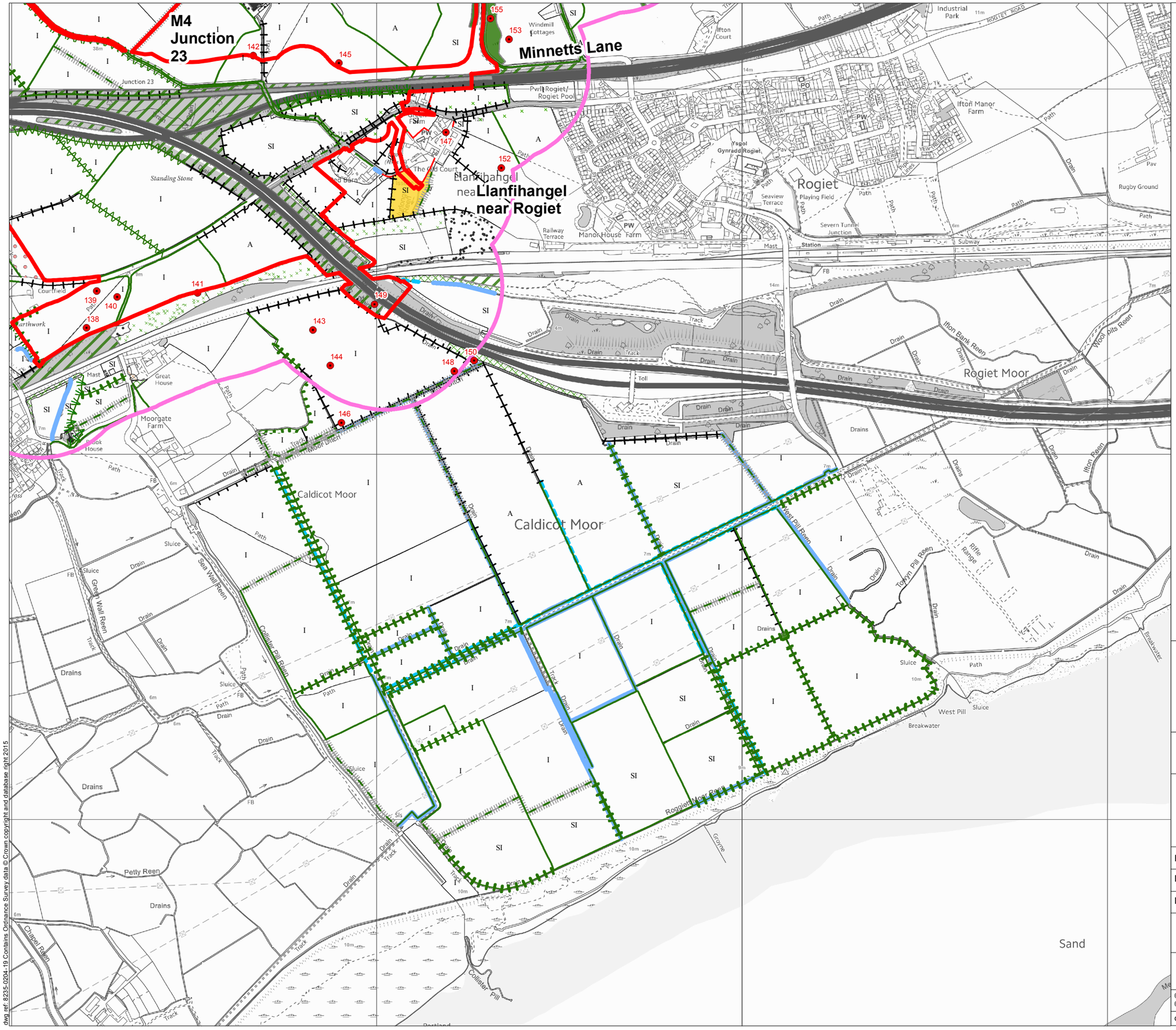
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M4 Junction 23
Minnetts Lane
Llanfihangel near Rogiet
Rogiet
Rogiet Moor
Caldicot Moor
Caldicot Moor
Sand
Ifton Court
Windmill Cottages
Ifton Manor Farm
Rugby Ground
Manor House Farm
Railway Terrace
Seaview Terrace
Severn Tunnel Junction
Station
Ysgol Gynradd Rogiet
Great House
Moorgate Farm
Brook House
Courtfield
Standing Stone
Earthwork
The Old Court
Ifton Bank Reen
Wood ditts Reen
Great Wall Reen
Sea Wall Reen
Collister Pill Reen
West Pill Reen
Petty Reen
Chapel Reen
Towyn Pill Reen
Roggiett Moor Reen
Collister Pill
West Pill
Breakwater
Groyne
Rifle Range
Junction 23
Industrial Park
Playing Field
Drains
Track
Path
Sluice
Toll
Mast
Pw
Po
Pav
Tk
FB
Subway
Drain
Ditch
Slip Lane
Ifton Terr
Crossway
Caldicot Road
Rogiet/ Rogiet Pool
Llanfihangel nea Bara
Portland
Ifton Court
Ifton Manor Farm
Rogiet Playing Field
Severn Tunnel Junction
Rogiet Moor
Caldicot Moor
Caldicot Moor
Sand
Drains
Drains
Drains

Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

H1 H2 H3 H4 H5 H6 H7 H8 H9

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Welsh Government

Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5a	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

Scale: A3 @ 1:10,000
0 200 400 m

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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

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Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5b	Revision:
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

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Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5c	Revision:
Date: March 2016	Status: AT ISSUE
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

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Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5d	Revision:
Date: March 2016	Status: AT ISSUE
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

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Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5e	Revision:
Date: March 2016	Status: AT ISSUE
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

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Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5f	Revision:
Date: March 2016	Status: AT ISSUE
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

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Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5g	Revision:
Date: March 2016	Status: AT ISSUE
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- Ancient Woodland
- Semi-improved neutral grassland
- Saltmarsh
- Swamp
- Important hedgerows (2014)
- Important hedgerows (2015)

Aquatic Macrophyte 20m Sample

- High value
- Very high value

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Environmental Statement

Ecology Survey Key Findings – Habitats and Vegetation

Figure: 10.5h	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

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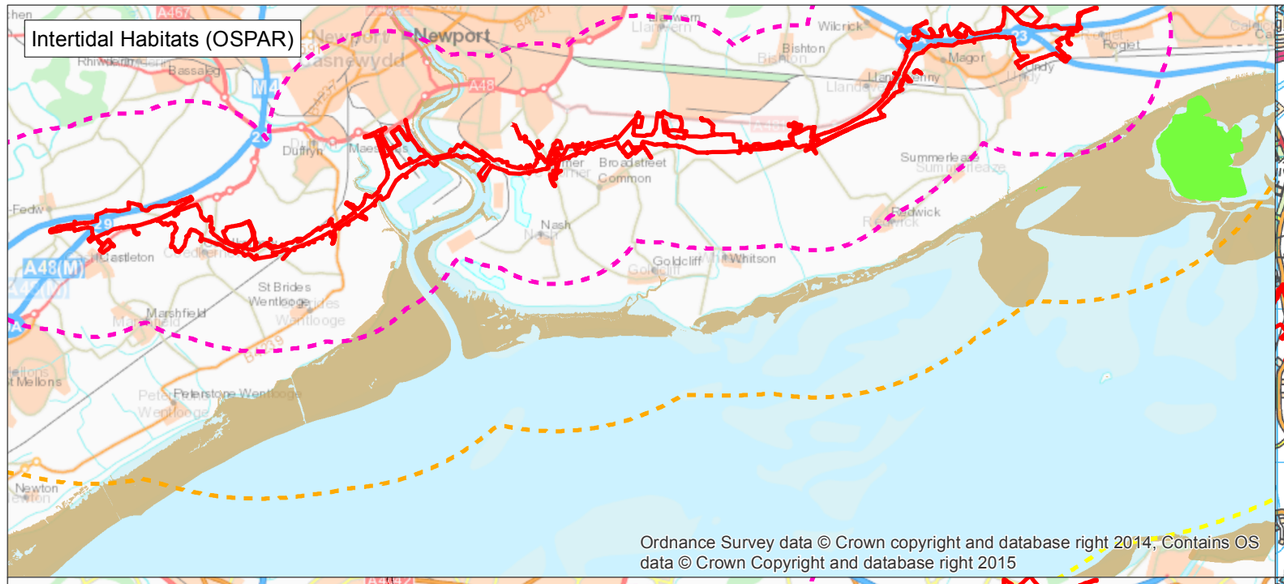
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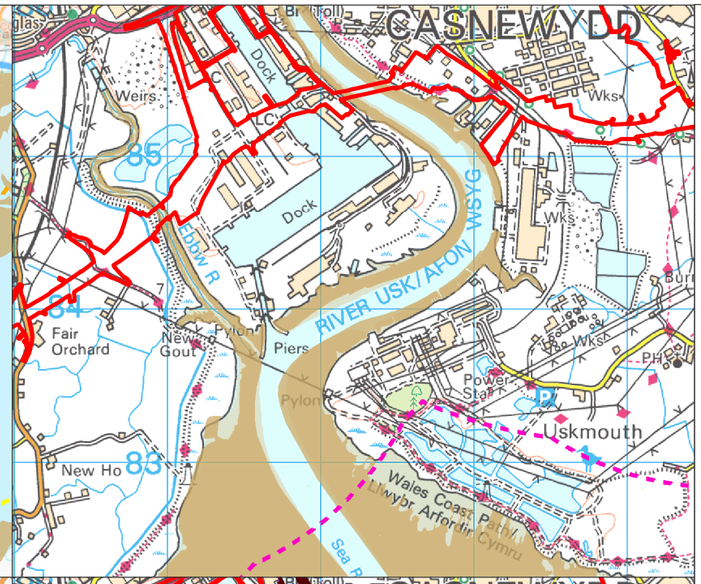
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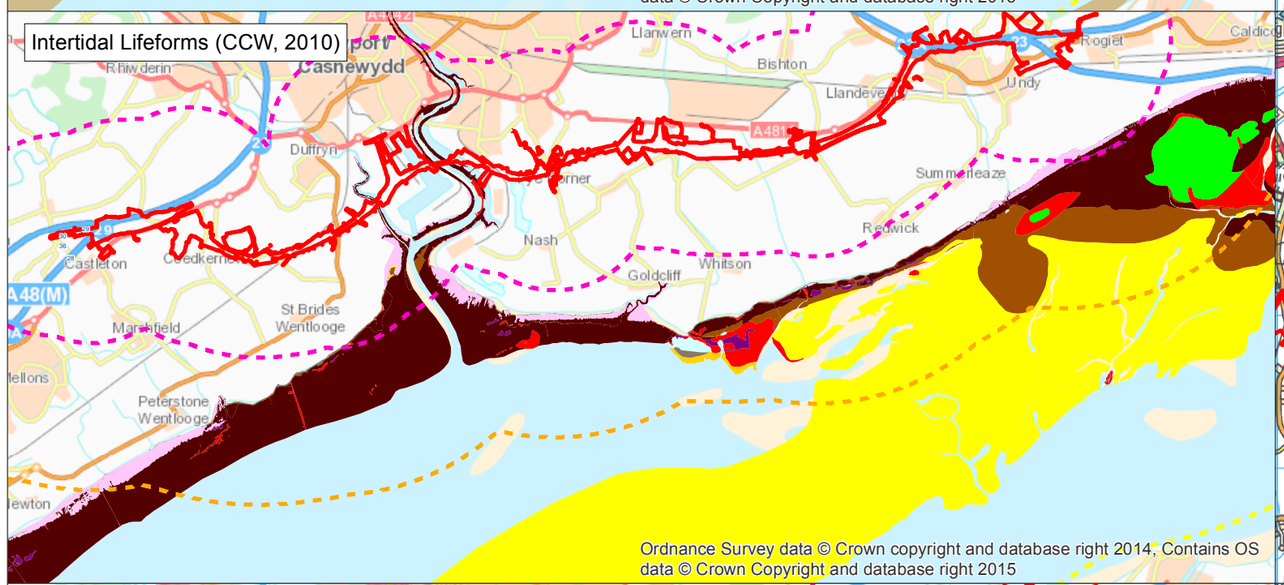
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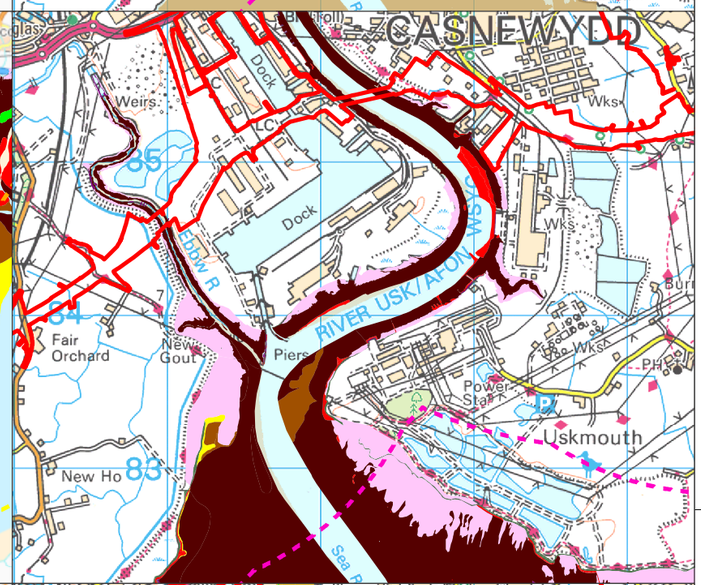
Intertidal Habitats (OSPAR)



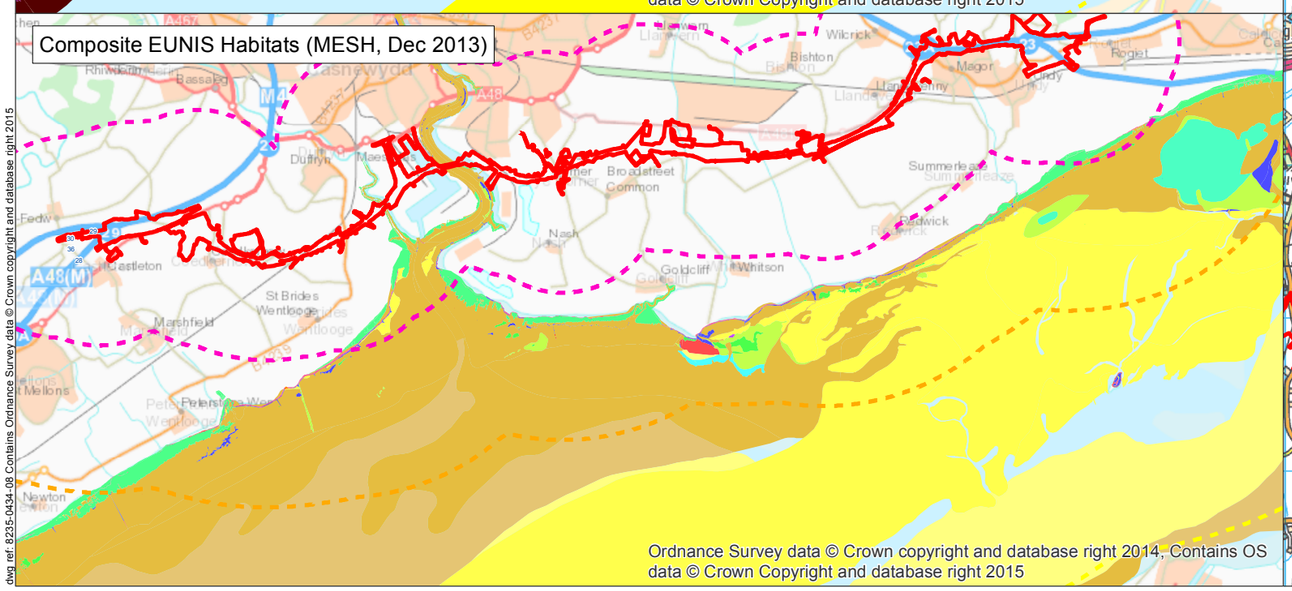


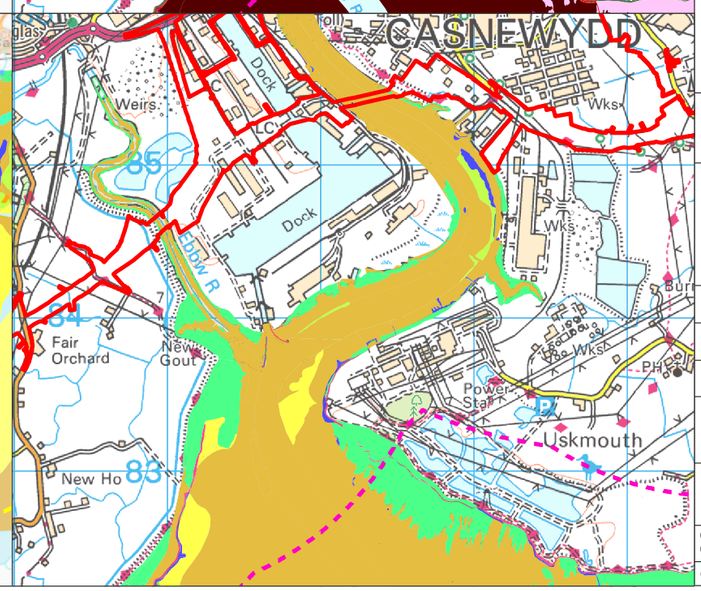
Intertidal Lifeforms (CCW, 2010)





Composite EUNIS Habitats (MESH, Dec 2013)





Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 2km Buffer
- 5km Buffer
- 10km Buffer

Intertidal Habitats (OSPAR)

- Intertidal Mudflat
- Seagrass (Zostera) Bed

Intertidal Lifeforms (CCW, 2010)

- Algal turf
- Biogenic sand reefs
- Fucoids
- Lichens & algae
- Mud
- Muddy sandy shore
- Mussels & Barnacles
- Saltmarsh
- Sand
- Sea grass beds
- Shingle, coarse sand, mixed sediments

Composite EUNIS Habitats (MESH, Dec 2013)

- A1.1 - High energy littoral rock
- A1.2 - Moderate energy littoral rock
- A1.3 - Low energy littoral rock
- A1.4 - Features of littoral rock
- A2.1 - Littoral coarse sediment
- A2.2 - Littoral sand and muddy sand
- A2.3 - Littoral mud
- A2.4 - Littoral mixed sediments
- A2.5 - Coastal saltmarshes and saline reedbeds
- A2.6 - Littoral sediments dominated by aquatic angiosperms
- A2.7 - Littoral biogenic reefs
- A2.8 - Features of littoral sediment
- A5.1 - Sublittoral coarse sediment
- A5.2 - Sublittoral sand
- A5.3 - Sublittoral mud
- A5.6 - Sublittoral biogenic reefs
- B3.1 - Supralittoral rock (lichen or splash zone)

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Environmental Statement

Intertidal Habitats

Figure: 10.6	Revision: -
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Scale: A3 @ 1:125,000 (Insets at 1:40,000)
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway
- 2km Buffer
- 5km Buffer
- 10km Buffer
- WFD Subtidal Benthic Fauna Sample Location (Environment Agency, 2011)
- Location where *Sabellaria sp.* was Identified

Subtidal Habitats (CCW HabMap, 2010)

- CR.MCR.CFaVS
- IR.HIR.KSed
- SS.SBR.PoR
- SS.SCS.CCS
- SS.SCS.ICS
- SS.SMu.ISaMu
- SS.SMu.SMuVS
- SS.SMx.CMx
- SS.SMx.IMx
- SS.SSa.CMuSa
- SS.SSa.IFiSa
- SS.SSa.IMuSa
- SS.SSa.SSaVS

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Environmental Statement

Subtidal Ecology

Figure: 10.7	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: JW

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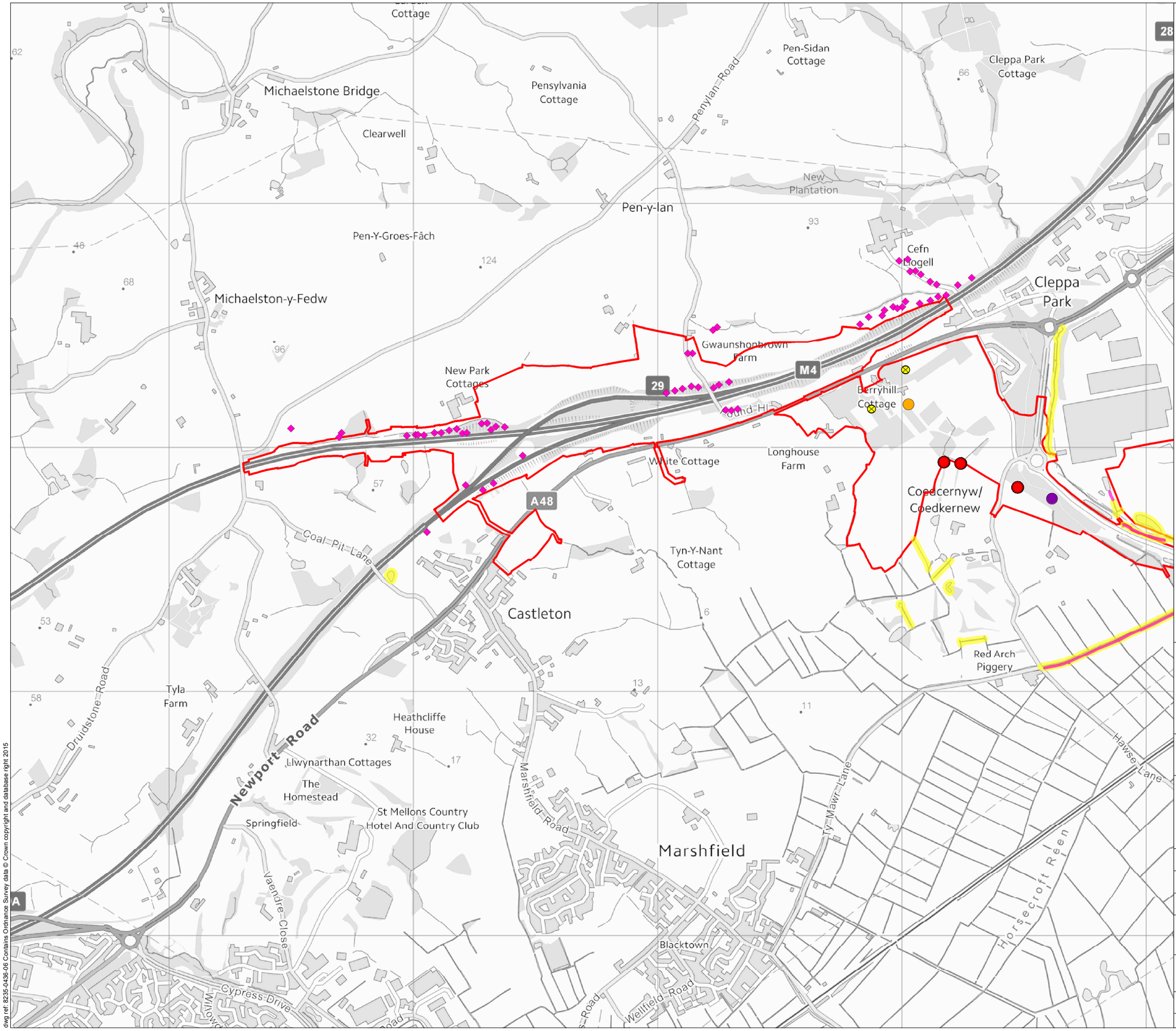
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Legend

- Limit of Permanent and Temporary Works for New Section of Motorway

2014 and 2015 Reptile Surveys

- Grass Snake
- Common Lizard
- Slow Worm

2014 and 2015 Great Crested Newt Surveys

- GCN Present
- GCN found during 2015 reptile survey

2015 Bat Roost Survey (trees)

- Confirmed bat roost
- Probable bat roost

2015 Bat Roost Survey (buildings)

- Confirmed bat roost
- Probable bat roost

Average number of bat passes for survey visit 2015

- 500-1500
- >1500
- >2500 bat passes recorded during one survey visit

Bat Activity Index 2014

- >500

2014 and 2015 Otter and Watervole Surveys

- Watercourses/waterbodies with signs of watervole activity
- Watercourses/waterbodies with signs of otter activity

2014 and 2015 Hazel Dormouse Surveys

- Dormouse Presence
- Possible Dormouse Presence

Areas Important for Birds

- Important area for Cetti's Warbler
- Important area for wintering birds

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Welsh Government

Environmental Statement

Ecology Survey Key Findings - Protected and Notable Species

Figure: 10.8a	Revision:
Date: March 2016	Status: AT ISSUE
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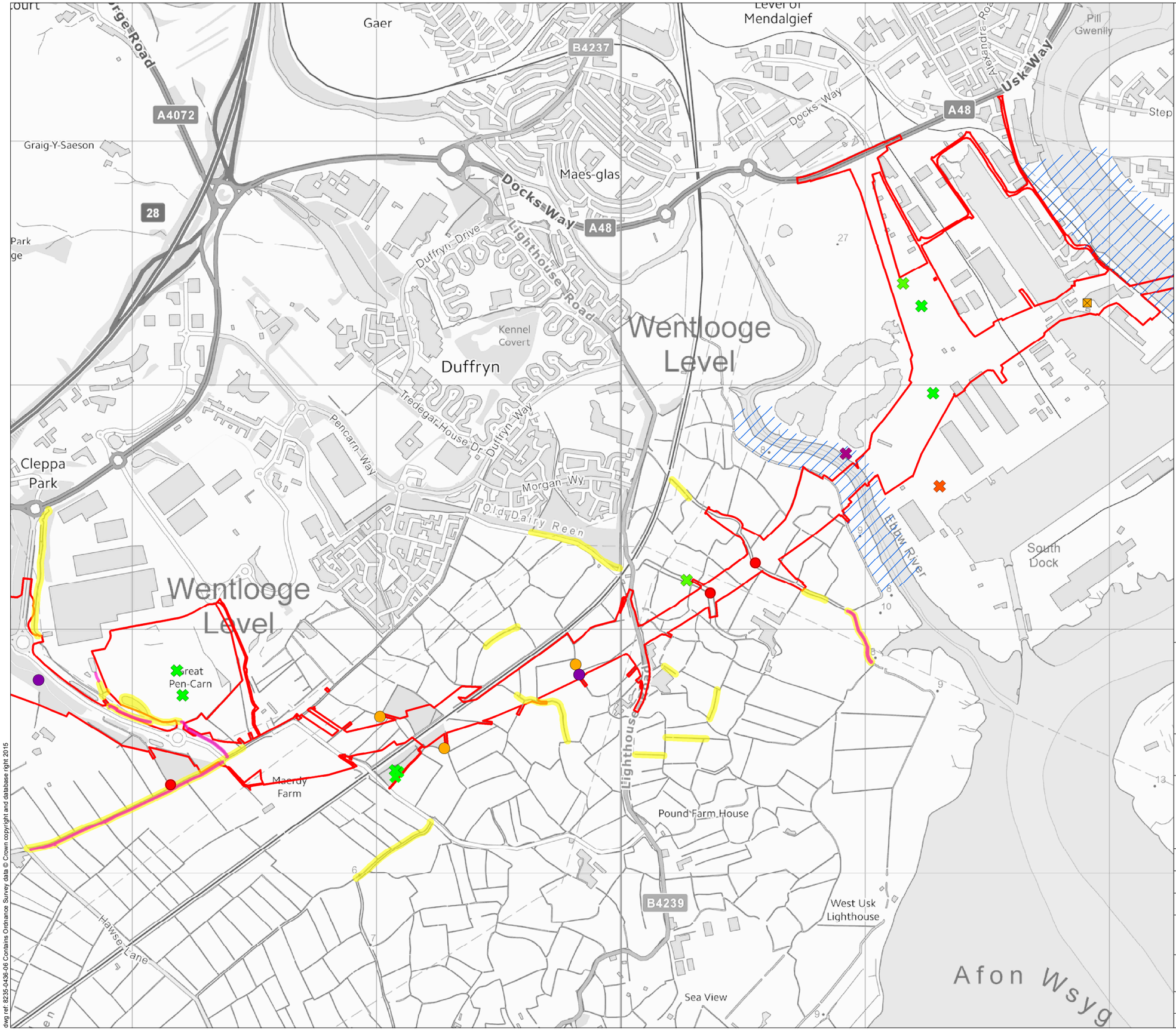
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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

2014 and 2015 Reptile Surveys

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- Common Lizard
- Slow Worm

2014 and 2015 Great Crested Newt Surveys

- GCN Present
- GCN found during 2015 reptile survey

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- Probable bat roost

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Bat Activity Index 2014

- >500

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- Watercourses/waterbodies with signs of otter activity

2014 and 2015 Hazel Dormouse Surveys

- Dormouse Presence
- Possible Dormouse Presence

Areas Important for Birds

- Important area for Cetti's Warbler
- Important area for wintering birds

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Environmental Statement

Ecology Survey Key Findings - Protected and Notable Species

Figure: 10.8b	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

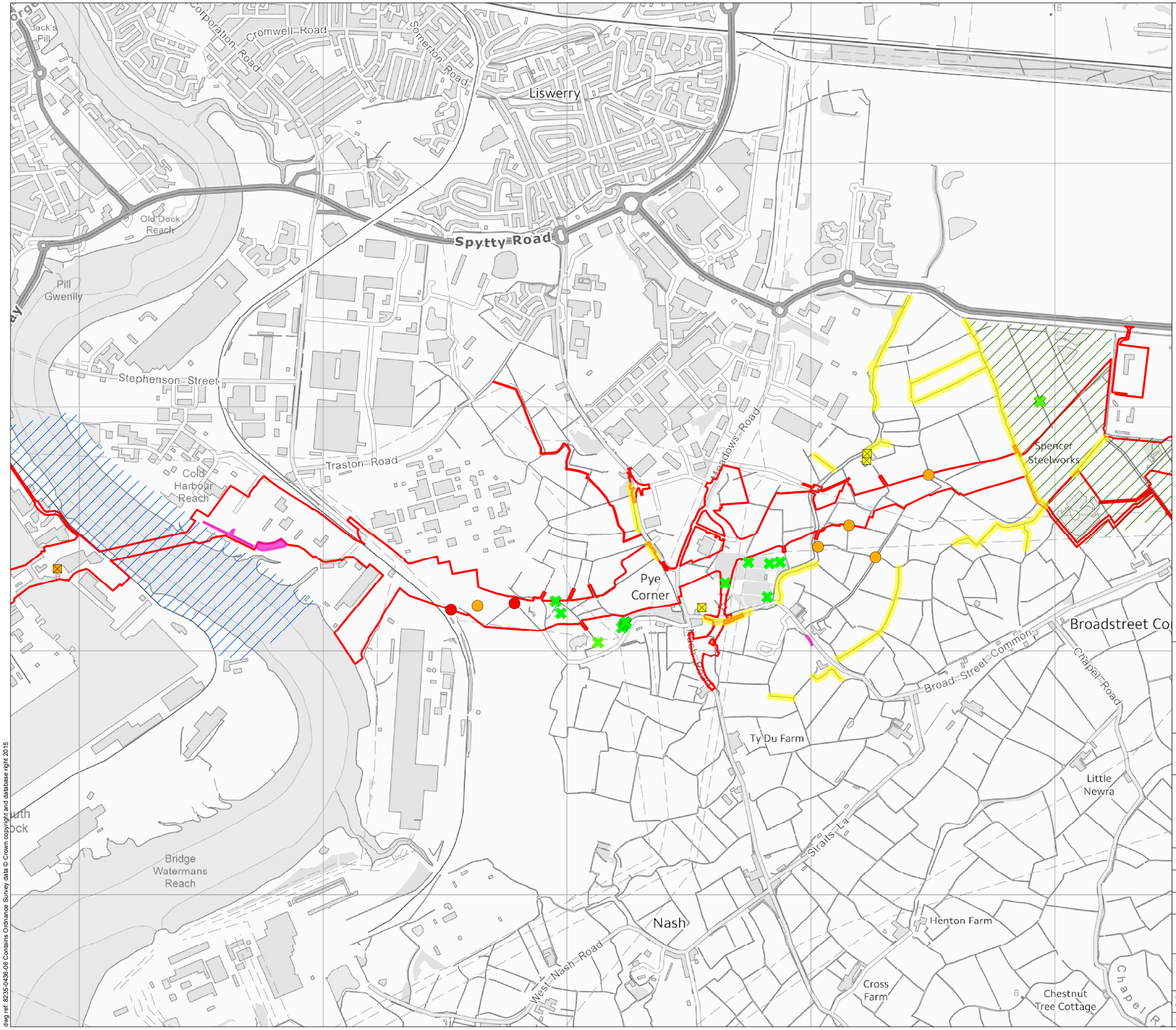
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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

2014 and 2015 Reptile Surveys

- Grass Snake
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2014 and 2015 Great Crested Newt Surveys

- GCN Present
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2015 Bat Roost Survey (buildings)

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- Probable bat roost

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- >1500
- >2500 bat passes recorded during one survey visit

Bat Activity Index 2014

- >500

2014 and 2015 Otter and Watervole Surveys

- Watercourses/waterbodies with signs of watervole activity
- Watercourses/waterbodies with signs of otter activity

2014 and 2015 Hazel Dormouse Surveys

- Dormouse Presence
- Possible Dormouse Presence

Areas Important for Birds

- Important area for Cetti's Warbler
- Important area for wintering birds

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Environmental Statement

Ecology Survey Key Findings - Protected and Notable Species

Figure: 10.8c	Revision:
Date: March 2016	Status: AT ISSUE
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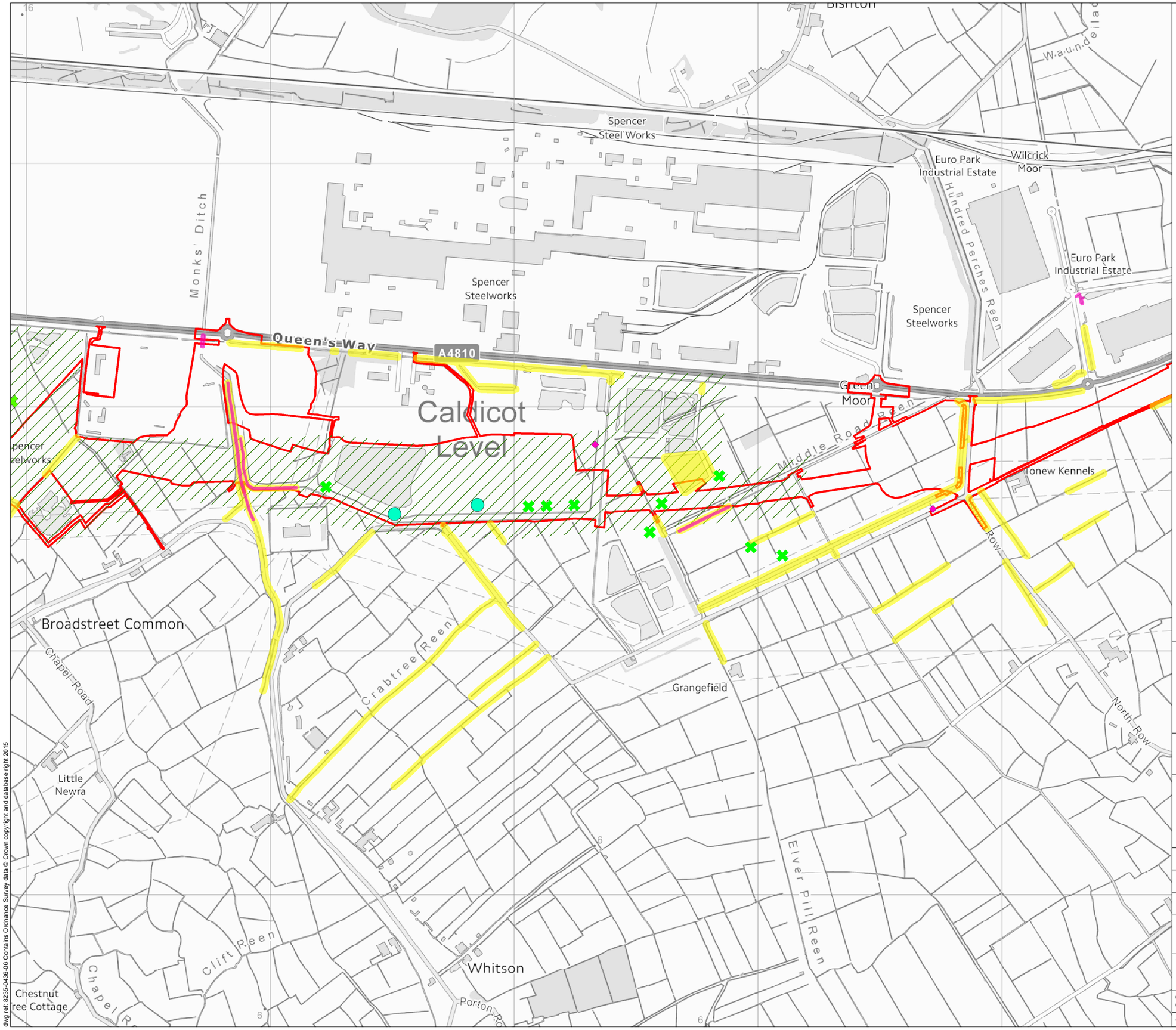
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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

2014 and 2015 Reptile Surveys

- Grass Snake
- Common Lizard
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2014 and 2015 Great Crested Newt Surveys

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2015 Bat Roost Survey (buildings)

- Confirmed bat roost
- Probable bat roost

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- >1500
- >2500 bat passes recorded during one survey visit

Bat Activity Index 2014

- >500

2014 and 2015 Otter and Watervole Surveys

- Watercourses/waterbodies with signs of watervole activity
- Watercourses/waterbodies with signs of otter activity

2014 and 2015 Hazel Dormouse Surveys

- Dormouse Presence
- Possible Dormouse Presence

Areas Important for Birds

- Important area for Cetti's Warbler
- Important area for wintering birds

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Environmental Statement

Ecology Survey Key Findings - Protected and Notable Species

Figure: 10.8d	Revision:
Date: March 2016	Status: AT ISSUE
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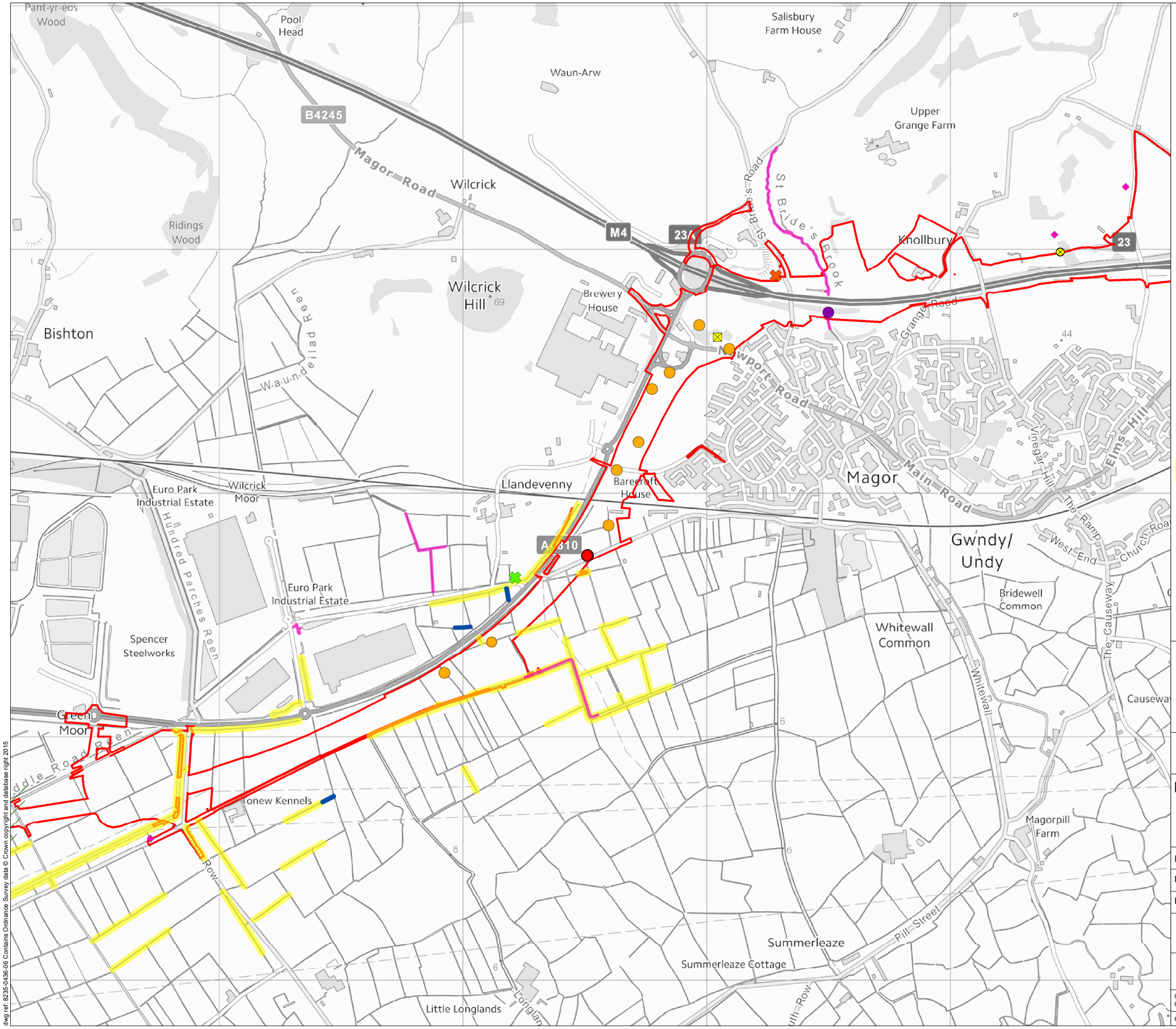
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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

2014 and 2015 Reptile Surveys

- Grass Snake
- Common Lizard
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- Watercourses/waterbodies with signs of otter activity

2014 and 2015 Hazel Dormouse Surveys

- Dormouse Presence
- Possible Dormouse Presence

Areas Important for Birds

- Important area for Cetti's Warbler
- Important area for wintering birds

Llywodraeth Cymru
Welsh Government

Environmental Statement

Ecology Survey Key Findings - Protected and Notable Species

Figure: 10.8e	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

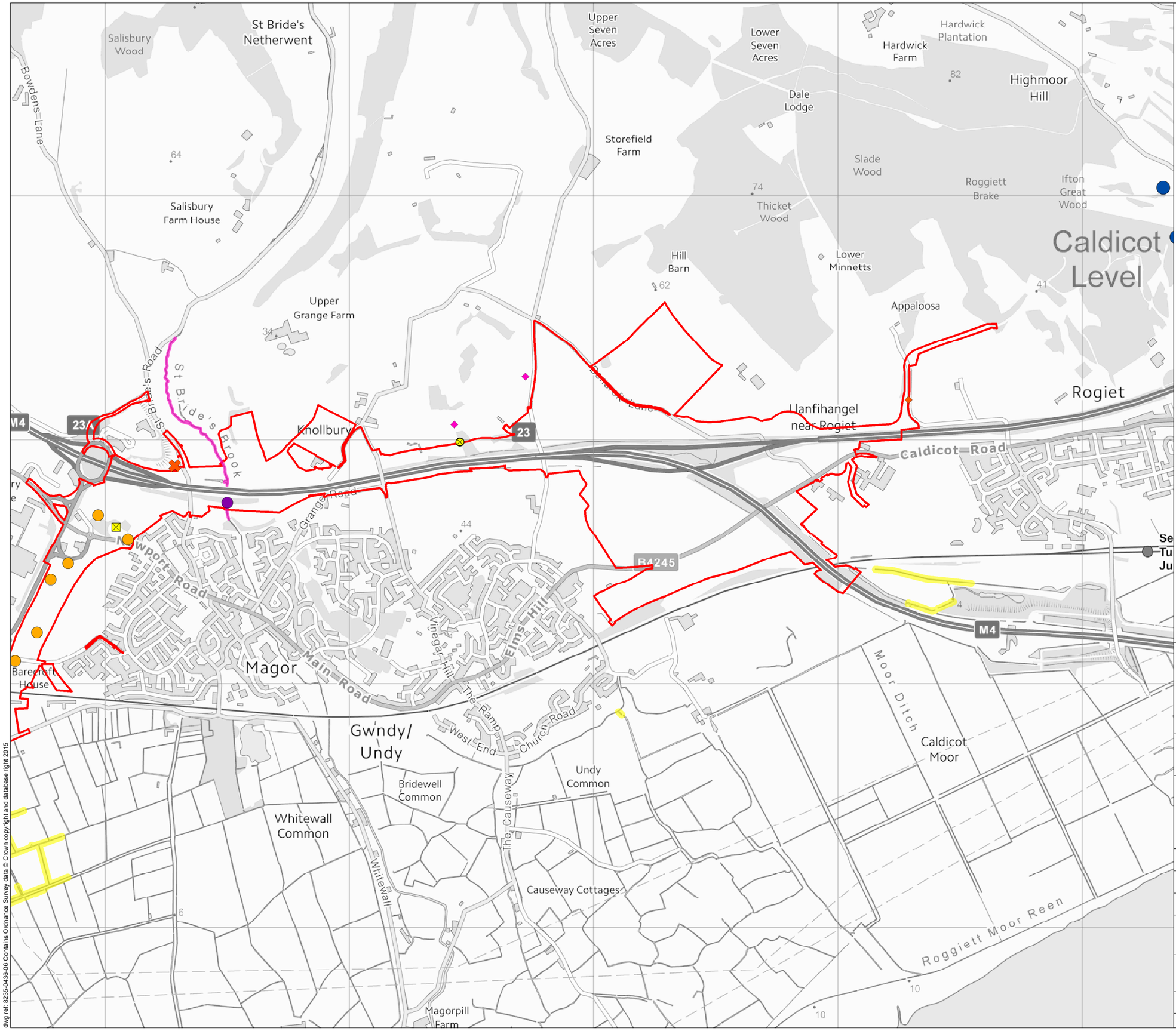
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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

2014 and 2015 Reptile Surveys

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- Common Lizard
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2015 Bat Roost Survey (buildings)

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- Watercourses/waterbodies with signs of watervole activity
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- Dormouse Presence
- Possible Dormouse Presence

Areas Important for Birds

- Important area for Cetti's Warbler
- Important area for wintering birds

Llywodraeth Cymru
Welsh Government

Environmental Statement

Ecology Survey Key Findings - Protected and Notable Species

Figure: 10.8f	Revision:
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

Scale: A3 @ 1:15,000
0 305 610m

N

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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

Plants

- Azolla species
- Canadian pondweed
- Cotoneaster
- Floating Pennywort
- Giant Hogweed
- Himalayan balsam
- Japanese knotweed
- Least Duckweed
- New Zealand pygmyweed
- Nuttall's waterweed

Animals

- Mink

Llywodraeth Cymru
Welsh Government

Environmental Statement

Invasive Alien Species

Figure: 10.9a	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

Scale: A3 @ 1:15,000

0 250 500m

N

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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

Plants

- Azolla species
- Canadian pondweed
- Cotoneaster
- Floating Pennywort
- Giant Hogweed
- Himalayan balsam
- Japanese knotweed
- Least Duckweed
- New Zealand pygmyweed
- Nuttall's waterweed

Animals

- Mink

Llywodraeth Cymru
Welsh Government

Environmental Statement

Invasive Alien Species

Figure: 10.9b	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

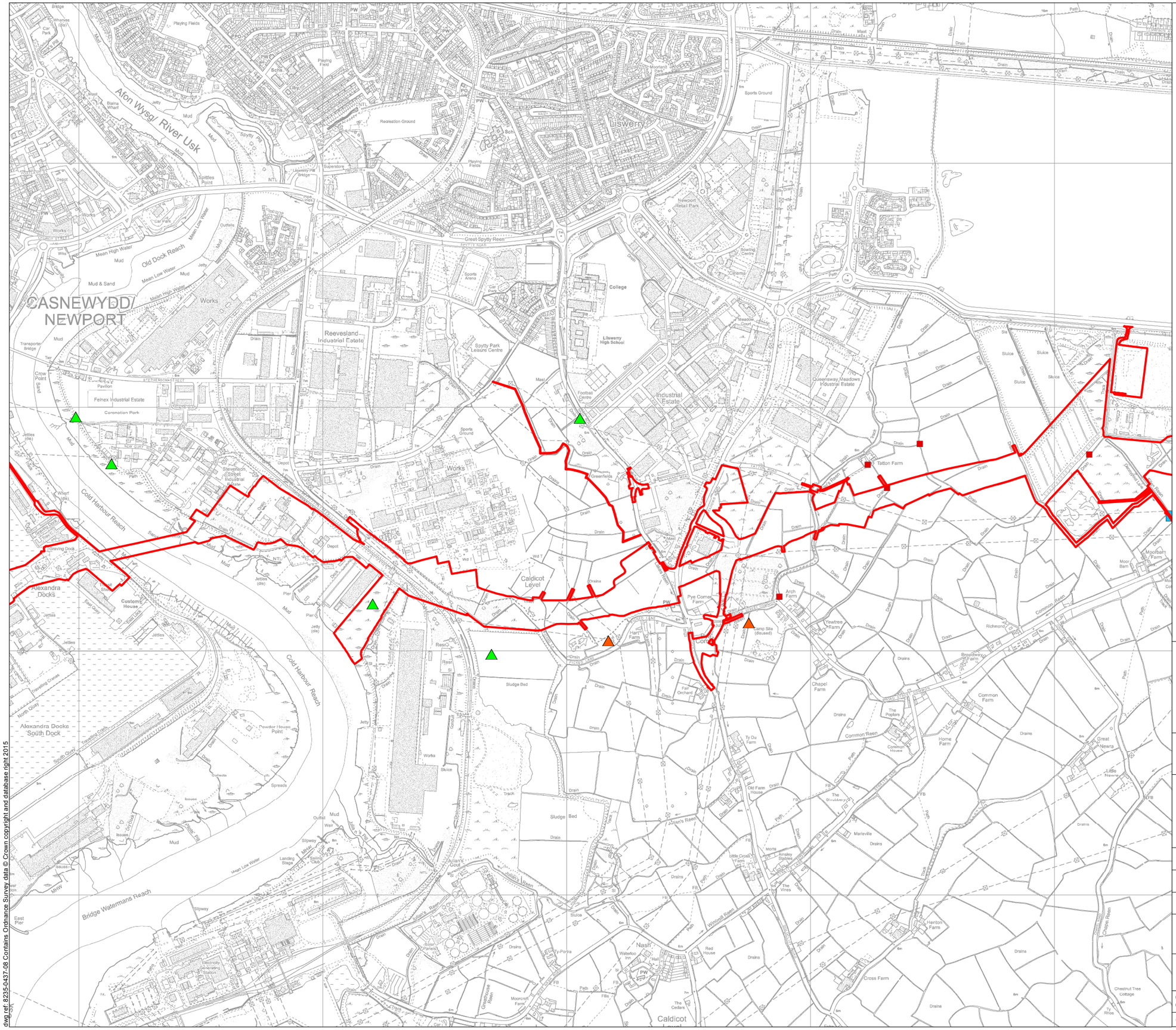
Scale: A3 @ 1:15,000
0 250 500m

N

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Afon Wysg/ River Usk
CASNEWYDD/
NEWPORT
Llwynderi
Great Spytty Reen
Reevesland Industrial Estate
Spytty Park Leisure Centre
Lliswerry High School
Industrial Estate
Queensway Meadows Industrial Estate
Newport Retail Park
College
Cinema
Bowling Centre
Sports Arena
Velodrome
Sports Ground
Recreation Ground
Old Dock Reach
Cold Harbour Reach
Bridge Watermans Reach
Alexandra Docks
Alexandra Docks South Dock
Caldicot Level
Nash
Caldicot
Tatton Farm
Arch Farm
Pye Corner Farm
Hart Farm
Chapel Farm
Common Farm
Home Farm
Great Newra
Little Newra
Henton Farm
Cross Farm
Moorbarn Farm
Feinex Industrial Estate
Coronation Park
Stevenson Street Industrial Estate
Electricity Generating Station
Sludge Bed
Works
Mean High Water
Mean Low Water
Mud
Mud & Sand
Jetty
Pier
Slipway
Outfall
Weir
Sluice
Drain
Path
Track
Footbridge
Pylon
Mast
Depot
Car Park
Pavilion
Graving Dock
Landing Stage
Sailing Club
Custom House
Powder House Point
Spittles Point
Lliswerry Pill Bridge
Transporter Bridge
Crow Point
Greenfields
Moorcroft Farm
Waterloo Inn
Ty-Ponra
Julian's Reen
Common Reen
Wilcrick Road
Caldicot Road
Stephenson Street
New Dock
Mill Road
Lliswerry Pill Road
Ty Du Farm
Old Farm House
Meadow Court
Marleville
Almsley Stables
Little Cross Farm
The Vines
Richmond
Broadway Farm
Yewtree Farm
Camp Site (disused)
Fair Orchard
The Poplars
The Shrubbery
The Cedars
Red House
Chestnut Tree Cottage
Ty Rhos
Moor Barn
Greenhouse Room
Dingle Reen
Sluice
Sluice
Sluice

Legend

Limit of Permanent and Temporary Works for New Section of Motorway

Plants

- Azolla species
- Canadian pondweed
- Cotoneaster
- Floating Pennywort
- Giant Hogweed
- Himalayan balsam
- Japanese knotweed
- Least Duckweed
- New Zealand pygmyweed
- Nuttall's waterweed

Animals

- Mink

Llywodraeth Cymru
Welsh Government

Environmental Statement

Invasive Alien Species

Figure: 10.9d	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

Scale: A3 @ 1:15,000
0 250 500m

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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

Plants

- Azolla species
- Canadian pondweed
- Cotoneaster
- Floating Pennywort
- Giant Hogweed
- Himalayan balsam
- Japanese knotweed
- Least Duckweed
- New Zealand pygmyweed
- Nuttall's waterweed

Animals

- Mink

Llywodraeth Cymru
Welsh Government

Environmental Statement

Invasive Alien Species

Figure: 10.9e	Revision: -
Date: March 2016	Status: AT ISSUE
Drawn: CR	Checked: KJ

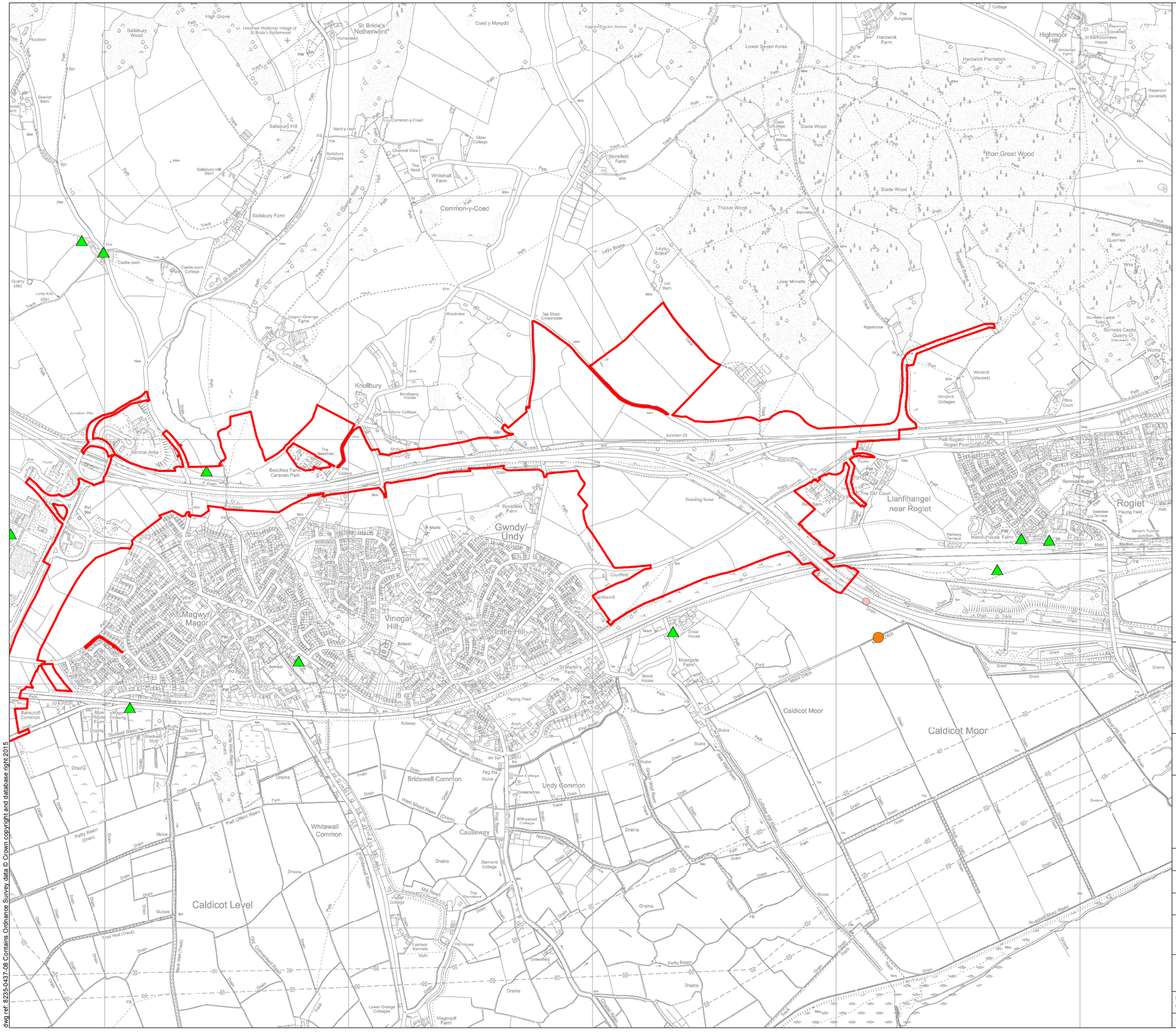
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0 250 500 m

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Legend

Limit of Permanent and Temporary Works for New Section of Motorway

Plants

- Azolla species
- Canadian pondweed
- Cotoneaster
- Floating Pennywort
- Giant Hogweed
- Himalayan balsam
- Japanese knotweed
- Least Duckweed
- New Zealand pygmyweed
- Nuttall's waterweed

Animals

- Mink

Llywodraeth Cymru
Welsh Government

Environmental Statement

Invasive Alien Species

Figure: 10.9f	Revision: -
Date: March 2016	Status: AT ISSUE
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Scale: A3 @ 1:15,000
0 250 500 m

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