F   Appendix F1 - Monmouthshire Flood Risk Review

1.1   Historical Flooding

Monmouthshire has a history of recorded flood events caused by multiple sources of flooding. Significant flood events within the Monmouthshire County Council authority area (which have been taken from NRW's recorded flood outlines dataset and Monmouthshire County Council records and reports on historic flood incidents) are recorded below in Table 5-11.

No records of groundwater flooding or flooding from artificial sources were made available at the time of writing. A summary of the spatial distribution of historic sewer flooding incidents by electoral ward is summarised in Table 5-12.

Table 5-11 Flooding Incidents by year

Year of Flood Event	Flood Incident
April 1947	NRW's historic flood dataset indicates flooding in Monmouth and villages upstream on the River Trothy and the River Monnow. The source of flooding is believed to be from these watercourses.
December 1979	NRW's historic flood dataset indicates flooding in Abergavenny, Usk and smaller settlements on the banks of the River Usk.
December 1981	The LFRMS details this event as the largest tidal event on record for the Wye and Usk estuaries. No further details are given on the extent of flooding or number of properties affected.
1993, 2001, 2002, 2003	The PFRA details that 16 properties were flooded on the A466 and Raglan Road areas during these time periods. The source of the flooding was from culverts upstream of these areas where the capacity was constrained.
October 2008	The PFRA highlights that heavy storms in 2008 caused flooding of 12 properties in the Buckholt area.
October 2019	Flooding in Skenfrith where 18 properties were recorded to have experienced significant flooding. The source of the flooding was from overtopping of the Norton Brook and River Monnow. Significant flooding also occurred at Forge Road, Monmouth.
February 2020	Flooding in Monmouth, Caldicot, Usk, Llanwenarth and Llanbadoc as a result of Storm Dennis and Storm Jorge. 31 properties were recorded to have experienced internal flooding in the county, but the actual figure is likely to be higher. The source of the flooding was from the

	River Wye, River Usk and several smaller watercourses in the county.
	It is understood that approximately 180 properties are known to have suffered internal flooding across Monmouthshire during Storm Dennis.
Unknown	The PFRA details that Blake Street, Wyesham and Monmouth were affected by flooding, the source of flooding was not indicated. Surface water flooding was also experienced in Kymin.

The PFRA contains additional information on flood extents across Monmouthshire, however the exact nature and details of these flood events are not available. It is understood that there were at least 50 reports of residential property flooding in December 2020 alone.

Section 19 flood investigations can be found on Monmouthshire Council's website, these investigations cover areas affected by Storm Dennis including:

- Caldicot
- Woodside Usk
- Llanwenarth
- Llanbadoc Usk

Table 5-12 Sewer Flooding Incidents by Electoral Ward

Electoral Ward	Number of sewer flooding incidents
Caerwent	27
Cantref	25
Castle	9
Croesonen	1
Crucorney	4
Dewstow	1
Dixton with Osbaston	4
Drybridge	1
Goetre Fawr	3
Green Lane	8
Langstone	1
Lansdown	3
Llanelly Hill	6
Llanfoist Fawr	3
Llangybi Fawr	1
Llanwenarth Ultra	2
Mardy	3
Overmonnow	1
Priory	26
Raglan	4
Shirenewton	10
St. Arvans	2

St. Christopher's	3
The Elms	4
Thornwell	1
Tidenham	4
Trellech United	1
Usk	6
West End	2
Wyesham	1

1.2 Fluvial

The River Usk, River Wye, Olway Brook and Pill Brook are the main watercourses in Monmouthshire. Other important watercourses in Monmouthshire include the River Monnow and Neddern Brook, Caldicot and Mill Reen and Magor. These watercourses are all classified as NRW Main Rivers. Maps showing the extent of the flood outlines from the NRW FMfP- Rivers in Monmouthshire are provided in Appendix F.

The River Usk rises in the Brecon Beacons before entering the county of Monmouthshire to the north-west of Abergavenny prior to flowing in a southerly direction. The Olway Brook rises to the south of Raglan and flows in a southerly direction where it is joined from the east by the Pill Brook. The Olway Brook converges with the River Usk just south of the town of Usk. The River Usk then continues to flow south towards the Newport local authority area and the Severn Estuary.

The River Wye rises in the Cambrian Mountains in mid Wales before flowing in a south easterly direction towards Monmouthshire. The river enters the county at its northern most extent in Llanthony before flowing through Monmouth and Chepstow, forming the eastern boundary of the county. The River Wye discharges into the Severn Estuary at Chepstow.

Due to the nature of the topography in the county, floodplains are wide and flat allowing water to cover large areas. The key settlements of Abergavenny, Monmouth, Usk and Magor are largely located in Flood Zone 3 with several smaller villages along these main watercourses also falling into Flood Zone 3.

NRW flood defences, with a standard of protection of 1 in 100 years, are present alongside the River Usk through the town of Usk. NRW defences are also located alongside the River Wye in Monmouth. The River Wye defences have a standard of protection of 1 in 100 years. The areas behind both flood defences are classified as NRW TAN-15 Defended Zones.

There are three Monmouthshire County Council managed flood defences in the county, these are:

- Blake Street, Wyesham, Monmouth
- Station Road, Abergavenny
- Wonastow Road Pumping Station

It is unclear as to the form of these flood defences, their standard of protection, or the areas benefitting from them. They do not contribute to the TAN-15 Defended Zones.

Schemes involving localised drainage improvements and Property Flood Resilience (PFR) measures have not been included.

Fluvial Flood Risk & TAN-15

Flood defences found in the town of Monmouth and Usk are maintained by NRW. As a result of these flood defences, parts of the fluvial floodplain in Monmouth and Usk is categorised as a TAN-15 Defended Zone. Therefore, all forms of development are possible subject to satisfying the requirements of the Justification Tests.

There are extensive areas of Flood Zone 3 without defences in many existing settlements such as Monmouth, Abergavenny, as well as small parts of Usk, Caldicot and Magor. New highly vulnerable development within these areas is unlikely to be possible, as Flood Zone 3 is not suitable for highly vulnerable development. Less vulnerable development shall only be possible subject to the stringent Justification Tests outlined in TAN-15. Development in these areas shall be subject to site specific assessment and detailed flood modelling shall be required. Due to the lack of protection from NRW flood defences, any proposed development is likely to require flood mitigation considerations and may be more challenging to meet TAN-15 requirements.

1.3 Tidal

The Severn Estuary is a potential source of tidal flooding to the southern parts of Monmouthshire. The River Usk also causes a tidal flood risk to rural areas in the west of the county. Tidal flooding is most likely to occur during storm surge conditions that is characterised by wind-driven waves and low atmospheric pressure and high spring tides. In areas protected from flooding by sea defences, tidal flooding can occur as a result of a breach in the defences, failure of a mechanical barrier or overtopping of defences.

The NRW FMfP - Sea, shown in Appendix F, identifies that Caldicot, Magor and Portskewett are the main areas at risk of flooding from the sea in Monmouthshire due to their location in Flood Zone 3. NRW flood defences are present along the Caldicot levels which have a standard of protection of 1 in 200 years in the majority of areas.

Tidal Flood Risk & TAN-15

Flood defences found along the tidal rivers in Monmouthshire and around its coastline are maintained by NRW. As a result of these flood defences, part of the tidal floodplain to the south of Undy is categorised as a TAN-15 Defended Zone. Therefore, all forms of development are possible if the requirements of the Justification Test can be satisfied.

No tidal TAN-15 defended zones are present in Caldicot, making highly vulnerable development in these areas challenging. In these tidal areas it is known that the application of climate change results in a large tidal flood extent with significant depths of flooding. This increase in flood risk may make it difficult to meet the requirements of the acceptability criteria of TAN-15.

Less vulnerable development should only be considered in Flood Zone 3 subject to application of the Justification Test and acceptability of consequences. It is likely that flood mitigation measures will be required for developments in these areas. Development in these areas shall be subject to site specific assessment and detailed modelling shall be required. Opportunities for highly vulnerable development should be located in areas outside Flood Zone 3.

A small part of Chepstow is located in Flood Zones 2 and 3 from the tidally influenced River Wye. Developments should be located outside of Zone 2 and 3 where possible with highly vulnerable development located in areas outside Flood Zone 3.

1.4 Surface water and smaller watercourses

The NRW FMfP- Surface Water and Small Watercourses in Appendix F shows surface water flooding is predicted to predominantly follow topographical flow paths of existing watercourses or dry valleys in rural parts of the county.

The town of Usk has the greatest risk of surface water and small watercourse flooding, with many areas located within Flood Zone 3. However, flooding in Usk is mostly limited to the rural outskirts of the town, rather than the town centre. Parts of the urban areas within Abergavenny, Monmouth and Caldicot are located within Flood Zones 2 and 3 and are at the greatest risk of surface water flooding.

Surface Water Flood Risk & TAN-15

All development types are permissible in Flood Zone 2 and 3 provided that acceptability criteria in TAN-15 can be met. Development in these areas shall be subject to site specific assessment which should consider flow pathways, potential ground levelling for topographic depressions and how SuDS can be used to manage surface water flow across a development site. Developers should consult the LLFA for any specific knowledge related to surface water and small watercourse flooding at a proposed development site. Due

to the localised surface water flooding in the main settlements of Abergavenny, Monmouth, Usk and Caldicot, developments should be located outside of Zone 2 and 3 where possible.

1.5 Groundwater

The bedrock geology across the Monmouthshire County is varied but predominantly comprised of Mudstone, Siltstone and Sandstone. Mudstone tends to have low porosity and permeability whilst sandstone is regarded as more permeable and allows for the storage and movement of groundwater. As a result, upward percolation of groundwater and subsequent flooding should be considered in these areas. In the southern part of the county, the bedrock is predominantly comprised of limestone and sandstone. These rocks are more permeable and allow for the storage and movement of groundwater.

Areas of superficial deposits in Monmouthshire are limited and are predominantly present around the rivers in the county. The superficial deposits overlaying the bedrock in the Monmouthshire County authority area are comprised in some areas of clay which is predominantly impermeable, and in others of Till which is generally permeable. The variation of superficial deposits throughout the Monmouthshire County suggests that groundwater flooding could present a localised risk to some areas. Maps showing the indicative Groundwater flood depth in Monmouthshire are provided in Appendix F.

The majority of the county has groundwater that is at least 5m below the ground surface or lower. In the southern part of the county around Magor, Caldicot and Portskewett groundwater levels are within 0.5 and 0.025m of the ground surface; this indicates that there is a greater risk of groundwater flooding in these areas.

Towns and villages along the River Usk from Abergavenny to Usk are also identified as areas where groundwater levels are within 0.5 and 0.025m of the ground surface. These areas are mainly found within close proximity to the River Usk and indicate that groundwater flooding in these areas is more likely.

Groundwater Flood Risk & TAN-15

TAN-15 does not specify any requirements for groundwater flood risk, other than the risk of groundwater flooding should be considered as part of an FCA. However, it would be advisable to locate developments away from areas where groundwater is less the 0.025m below the ground surface without further groundwater monitoring and detailed assessment being undertaken.

1.6 Sewer flooding

DCWW is responsible for sewer infrastructure across the study area and recording sewer flooding incidents.

DCWW have provided detail of historic incidents and active risk areas. Historical flooding incidents are recorded relating to public foul, combined or surface water sewers. These records display the number of properties that experienced internal and/or external flooding. A summary of the spatial distribution of historic sewer flooding incidents by electoral ward is summarised in Table 5-12 in Section 5.6.1. This data shows that the wards with the highest number of flood incidents are the Caerwent, Priory and Cantref wards with 27, 26 and 25 sewer flood incidents recorded, respectively. The remaining wards have all experienced less than 10 incidents of sewer flooding since this record began. DCWW are working to reduce the number of sewer flood incidents by investing in maintenance and improvements to the sewer network.

DCWW has not provided any information regarding the predicted flood risk from the sewerage network.

Flood Risk from Sewers & TAN-15

TAN-15 does not specify any requirements for sewer flood risk, other than that it should be considered as part of a FCA. The LLFA and DCWW should be consulted to provide specific advice on any known history of sewer flooding and any remedial action taken.

1.7 Artificial flooding

Artificial sources of flooding include numerous reservoirs upstream of the county which pose a flood risk to Monmouthshire. Maps showing the potential flood risk from reservoirs are provided in Appendix F. The reservoirs which pose a flood risk to the county are:

- Cray Reservoir
- Llyn Y Fan Fawr Reservoir
- Usk Reservoir
- Llandegfedd reservoir
- Talybont reservoir

The NRW FRAW Flood Risk from Reservoirs mapping indicates that Abergavenny, Usk and Caerleon where the floodplains are flat and wide are identified as the areas most affected due to a reservoir breach or overtopping.

The failure of a reservoir can cause catastrophic damage due to the sudden release of large volumes of water. Reservoirs in the UK have an excellent safety record, and NRW is the enforcement authority for the Reservoirs Act 1975 in England and Wales. All large reservoirs must be inspected and supervised by reservoir panel engineers. It is assumed that these reservoirs are regularly inspected, and essential safety work is carried out. These reservoirs, therefore, present minimal risk.

1.8 Changes in understanding of flood risk

Future FMfP improvements

The locations listed below are covered by existing detailed NRW flood models which are expected to be incorporated into the Flood Map for Planning through future routine updates. Where NRW have provided an indication of timescales for these updates, this is provided in brackets.

- Llanfoist (River Usk) (December 2020)
- Usk Town (unknown)
- Olway Brook (unknown)
- Cibi Brook (unknown)
- Tidal Flood Mapping (unknown)
- Caldicot and Wentlooge (unknown)
- Monmouth (unknown)
- River Ebbw Lower (unknown)
- Liswerry (unknown)

KEY

▭ (green outline)	Monmouthshire County Council
+‒+‒+ (red)	Flood Defences-Rivers and Sea

FMFP Rivers and Sea

� (light blue)	Zone 2
▭ (blue)	Zone 3

TAN15 Defended Zones

▨	Rivers
▧	Sea
▩	Rivers and Sea

Notes
The TAN15 Defended Zones have been created for the areas behind flood defences managed and maintained by Risk Management Authorities that have a minimum, Present Day Standard of Protection of 1% (1 in 100) annual event probability (AEP) for rivers, or 0.5% (1 in 200) annual event probability (AEP) for the sea plus climate change and freeboard.

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Flood Map for Planning – Rivers and Sea

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0   2   4   8 Kilometers

KEY

Monmouthshire County Council

Rivers

Zone 2

Zone 3

TAN15 Defended Zones

Rivers

Flood Defences

Fluvial

Fluvial and Tidal

Notes

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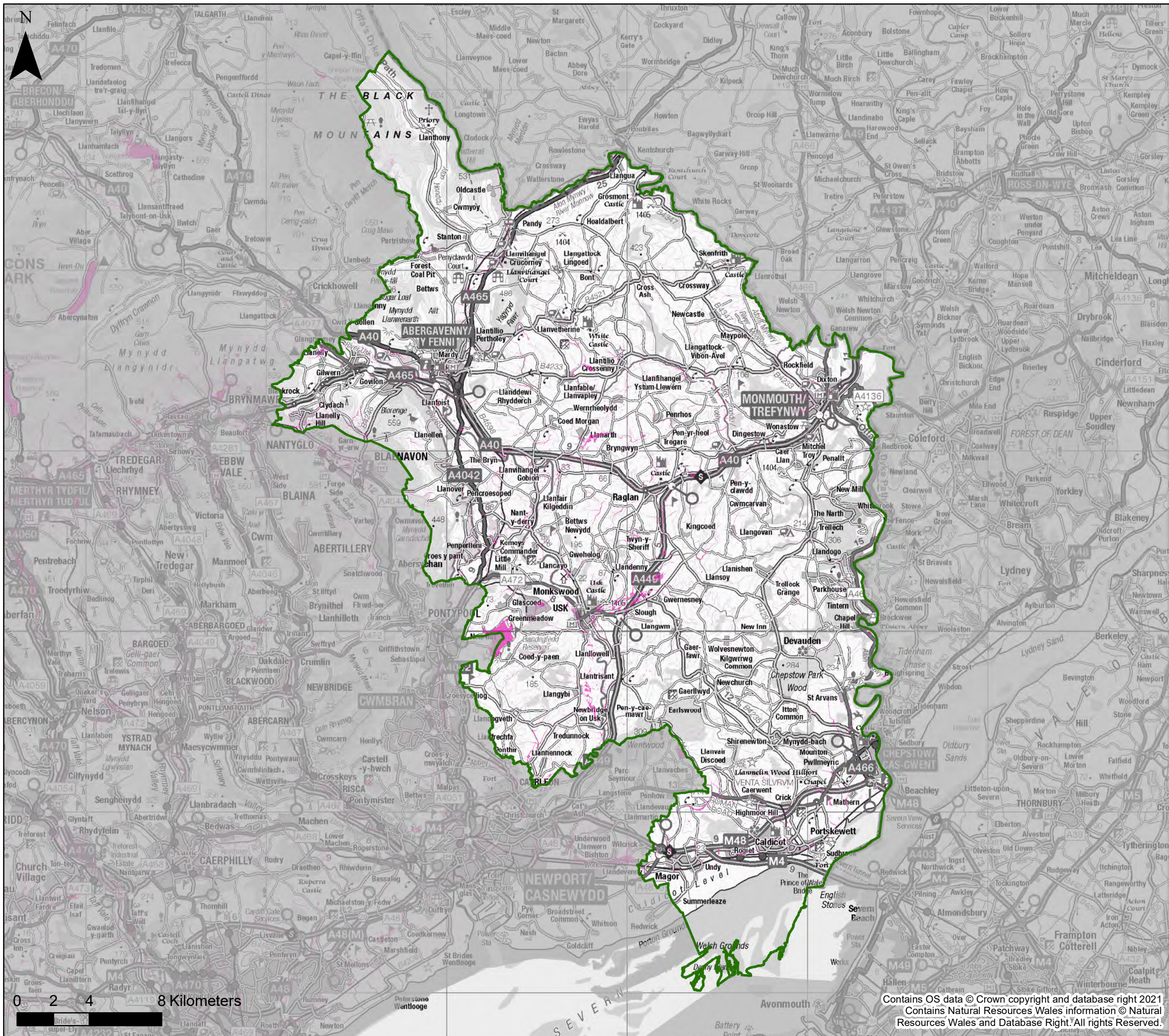
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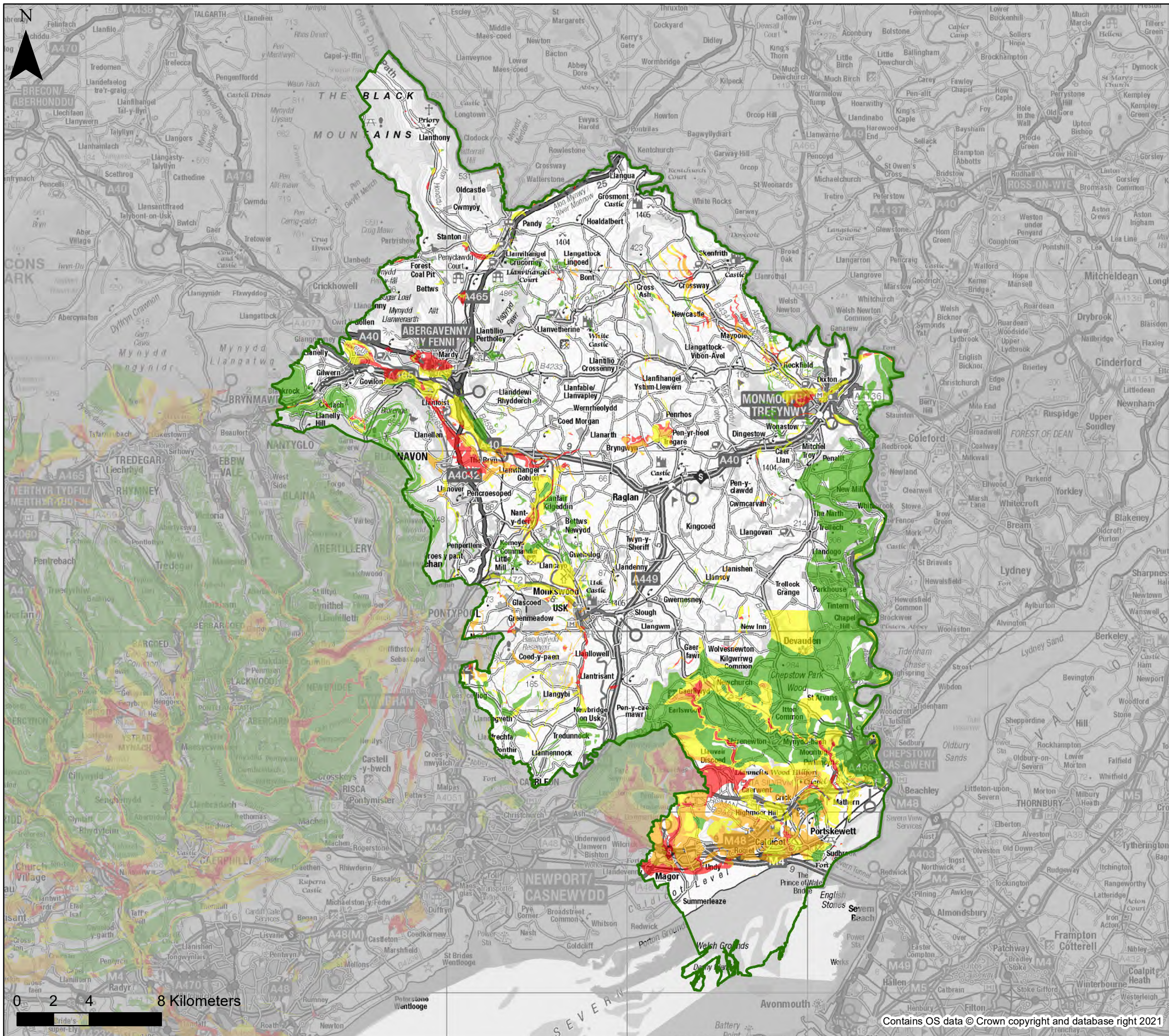
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Rivers

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0 2 4   8 Kilometers

KEY

Monmouthshire County Council

Sea

Flood Zone 2

Flood Zone 3

TAN15 Defended Zones

Sea

Flood Defences

Coastal

Tidal

Fluvial and Tidal

Notes
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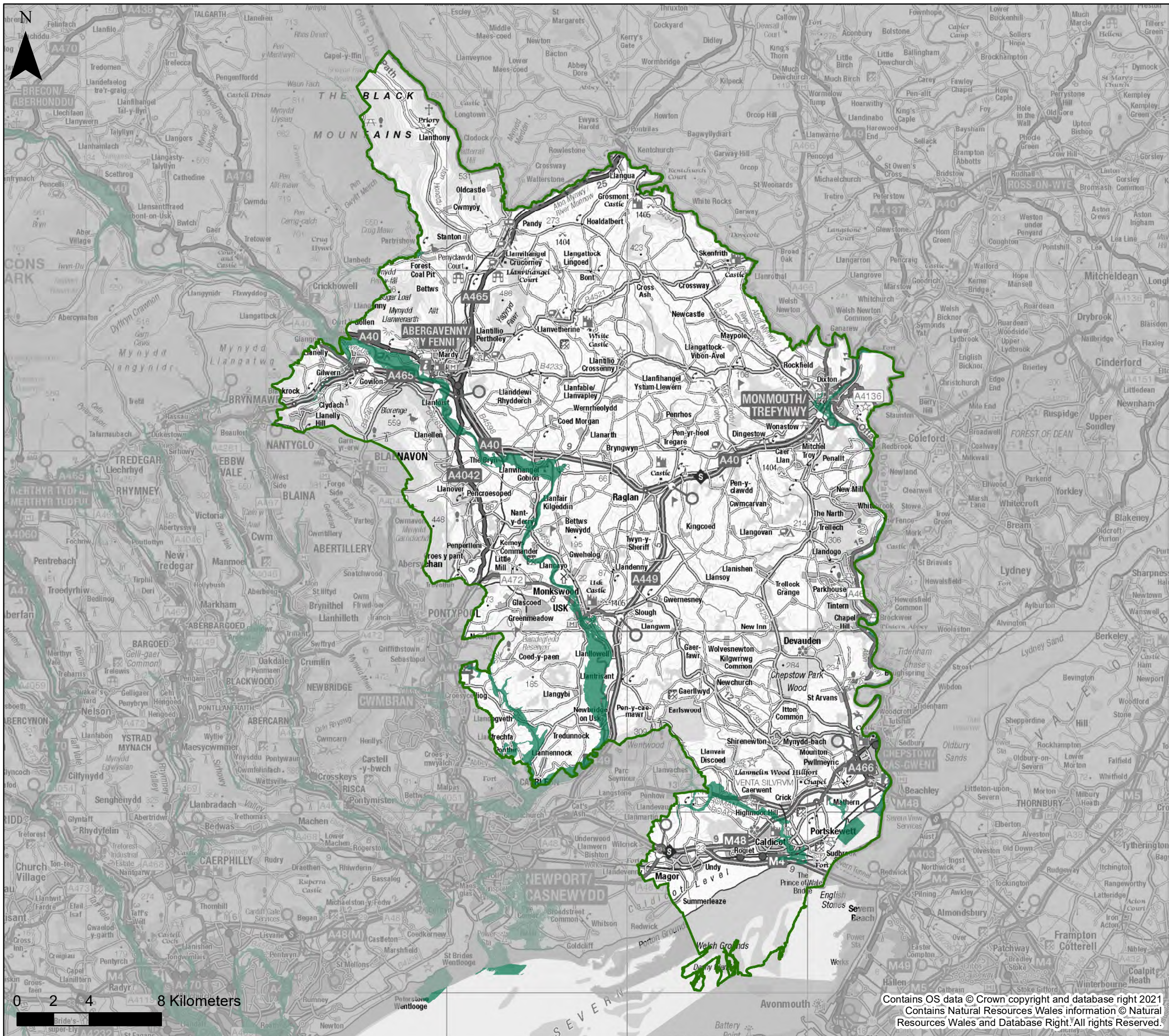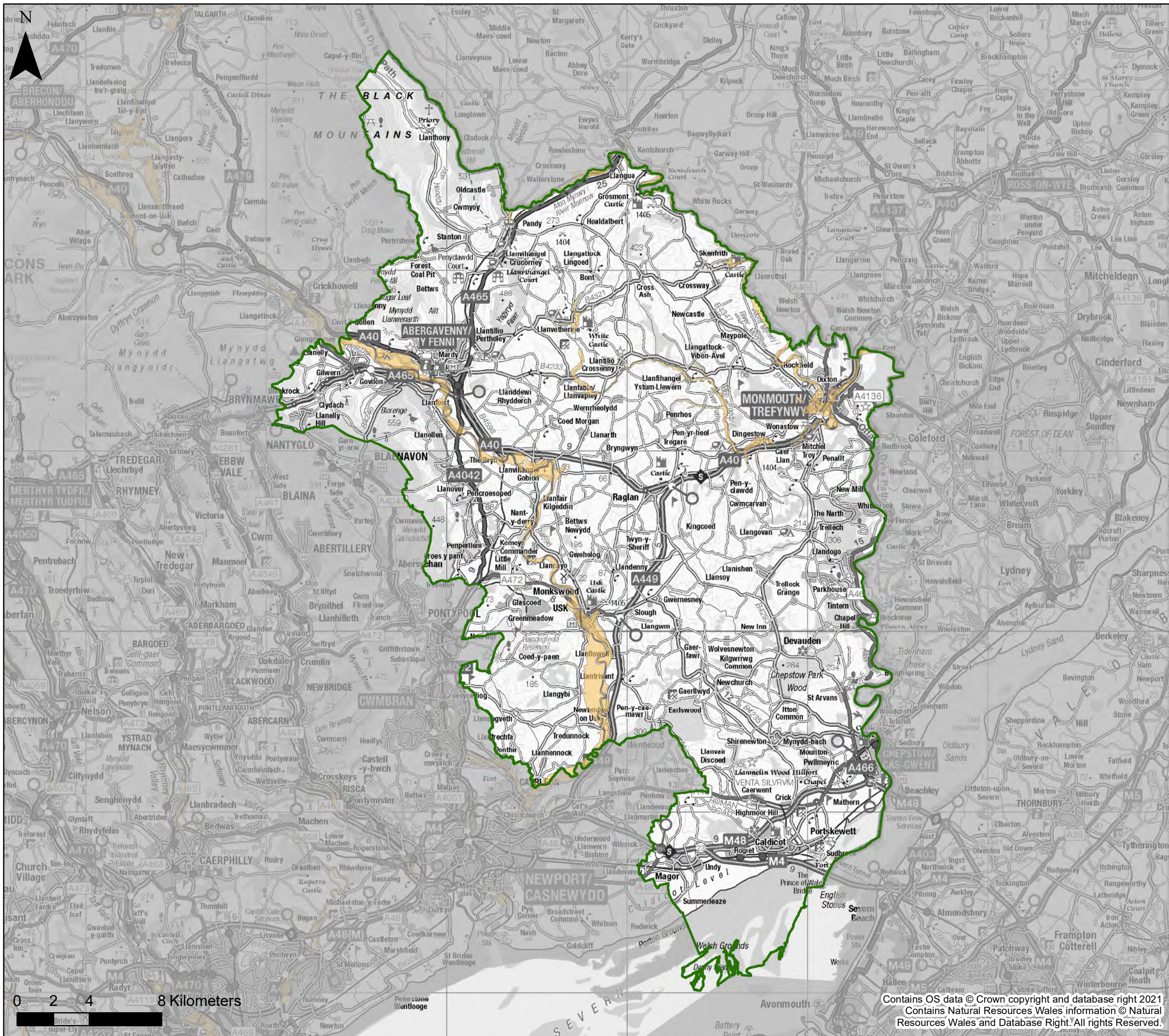
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Flood Map for Planning- Sea

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0 2 4   8 Kilometers

KEY

| | Monmouthshire County Council |

Surface Water and Small Watercourses

| | Zone 2 |
| | Zone 3 |

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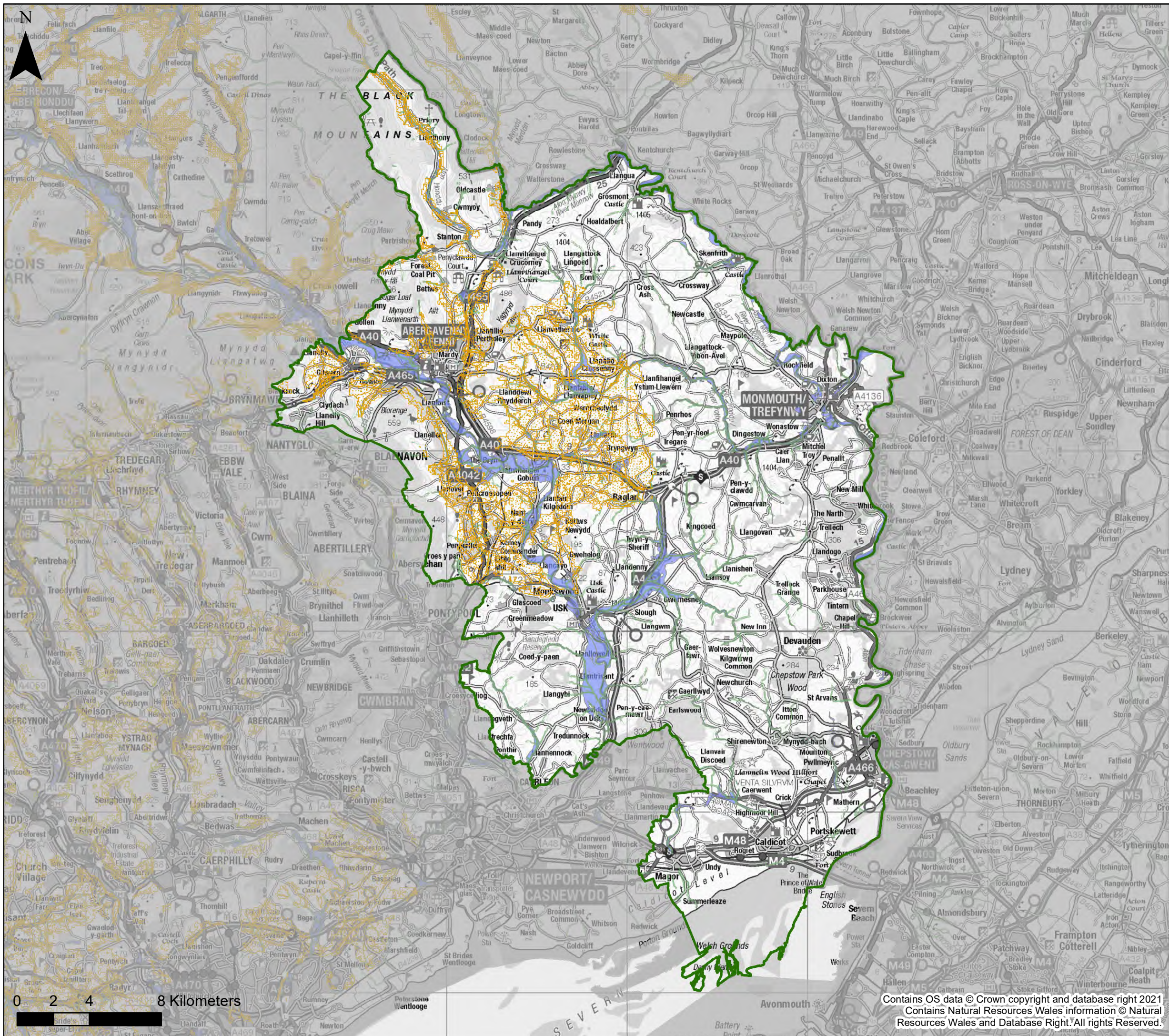
Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Surface Water and Small Watercourses

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0 2 4 8 Kilometers

KEY

Notes
The map provides an indicative assessment of groundwater flood depth on a 5m grid. Please refer to Section 4 of the SFCA Report for further detail of the dataset used to define the potential for groundwater emergence.

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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Groundwater

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0 2 4 8 Kilometers

KEY

Monmouthshire County Council

Flood Risk from Reservoirs

Monmouthshire County Council

Stage 1 Strategic Flood
Consequences Assessment

Flood Risk from Reservoirs

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0 2 4 8 Kilometers

Monmouthshire County Council

Stage 1 Strategic Flood
Consequences Assessment

Historic Flooding

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0   2   4   8 Kilometers

KEY

- — Monmouthshire County Council
- Wider Catchment Woodland Potential
- Riparian Woodland Planting Potential
- Floodplain Woodland Planting Potential

Notes
This map shows areas for woodland planting potential. Further data relating to areas for potential attenuation features is provided as part of the Natural Resources Wales Working with Natural Processes dataset, but these potential attenuation features aren't visible on this scale of mapping. The attenuation features are shown on the local maps.
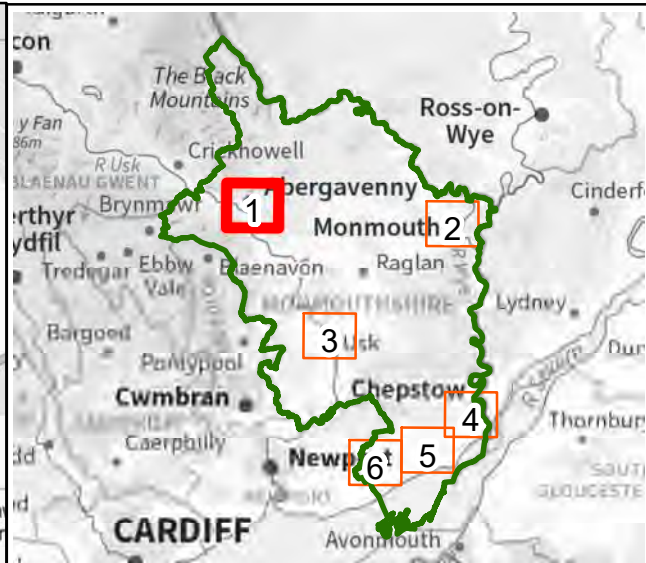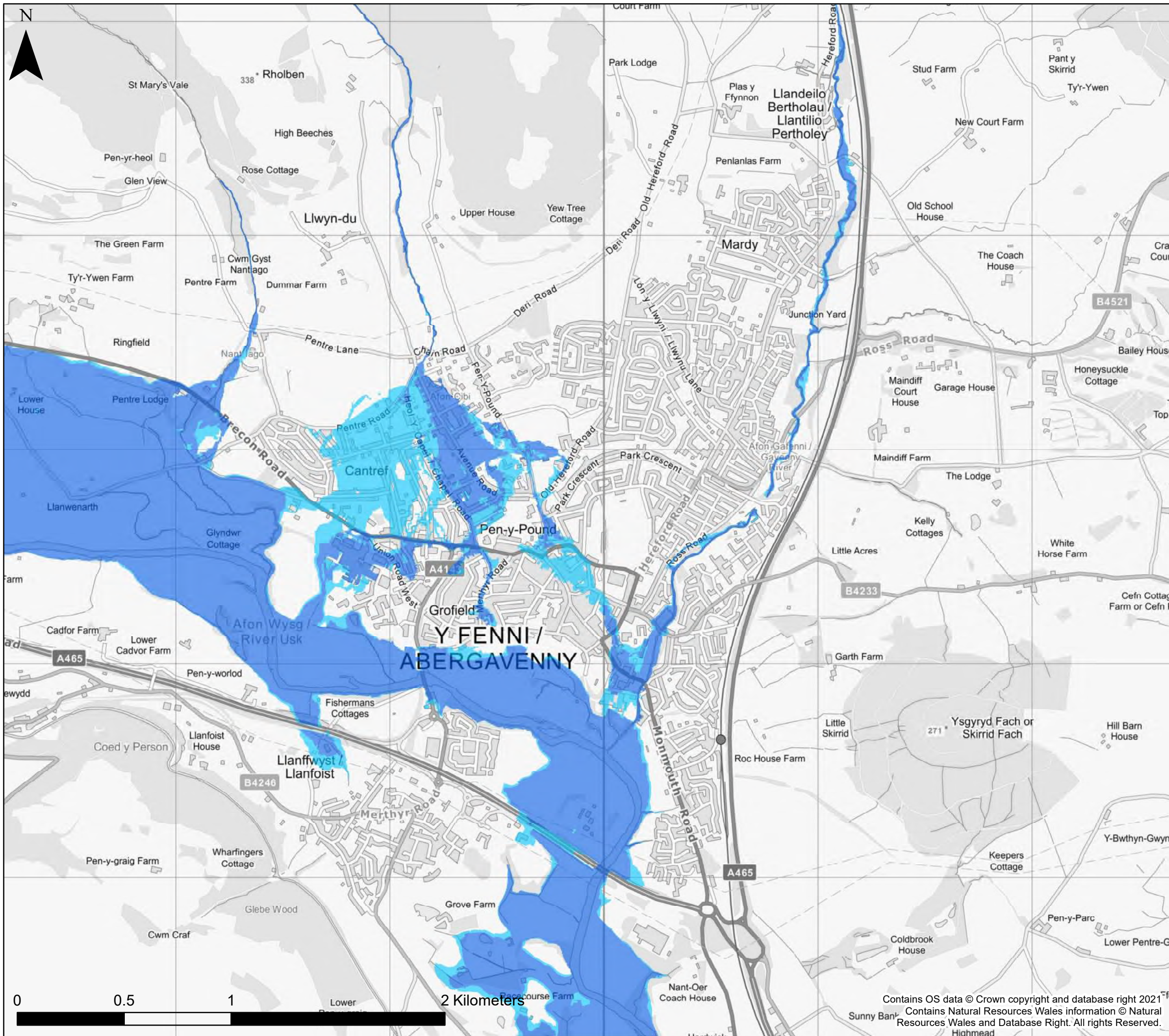
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Stage 1 Strategic Flood
Consequences Assessment

*Working with Natural Processes -
Potential Mapping*

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0   2   4   8 Kilometers

N

0   0.5   1   2 Kilometers

KEY

Monmouthshire County Council
Flood Defences-Rivers and Sea

FMFP Rivers and Sea
Zone 2
Zone 3

TAN15 Defended Zones
Rivers
Sea
Rivers and Sea

Notes
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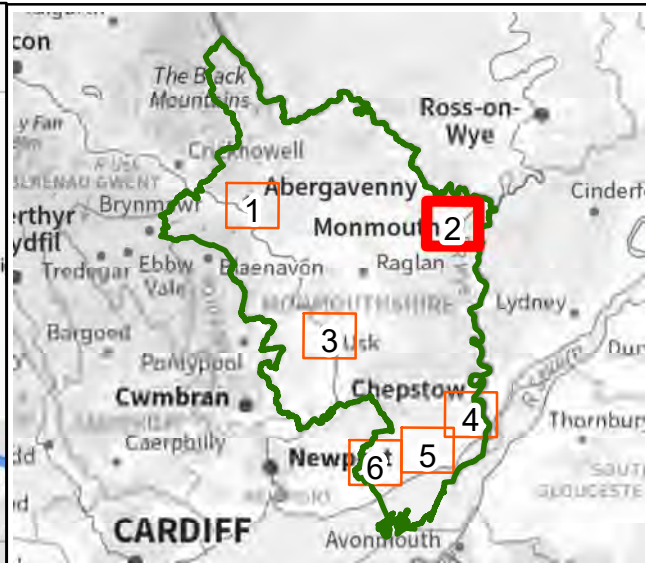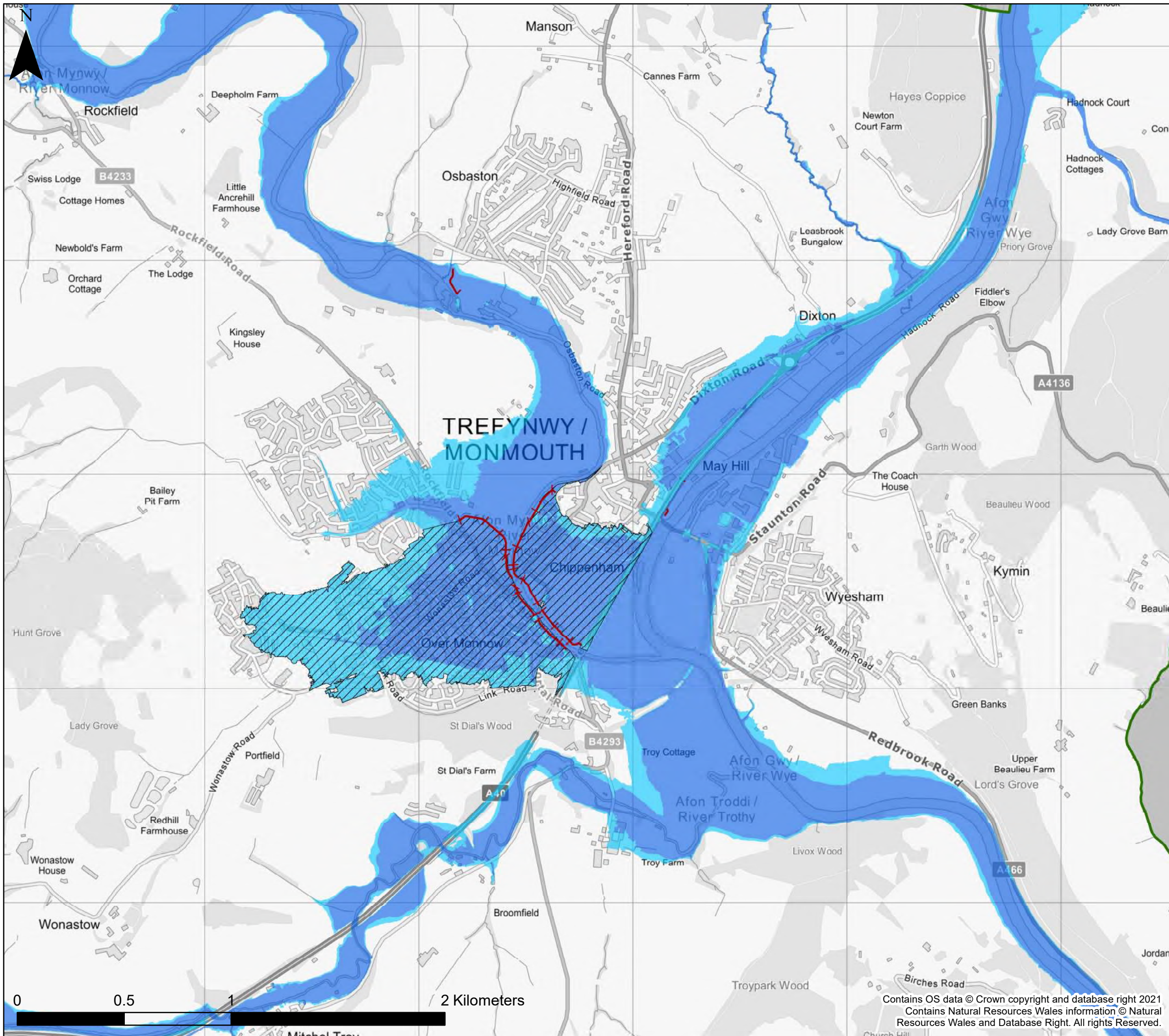
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Monmouthshire County Council
Stage 1 Strategic Flood
Consequences Assessment

Flood Map for Planning – Rivers and Sea

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Manson

Rockfield

Deepholm Farm

Cannes Farm

Hayes Coppice

Newton Court Farm

Hadnock Court

Hadnock Cottages

Swiss Lodge

Cottage Homes

B4233

Little Ancrehill Farmhouse

Osbaston

Highfield Road

Hereford Road

Afon Gwy / River Wye

Priory Grove

Lady Grove Barn

Newbold's Farm

Orchard Cottage

The Lodge

Rockfield Road

Kingsley House

Leasbrook Bungalow

Dixton

Fiddler's Elbow

Dixton Road

Hadnock Road

A4136

Osbaston Road

TREFYNWY / MONMOUTH

May Hill

Garth Wood

Staunton Road

The Coach House

Beaulieu Wood

Bailey Pit Farm

Chippenham

Kymin

Wyesham

Beaulie

Hunt Grove

Over Monnow

Wyesham Road

Lady Grove

St Dial's Wood

B4293

Troy Cottage

Afon Gwy / River Wye

Green Banks

Upper Beaulieu Farm

Wonastow Road

Portfield

St Dial's Farm

A40

Link Road

Dial Road

Afon Troddi / River Trothy

Lord's Grove

Livox Wood

Redhill Farmhouse

Wonastow House

Redbrook Road

A466

Wonastow

Troy Farm

Broomfield

Troypark Wood

Birches Road

Jordan

0   0.5   1   2 Kilometers

KEY

Ross-on-Wye
The Black Mountains
Abergavenny
Monmouth
CARDIF
Newport
Chepstow
Avonmouth

Monmouthshire County Council

Flood Defences-Rivers and Sea

FMFP Rivers and Sea

Zone 2

Zone 3

TAN15 Defended Zones

Rivers

Sea

Rivers and Sea

Notes

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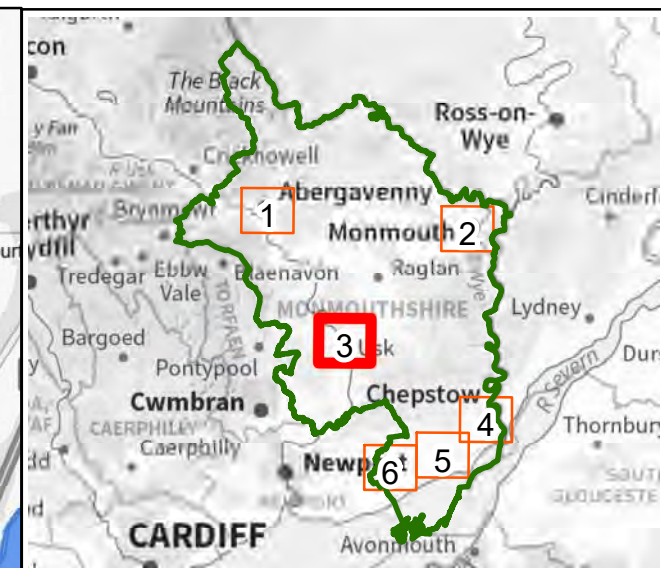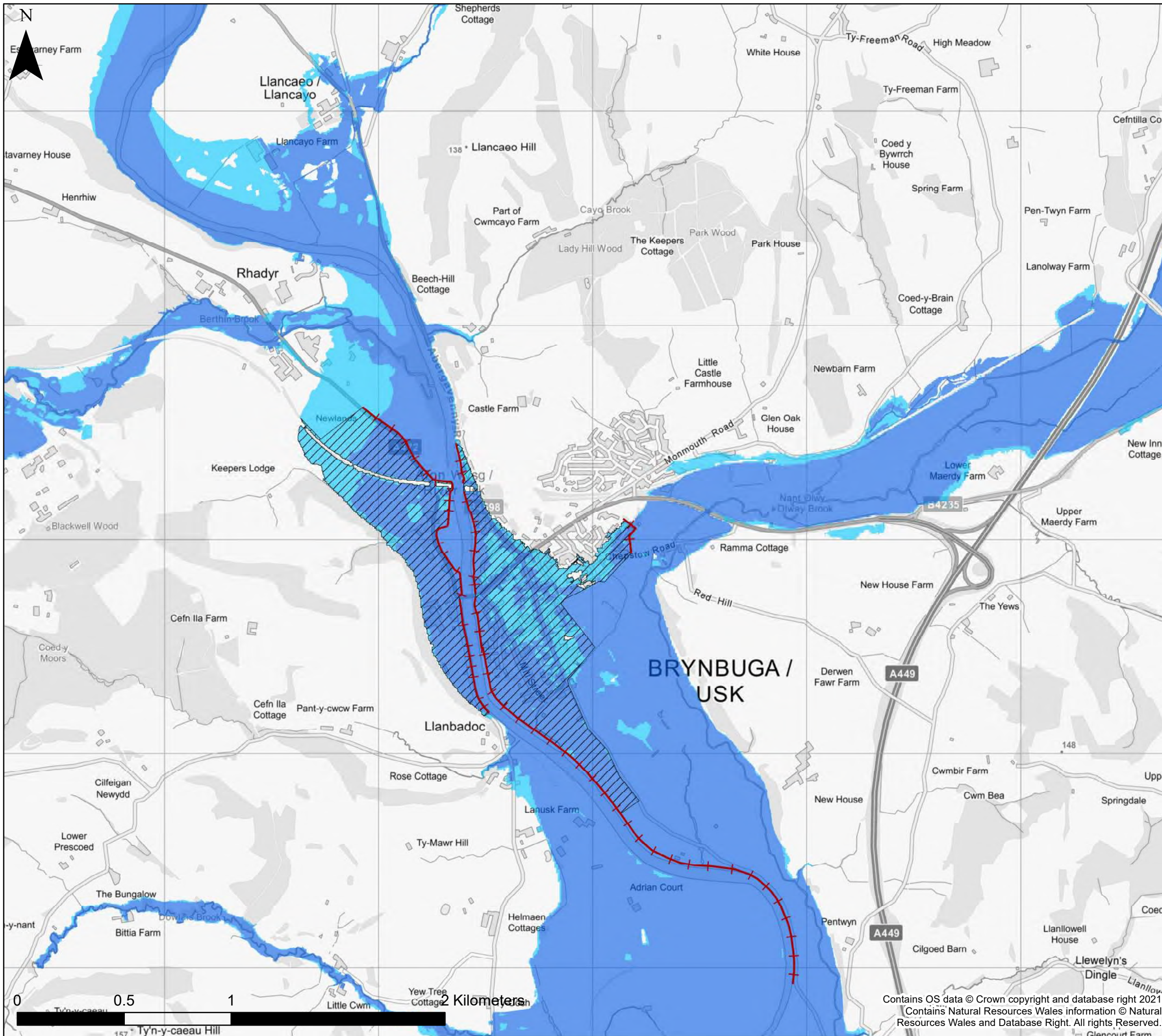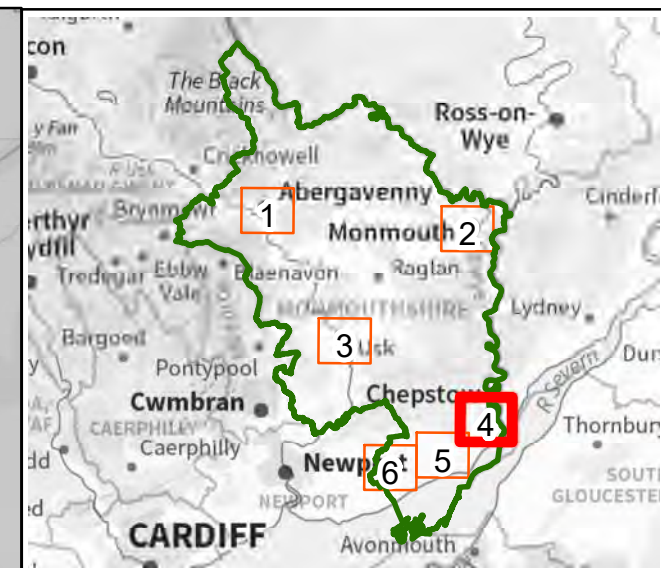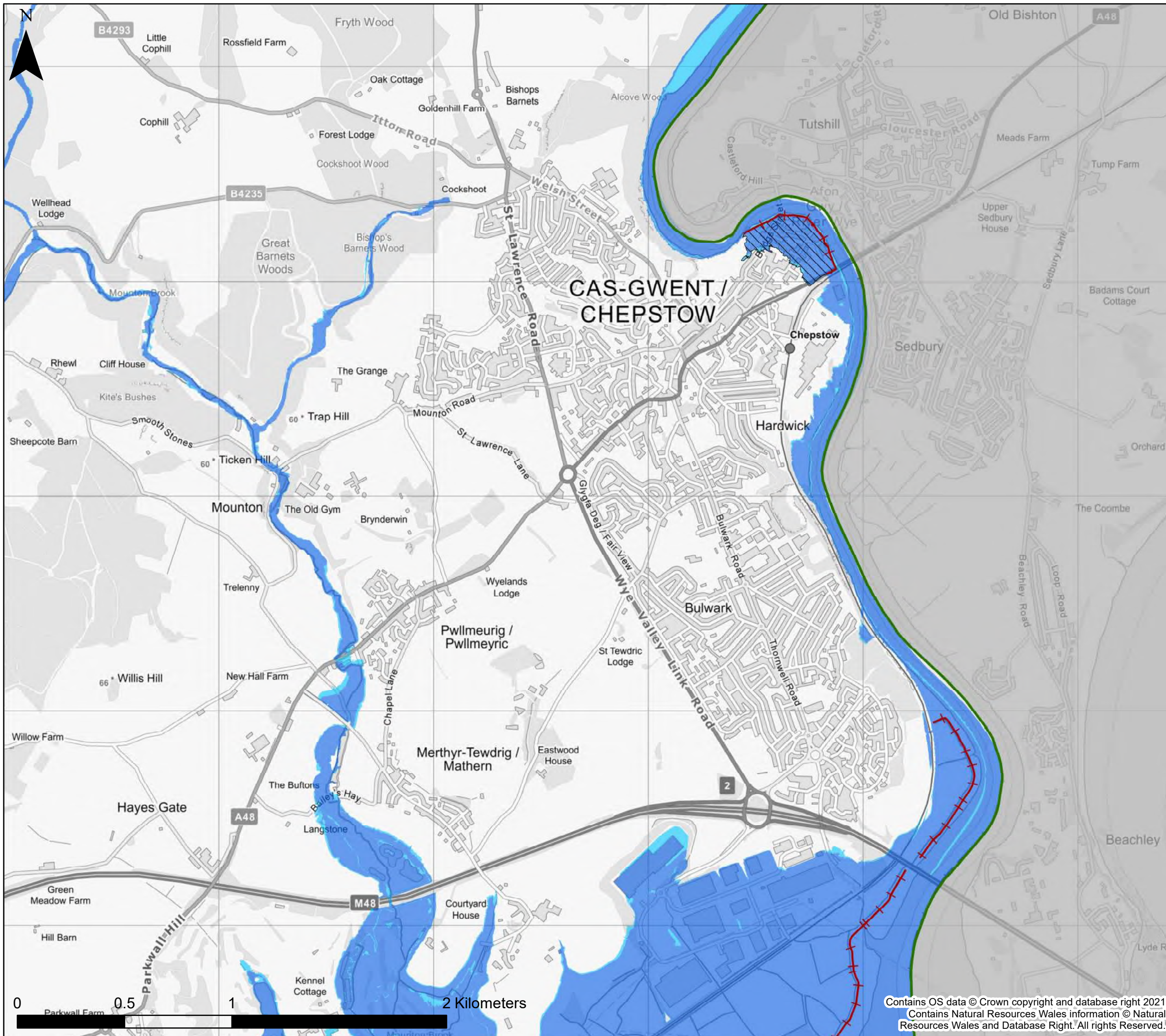
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Monmouthshire County Council
Stage 1 Strategic Flood
Consequences Assessment

Flood Map for Planning – Rivers and Sea

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2 of 6	Checked	DB	15/12/2021
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KEY

Monmouthshire County Council
Flood Defences-Rivers and Sea

FMFP Rivers and Sea
Zone 2
Zone 3

TAN15 Defended Zones
Rivers
Sea
Rivers and Sea

Notes
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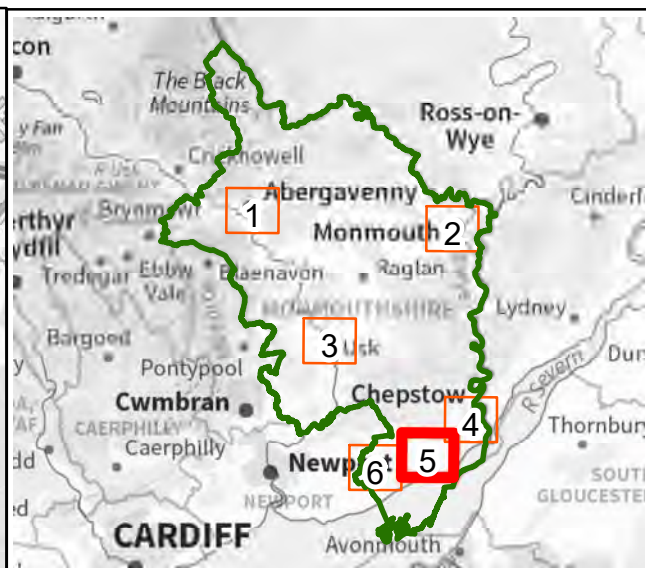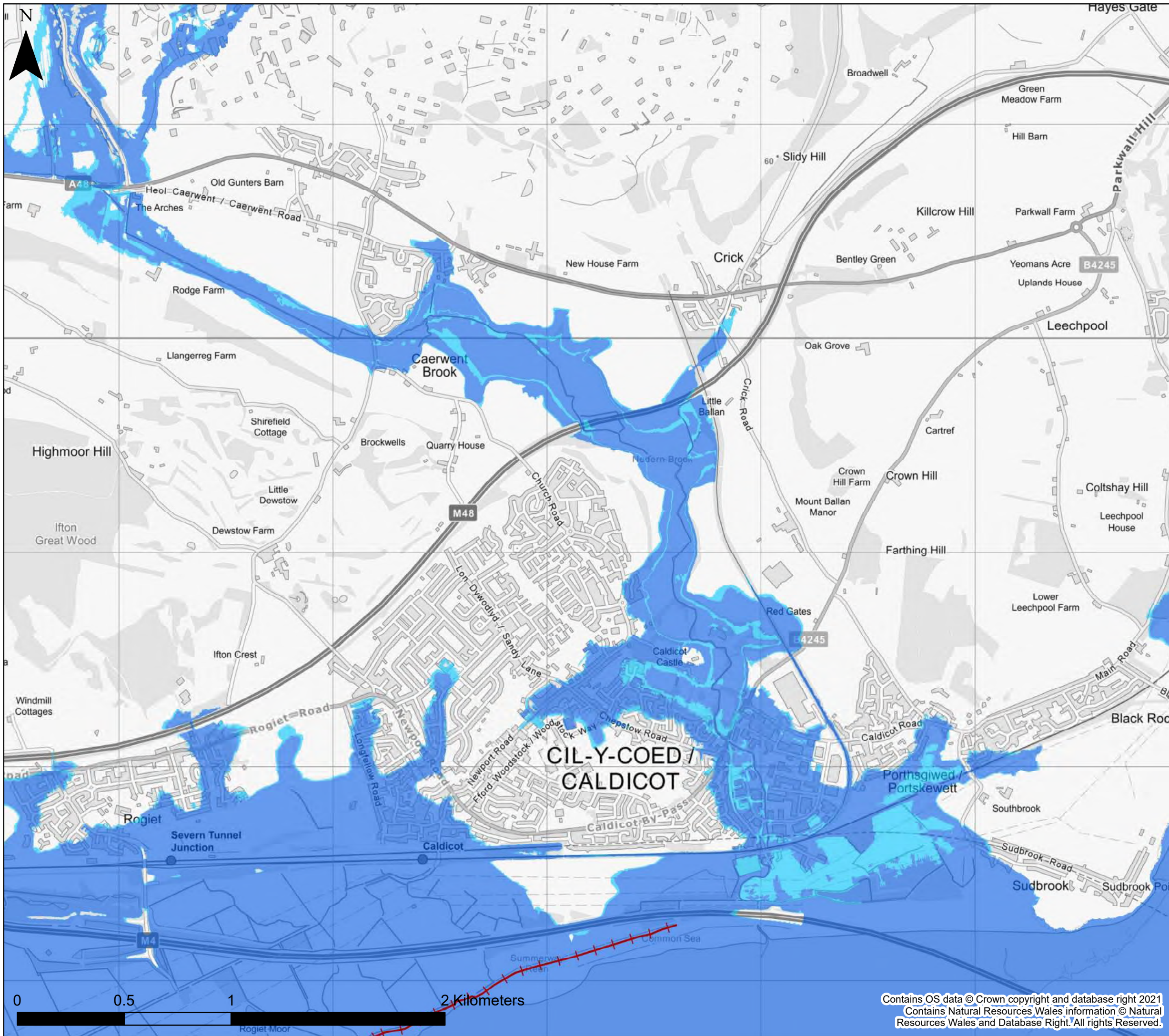
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0   0.5   1   2 Kilometers

KEY

Legend:

- Monmouthshire County Council
- Flood Defences-Rivers and Sea

FMFP Rivers and Sea
- Zone 2
- Zone 3

TAN15 Defended Zones
- Rivers
- Sea
- Rivers and Sea

Notes

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The map shows the flood risk data and information based on the map title and legend. If no data is displayed on the map, or not all features are present, this indicates that the respective flood source or features are not present within this area.

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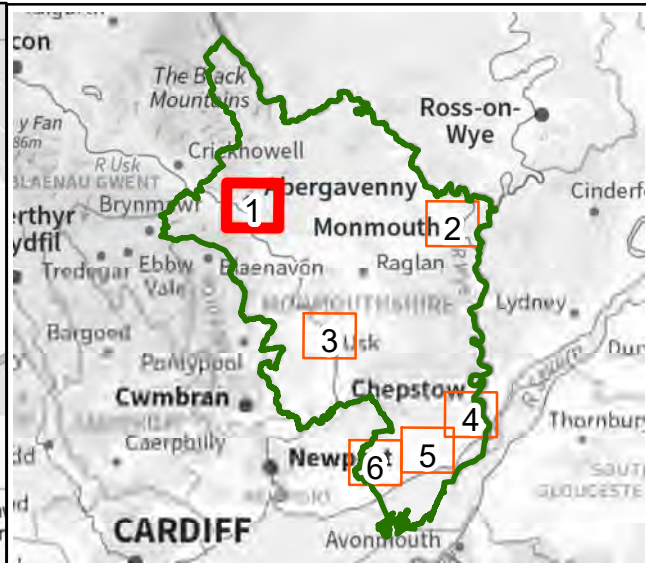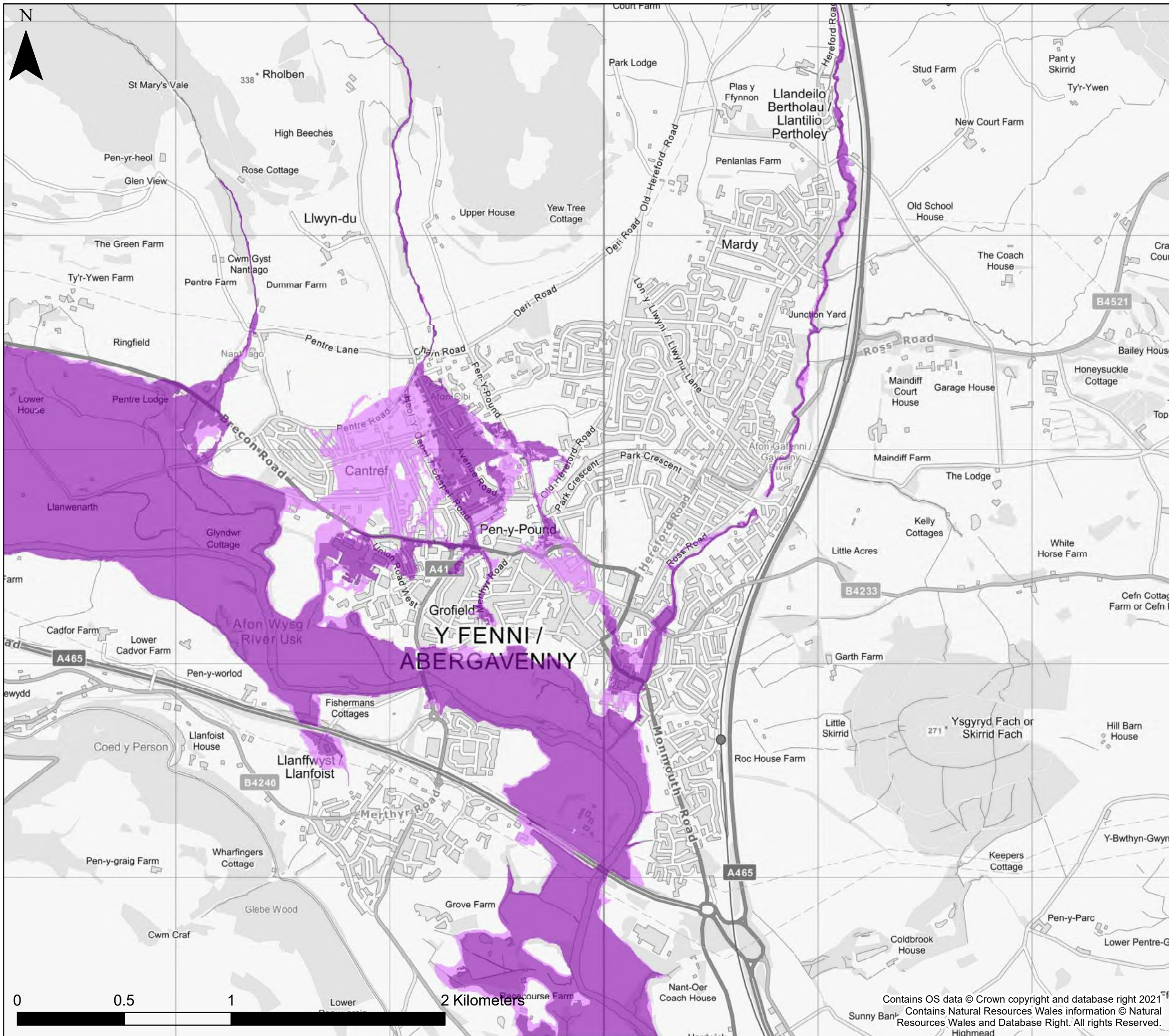sir fynwy

JBA consulting

Monmouthshire County Council Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning – Rivers and Sea

Page number	Drawn	HB	13/12/2021
4 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

Map labels:

Fryth Wood, Old Bishton, A48, B4293, Little Cophill, Rossfield Farm, Oak Cottage, Bishops Barnets, Tutshill, Meads Farm, Cophill, Itton Road, Goldenhill Farm, Alcove Wood, Gloucester Road, Forest Lodge, B4235, Cockshoot Wood, Welsh Street, Castleford Hill, Afon, Upper Sedbury House, Tump Farm, Cockshoot, CAS-GWENT / CHEPSTOW, Chepstow, Sedbury, Badams Court Cottage, Wellhead Lodge, Great Barnets Woods, Bishop's Barnes Wood, Mounton Brook, Rhewl, Cliff House, The Grange, Hardwick, Orchard H, Kite's Bushes, Mounton Road, Smooth Stones, 60, Trap Hill, St Lawrence Lane, Beachley Road, Sheepcote Barn, Ticken Hill, 60, Bulwark Road, Mounton, The Old Gym, Brynderwin, Glygla Delg / Fair View, Wye Valley Link Road, Wyelands Lodge, Bulwark, Thornwell Road, The Coombe, Trelenny, Pwllmeurig / Pwllmeyric, St Tewdric Lodge, Loop Road, 66, Willis Hill, New Hall Farm, Chapel Lane, Willow Farm, Merthyr-Tewdrig / Mathern, Eastwood House, Green Meadow Farm, Hill Barn, Hayes Gate, A48, The Buftons, Bailey's Hay, Langstone, M48, 2, Beachley, Courtyard House, Parkwall Hill, Kennel Cottage, Lyde Ro, Parkwall Farm, Mounton Brook

Scale: 0, 0.5, 1, 2 Kilometers

Inset key map labels: The Black Mountains, Ross-on-Wye, Cinderf, Crickhowell, Abergavenny, 1, Monmouth, 2, Brynm, Raglan, Lydney, Merthyr, Tredegar, Ebbw Vale, Blaenavon, MONMOUTHSHIRE, Dur, 3, Usk, Pontypool, Chepstow, 4, Thornbur, Cwmbran, Caerphilly, Newp, 5, SOUTH GLOUCESTE, 6, NEWPORT, CARDIFF, Avonmouth, Severn

KEY

— Monmouthshire County Council
— Flood Defences-Rivers and Sea

FMFP Rivers and Sea
Zone 2
Zone 3

TAN15 Defended Zones
Rivers
Sea
Rivers and Sea

Notes
The TAN15 Defended Zones have been created for the areas
behind flood defences managed and maintained by Risk
Management Authorities that have a minimum, Present Day
Standard of Protection of 1% (1 in 100) annual event probability
(AEP) for rivers, or 0.5% (1 in 200) annual event probability
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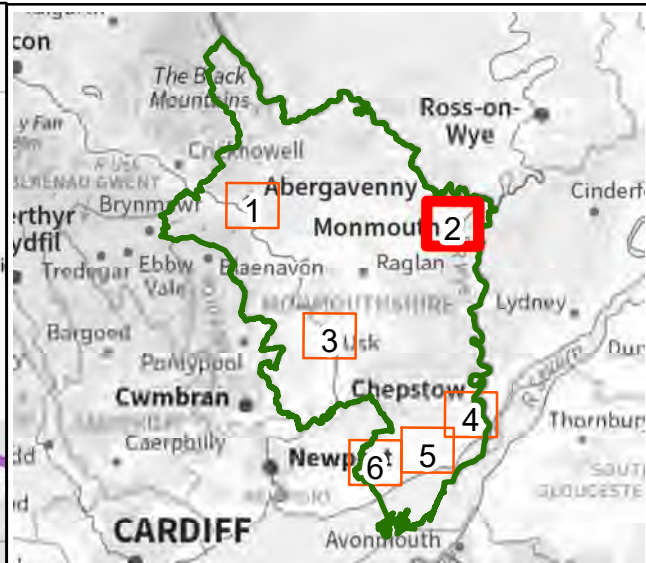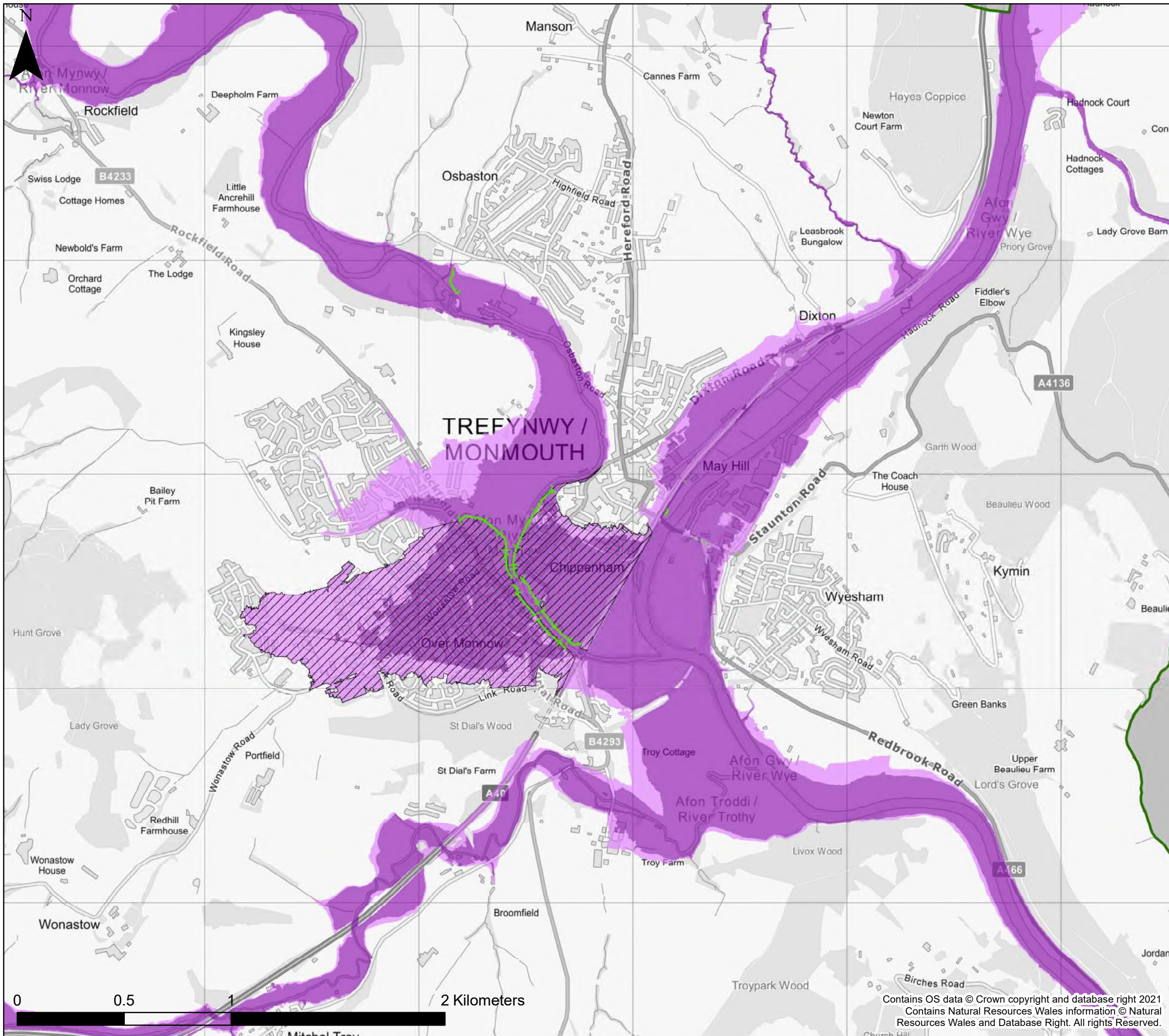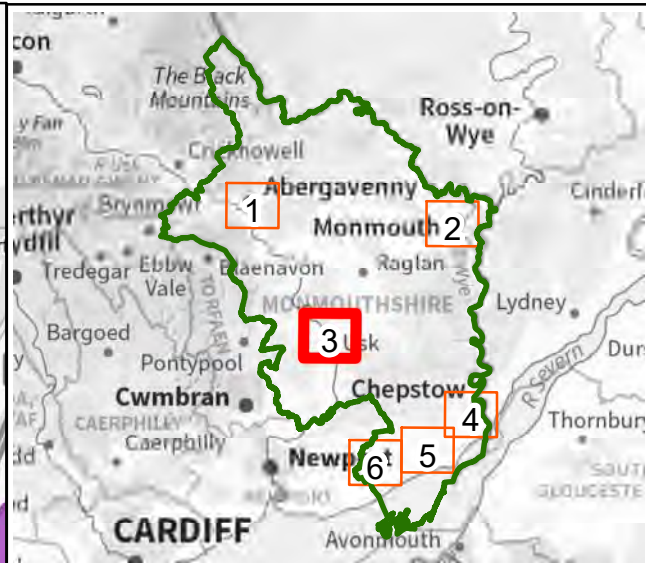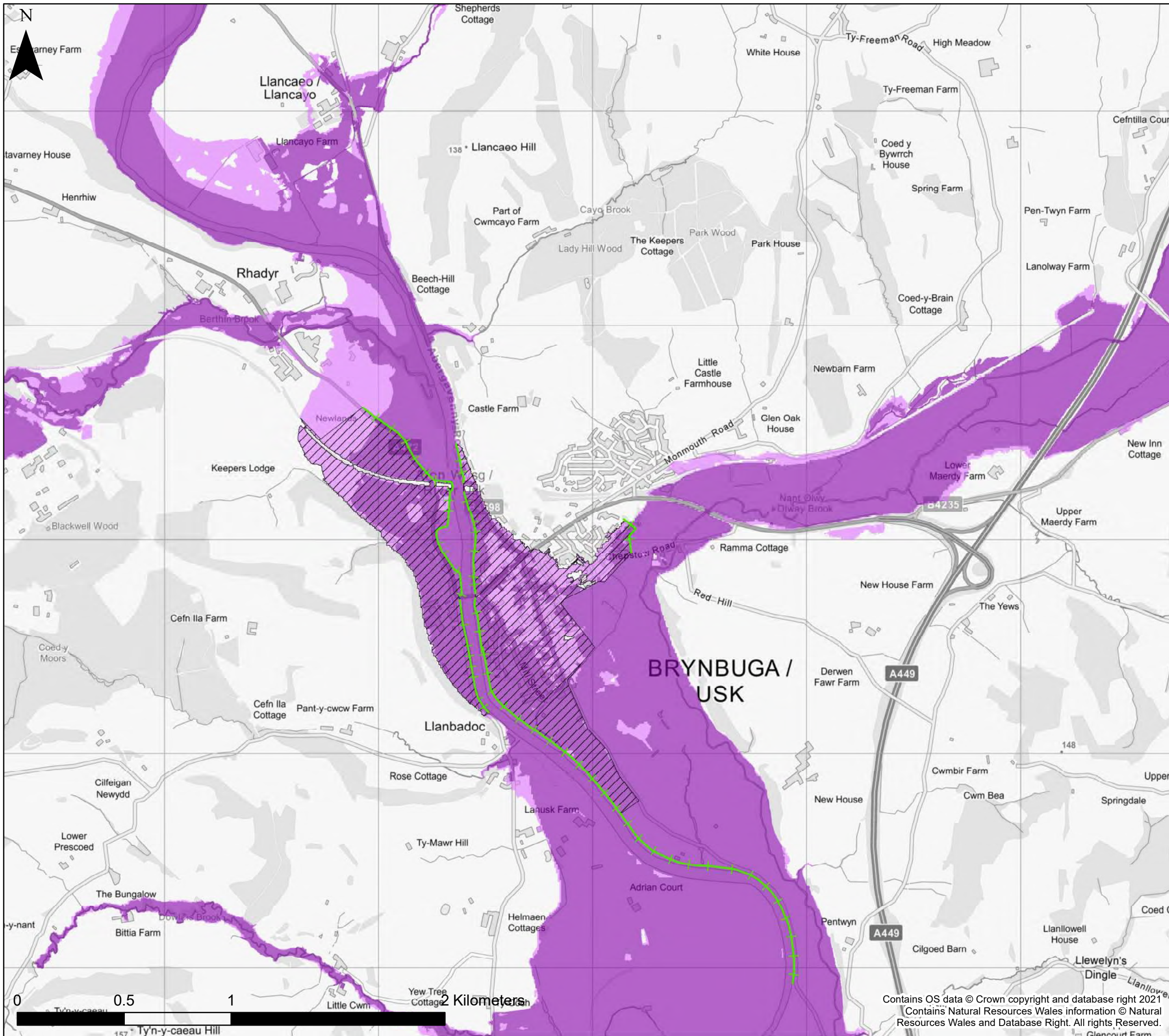or features are not present within this area.

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Monmouthshire County Council
Stage 1 Strategic Flood
Consequences Assessment

*Flood Map for Planning – Rivers
and Sea*

Page number	Drawn	HB	13/12/2021
5 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

Hayes Gate
Broadwell
Green Meadow Farm
Hill Barn
Slidy Hill 60
Killcrow Hill
Parkwall Farm
Parkwall Hill
New House Farm
Crick
Bentley Green
Yeomans Acre B4245
Uplands House
Leechpool
Oak Grove
Old Gunters Barn
Heol Caerwent / Caerwent Road
The Arches
Rodge Farm
Caerwent Brook
Llangerreg Farm
Little Ballan
Crick Road
Cartref
Crown Hill Farm
Crown Hill
Coltshay Hill
Shirefield Cottage
Brockwells
Quarry House
Nedern Brook
Mount Ballan Manor
Leechpool House
Highmoor Hill
Little Dewstow
Dewstow Farm
Church Road
Farthing Hill
Ifton Great Wood
M48
Lon Dyrodyd / Sandy Lane
Lower Leechpool Farm
Ifton Crest
Red Gates
Caldicot Castle
B4245
Windmill Cottages
Rogiet Road
Newport Road
Ffordd Woodstock / Woodstock Way
Chepstow Road
Main Road
Black Rock
CIL-Y-COED / CALDICOT
Caldicot Road
Longfellow Road
Rogiet
Porthsgiwed / Portskewett
Severn Tunnel Junction
Caldicot By-Pass
Southbrook
Caldicot
Sudbrook Road
M4
Common Sea
Sudbrook
Sudbrook Point
Summerway
Rogiet Moor

0   0.5   1   2 Kilometers

KEY

- ▭ Monmouthshire County Council
- ┼┼┼ Flood Defences-Rivers and Sea

FMFP Rivers and Sea
- ▨ Zone 2
- ▨ Zone 3

TAN15 Defended Zones
- ⧄ Rivers
- ⧅ Sea
- ⧄ Rivers and Sea

Notes
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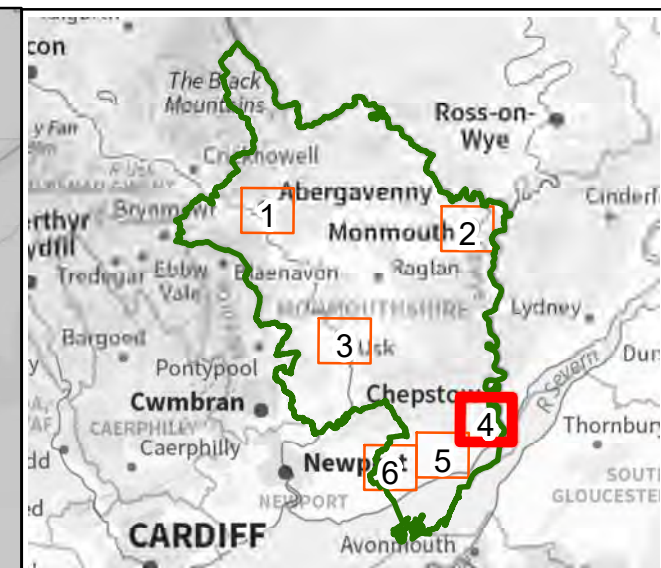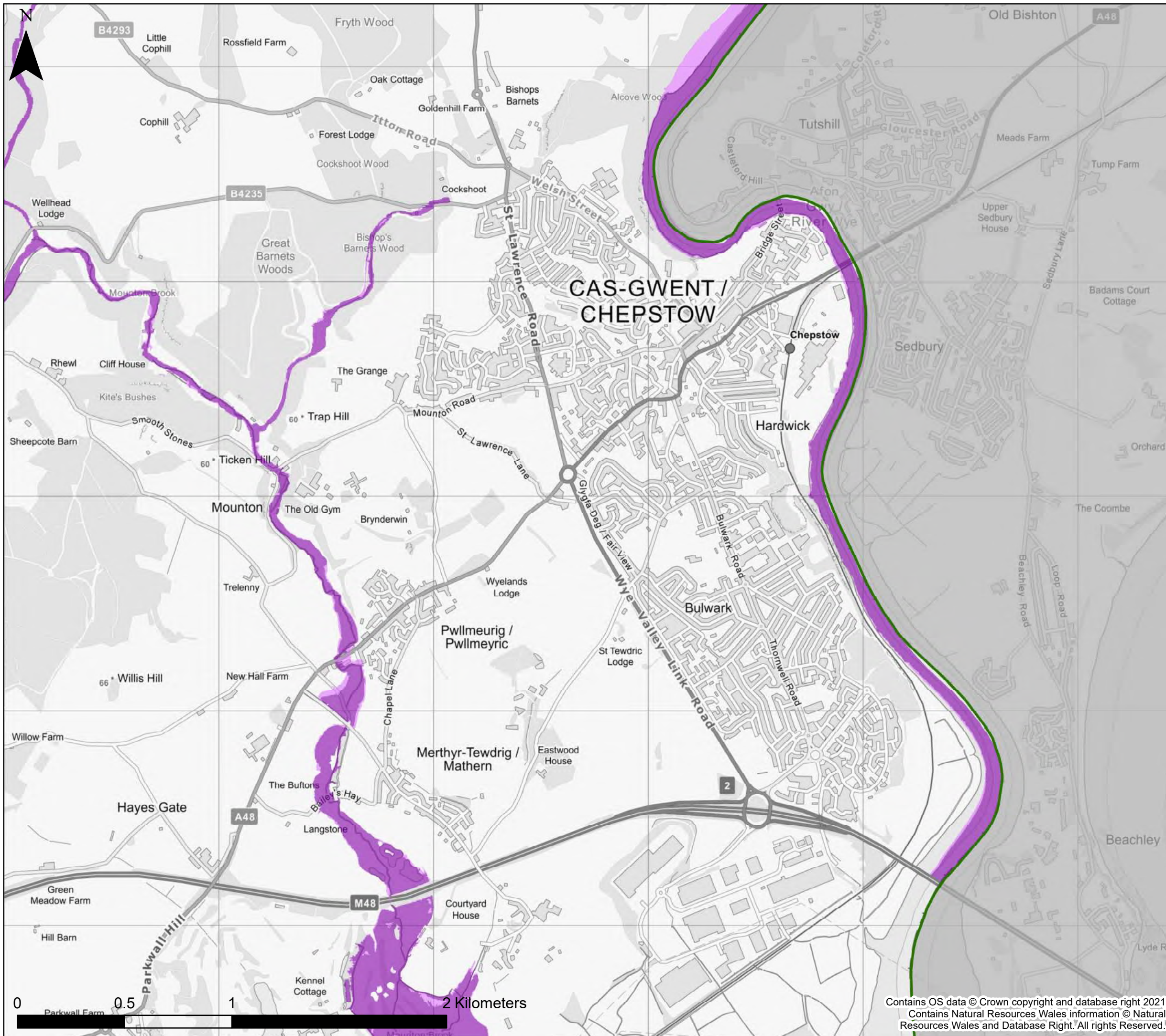
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Monmouthshire County Council
Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning – Rivers and Sea

Page number	Drawn	HB	13/12/2021
6 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

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KEY

Monmouthshire County Council
River
Zone 2
Zone 3
TAN15 Defended Zones
Rivers
Flood Defences
Fluvial
Fluvial and Tidal

Notes
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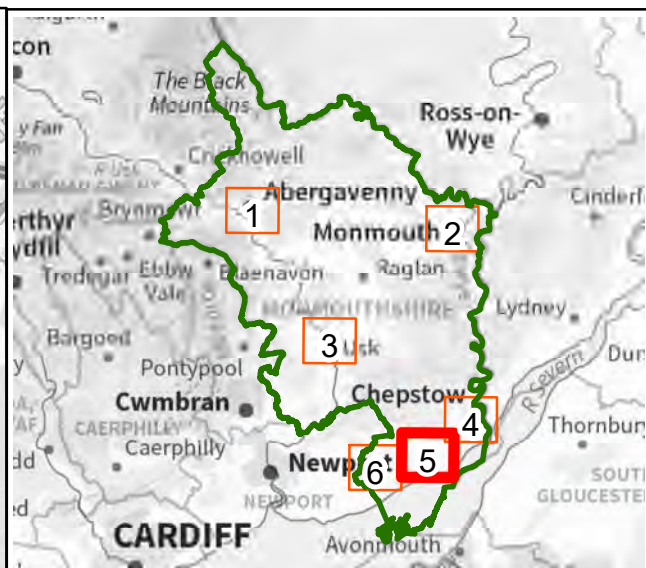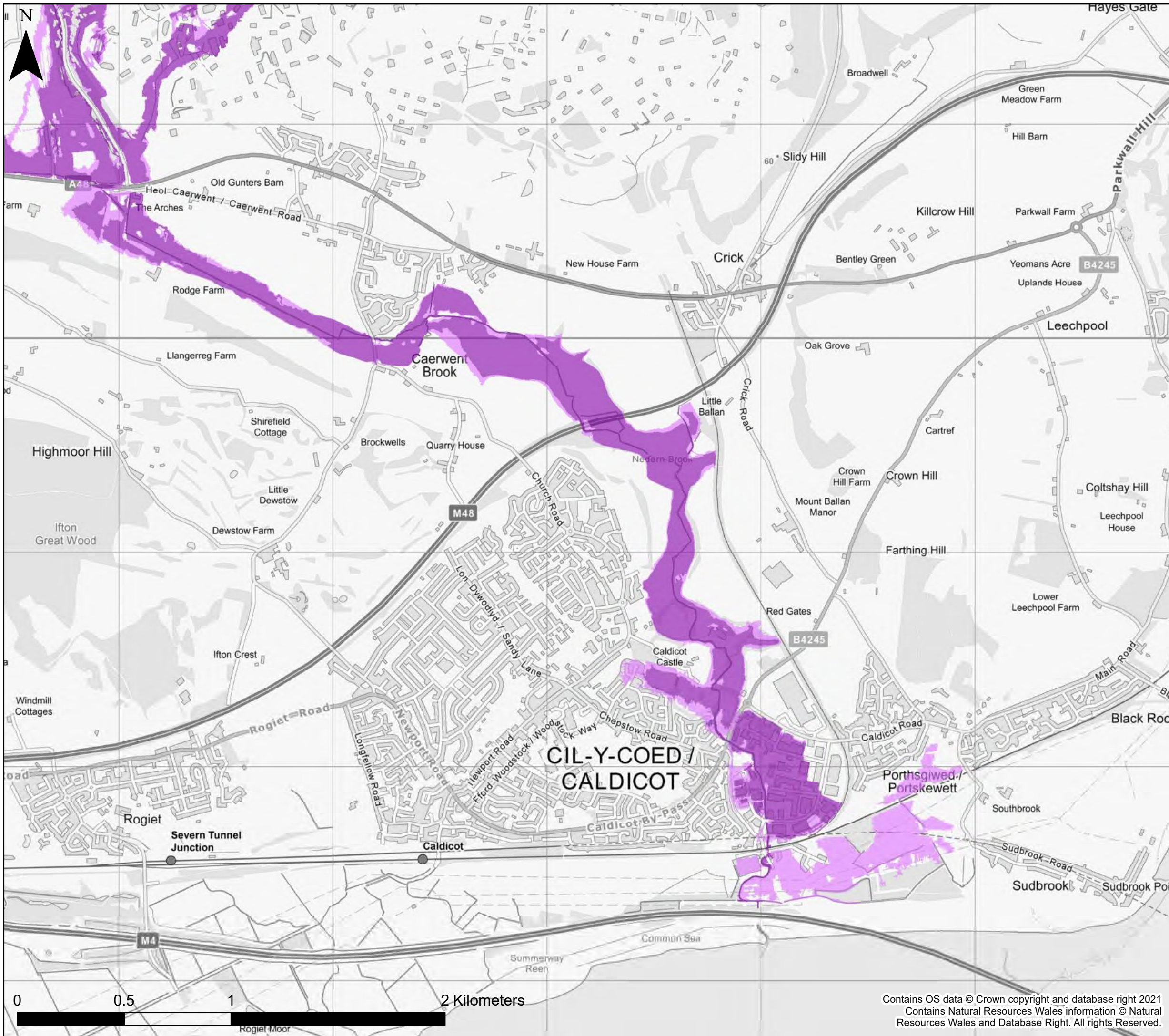
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Monmouthshire County Council

Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Rivers

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Page number			
1 of 6	Drawn	HB	13/12/2021
	Checked	DB	15/12/2021
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0   0.5   1   2 Kilometers

KEY

Monmouthshire County Council (green outline)

River
- Zone 2 (light purple)
- Zone 3 (dark purple)

TAN15 Defended Zones
- Rivers (hatched)

Flood Defences
- Fluvial (green)
- Fluvial and Tidal (orange)

Notes
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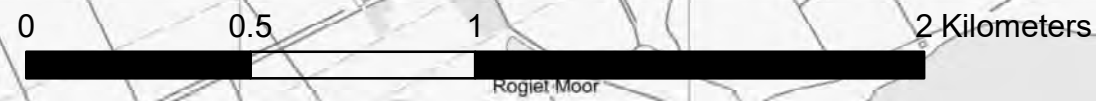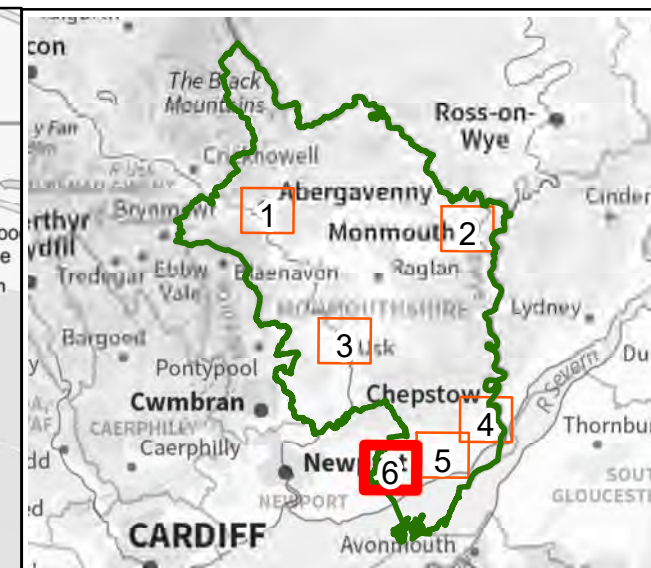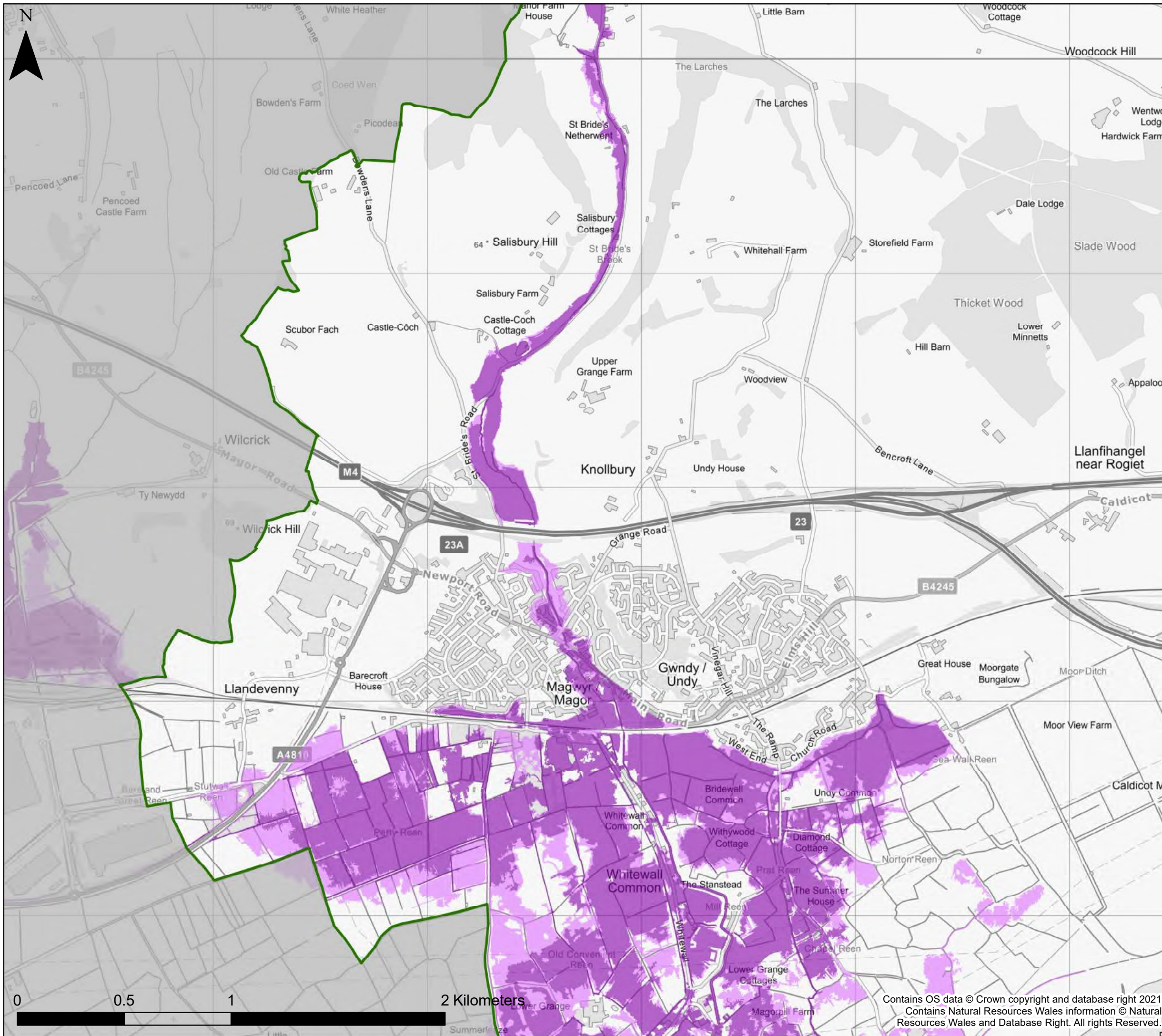
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Rivers

Page number	Drawn	HB	13/12/2021
2 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

KEY

Monmouthshire County Council

Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Rivers

Page number	Drawn	HB	13/12/2021
3 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

BRYNBUGA / USK

N

B4293

Fryth Wood

Old Bishton

A48

Little Cophill

Rossfield Farm

Oak Cottage

Bishops Barnets

Goldenhill Farm

Itton Road

Alcove Wood

Tutshill

Meads Farm

Cophill

Forest Lodge

Gloucester Road

Castleford Hill

Tump Farm

Cockshoot Wood

B4235

Cockshoot

Welsh Street

Bridge Street

River Wye

Upper Sedbury House

Wellhead Lodge

St Lawrence Road

CAS-GWENT / CHEPSTOW

Chepstow

Sedbury

Badams Court Cottage

Great Barnets Woods

Bishop's Barnets Wood

Mounton Brook

The Grange

Rhewl

Cliff House

Hardwick

Orchard Hi

Kite's Bushes

Mounton Road

Smooth Stones

60 Trap Hill

St Lawrence Lane

60 Ticken Hill

Sheepcote Barn

Mounton

The Old Gym

Brynderwin

Glyg'ia DelJ / Fair View

Wye Valley Link Road

Bulwark Road

The Coombe

Trelenny

Wyelands Lodge

Bulwark

Beachley Road

Loop Road

Pwllmeurig / Pwllmeyric

St Tewdric Lodge

Thornwell Road

66 Willis Hill

New Hall Farm

Chapel Lane

Merthyr-Tewdrig / Mathern

Eastwood House

Willow Farm

A48

Bailey's Hay

2

Hayes Gate

The Buftons

Langstone

M48

Courtyard House

Beachley

Green Meadow Farm

Lyde Ro

Hill Barn

Parkwall Hill

Kennel Cottage

Parkwall Farm

Mounton Brook

0   0.5   1   2 Kilometers

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KEY

Old Bishton area inset:
The Black Mountains
Cranowell
Ross-on-Wye
1 Abergavenny
Monmouth 2
Brynmn
Tredegar Ebbw Vale Blaenavon Raglan
Lydney
Dur
3 Usk
Bargoed
Pontypool
Cwmbran
Chepstow 4
Thornbun
CAERPHILLY
Caerphilly
Newp 6 5
SOUTH GLOUCESTE
CARDIFF
Avonmouth

Monmouthshire County Council

River

Zone 2

Zone 3

TAN15 Defended Zones

Rivers

Flood Defences

Fluvial

Fluvial and Tidal

Notes
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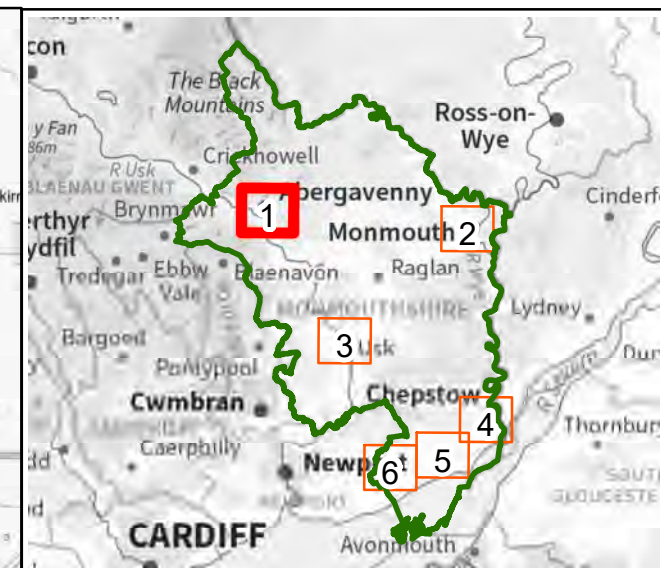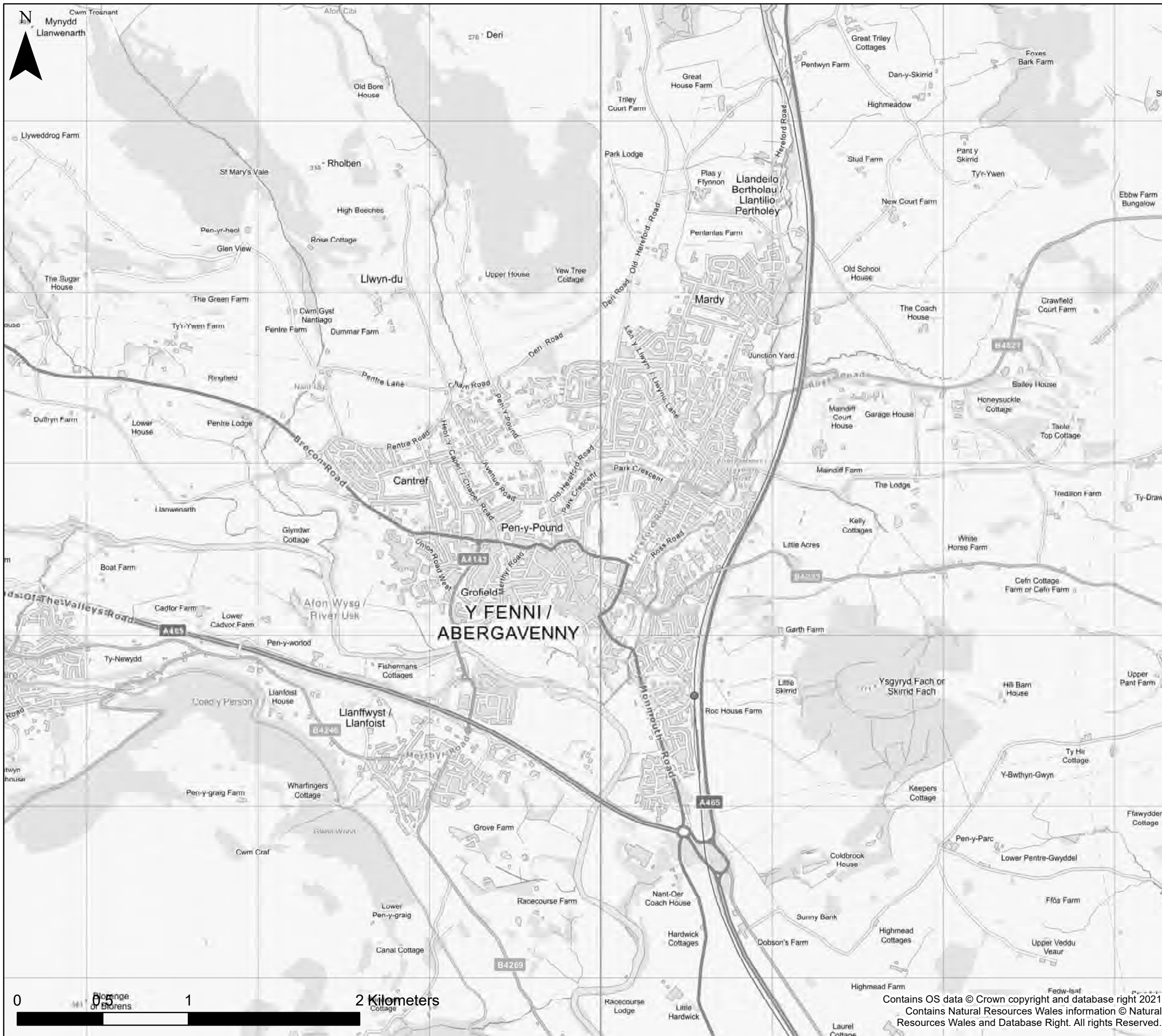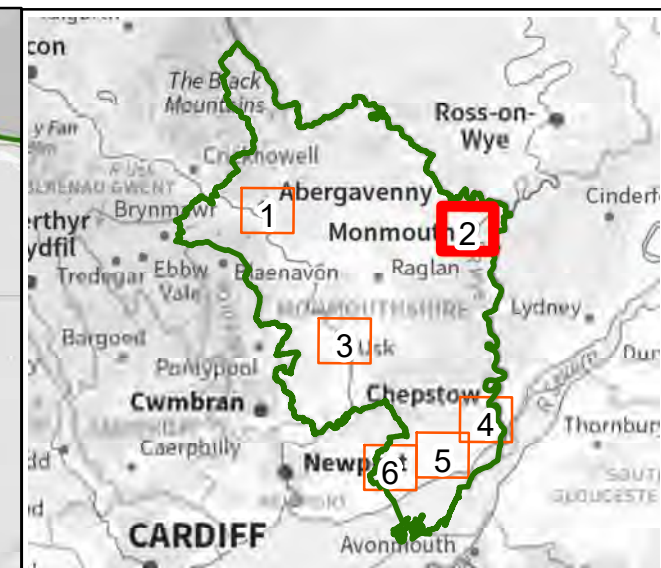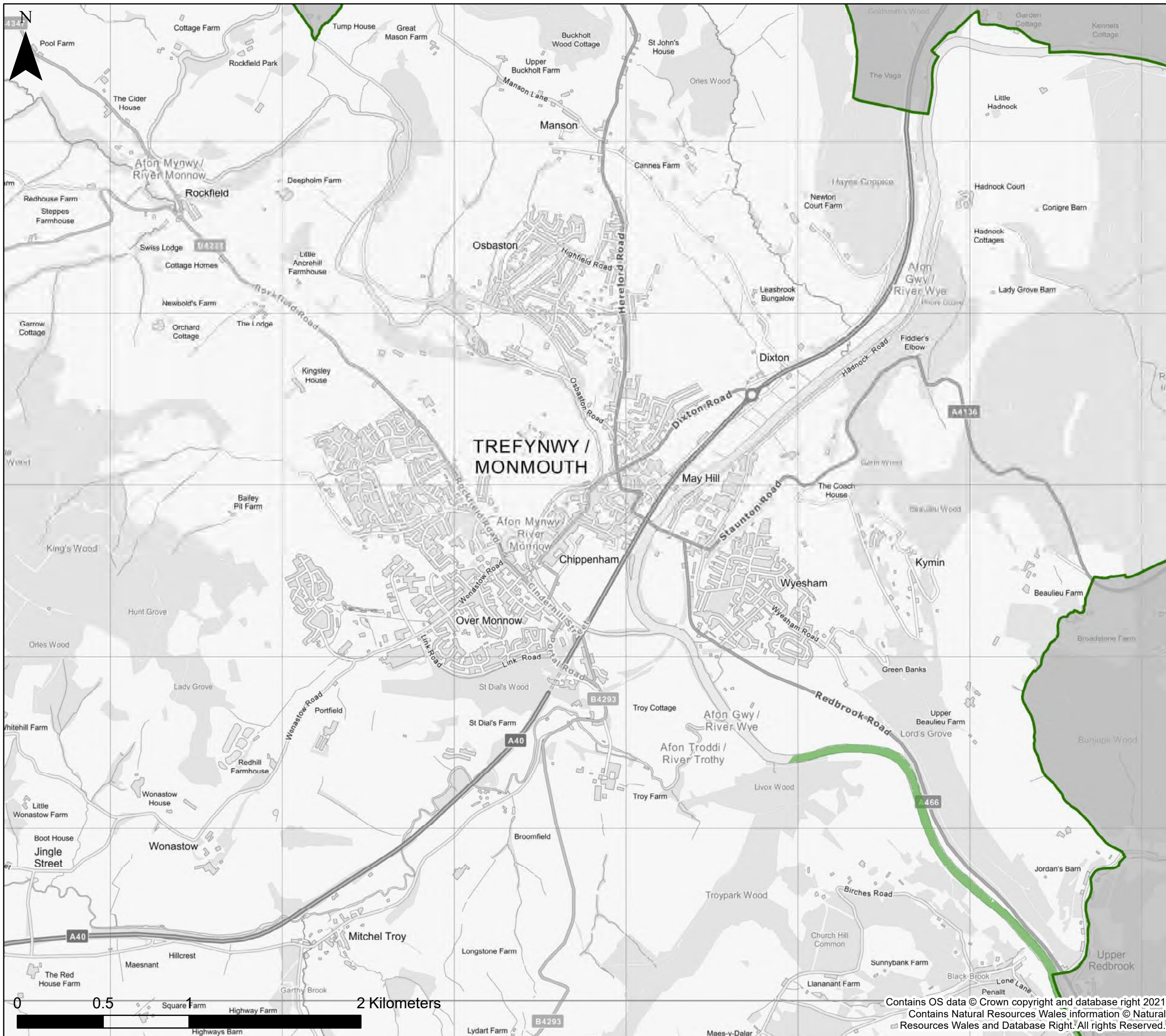or features are not present within this area.

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Monmouthshire County Council

Stage 1 Strategic Flood
Consequences Assessment

Flood Map for Planning- Rivers

Page number	Drawn	HB	13/12/2021
4 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

N

Hayes Gate
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Hill Barn
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Parkwall Hill
Killcrow Hill
Parkwall Farm
New House Farm
Crick
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Yeomans Acre
B4245
Uplands House
Leechpool
Old Gunters Barn
Heol Caerwent / Caerwent Road
The Arches
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Rodge Farm
Oak Grove
Caerwent Brook
Llangarreg Farm
Little Ballan
Crick Road
Cartref
Crown Hill Farm
Crown Hill
Shirefield Cottage
Brockwells
Quarry House
Nedern Brook
Coltshay Hill
Highmoor Hill
Mount Ballan Manor
Leechpool House
Little Dewstow
Church Road
Farthing Hill
Ifton Great Wood
Dewstow Farm
M48
Lon Dywodlyd / Sandy Lane
Lower Leechpool Farm
Red Gates
B4245
Ifton Crest
Caldicot Castle
Windmill Cottages
Rogiet Road
Newport Road
Fford Woodstock / Woodstock Way
Chepstow Road
Black Rock
Road
Rogiet
Longlelow Road
CIL-Y-COED / CALDICOT
Caldicot Road
Main Road
Severn Tunnel Junction
Caldicot
Caldicot By-Pass
Porthsgiwed / Portskewett
Southbrook
Sudbrook Road
Sudbrook
Sudbrook Point
M4
Common Sea
Summerway Reen
Rogiet Moor

0   0.5   1   2 Kilometers

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KEY

Monmouthshire County Council

River
Zone 2
Zone 3

TAN15 Defended Zones
Rivers

Flood Defences
Fluvial
Fluvial and Tidal

Notes
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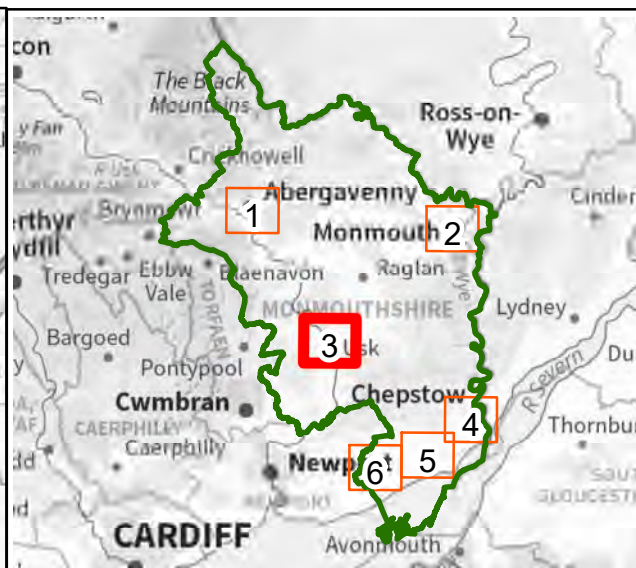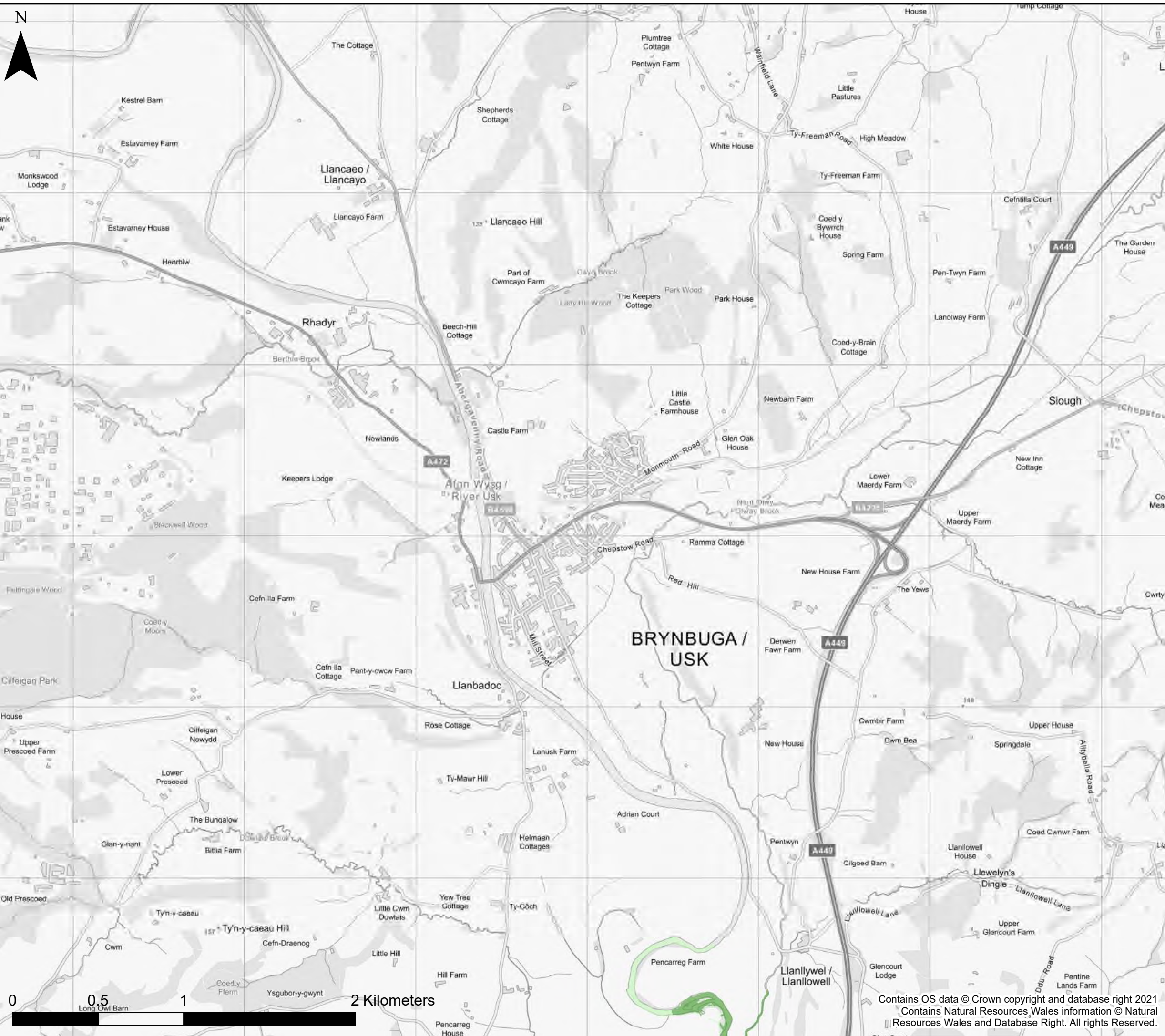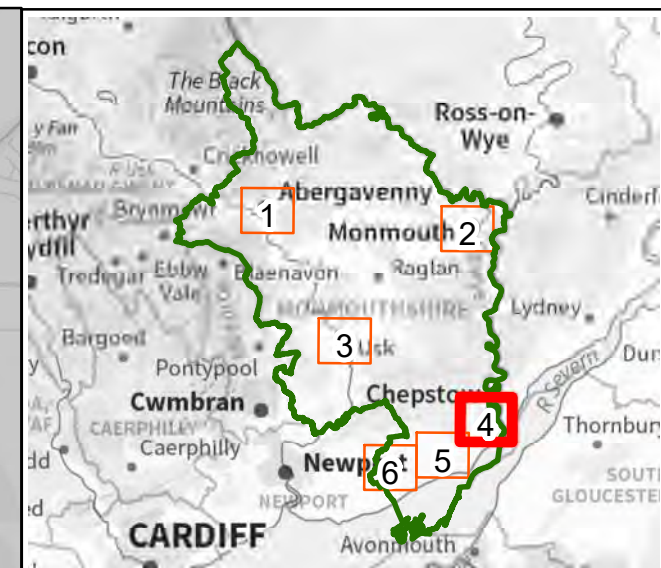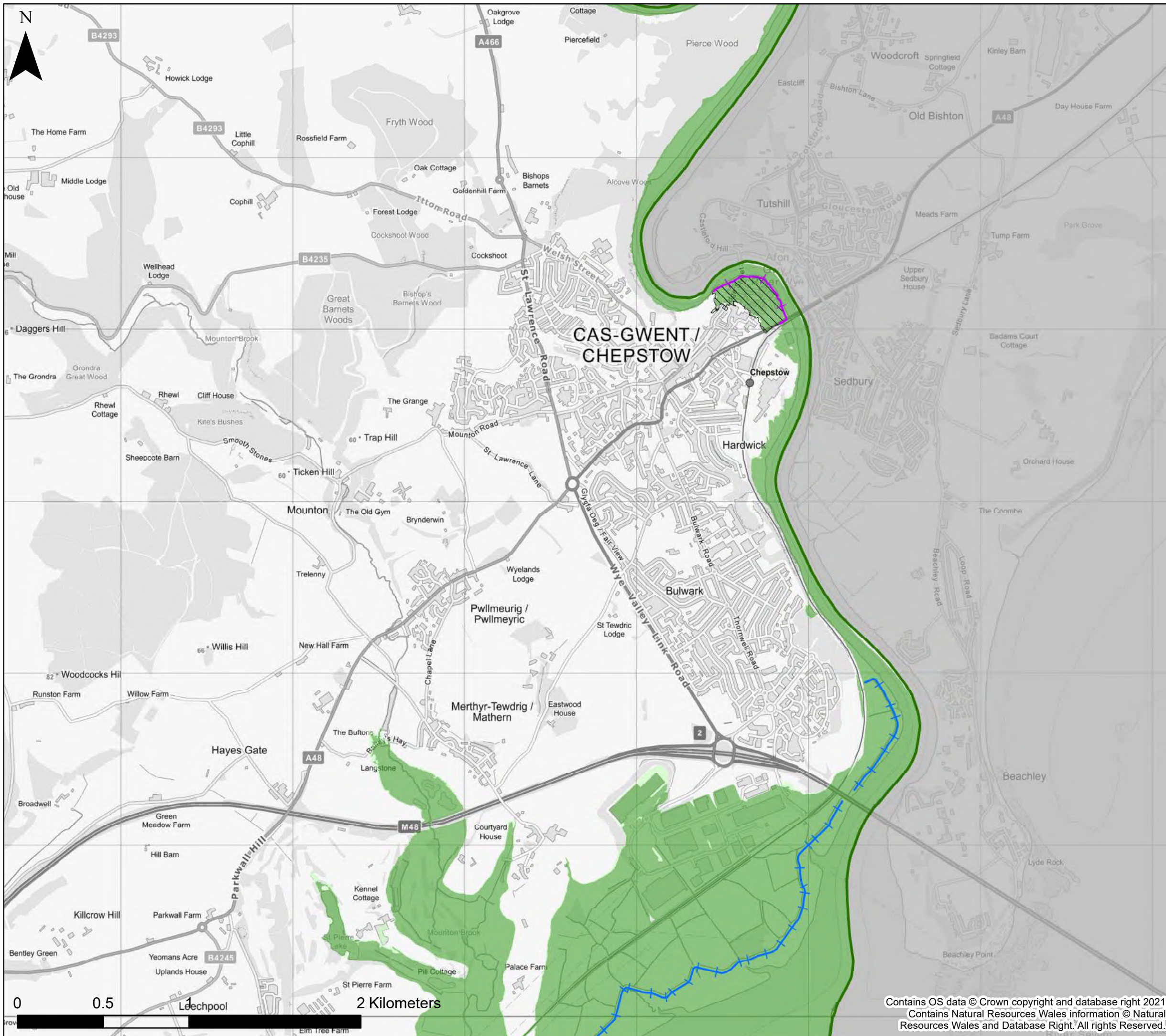
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Rivers

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Page number	Drawn	HB	13/12/2021
5 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

KEY

Monmouthshire County Council
River
Zone 2
Zone 3
TAN15 Defended Zones
Rivers
Flood Defences
Fluvial
Fluvial and Tidal

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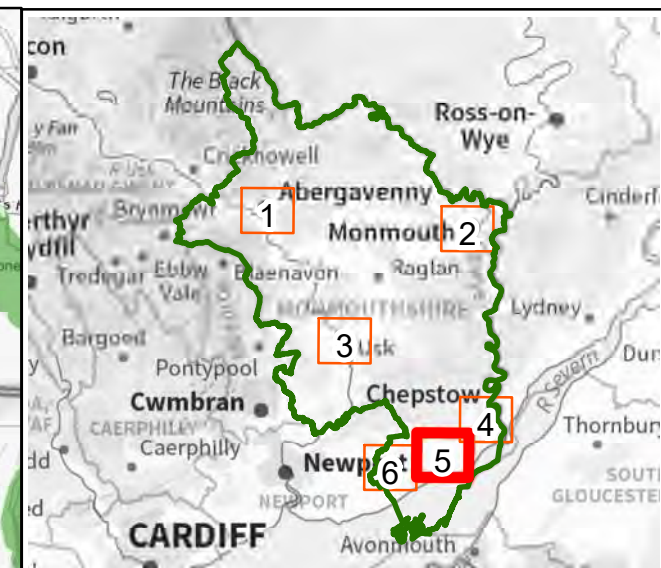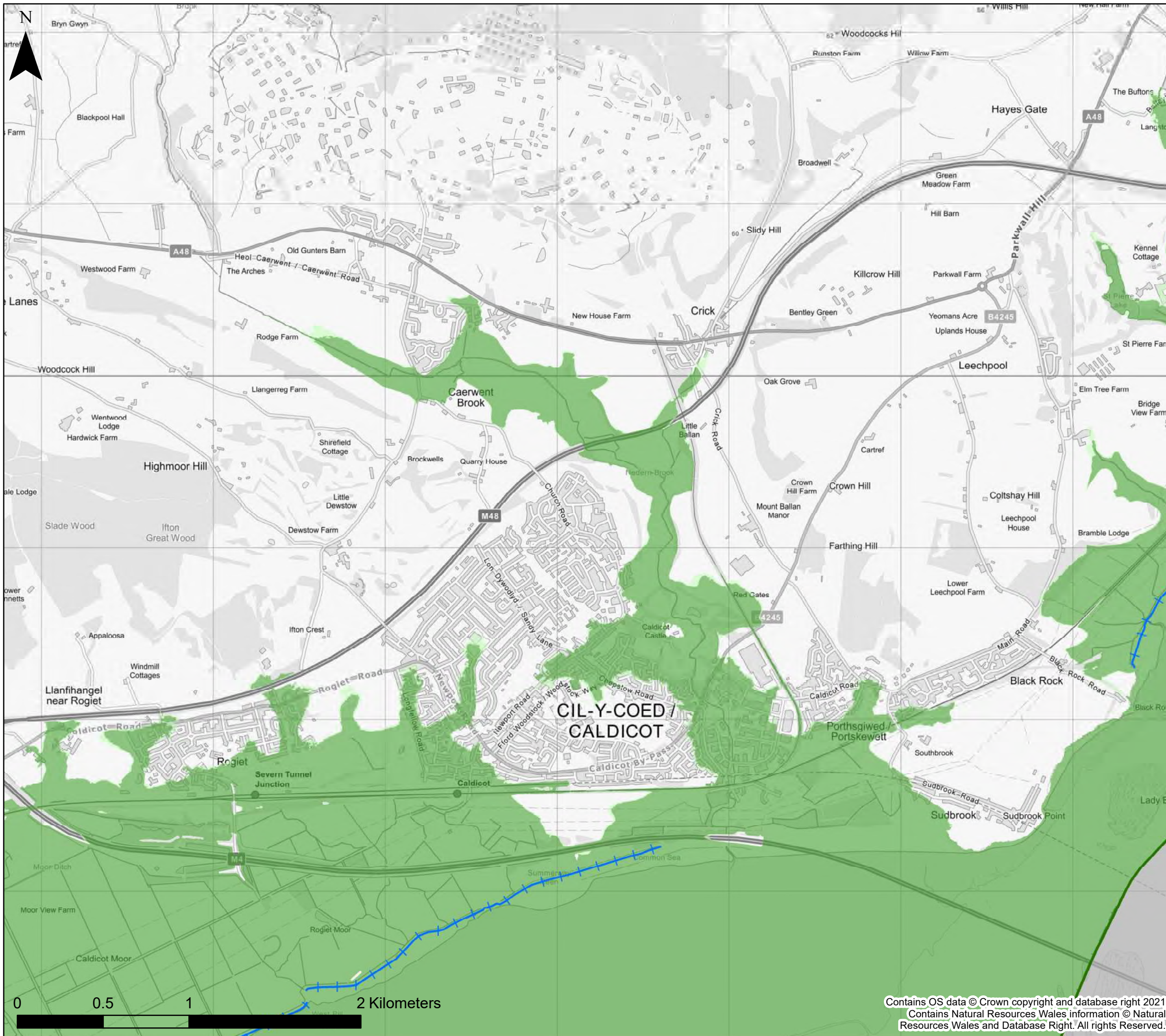
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Rivers

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6 of 6	Checked	DB	15/12/2021
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0   0.5   1   2 Kilometers

KEY

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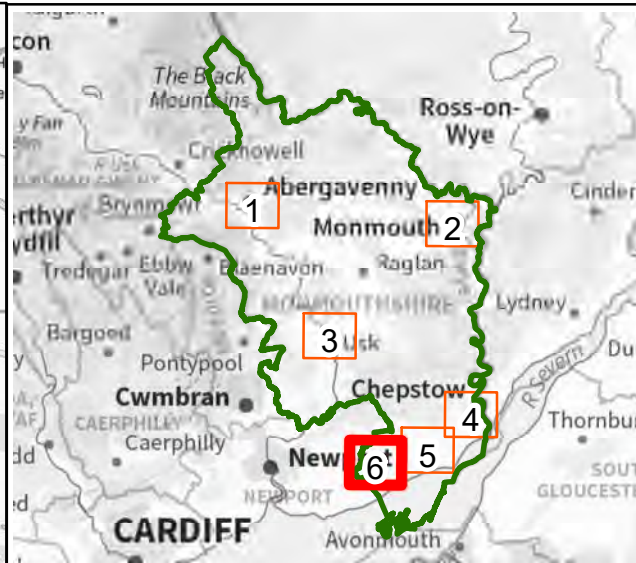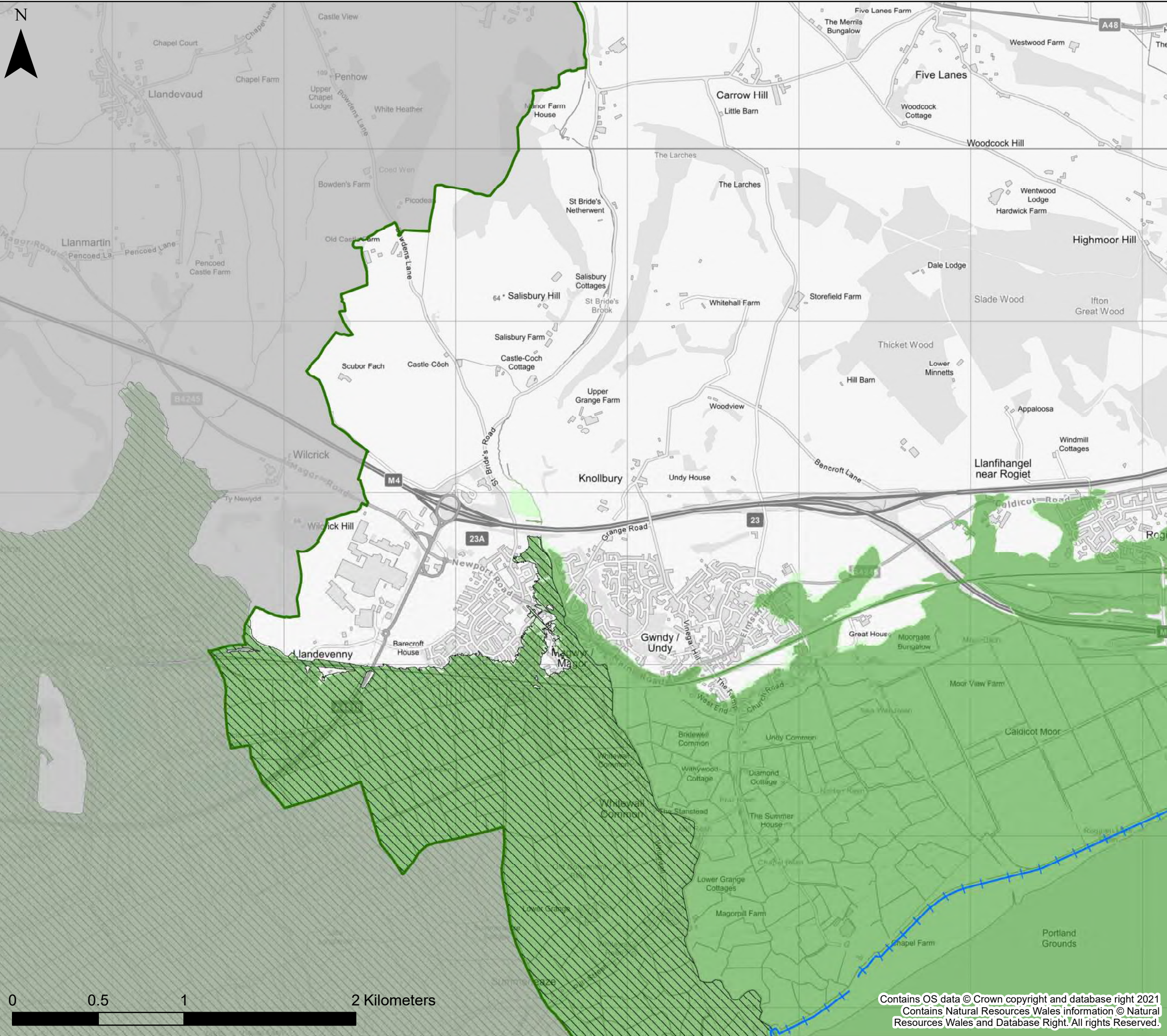
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sir fynwy

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Monmouthshire County Council

Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Sea

Page number	Drawn	HB	15/12/2021
1 of 6	Checked	DB	16/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

KEY

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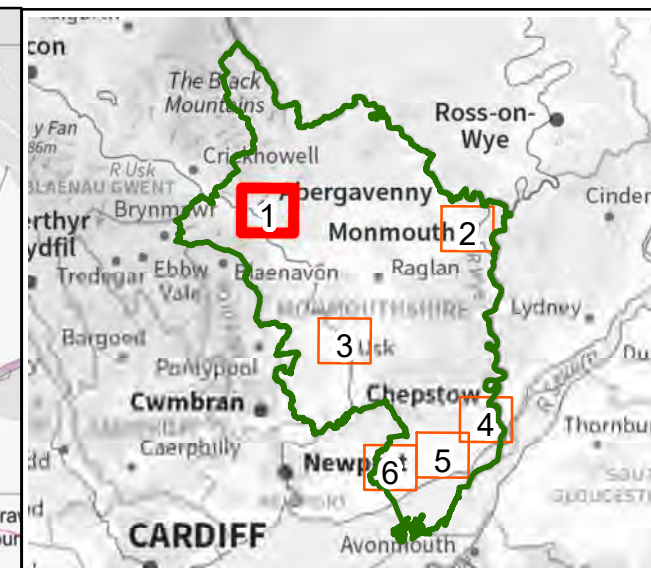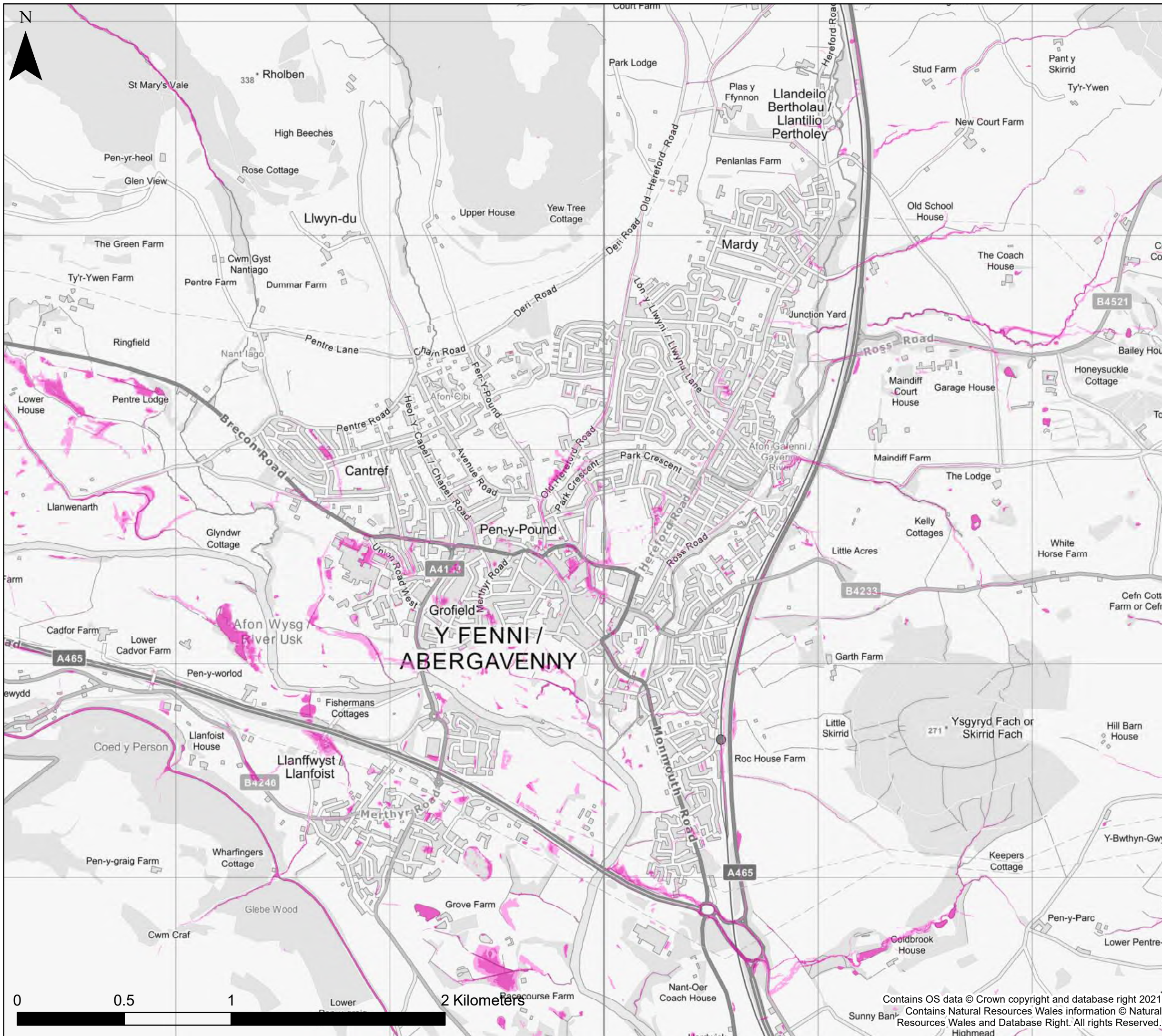
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Monmouthshire County Council

Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Sea

Page number	Drawn	HB	15/12/2021
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KEY

▭ Monmouthshire County Council

Sea

Flood Zone 2

Flood Zone 3

TAN15 Defended Zones

Sea

Flood Defences

Coastal

Tidal

Fluvial and Tidal

Notes

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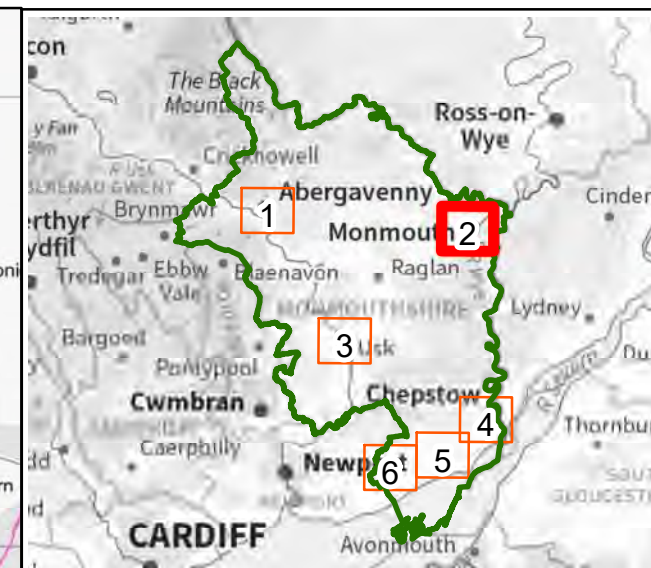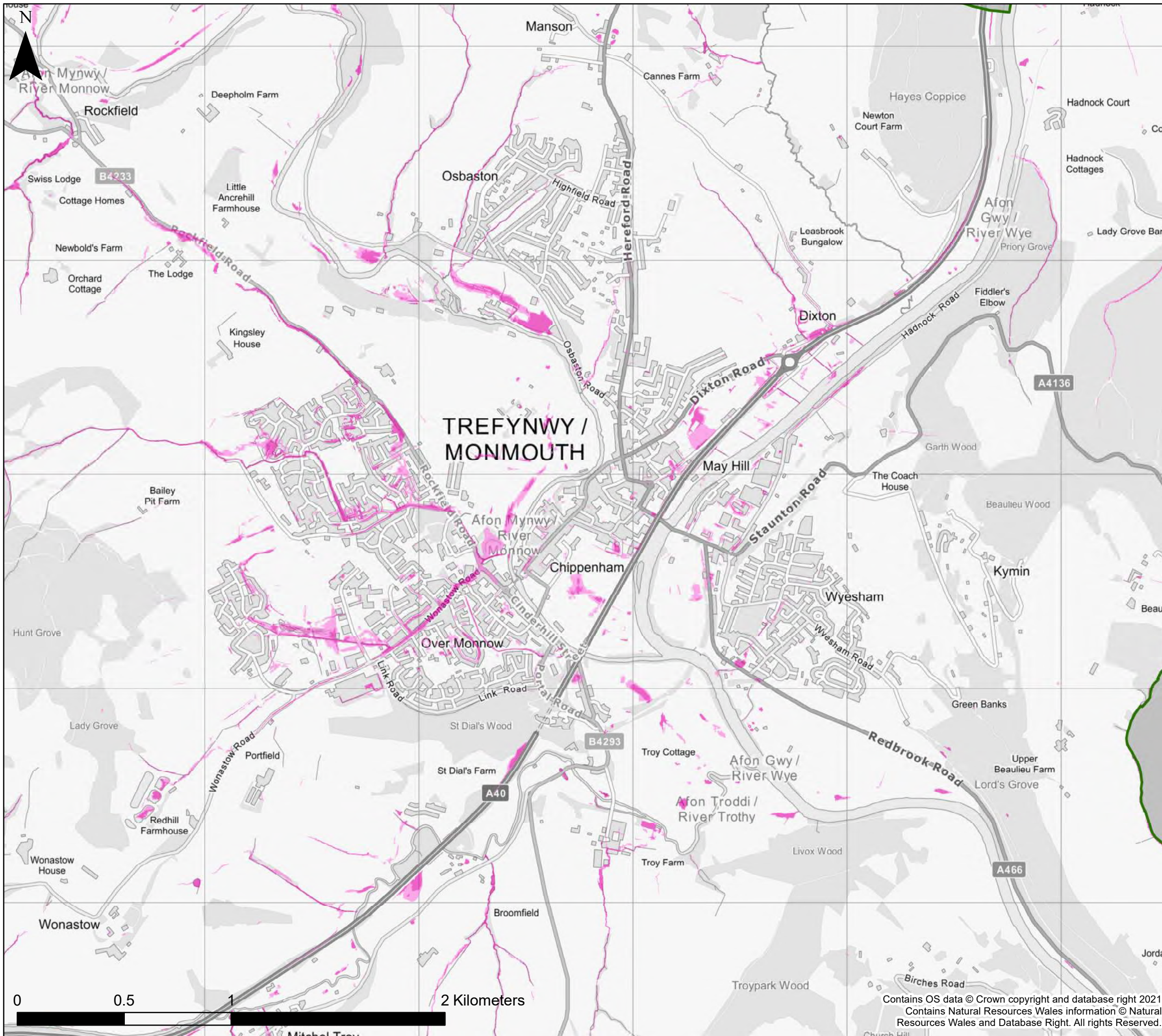
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Sea

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Page number	Drawn	HB	15/12/2021
3 of 6	Checked	DB	16/12/2021
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0   0.5   1   2 Kilometers

CAS-GWENT / CHEPSTOW

KEY

Monmouthshire County Council

Sea
Flood Zone 2
Flood Zone 3

TAN15 Defended Zones
Sea

Flood Defences
Coastal
Tidal
Fluvial and Tidal

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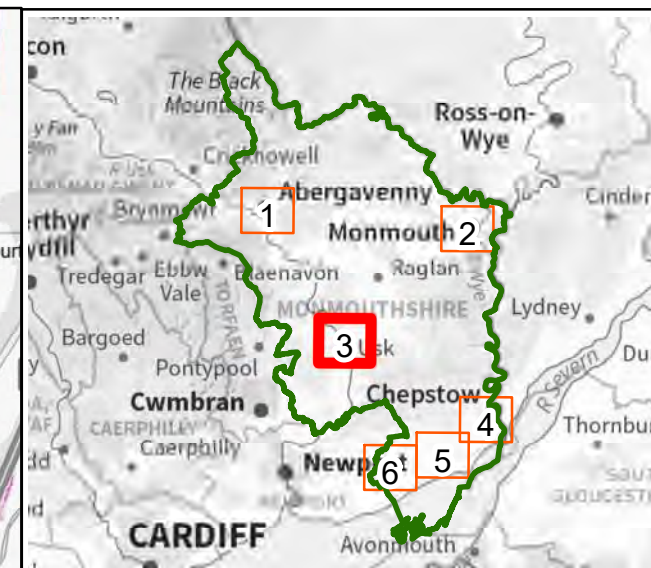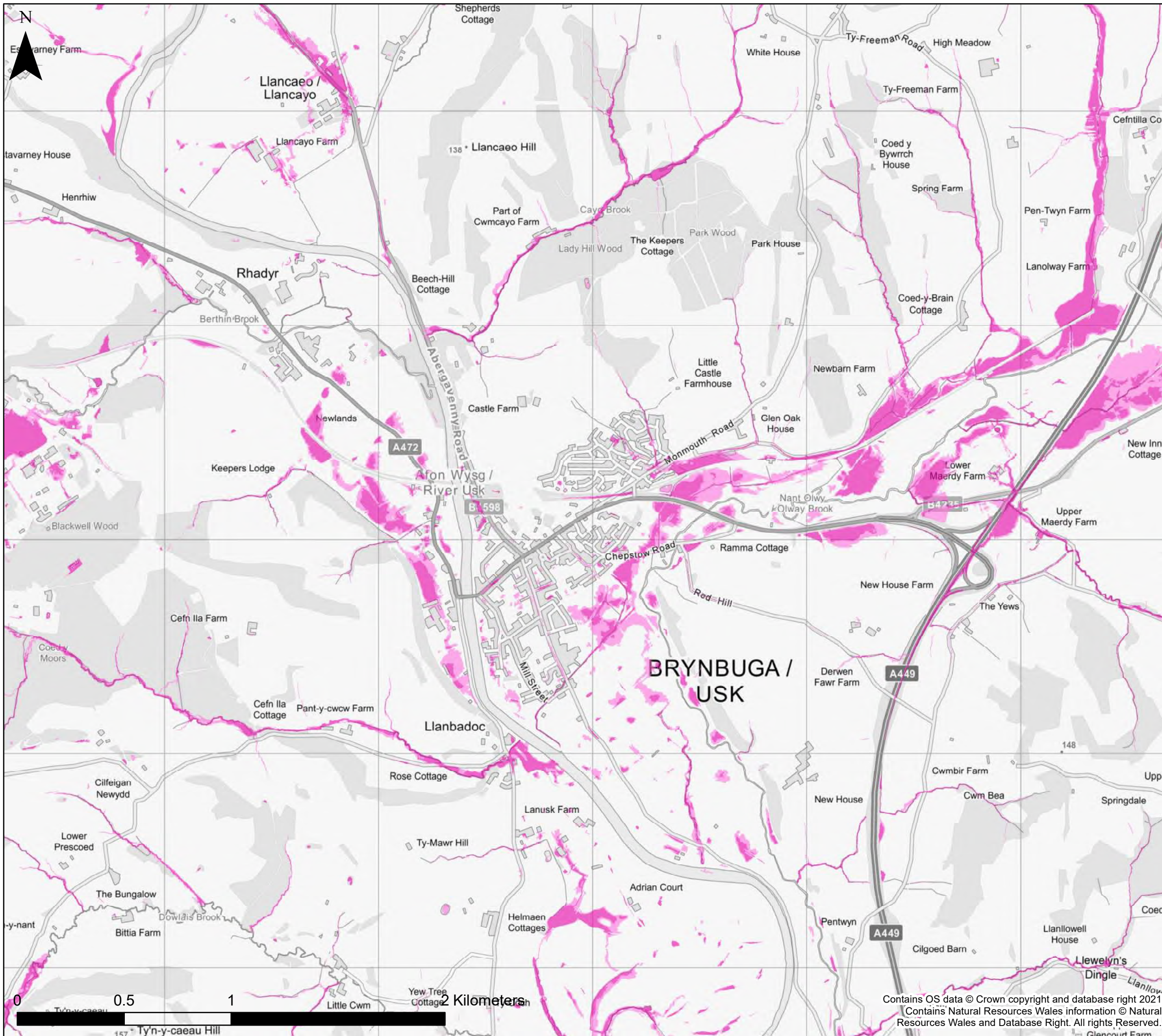
monmouthshire sir fynwy

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Monmouthshire County Council

Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Sea

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Page number	Drawn	HB	15/12/2021
4 of 6	Checked	DB	16/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

KEY

Monmouthshire County Council

Sea
- Flood Zone 2
- Flood Zone 3

TAN15 Defended Zones
- Sea

Flood Defences
- Coastal
- Tidal
- Fluvial and Tidal

Notes

The TAN15 Defended Zones have been created for the areas behind flood defences managed and maintained by Risk Management Authorities that have a minimum, Present Day Standard of Protection of 0.5% (1 in 200) annual event probability (AEP) for the sea plus climate change and freeboard.

The map shows the flood risk data and information based on the map title and legend. If no data is displayed on the map, or not all features are present, this indicates that the respective flood source or features are not present within this area.
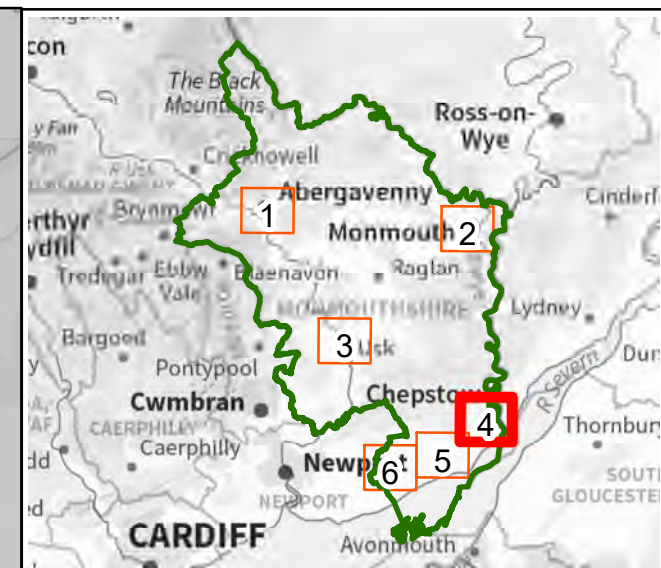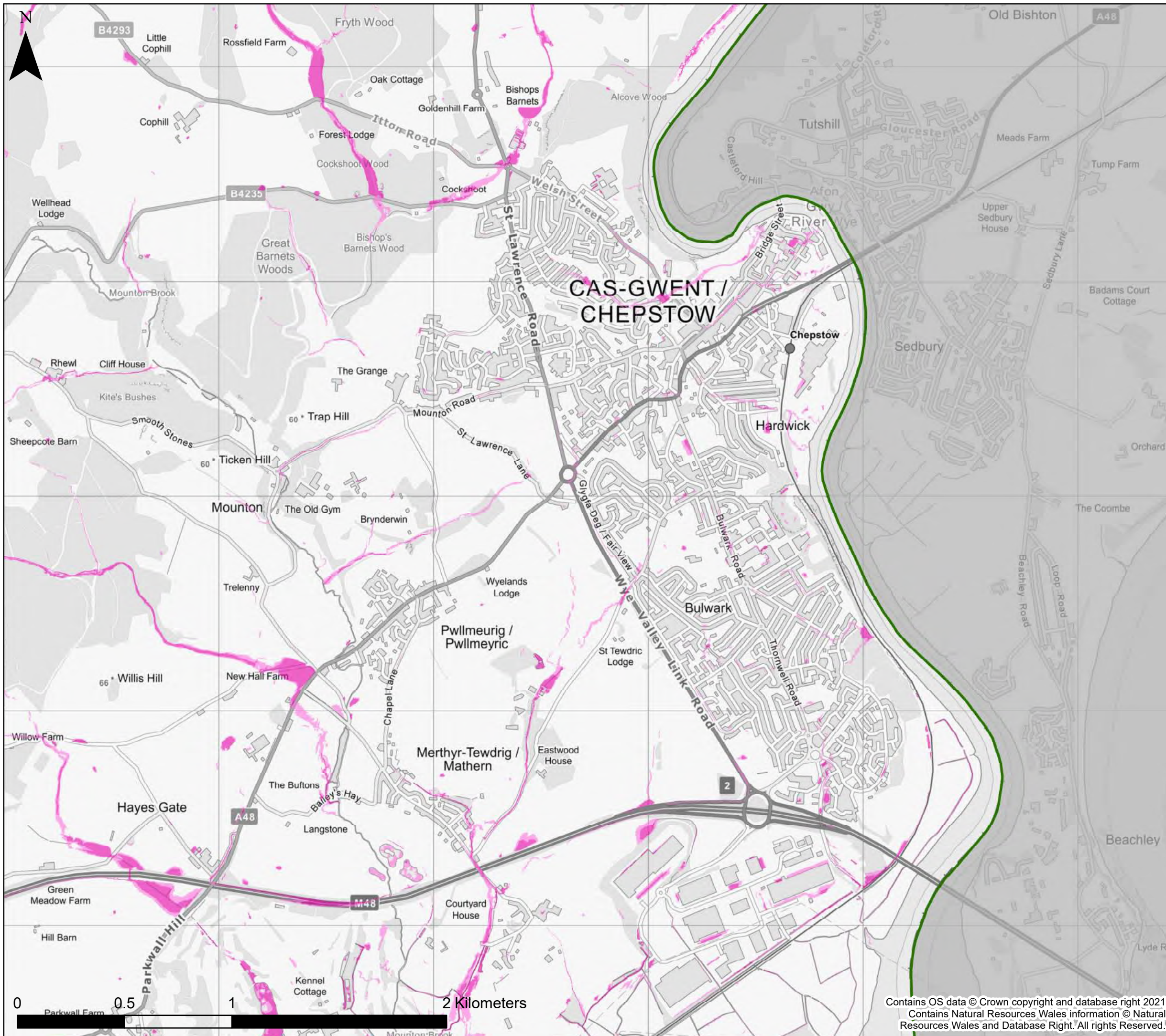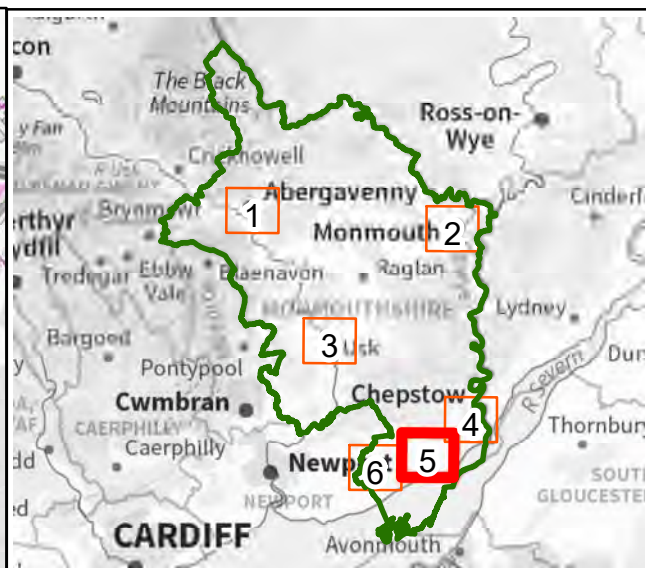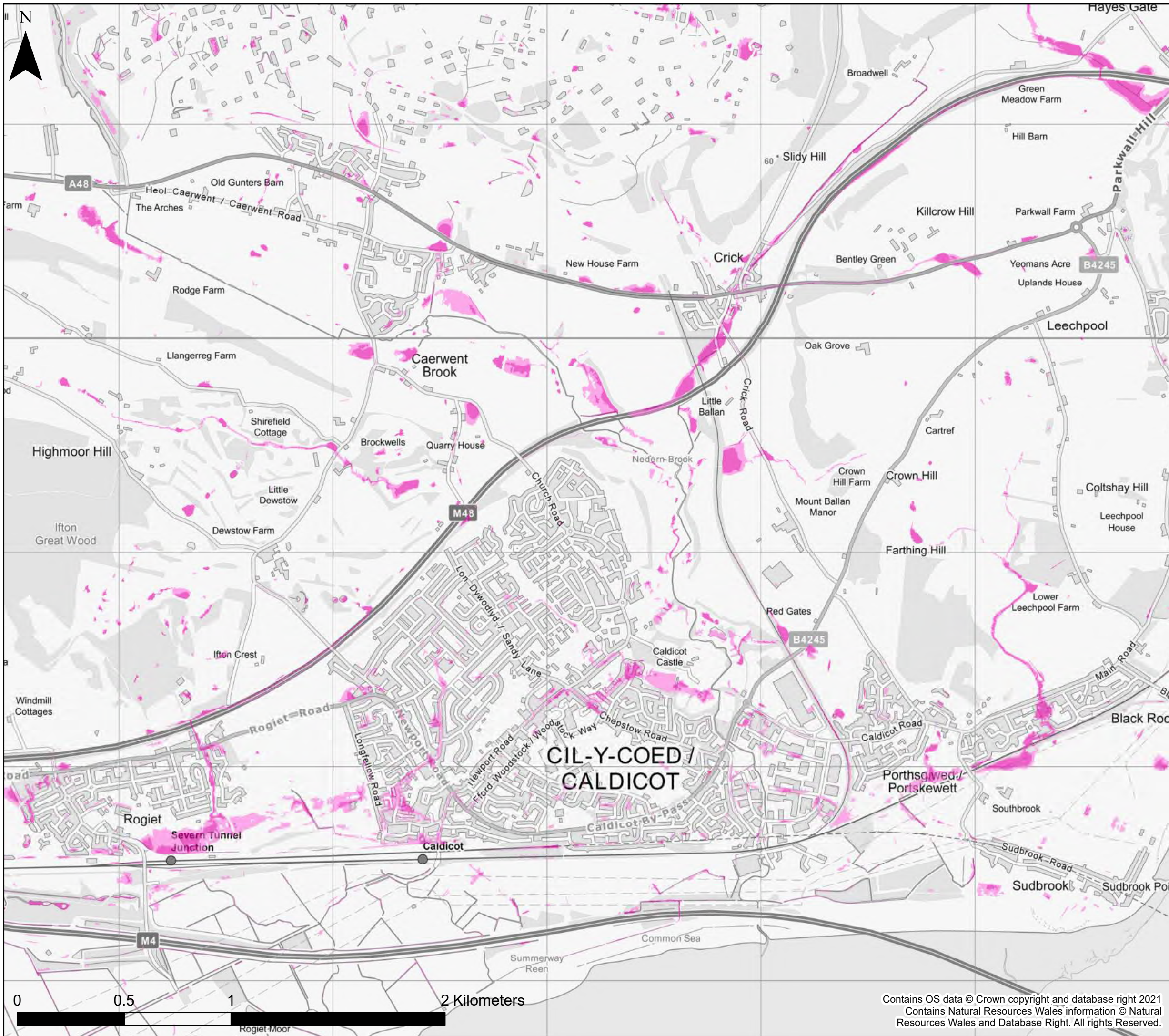
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Sea

Page number	Drawn	HB	15/12/2021
5 of 6	Checked	DB	16/12/2021
	Approved	GB	17/12/2021

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0   0.5   1   2 Kilometers

N

Five Lanes

KEY

Monmouthshire County Council

Sea
- Flood Zone 2
- Flood Zone 3

TAN15 Defended Zones
- Sea

Flood Defences
- Coastal
- Tidal
- Fluvial and Tidal

Notes
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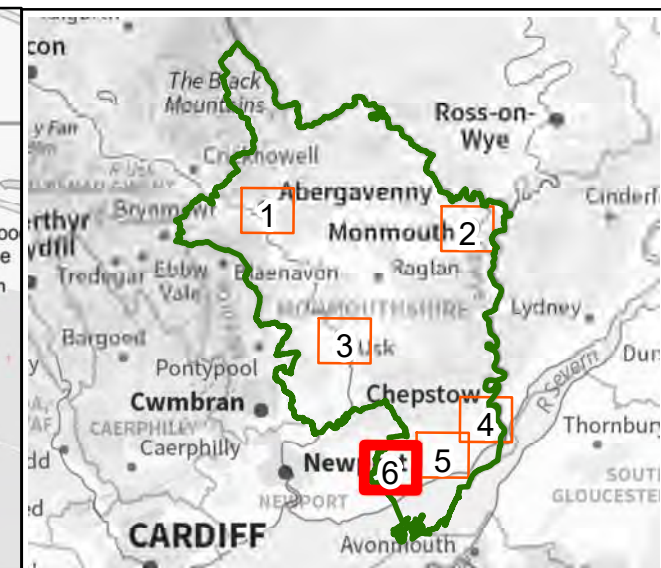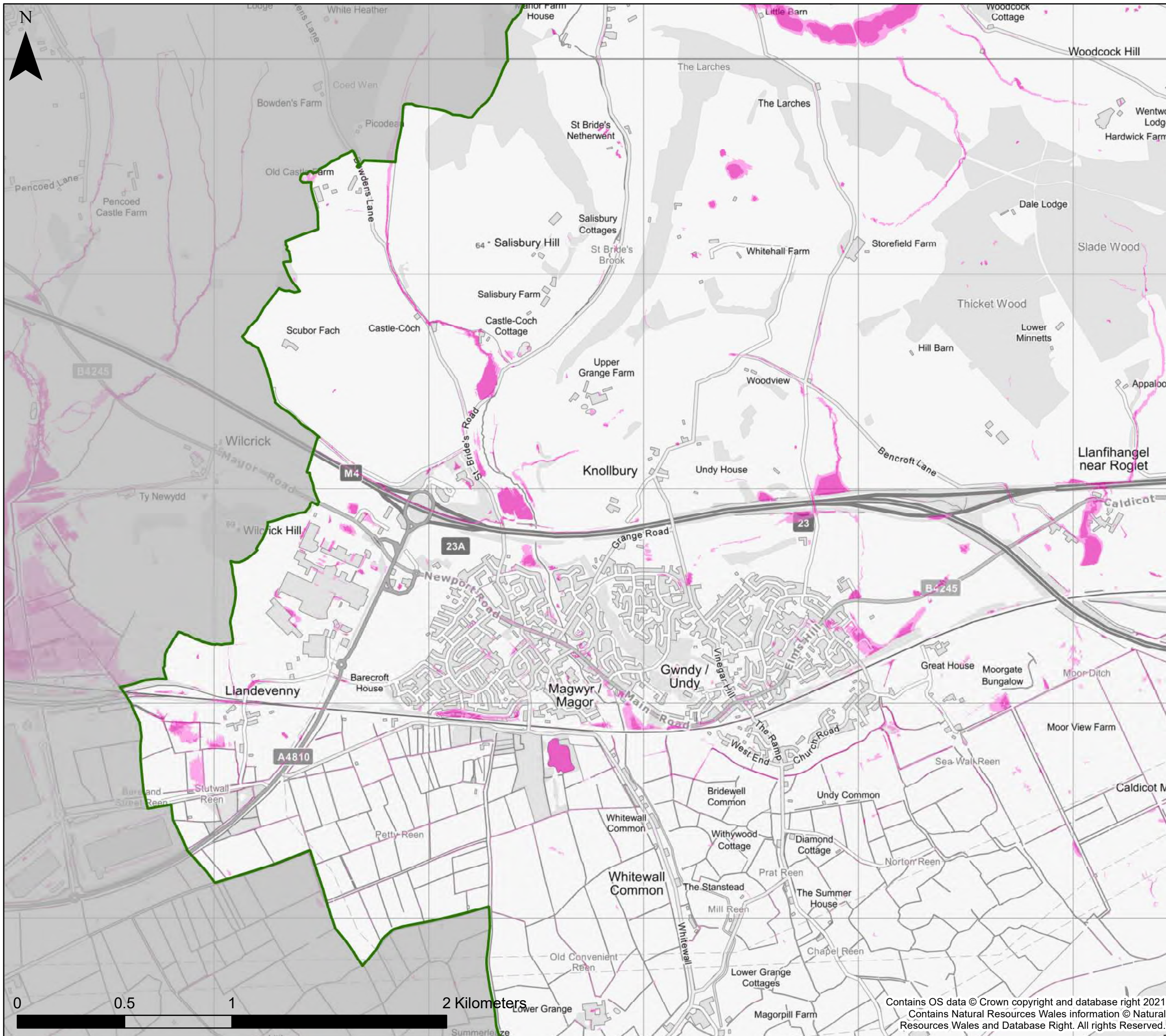
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Sea

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Page number	Drawn	HB	15/12/2021
6 of 6	Checked	DB	16/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

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KEY

Monmouthshire County Council

Surface Water and Small Watercourses

Zone 2

Zone 3

Notes
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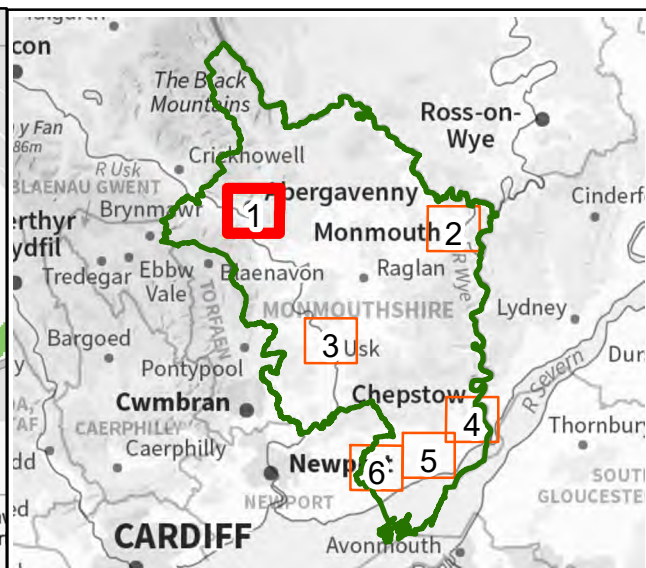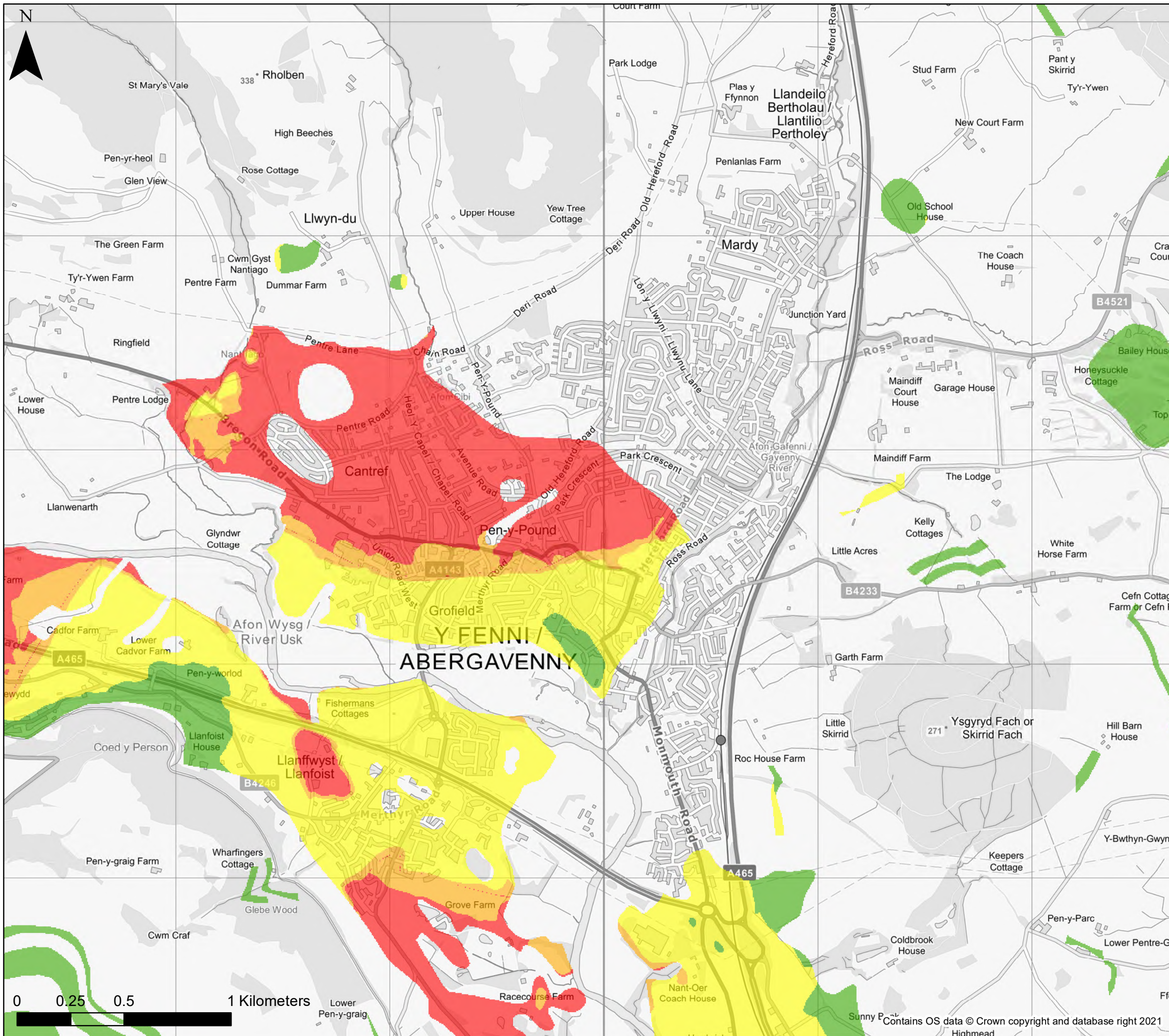
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Surface Water and Small Watercourses

Page number	Drawn	HB	13/12/2021
1 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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0   0.5   1   2 Kilometers

KEY

Monmouthshire County Council

Surface Water and Small Watercourses

Zone 2

Zone 3

Notes
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Monmouthshire County Council

Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Surface Water and Small Watercourses
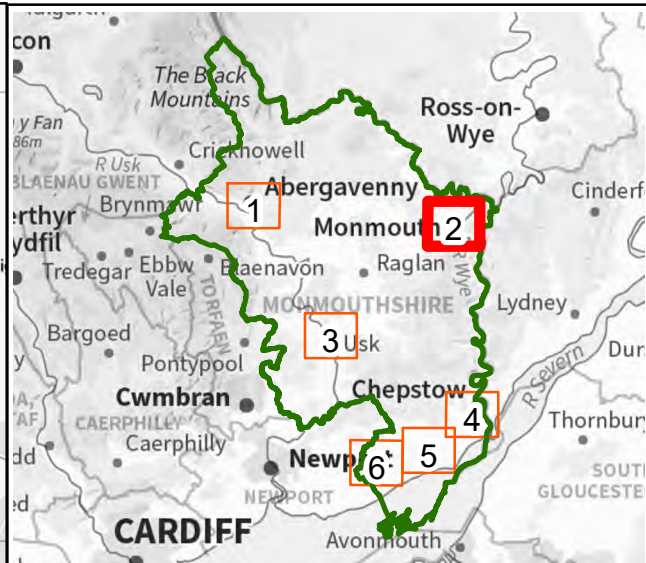
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Page number	Drawn	HB	13/12/2021
2 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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0   0.5   1   2 Kilometers

N

Shepherds
Cottage

Ty-Freeman Road   High Meadow

White House

Ty-Freeman Farm

Llancaeo /
Llancayo

Llancayo Farm

Cefntilla Court

Esvarney Farm

Coed y
Bywrrch
House

Llancaeo Hill

Spring Farm

Otavarney House

Henrhiw

138

Part of
Cwmcayo Farm

Cayo Brook

Park Wood

Pen-Twyn Farm

Rhadyr

Lady Hill Wood

The Keepers
Cottage

Park House

Lanolway Farm

Berthin Brook

Beech-Hill
Cottage

Coed-y-Brain
Cottage

Little
Castle
Farmhouse

Newbarn Farm

New Inn
Cottage

Newlands

Castle Farm

Lower
Maerdy Farm

Keepers Lodge

Afon Wysg /
River Usk

Nant Olwy
/ Olway Brook

Upper
Maerdy Farm

Blackwell Wood

Glen Oak
House

Monmouth Road

Chepstow Road

Ramma Cottage

Red Hill

New House Farm

The Yews

Cefn Ila Farm

BRYNBUGA /
USK

Derwen
Fawr Farm

A449

Cefn Ila
Cottage

Pant-y-cwcw Farm

Llanbadoc

148

Cilfeigian
Newydd

Rose Cottage

Cwmbir Farm

Cwm Bea

Springdale

Lower
Prescoed

Ty-Mawr Hill

Lanusk Farm

New House

Coed

The Bungalow

Adrian Court

y-nant

Dowlais Brook

Bittia Farm

Helmaen
Cottages

Pentwyn

Llanllowell
House

A449

Llewelyn's
Dingle

Ty'n-y-caeau

0   0.5   1   2 Kilometers

Yew Tree
Cottage

Cilgoed Barn

Little Cwm

157   Ty'n-y-caeau Hill

Glencourt Farm

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KEY

☐ Monmouthshire County Council

**Surface Water and Small
Watercourses**

Zone 2

Zone 3

Notes
The map shows the flood risk data and information based on the
map title and legend. If no data is displayed on the map, or not all
features are present, this indicates that the respective flood source
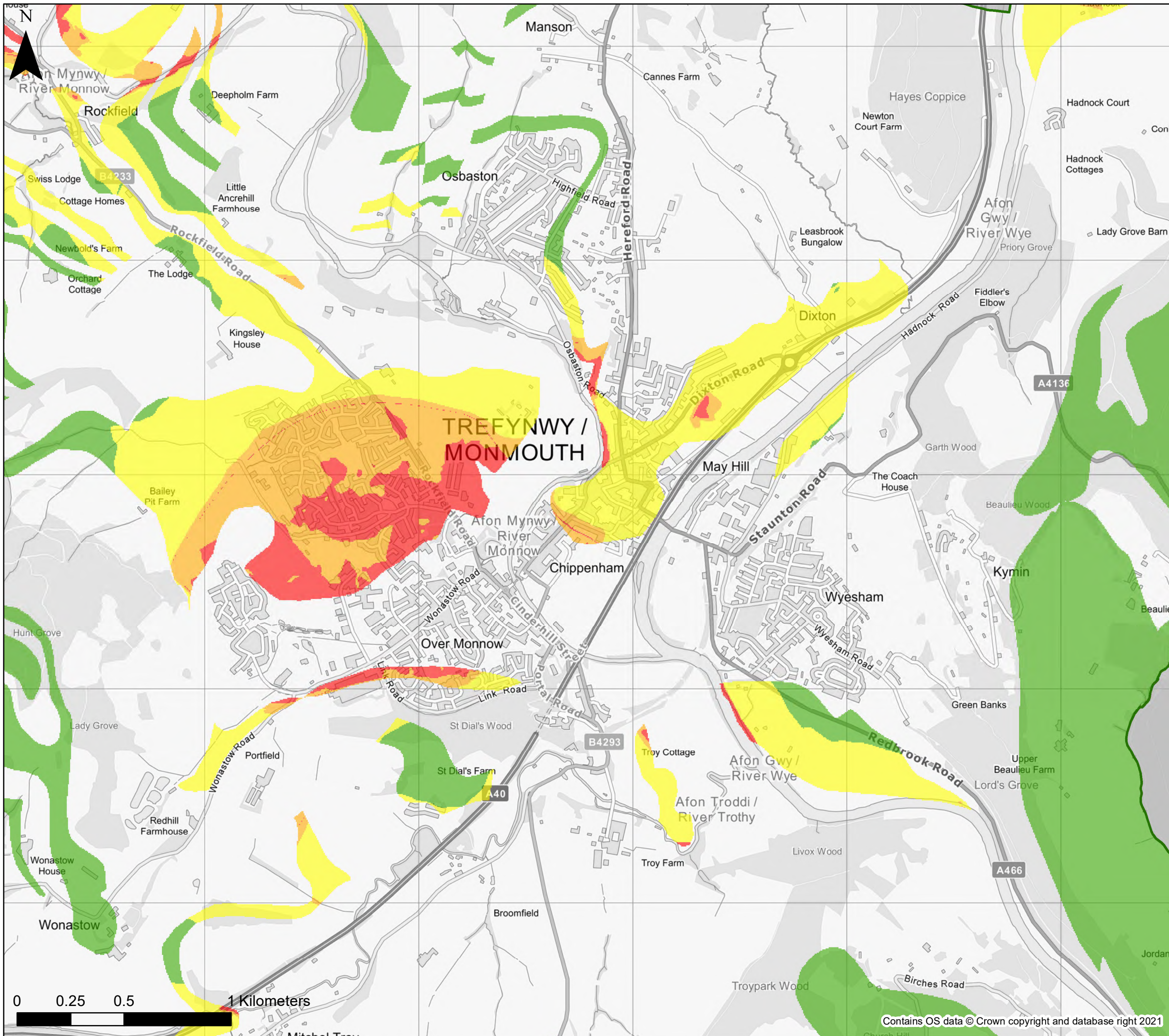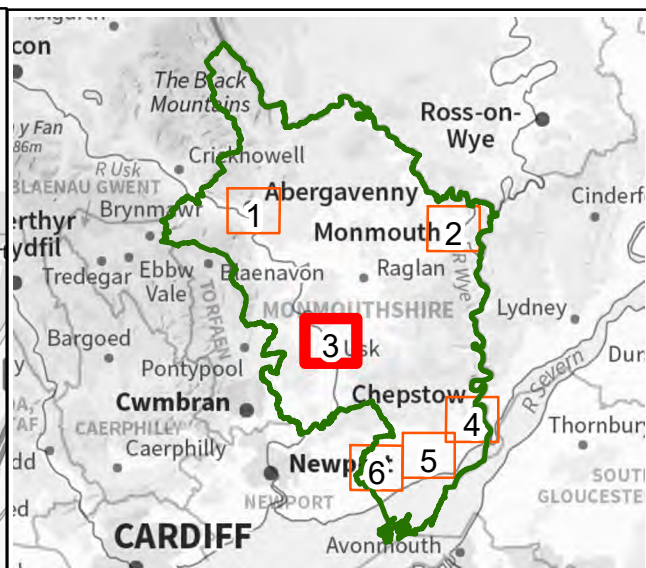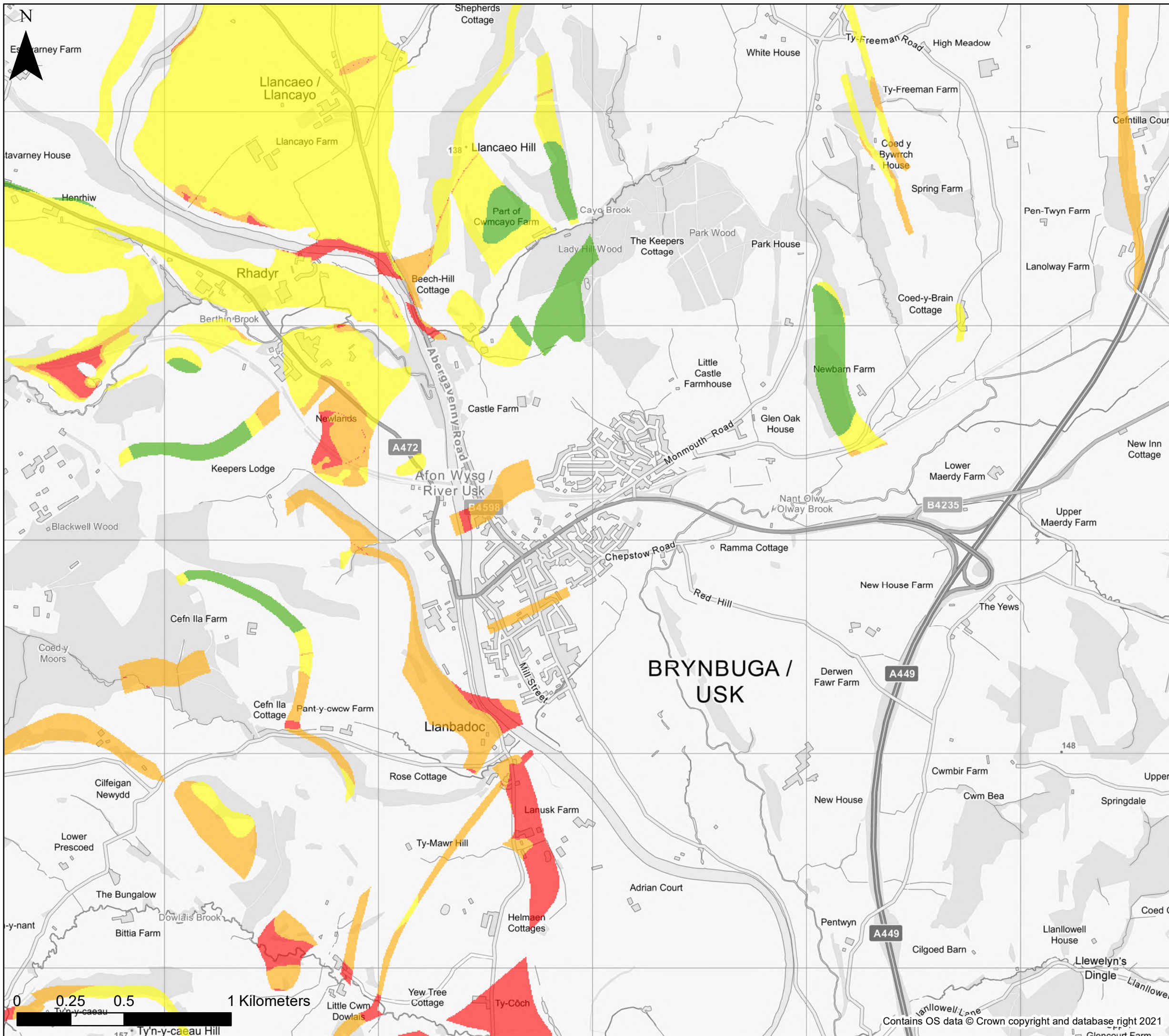or features are not present within this area.

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Stage 1 Strategic Flood
Consequences Assessment

*Flood Map for Planning- Surface
Water and Small Watercourses*

Page number	Drawn	HB	13/12/2021
3 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

CAS-GWENT /
CHEPSTOW

KEY

Monmouthshire County Council

Surface Water and Small Watercourses

Zone 2

Zone 3

Notes
The map shows the flood risk data and information based on the map title and legend. If no data is displayed on the map, or not all features are present, this indicates that the respective flood source or features are not present within this area.
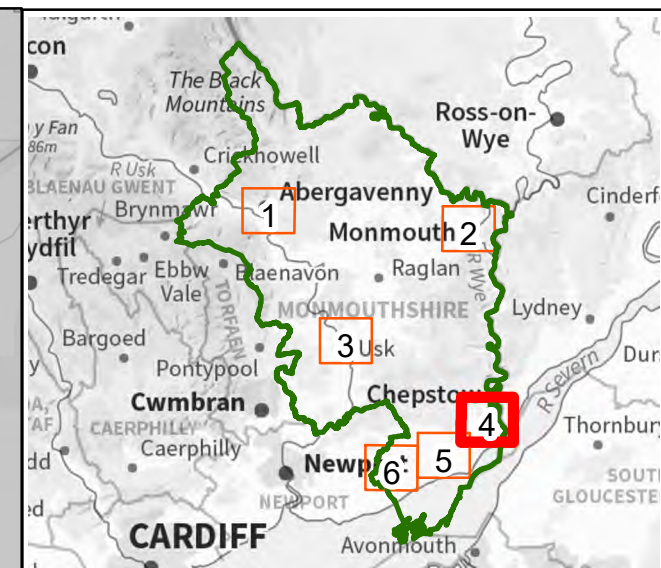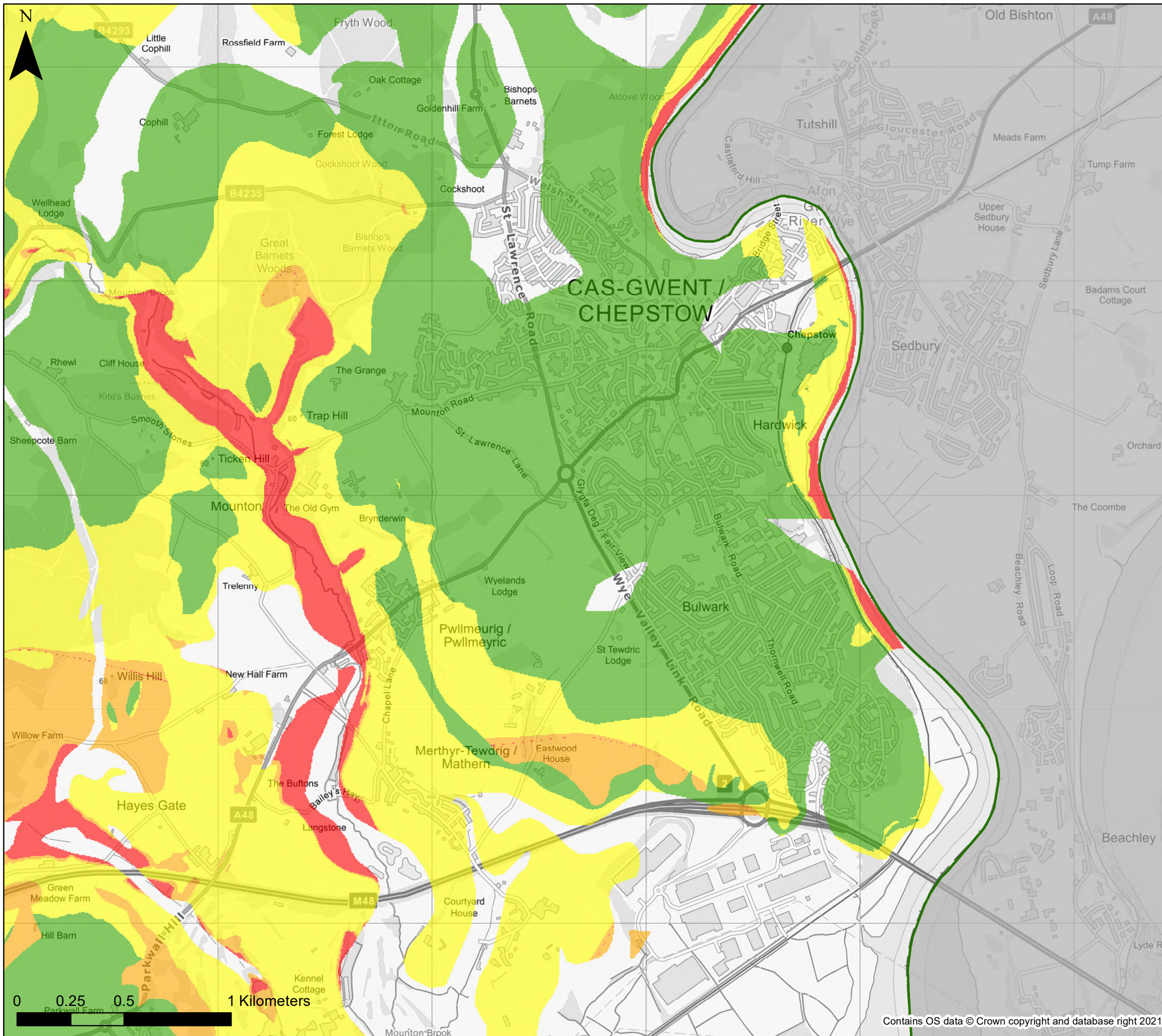
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Surface Water and Small Watercourses

Page number	Drawn	HB	13/12/2021
4 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

N

KEY

Monmouthshire County Council

Surface Water and Small Watercourses

Zone 2

Zone 3

Notes
The map shows the flood risk data and information based on the map title and legend. If no data is displayed on the map, or not all features are present, this indicates that the respective flood source or features are not present within this area.

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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Surface Water and Small Watercourses

Page number	Drawn	HB	13/12/2021
5 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

CIL-Y-COED / CALDICOT

KEY

Monmouthshire County Council

Surface Water and Small Watercourses

Zone 2

Zone 3

Notes
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Stage 1 Strategic Flood Consequences Assessment

Flood Map for Planning- Surface Water and Small Watercourses

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6 of 6	Checked	DB	15/12/2021
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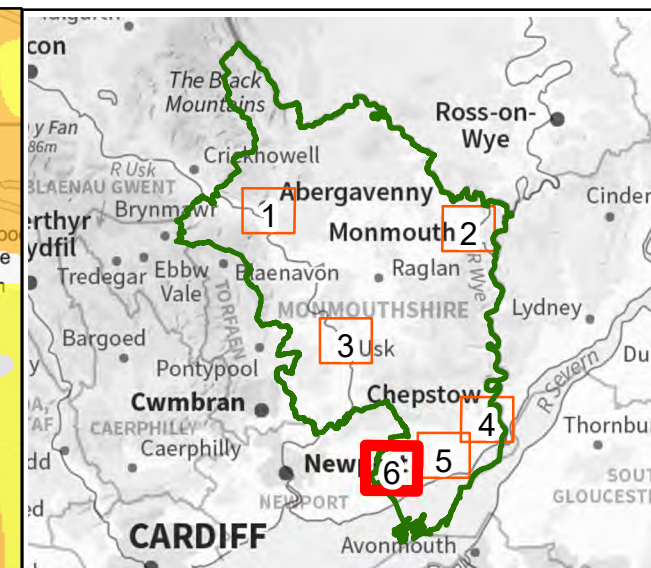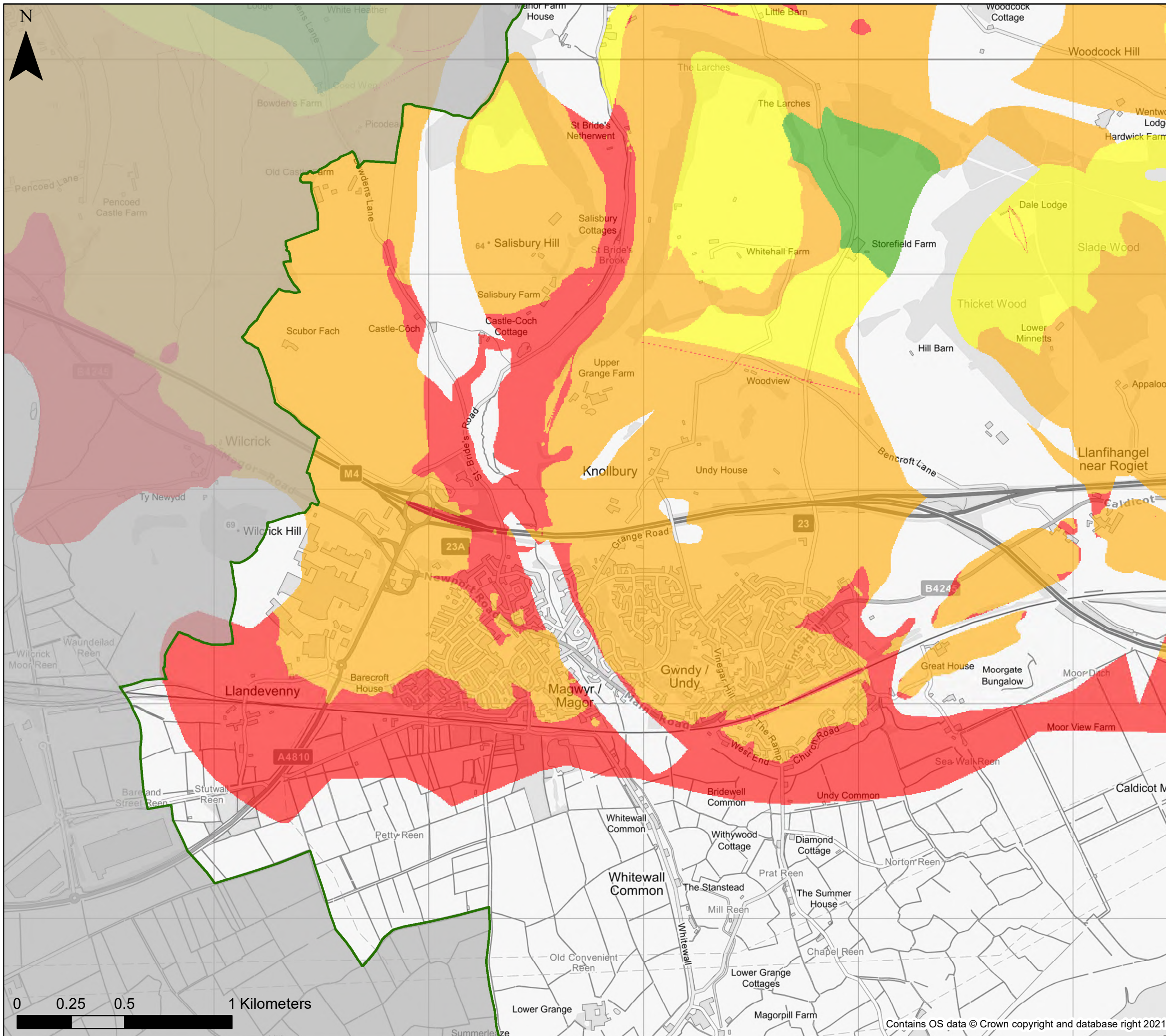
KEY

Notes
The map provides an indicative assessment of groundwater flood hazard on a 5m grid.
Please refer to Section 4 of the SFCA Report for further detail of the dataset used to define the potential for groundwater emergence.
The map shows the flood risk data and information based on the map title and legend.
If no data is displayed on the map, or not all features are present, this indicates that the respective flood source or features are not present within this area.

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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Groundwater

Page number	Drawn	HB	19/01/2022
1 of 6	Checked	PR	20/01/2022
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0   0.25   0.5   1 Kilometers

KEY

Monmouthshire County Council

Groundwater Flood Depth

Indicative Groundwater flood depth

Groundwater levels are at least 5m below the ground surface.

Groundwater levels are between 0.5m and 5m below the ground surface.

Groundwater levels are between 0.025m and 0.5m below the ground surface.

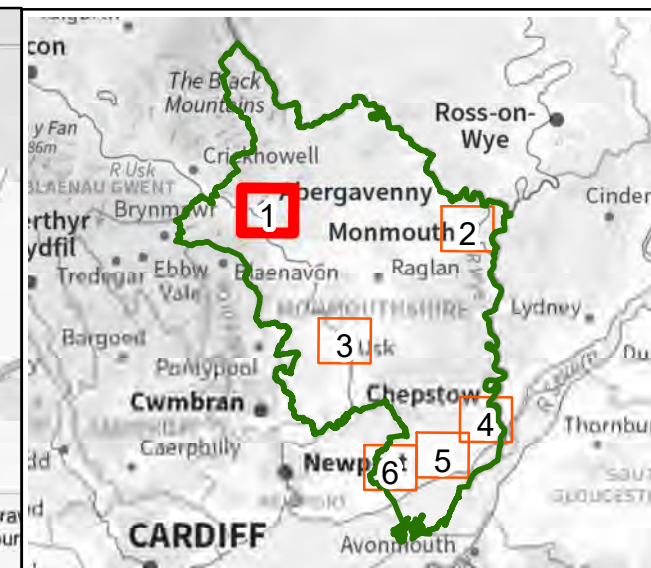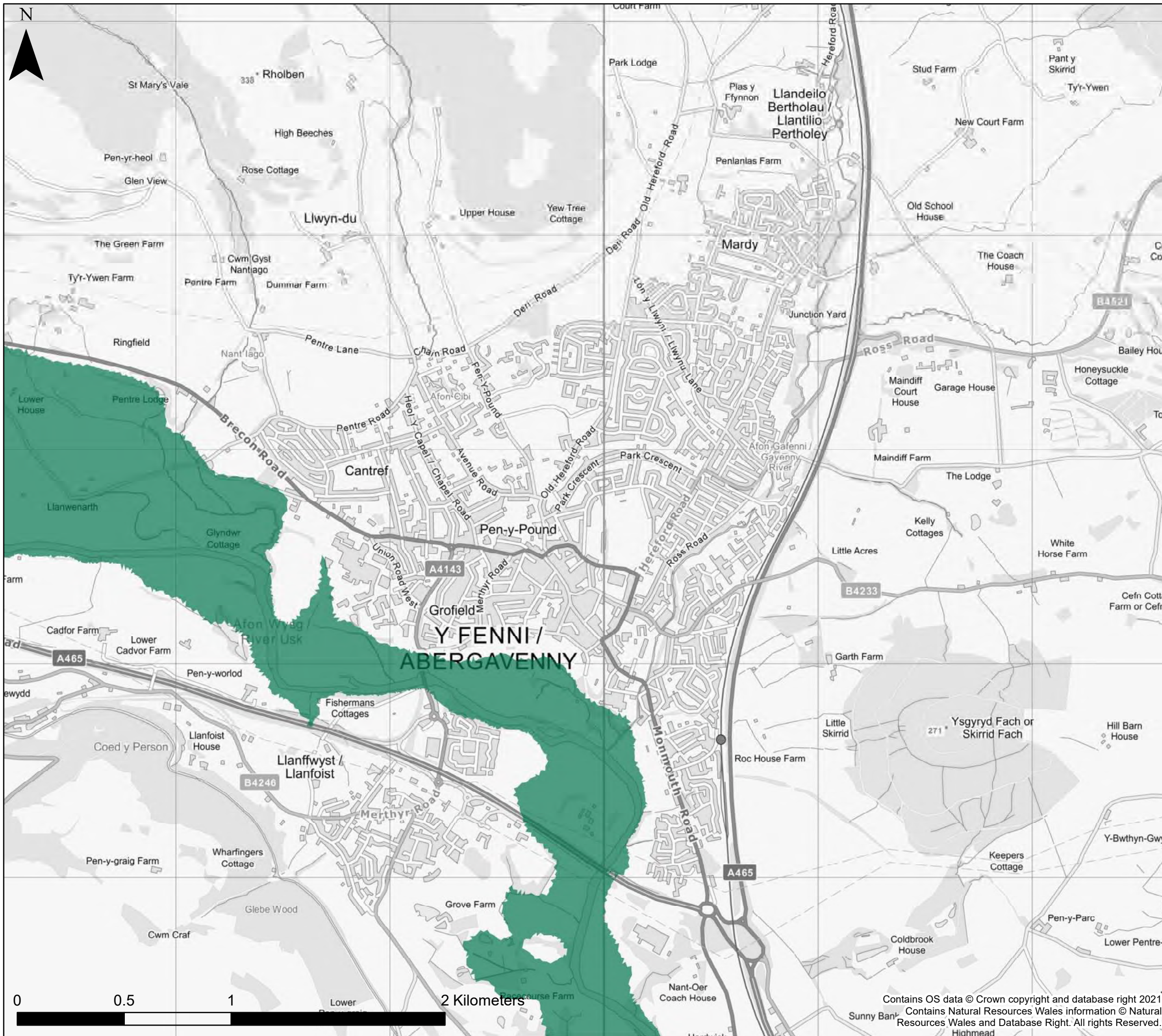Groundwater levels are either at or very near (within 0.025m of) the ground surface.

Low risk.

Notes

The map provides an indicative assessment of groundwater flood hazard on a 5m grid. Please refer to Section 4 of the SFCA Report for further detail of the dataset used to define the potential for groundwater emergence.

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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Groundwater

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Page number	Drawn	HB	19/01/2022
2 of 6	Checked	PR	20/01/2022
	Approved	GB	24/01/2022

0   0.25   0.5   1 Kilometers

KEY

Groundwater Flood Depth

Indicative Groundwater flood depth

- Groundwater levels are at least 5m below the ground surface.
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- Groundwater levels are between 0.025m and 0.5m below the ground surface.
- Groundwater levels are either at or very near (within 0.025m of) the ground surface.
- Low risk.

Monmouthshire County Council

Notes

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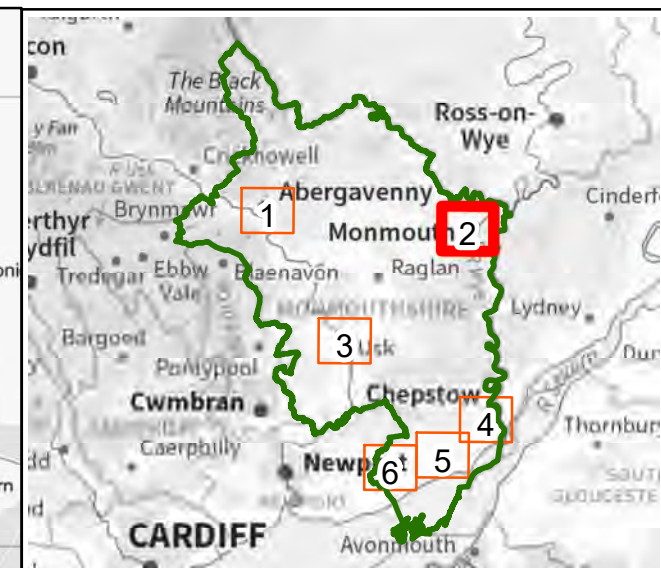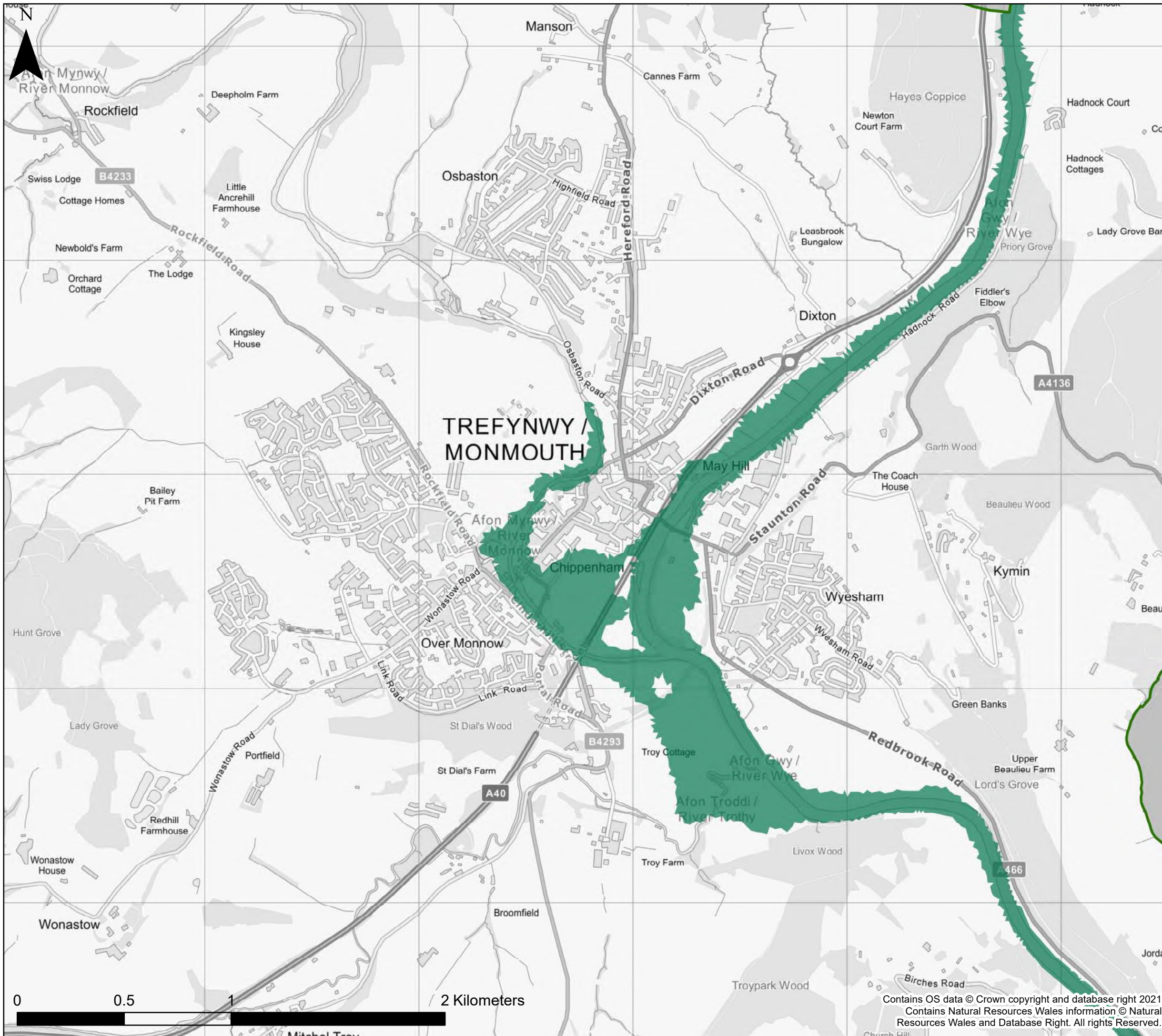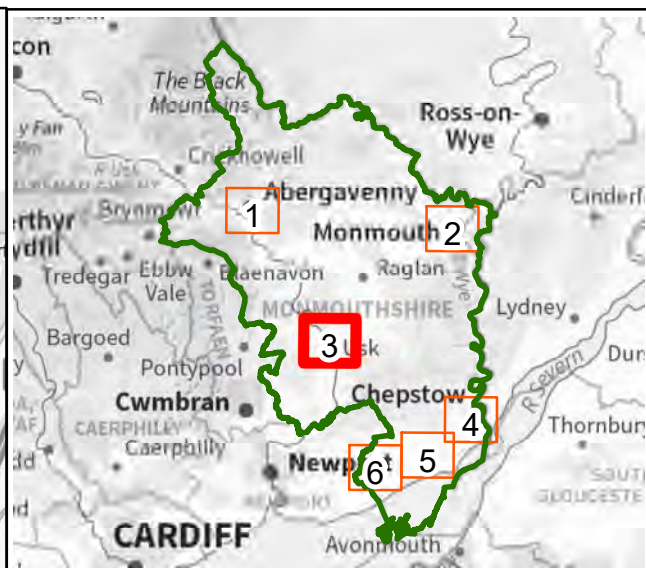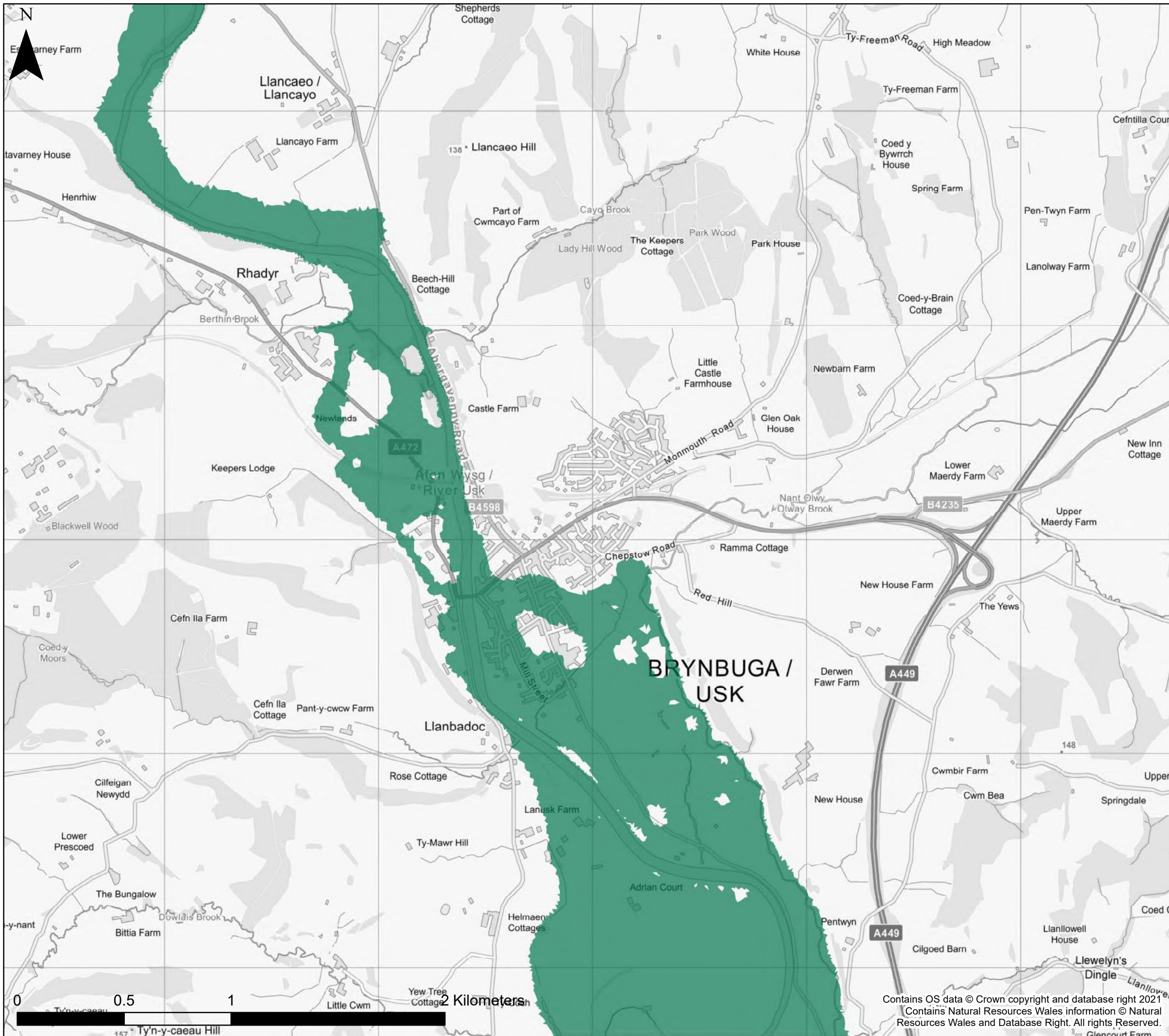JBA consulting

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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Groundwater

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Page number	Drawn	HB	19/01/2022
3 of 6	Checked	PR	20/01/2022
	Approved	GB	24/01/2022

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Groundwater Flood Depth

Groundwater Flood Depth

Indicative Groundwater flood depth

Monmouthshire County Council

Groundwater levels are at least 5m below the ground surface.

Groundwater levels are between 0.5m and 5m below the ground surface.

Groundwater levels are between 0.025m and 0.5m below the ground surface.

Groundwater levels are either at or very near (within 0.025m of) the ground surface.

Low risk.

Notes

The map provides an indicative assessment of groundwater flood hazard on a 5m grid. Please refer to Section 4 of the SFCA Report for further detail of the dataset used to define the potential for groundwater emergence.
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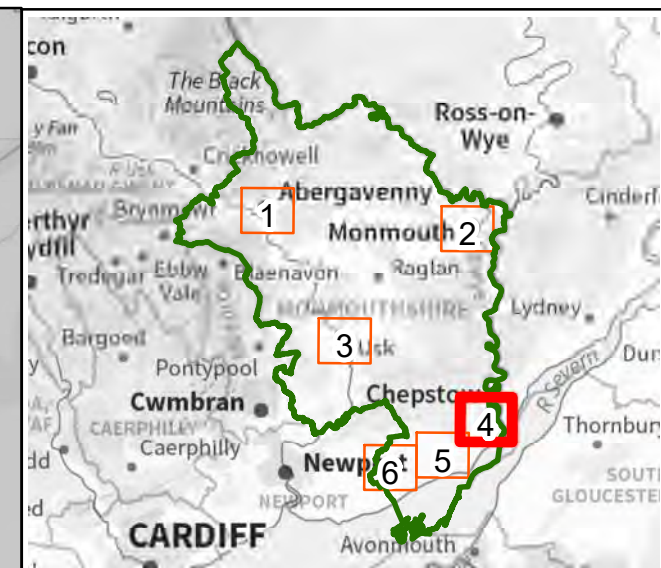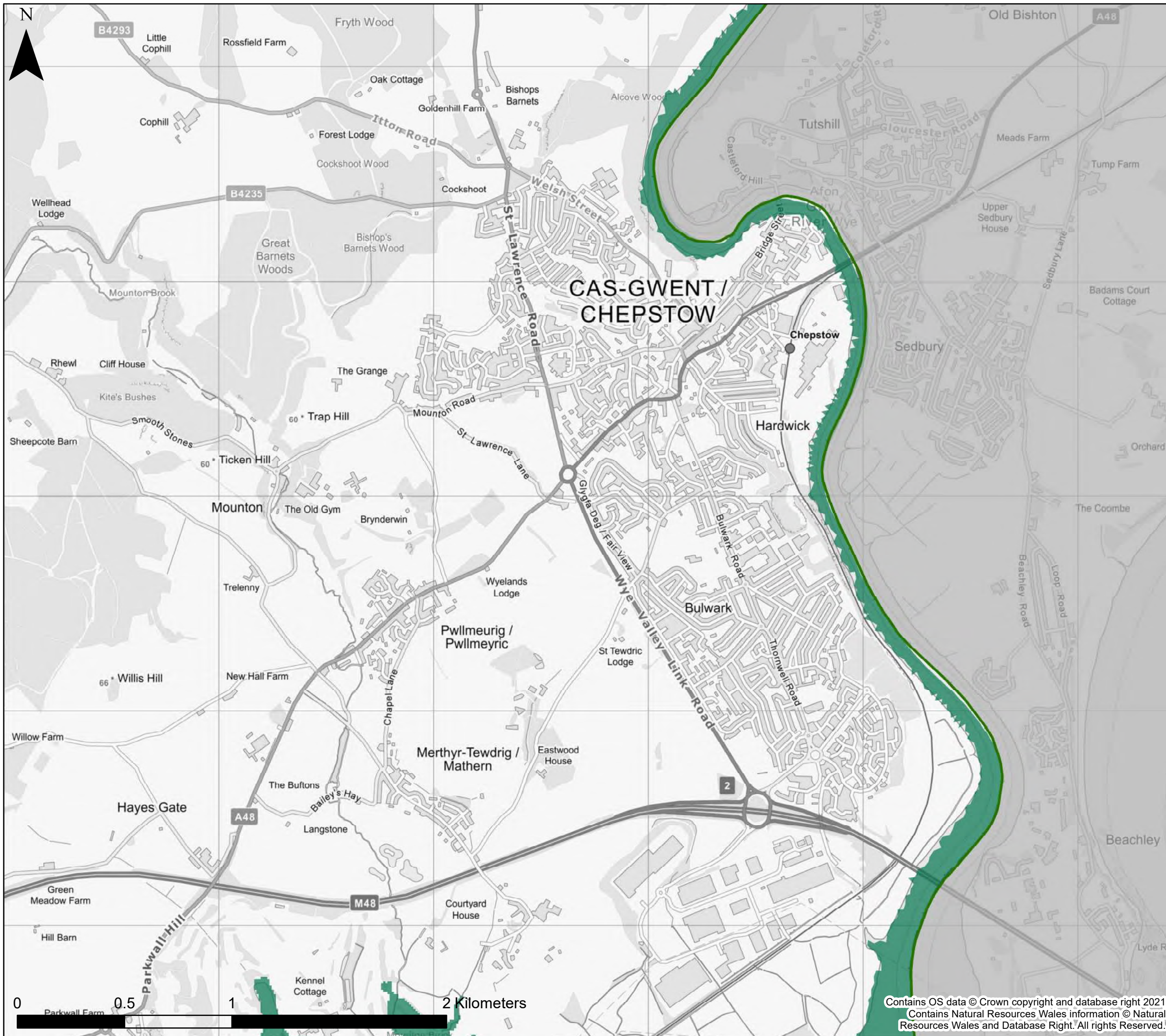
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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Groundwater

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4 of 6	Checked	PR	20/01/2022
	Approved	GB	24/01/2022

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Monmouthshire County Council

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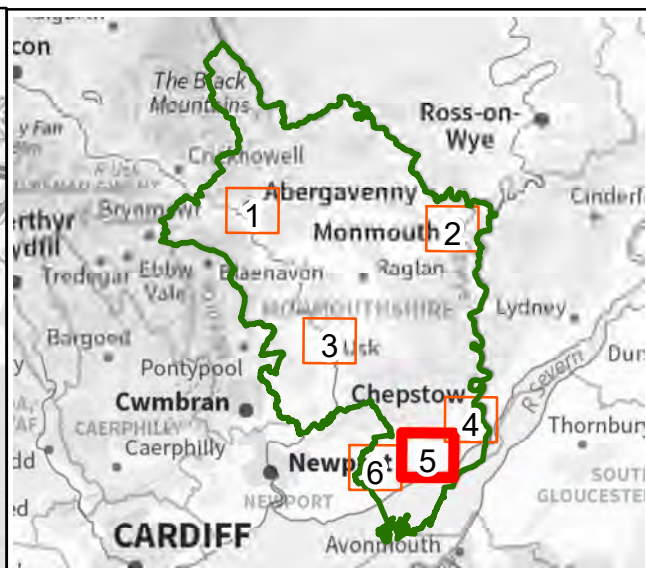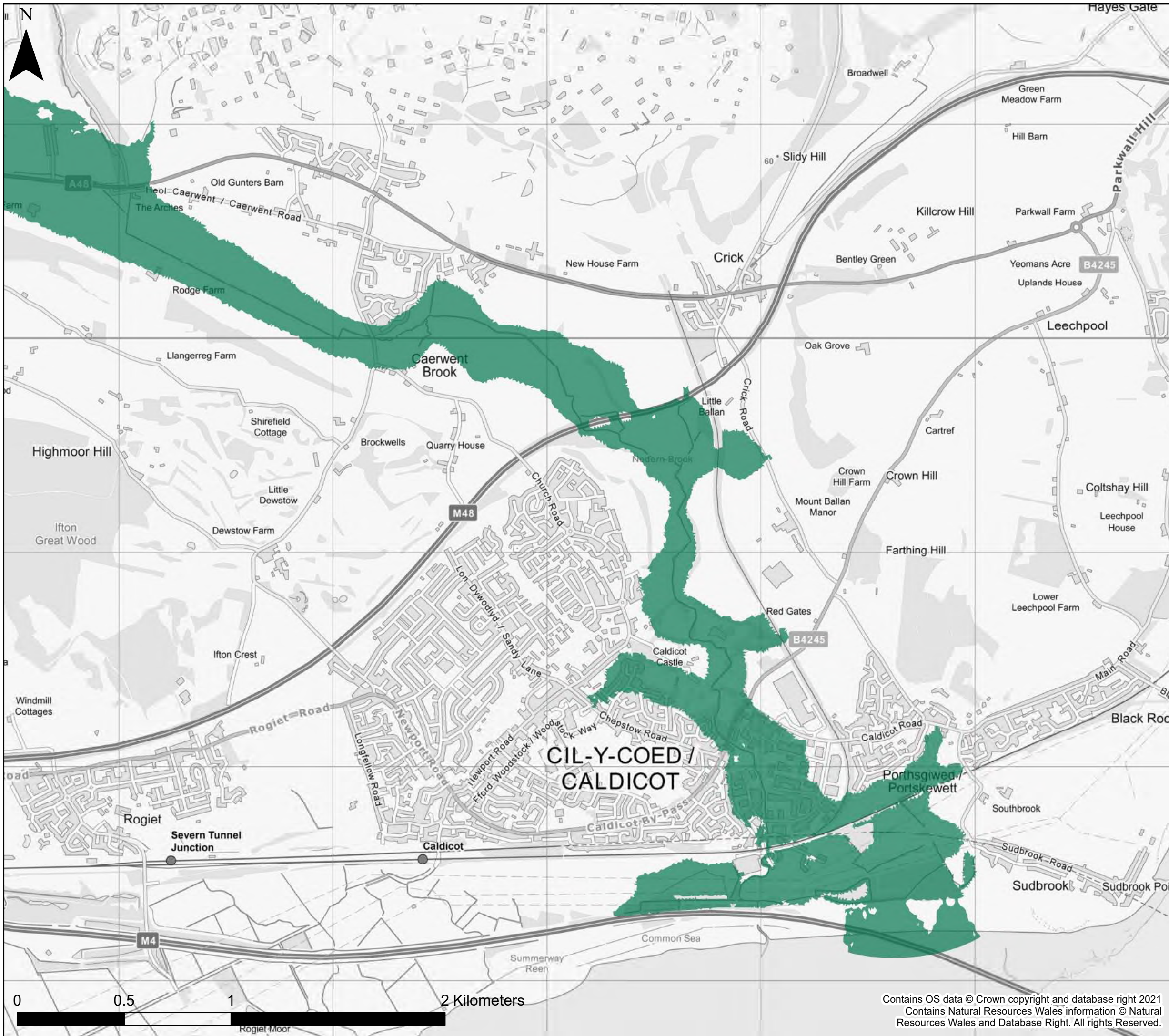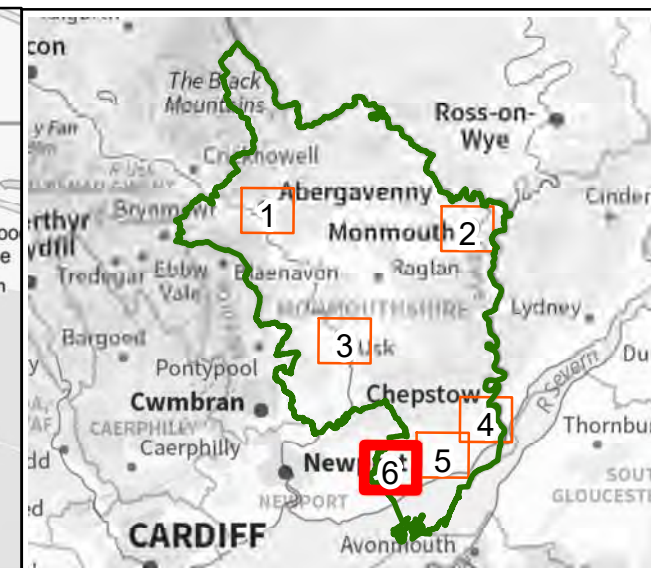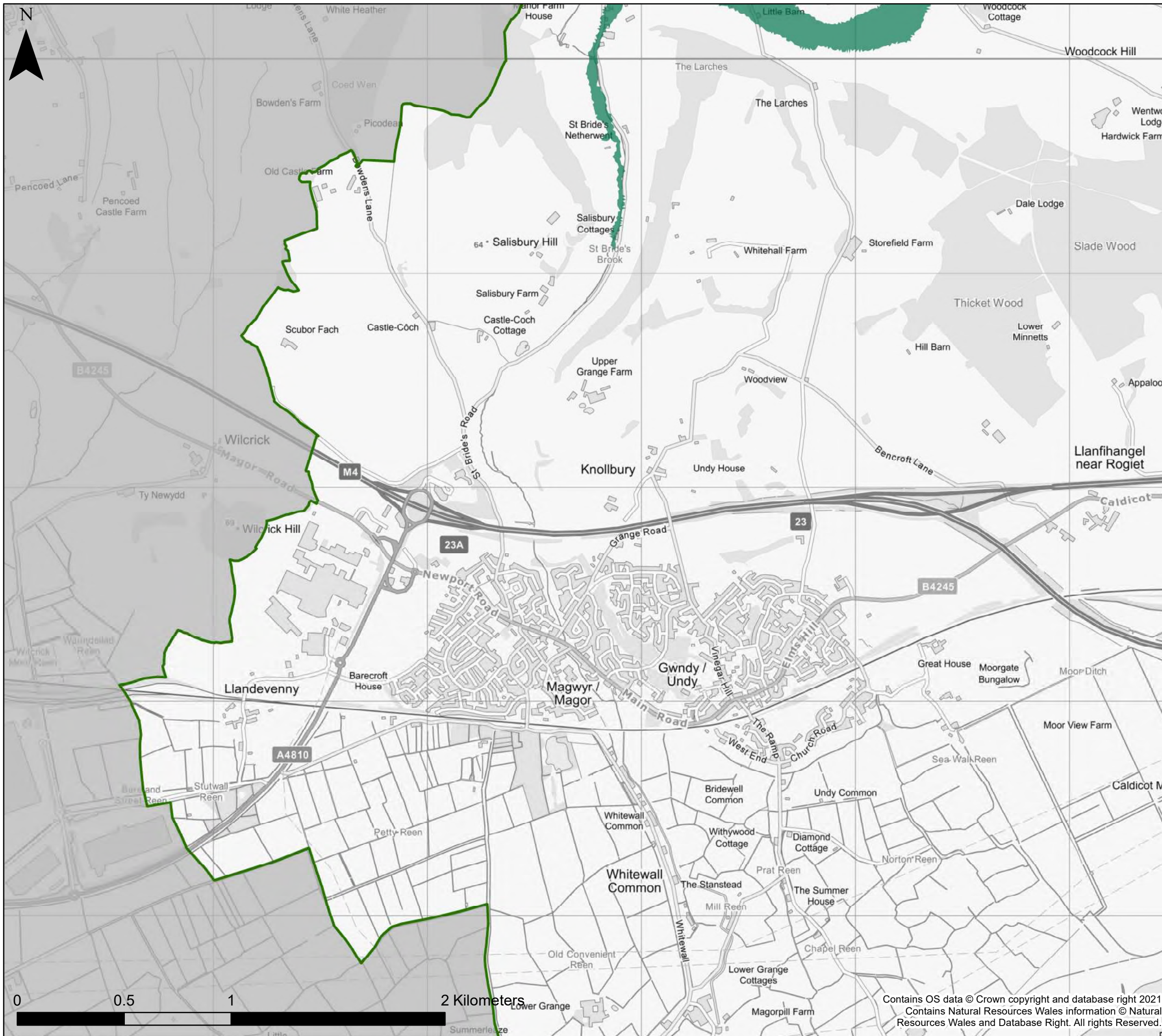
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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Groundwater

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5 of 6	Checked	PR	20/01/2022
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KEY

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Groundwater Flood Depth

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Low risk.

Notes

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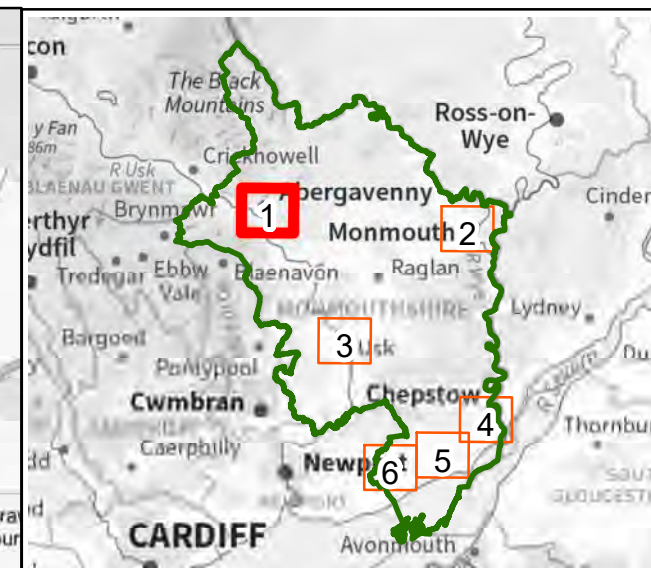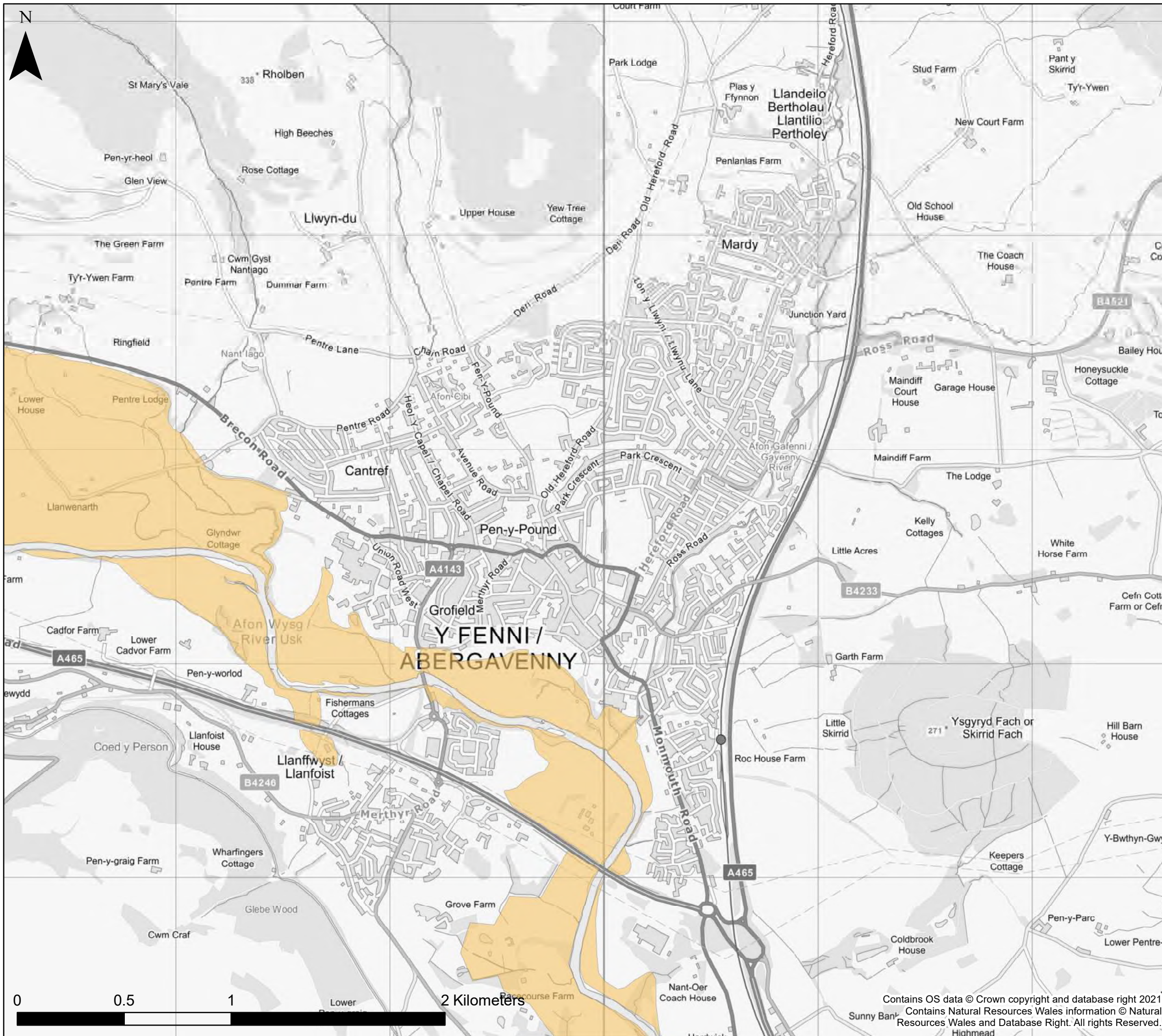
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Flood Risk from Groundwater

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Page number	Drawn	HB	19/01/2022
6 of 6	Checked	PR	20/01/2022
	Approved	GB	24/01/2022

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0   0.25   0.5   1 Kilometers

N

KEY

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Flood Risk from Reservoirs

Monmouthshire County Council

Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Reservoirs

Page number	Drawn	HB	13/12/2021
1 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

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N

KEY

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Flood Risk from Reservoirs

Notes
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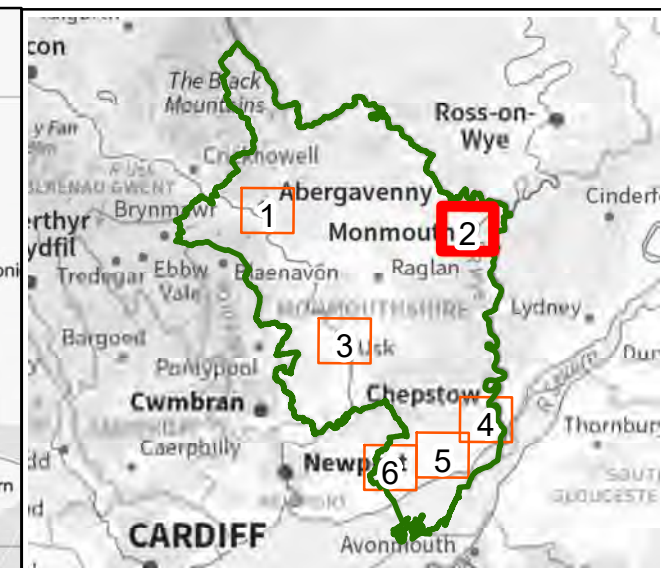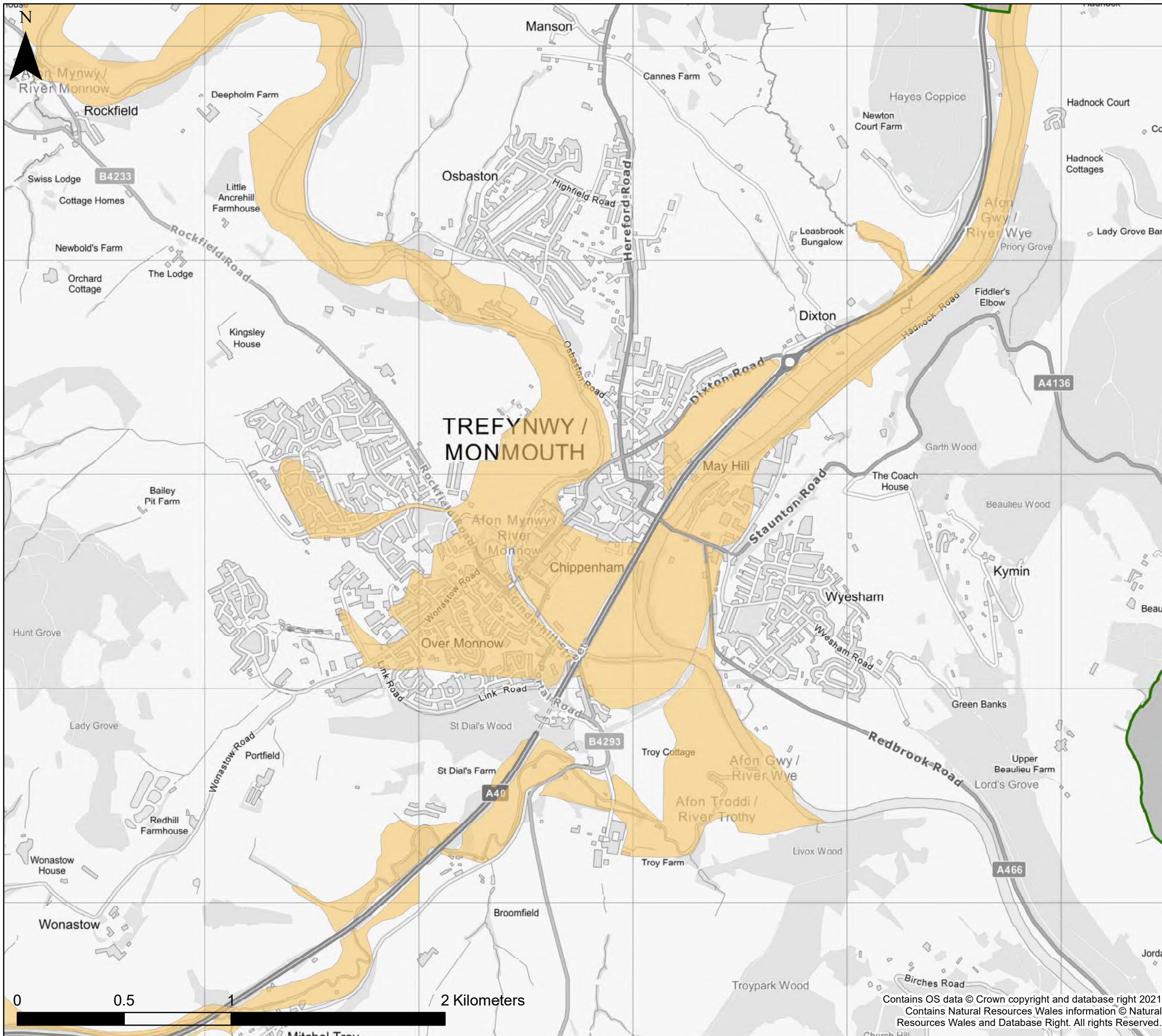
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Stage 1 Strategic Flood
Consequences Assessment

Flood Risk from Reservoirs

Page number	Drawn	HB	13/12/2021
2 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

N

Monmouthshire County Council

Flood Risk from Reservoirs

Llancaeo / Llancayo

Shepherds Cottage

White House

Ty-Freeman Road

High Meadow

Ty-Freeman Farm

Cefntilla Court

Coed y Bywrrch House

Llancayo Farm

138 · Llancaeo Hill

Spring Farm

Octavarney House

Part of Cwmcayo Farm

Cayo Brook

Pen-Twyn Farm

Henrhiw

Park Wood

Lady Hill Wood

The Keepers Cottage

Park House

Lanolway Farm

Rhadyr

Beech-Hill Cottage

Berthin Brook

Coed-y-Brain Cottage

A472

Newlands

Castle Farm

Little Castle Farmhouse

Newbarn Farm

Keepers Lodge

Afon Wysg / River Usk

Glen Oak House

New Inn Cottage

Blackwell Wood

B4598

Monmouth Road

Lower Maerdy Farm

B4235

Nant Olwy / Olway Brook

Upper Maerdy Farm

Chepstow Road

Ramma Cottage

Red Hill

New House Farm

The Yews

Coed-y-Moors

Cefn Ila Farm

Cefn Ila Cottage

Pant-y-cwcw Farm

Mill Street

BRYNBUGA / USK

Derwen Fawr Farm

A449

Llanbadoc

Cwmbir Farm

Cwm Bea

Springdale

Upper

Cilfeigan Newydd

Rose Cottage

Lanusk Farm

New House

148

Lower Prescoed

Ty-Mawr Hill

Adrian Court

Llanllowell House

Coed C

The Bungalow

y-nant

Dowlais Brook

Helmaen Cottages

Pentwyn

A449

Cilgoed Barn

Llewelyn's Dingle

Bittia Farm

Yew Tree Cottage

Little Cwm

2 Kilometers

Ty'n-y-caeau Hill

157

0   0.5   1

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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Reservoirs

Page number	Drawn	HB	13/12/2021
3 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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Flood Risk from Reservoirs

Notes
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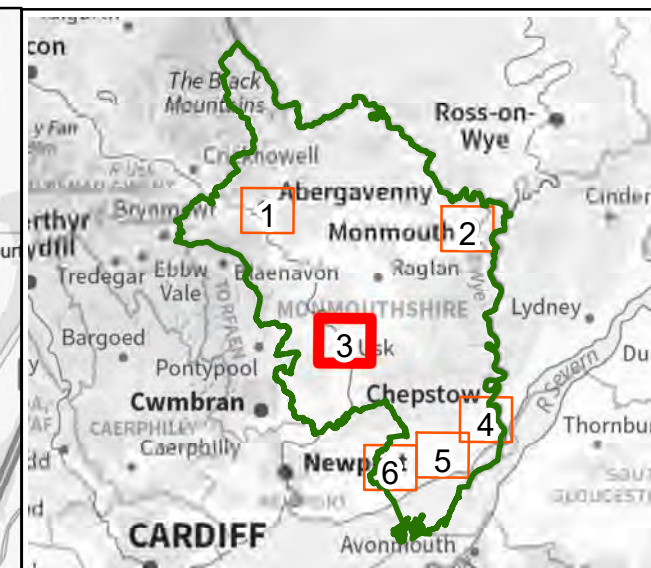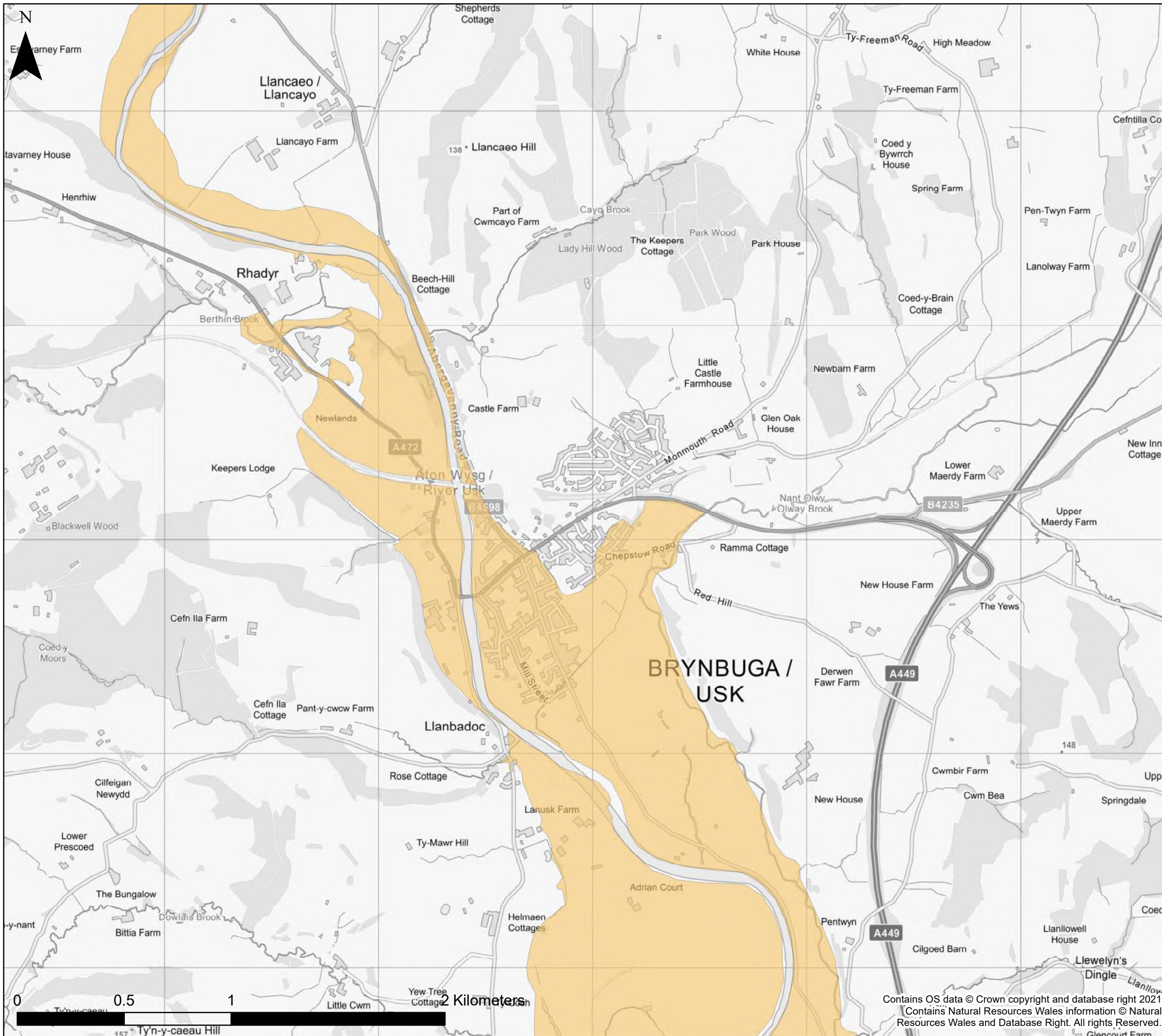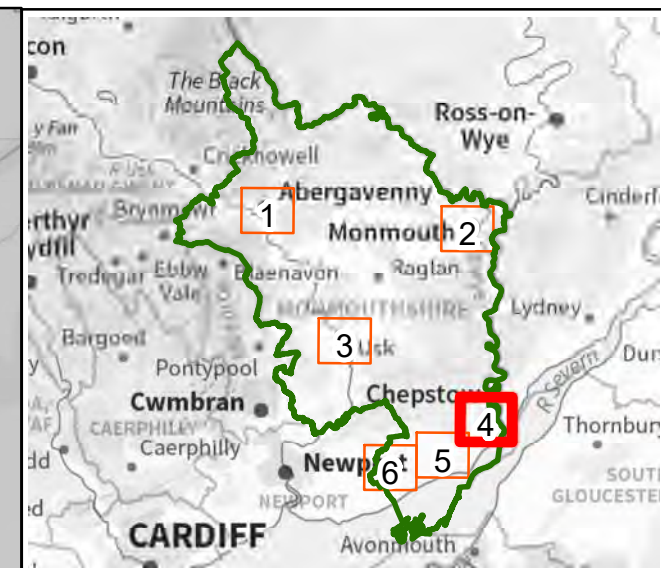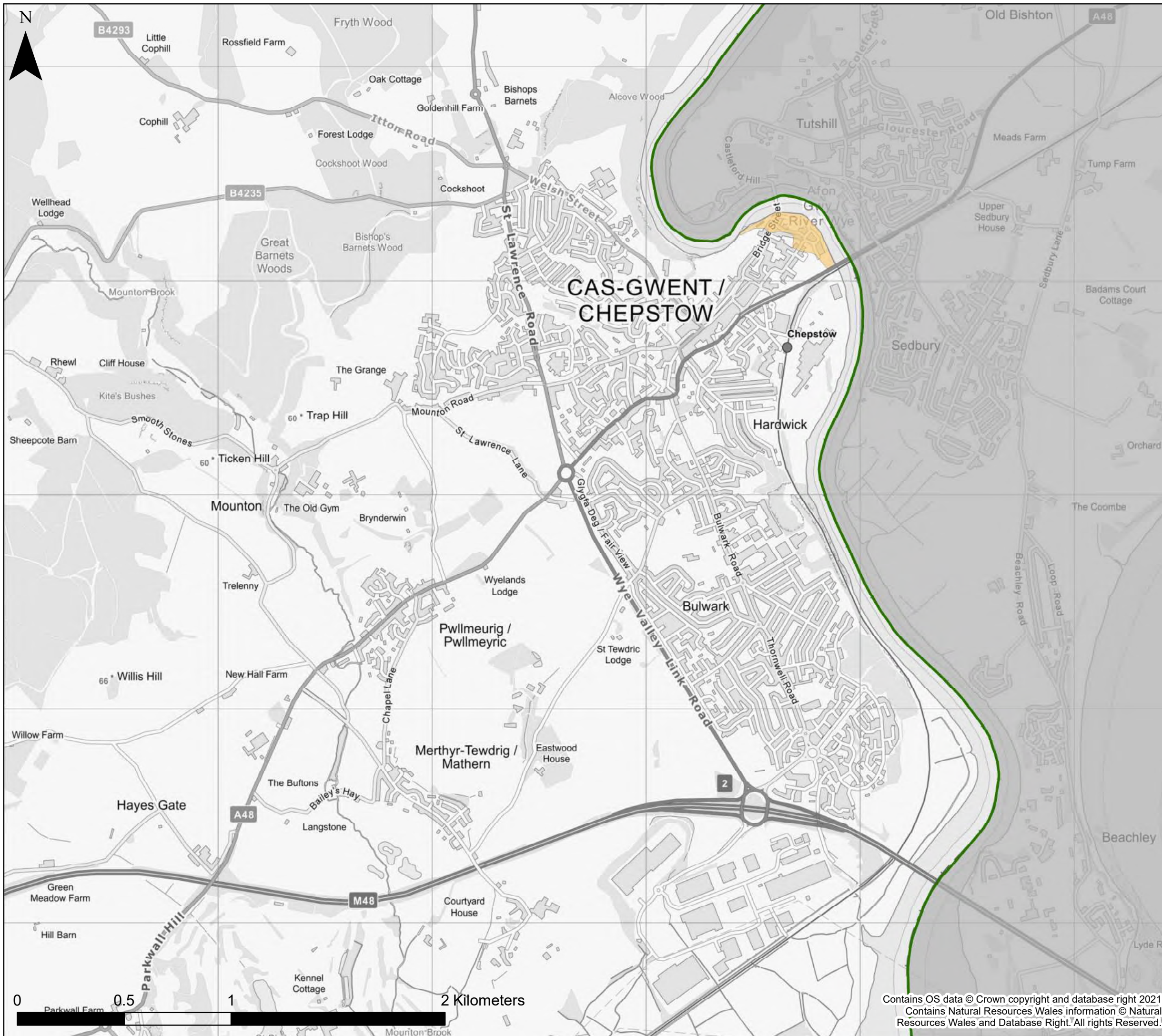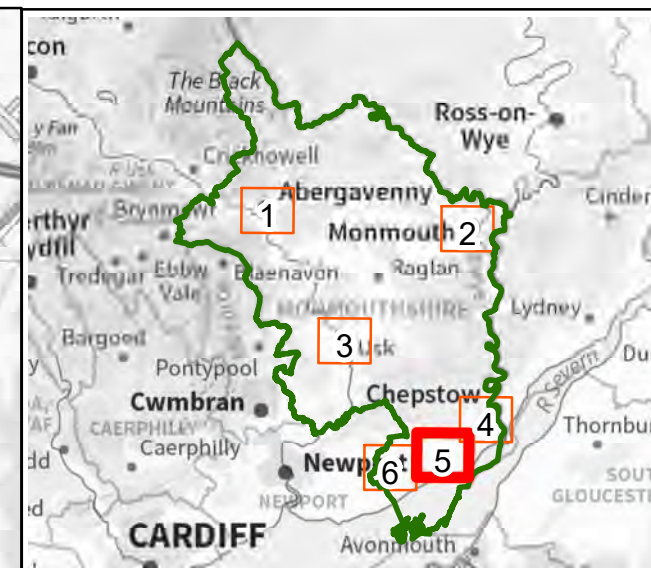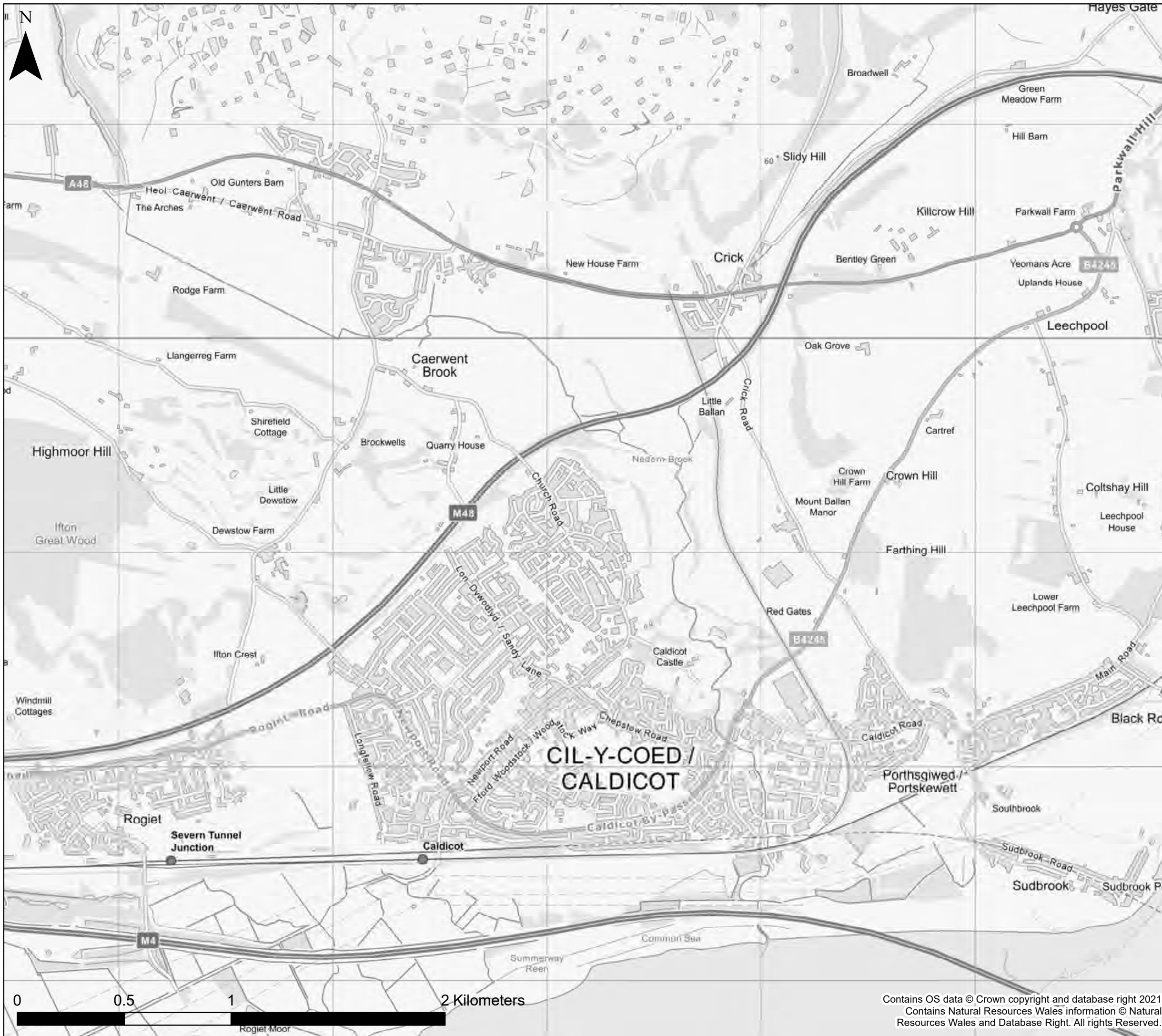
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Stage 1 Strategic Flood
Consequences Assessment

Flood Risk from Reservoirs

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Page number	Drawn	HB	13/12/2021
4 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

0   0.5   1   2 Kilometers

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Flood Risk from Reservoirs

Notes
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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Reservoirs
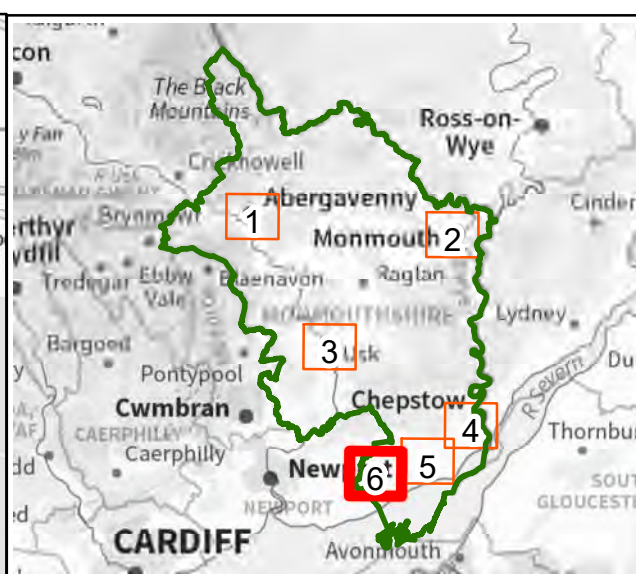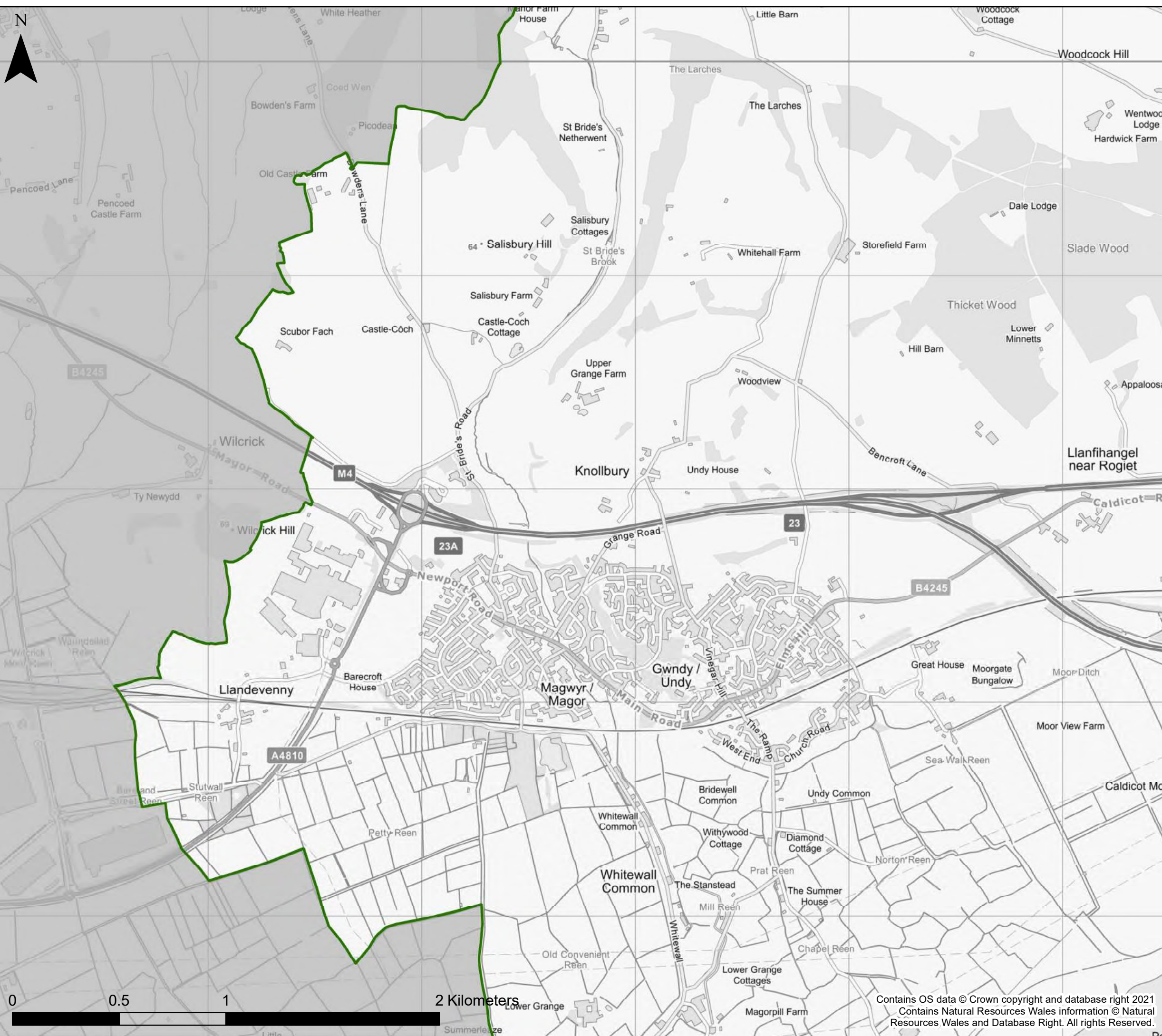
Page number	Drawn	HB	13/12/2021
5 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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Flood Risk from Reservoirs

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Stage 1 Strategic Flood Consequences Assessment

Flood Risk from Reservoirs

Page number	Drawn	HB	13/12/2021
6 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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0   0.5   1   2 Kilometers

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NRW Recorded Flood Extents

Notes
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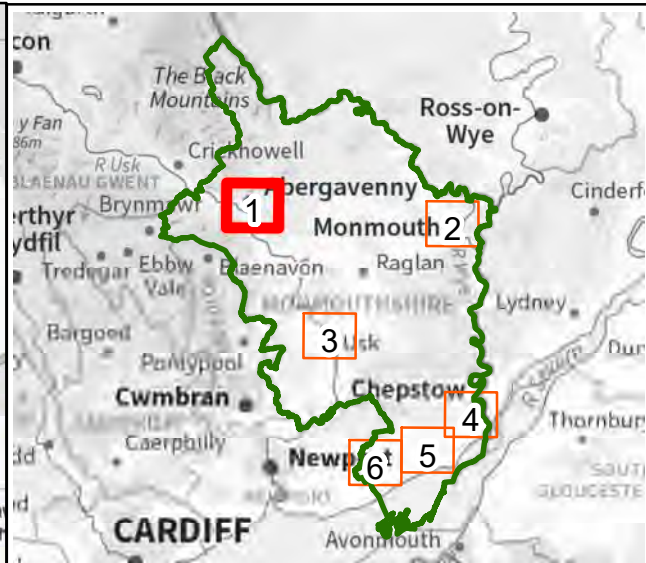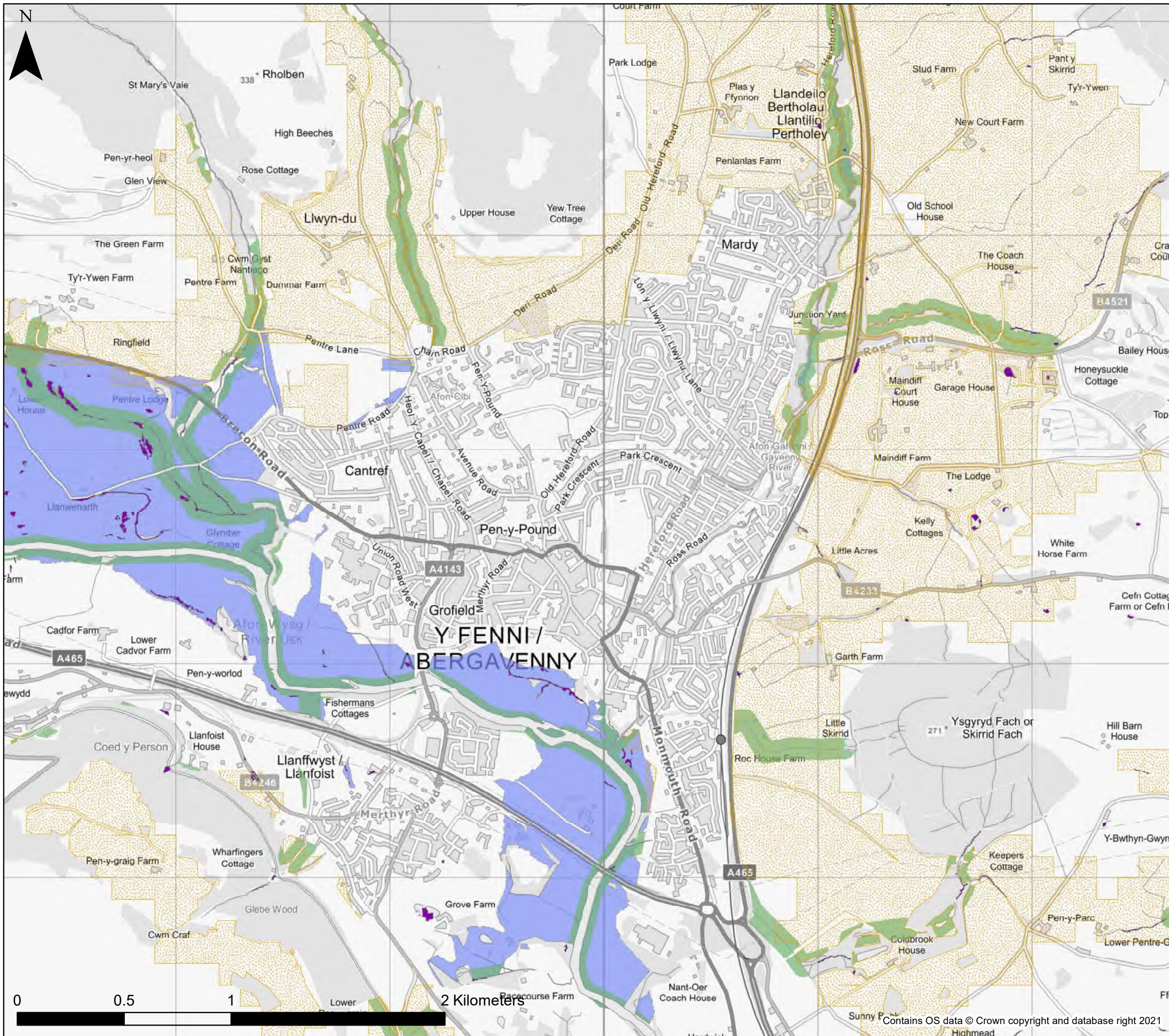
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Stage 1 Strategic Flood Consequences Assessment

Historic Flooding

Page number	Drawn	HB	10/12/2021
1 of 6	Checked	DB	13/12/2021
	Approved	GB	15/12/2021

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NRW Recorded Flood Extents

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Stage 1 Strategic Flood Consequences Assessment

Historic Flooding

Page number	Drawn	HB	10/12/2021
2 of 6	Checked	DB	13/12/2021
	Approved	GB	15/12/2021

0   0.5   1   2 Kilometers

TREFYNWY / MONMOUTH

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Monmouthshire County Council
NRW Recorded Flood Extents

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Stage 1 Strategic Flood Consequences Assessment

Historic Flooding

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Page number	Drawn	HB	10/12/2021
3 of 6	Checked	DB	13/12/2021
	Approved	GB	15/12/2021

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0   0.5   1   2 Kilometers

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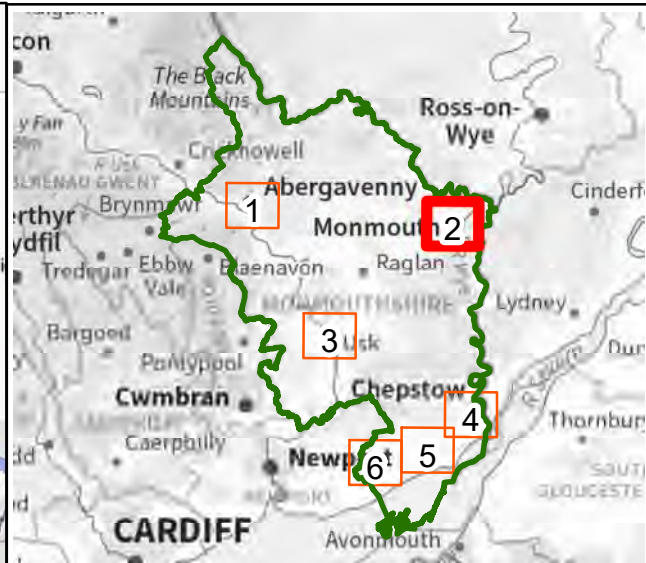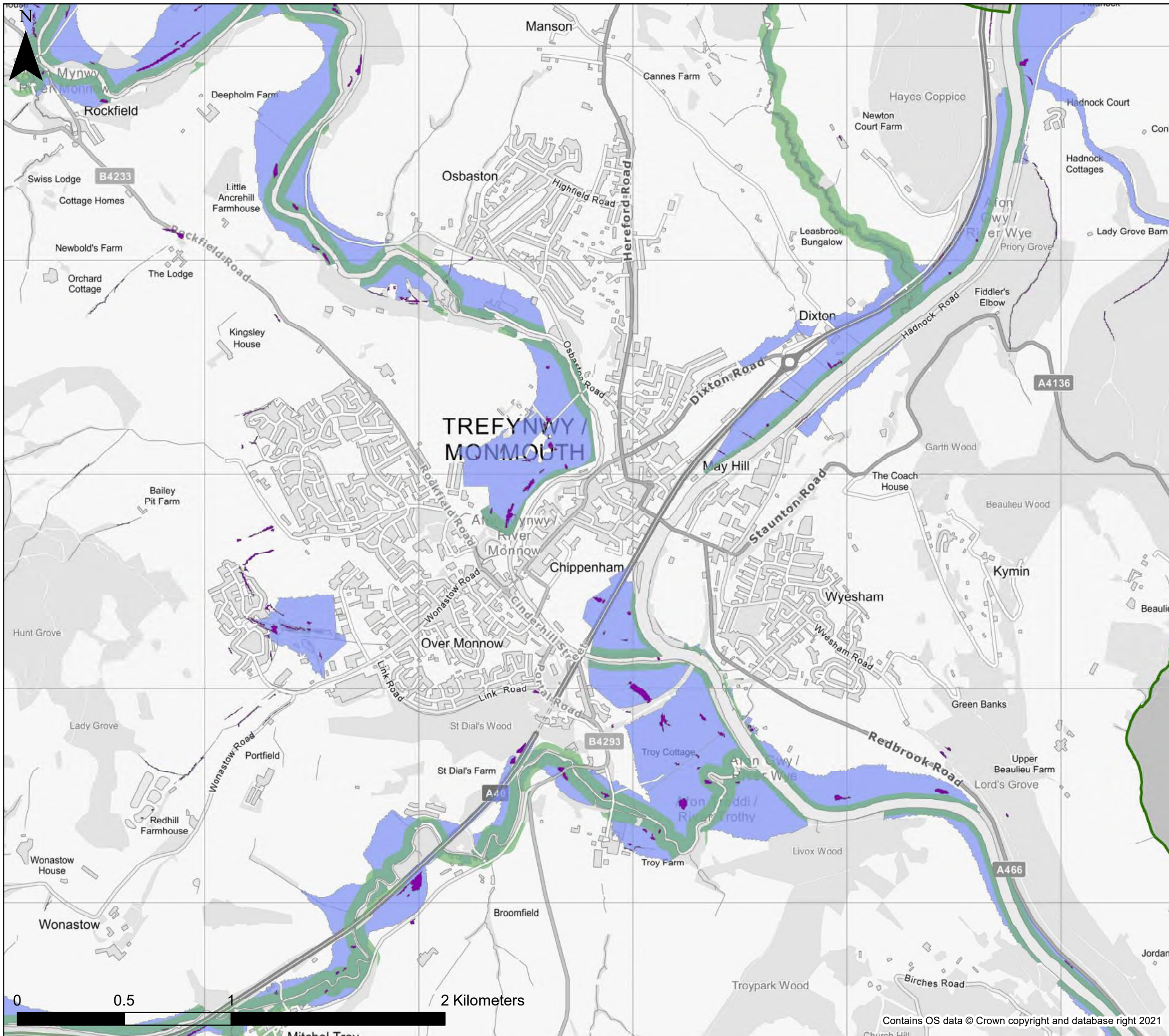
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Historic Flooding

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Page number	Drawn	HB	10/12/2021
4 of 6	Checked	DB	13/12/2021
	Approved	GB	15/12/2021

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N

A48

Hayes Gate

Broadwell

Green Meadow Farm

Hill Barn

Slidy Hill   60

Killcrow Hill   Parkwall Farm   Parkwall Hill

Old Gunters Barn

Heol Caerwent / Caerwent Road

The Arches

Crick

Bentley Green

Yeomans Acre   B4245

Uplands House

New House Farm

Rodge Farm

Leechpool

Llangerreg Farm

Caerwent Brook

Oak Grove

Little Ballan

Crick Road

Cartref

Highmoor Hill

Shirefield Cottage

Brockwells

Quarry House

Nedern Brook

Crown Hill Farm

Crown Hill

Coltshay Hill

Little Dewstow

M48

Church Road

Mount Ballan Manor

Leechpool House

Ifton Great Wood

Dewstow Farm

Farthing Hill

Ifton Crest

Lon Dywodlyd / Sandy Lane

Red Gates

B4245

Lower Leechpool Farm

Windmill Cottages

Caldicot Castle

Main Road

Black Rock

Newport Road   Ffordd Woodstock / Woodstock Way

Chepstow Road

Caldicot Road

Longfellow Road

CIL-Y-COED / CALDICOT

Porthsgiwed / Portskewett

Rogiet

Southbrook

Severn Tunnel Junction

Caldicot By-pass

Caldicot

Sudbrook Road

M4

Sudbrook

Sudbrook Poi

Common Sea

Summerway Reen

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Rogiet Moor

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[box] NRW Recorded Flood Extents

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Stage 1 Strategic Flood
Consequences Assessment

Historic Flooding

Page number	Drawn	HB	10/12/2021
5 of 6	Checked	DB	13/12/2021
	Approved	GB	15/12/2021

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Stage 1 Strategic Flood Consequences Assessment

Historic Flooding

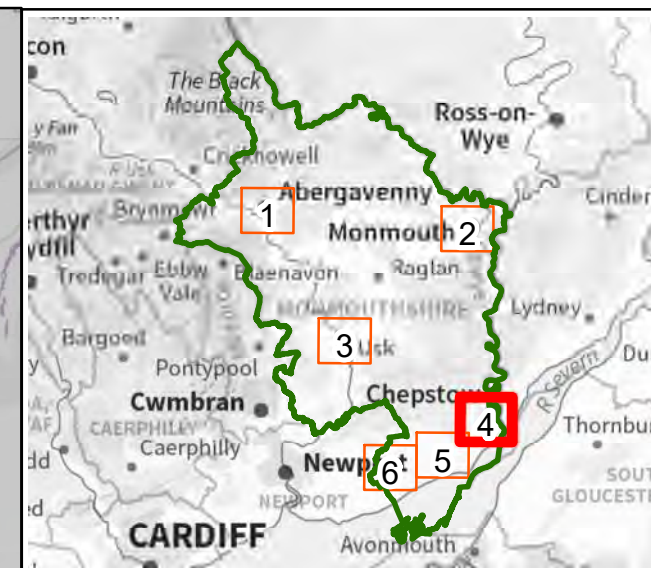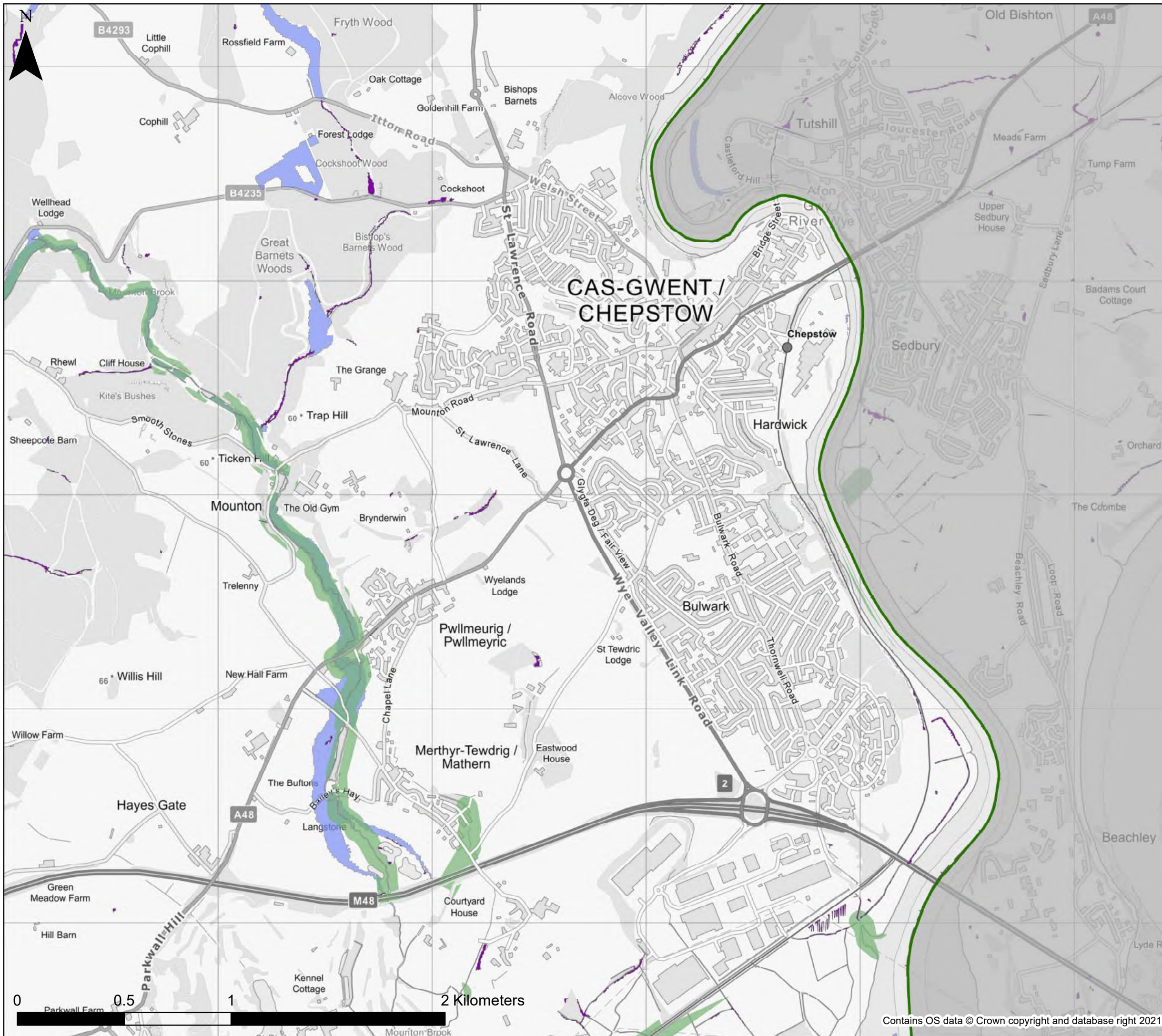| Page number	Drawn	HB	10/12/2021
6 of 6	Checked	DB	13/12/2021
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0   0.5   1   2 Kilometers

KEY

Notes

This map shows areas for woodland planting potential and runoff attenuation features. The potential attenuation features aren't shown on the Council wide overview maps.

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Stage 1 Strategic Flood
Consequences Assessment

*Working with Natural Processes -
Potential Mapping*

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Page number	Drawn	HB	13/12/2021
1 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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0   0.5   1   2 Kilometers

KEY

- Monmouthshire County Council
- Runoff Attenuation Features 1%
- Wider Catchment Woodland Potential
- Riparian Woodland Planting Potential
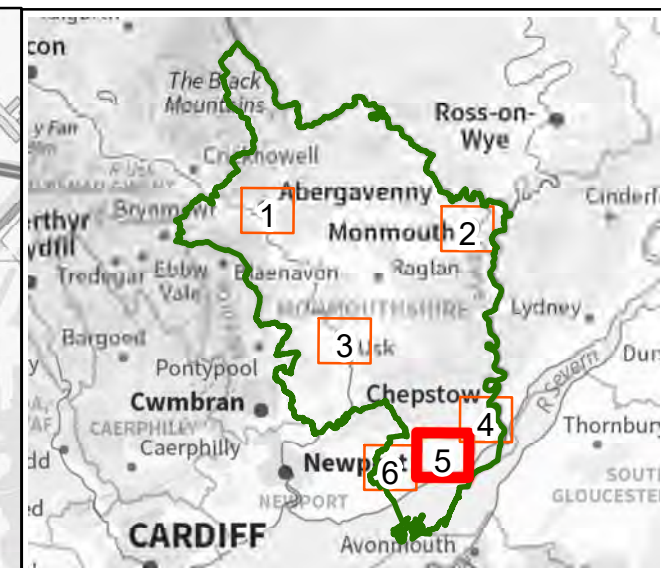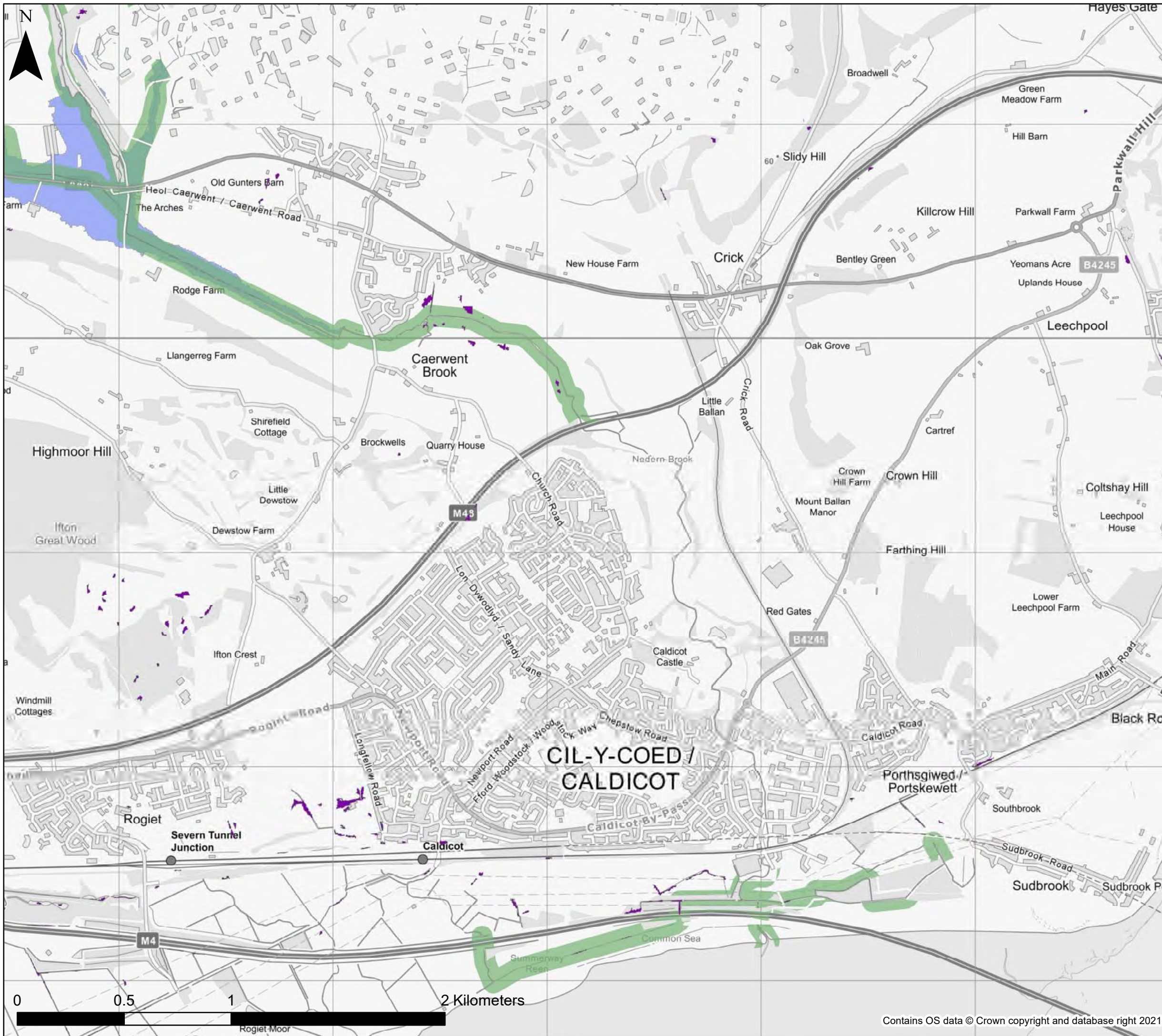- Floodplain Woodland Planting Potential

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Stage 1 Strategic Flood Consequences Assessment

Working with Natural Processes - Potential Mapping

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Page number	Drawn	HB	13/12/2021
2 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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KEY

KEY

☐ (green outline)	Monmouthshire County Council
■ (purple)	Runoff Attenuation Features 1%
⬚ (dotted)	Wider Catchment Woodland Potential
■ (green)	Riparian Woodland Planting Potential
■ (blue)	Floodplain Woodland Planting Potential

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Stage 1 Strategic Flood Consequences Assessment

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Page number	Drawn	HB	13/12/2021
3 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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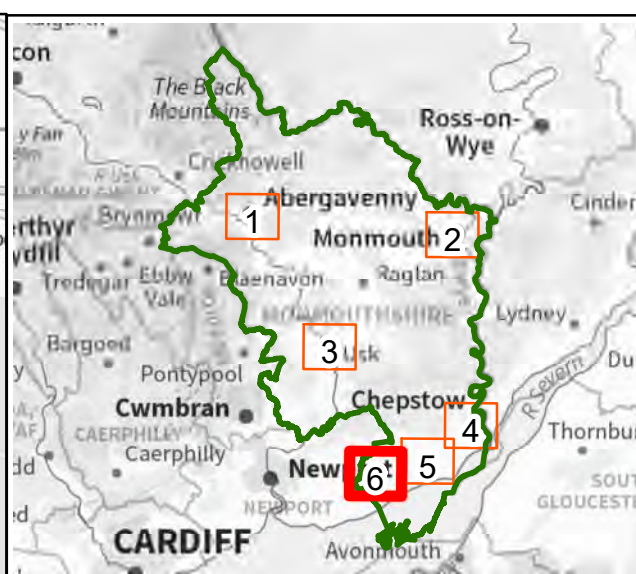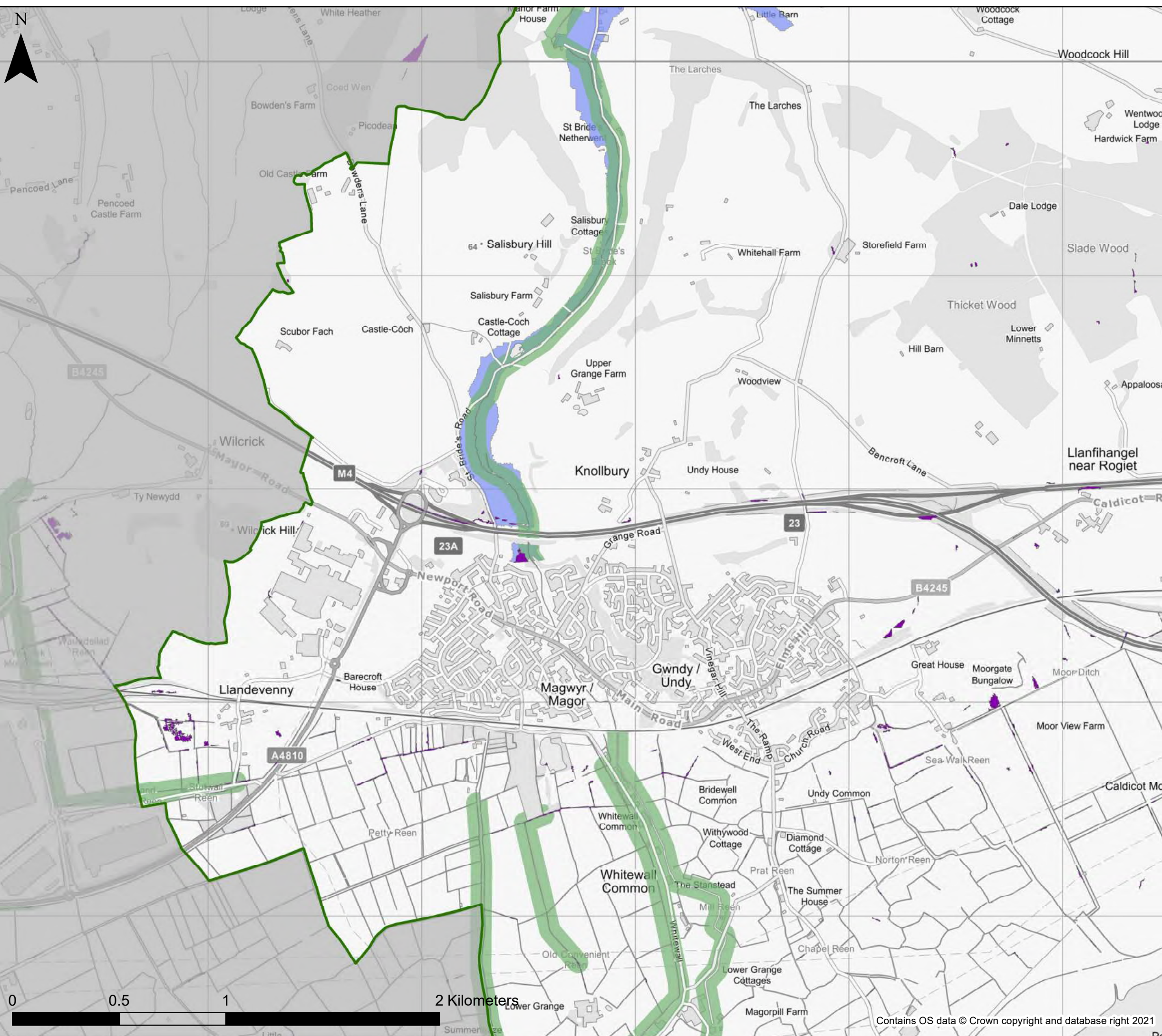- Floodplain Woodland Planting Potential

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Page number	Drawn	HB	13/12/2021
4 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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Runoff Attenuation Features 1%

Wider Catchment Woodland Potential

Riparian Woodland Planting Potential

Floodplain Woodland Planting Potential

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5 of 6	Checked	DB	15/12/2021
	Approved	GB	17/12/2021

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