

Recent aerial photograph



Capture Date: 16/06/2022

Site Area: 376.53ha



Recent site history - 2019 aerial photograph

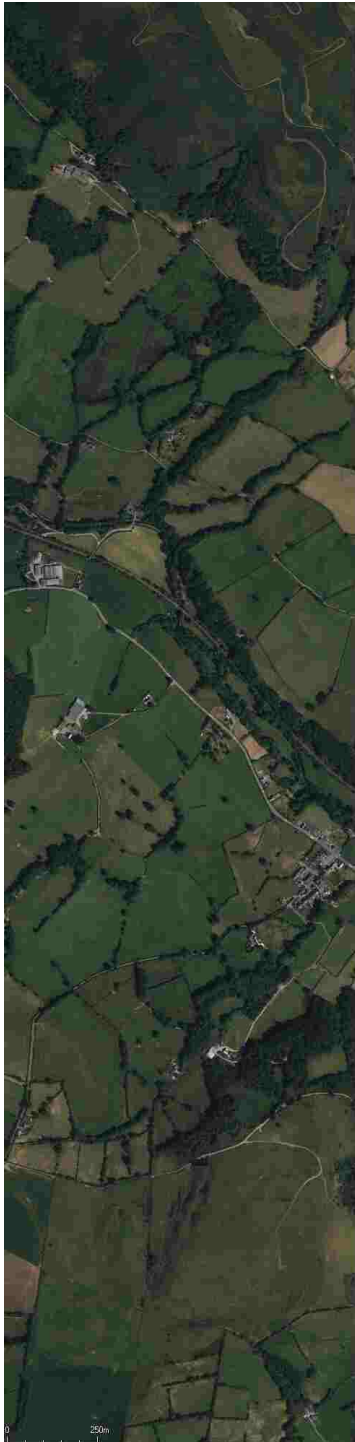


Capture Date: 21/04/2019

Site Area: 376.53ha



Recent site history - 2016 aerial photograph



Capture Date: 16/08/2016

Site Area: 376.53ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 376.53ha



Recent site history - 2000 aerial photograph

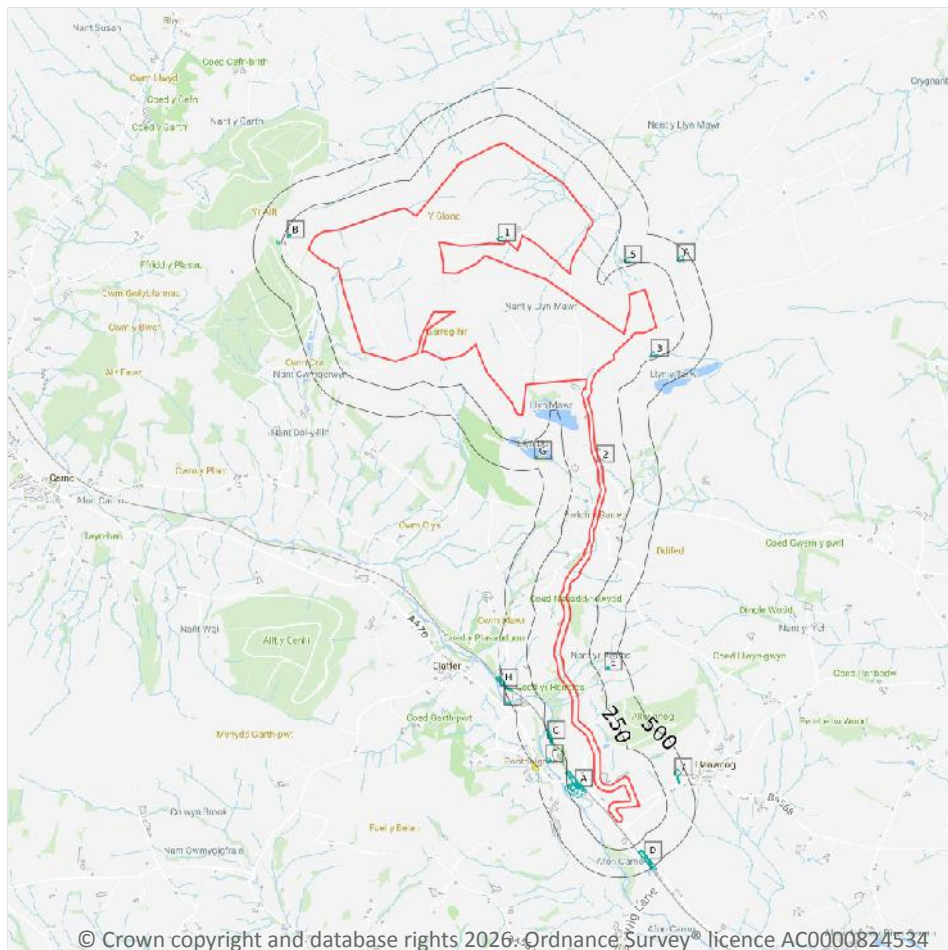


Capture Date: 18/07/2000

Site Area: 376.53ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical petrol stations
- Historical garages

1.1 Historical industrial land uses

Records within 500m

45

Potentially contaminative land use features digitised from historical Ordnance Survey® mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Quarry	1991	1038730



ID	Location	Land use	Dates present	Group ID
A	97m SW	Railway Sidings	1885	1068696
A	109m SW	Railway Sidings	1903 - 1948	1055101
A	114m W	Railway Sidings	1962	1151019
A	119m W	Railway Station	1903 - 1948	1052397
A	120m W	Railway Station	1962	1099048
A	124m W	Railway Station	1885	1166403
A	132m SW	Corn Mill	1903 - 1948	1154004
A	151m W	Railway Building	1948	1090599
A	151m W	Railway Buildings	1885	1014273
A	159m SW	Corn Mill	1885	1056280
A	159m W	Railway Building	1885	1176297
A	170m W	Unspecified Commercial/Industrial	1982	1023423
A	170m W	Unspecified Mill	1962	1025839
3	186m SE	Unspecified Quarry	1991	1038736
B	194m NW	Gravel Pit	1903	289383
B	196m NW	Gravel Pit	1949	309485
C	222m SW	Cuttings	1885	1110672
C	222m SW	Cuttings	1948	1084168
C	222m SW	Cuttings	1962	1163471
C	223m SW	Cuttings	1903	1111983
4	266m W	Unspecified Ground Workings	1949	260974
5	271m N	Unspecified Quarry	1991	1038735
D	314m SE	Unspecified Pit	1885	1110718
D	317m SE	Unspecified Pit	1962	1115595
D	322m SE	Unspecified Pit	1948	1086167
D	322m SE	Unspecified Ground Workings	1903	1110158
E	336m NE	Unspecified Old Quarry	1903	1085150
E	337m NE	Unspecified Old Quarry	1948 - 1962	1132159



ID	Location	Land use	Dates present	Group ID
E	341m NE	Unspecified Quarry	1885	1038729
F	365m SW	Unspecified Mill	1982	1117902
F	383m SW	Unspecified Mill	1885	1074310
F	383m SW	Unspecified Mill	1948	1124487
F	384m SW	Unspecified Mill	1903	1073426
F	385m SW	Unspecified Mill	1962	1109900
G	389m S	Boat House	1991	1064852
G	389m S	Boat House	1980	1122020
6	396m NE	Unspecified Quarry	1991	1038734
7	400m NE	Cemetery	1982	1015377
H	433m W	Cuttings	1885	1052322
D	453m SE	Garage	1982	1026067
H	486m W	Cuttings	1903 - 1948	1149668
I	487m SW	Unspecified Pit	1903	1093177
I	494m SW	Unspecified Pit	1962	1176181
H	498m W	Cuttings	1962	1078276

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m

1

Tank features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Tank	1974	162363

This data is sourced from Ordnance Survey® / Groundsure.



1.3 Historical energy features

Records within 500m

0

Energy features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey® / Groundsure.

1.4 Historical petrol stations

Records within 500m

1

Petrol stations digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
8	500m W	Filling Station	1974	1837

This data is sourced from Ordnance Survey® / Groundsure.

1.5 Historical garages

Records within 500m

1

Garages digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
D	420m SE	Garage	1974 - 1996	32495

This data is sourced from Ordnance Survey® / Groundsure.



1.6 Historical military land

Records within 500m

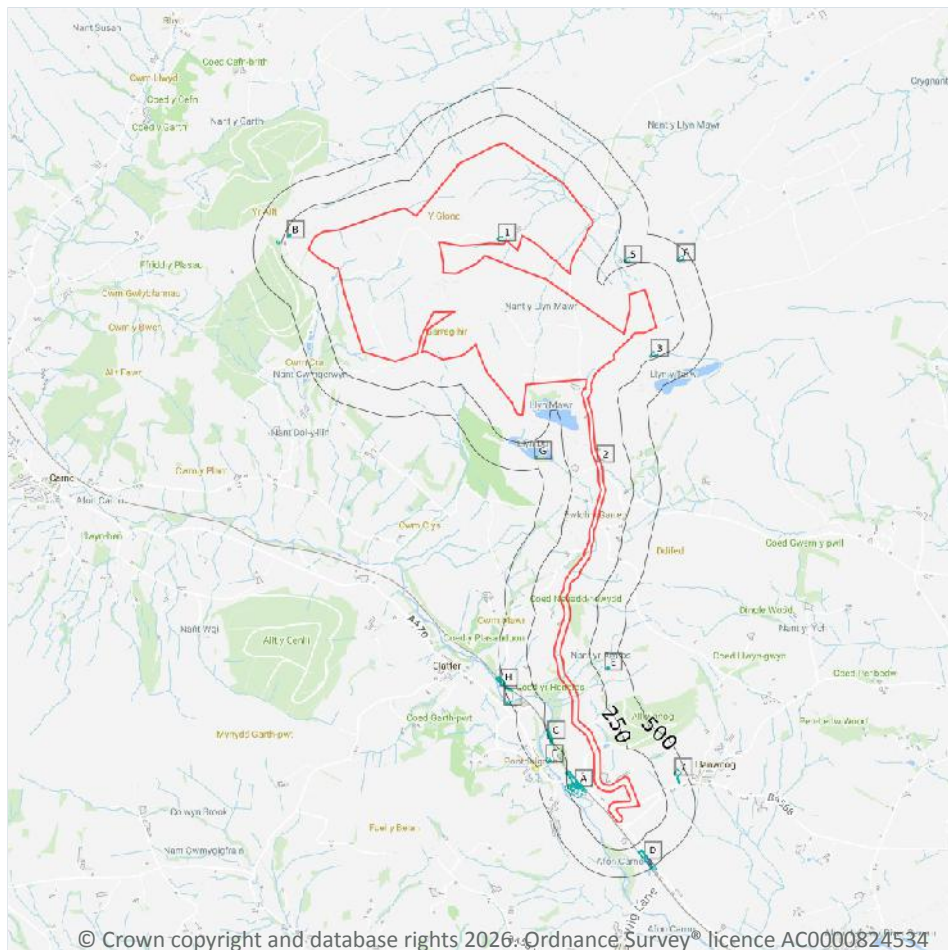
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey® / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical petrol stations
- Historical garages

2.1 Historical industrial land uses

Records within 500m

53

Potentially contaminative land use features digitised from historical Ordnance Survey® mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Quarry	1991	1038730
A	97m SW	Railway Sidings	1885	1068696
A	109m SW	Railway Sidings	1948	1055101



ID	Location	Land Use	Date	Group ID
A	114m W	Railway Sidings	1962	1151019
A	119m W	Railway Station	1948	1052397
A	120m W	Railway Station	1962	1099048
A	122m W	Railway Station	1903	1052397
A	124m W	Railway Station	1885	1166403
A	132m SW	Corn Mill	1948	1154004
A	139m W	Railway Sidings	1903	1055101
A	151m W	Railway Building	1948	1090599
A	151m W	Railway Buildings	1885	1014273
A	159m SW	Corn Mill	1885	1056280
A	159m W	Railway Building	1885	1176297
A	170m W	Unspecified Commercial/Industrial	1982	1023423
A	170m W	Unspecified Mill	1962	1025839
A	182m W	Corn Mill	1903	1154004
3	186m SE	Unspecified Quarry	1991	1038736
B	194m NW	Gravel Pit	1903	289383
B	196m NW	Gravel Pit	1949	309485
B	198m NW	Gravel Pit	1949	309485
C	222m SW	Cuttings	1885	1110672
C	222m SW	Cuttings	1948	1084168
C	222m SW	Cuttings	1962	1163471
C	223m SW	Cuttings	1903	1111983
4	266m W	Unspecified Ground Workings	1949	260974
5	271m N	Unspecified Quarry	1991	1038735
D	314m SE	Unspecified Pit	1885	1110718
D	317m SE	Unspecified Pit	1962	1115595
D	322m SE	Unspecified Pit	1948	1086167
D	322m SE	Unspecified Ground Workings	1903	1110158



ID	Location	Land Use	Date	Group ID
D	322m SE	Unspecified Ground Workings	1903	1110158
E	336m NE	Unspecified Old Quarry	1903	1085150
E	337m NE	Unspecified Old Quarry	1962	1132159
E	341m NE	Unspecified Old Quarry	1948	1132159
E	341m NE	Unspecified Quarry	1885	1038729
F	365m SW	Unspecified Mill	1982	1117902
F	383m SW	Unspecified Mill	1885	1074310
F	383m SW	Unspecified Mill	1948	1124487
F	384m SW	Unspecified Mill	1903	1073426
F	385m SW	Unspecified Mill	1962	1109900
G	389m S	Boat House	1991	1064852
G	389m S	Boat House	1980	1122020
6	396m NE	Unspecified Quarry	1991	1038734
7	400m NE	Cemetery	1982	1015377
H	433m W	Cuttings	1885	1052322
D	453m SE	Garage	1982	1026067
H	486m W	Cuttings	1903	1149668
I	487m SW	Unspecified Pit	1903	1093177
I	487m SW	Unspecified Pit	1903	1093177
H	492m W	Cuttings	1948	1149668
I	494m SW	Unspecified Pit	1962	1176181
H	498m W	Cuttings	1962	1078276

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m

1

Tank features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



Features are displayed on the Past land use - un-grouped map on [page 19 >](#)

ID	Location	Land Use	Date	Group ID
2	On site	Unspecified Tank	1974	162363

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	0
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Energy features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey® / Groundsure.

2.4 Historical petrol stations

Records within 500m	1
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Petrol stations digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19 >](#)

ID	Location	Land Use	Date	Group ID
8	500m W	Filling Station	1974	1837

This data is sourced from Ordnance Survey® / Groundsure.

2.5 Historical garages

Records within 500m	2
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Garages digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19 >](#)

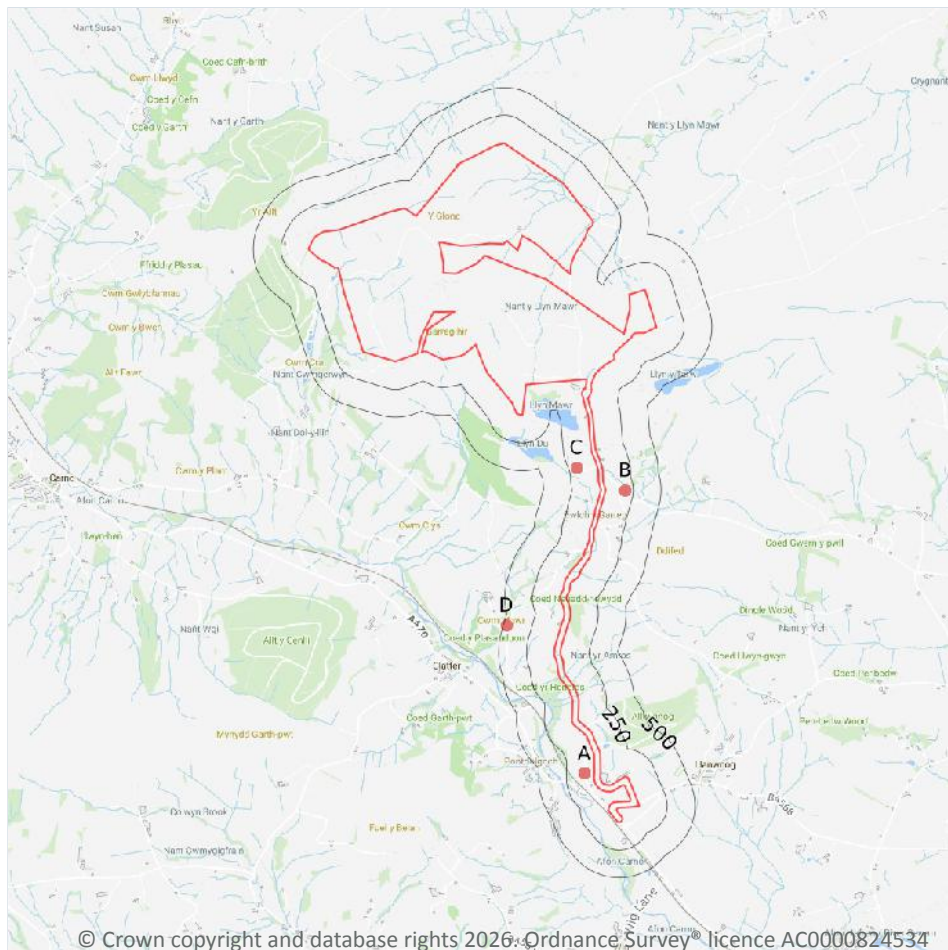
ID	Location	Land Use	Date	Group ID
D	420m SE	Garage	1996	32495
D	420m SE	Garage	1974	32495



This data is sourced from Ordnance Survey® / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey®/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m**0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey®/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m**0**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m**49**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 24](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
A	93m W	Henblas Pontdolgoch Caersws Powys Sy175je	NRW- WME018007	Using waste exemption	On a farm	Use of waste in construction
A	93m W	Henblas Pontdolgoch Caersws Powys Sy175je	NRW- WME018007	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	93m W	Henblas Pontdolgoch Caersws Powys Sy175je	NRW- WME018007	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	93m W	Henblas Pontdolgoch Caersws Powys Sy175je	NRW- WME018007	Disposing of waste exemption	On a farm	Burning waste in the open
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME049808	Using waste exemption	On a farm	Use of waste in construction
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME049808	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME049808	Using waste exemption	On a farm	Use of waste for a specified purpose
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME049808	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME049808	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
B	175m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME045158	Using waste exemption	On a farm	Use of waste in construction
B	175m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME045158	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	175m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME045158	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	175m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW- WME045158	Treating waste exemption	On a farm	Screening and blending of waste



ID	Location	Site	Reference	Category	Sub-Cat egory	Description
B	175m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW-WME045158	Disposing of waste exemption	On a farm	Burning waste in the open
B	175m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW-WME045158	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	175m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW-WME045158	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW-WME049808	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW-WME049808	Using waste exemption	On a farm	Use of waste to manufacture finished goods
B	175m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy17 5ne	NRW-WME049808	Disposing of waste exemption	On a farm	Burning waste in the open
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW-WME018230	Using waste exemption	On a farm	Use of waste for a specified purpose
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW-WME018230	Using waste exemption	On a farm	Use of waste in construction
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW-WME018230	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW-WME018230	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW-WME018230	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
B	176m E	Cerrig Y Brain Pontdolgoch Caersws Powys Sy175ne	NRW-WME024707	Storing waste exemption	On a farm	Storage of waste in a secure place
B	176m E	Cerrig Y Brain Pontdolgoch Caersws Powys Sy175ne	NRW-WME024707	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
B	176m E	Cerrig Y Brain Pontdolgoch Caersws Powys Sy175ne	NRW- WME024707	Using waste exemption	On a farm	Use of waste in construction
B	176m E	Cerrig Y Brain Pontdolgoch Caersws Powys Sy175ne	NRW- WME024707	Storing waste exemption	On a farm	Storage of waste in secure containers
B	176m E	Cerrig Y Brain Pontdolgoch Caersws Powys Sy175ne	NRW- WME024707	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
B	176m E	Cerrig Y Brain Pontdolgoch Caersws Powys Sy175ne	NRW- WME024707	Disposing of waste exemption	On a farm	Burning waste in the open
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME018230	Using waste exemption	On a farm	Use of waste to manufacture finished goods
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME018230	Disposing of waste exemption	On a farm	Burning waste in the open
B	176m E	Wm Astley & Son, Llyn Mawr, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME018230	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	176m E	Cerrig Y Brain Pontdolgoch Caersws Powys Sy175ne	NRW- WME024707	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	176m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME014081	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	176m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME014081	Disposing of waste exemption	On a farm	Burning waste in the open
B	176m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME014081	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	176m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME014081	Using waste exemption	On a farm	Use of waste in construction
B	176m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME014081	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	176m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy175ne	NRW- WME014081	Using waste exemption	On a farm	Use of waste for a specified purpose

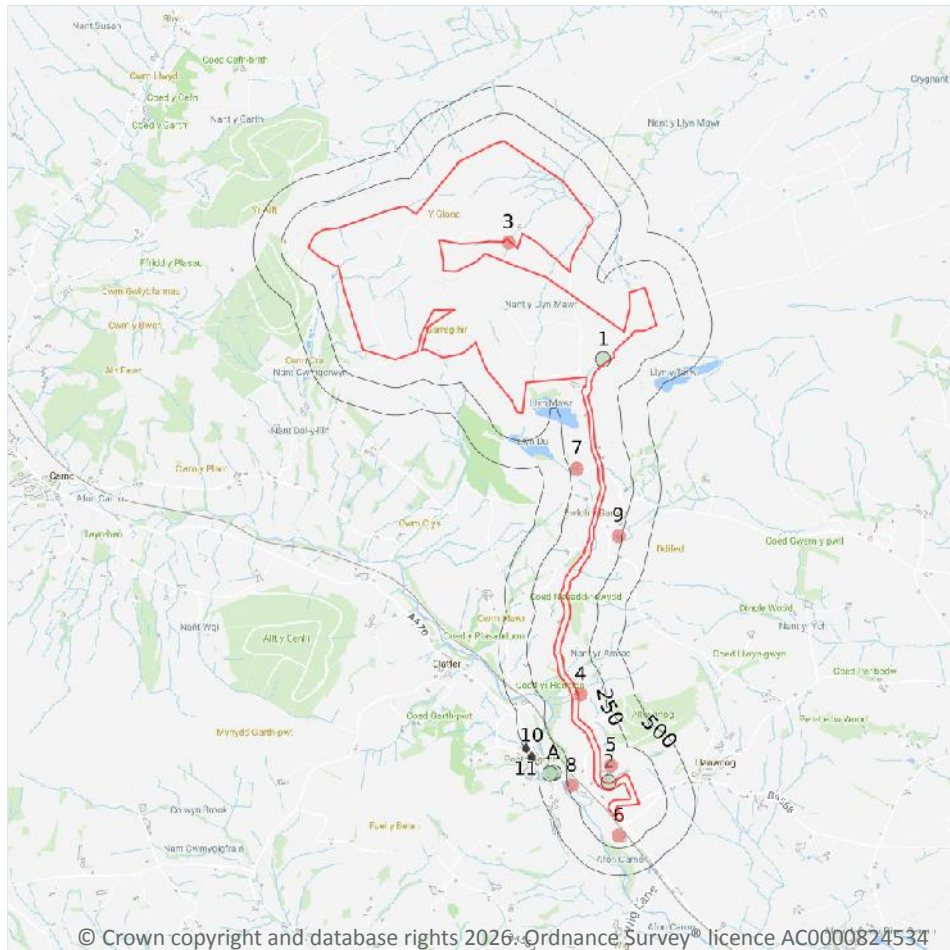


ID	Location	Site	Reference	Category	Sub-Category	Description
B	176m E	S L Price & Co, Lluast, Pontdolgoch, Caersws, Powys, Sy175ne	NRW-WME014081	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	186m W	S L Price & Co, Lluest, Llanwnog, Caersws, Powys, Sy17 5ne	NRW-WME083350	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	186m W	S L Price & Co, Lluest, Llanwnog, Caersws, Powys, Sy17 5ne	NRW-WME083350	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
D	476m W	Plasaudon Farm, Clatter, Caersws, Powys, Sy17 5nn	NRW-WME044300	Using waste exemption	On a farm	Use of waste in construction
D	476m W	Plasaudon Farm, Clatter, Caersws, Powys, Sy17 5nn	NRW-WME044300	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	476m W	Plasaudon Farm, Clatter, Caersws, Powys, Sy17 5nn	NRW-WME044300	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	476m W	Plasaudon Farm, Clatter, Caersws, Powys, Sy17 5nn	NRW-WME044300	Using waste exemption	On a farm	Use of waste for a specified purpose
D	476m W	Plasaudon Farm, Clatter, Caersws, Powys, Sy17 5nn	NRW-WME044300	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	476m W	Plasaudon Farm, Clatter, Caersws, Powys, Sy17 5nn	NRW-WME044300	Disposing of waste exemption	On a farm	Burning waste in the open

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 30](#) >

ID	Location	Company	Address	Activity	Category
3	18m SW	Workings	Powys, SY17	Unspecified Quarries Or Mines	Extractive Industries
4	23m E	Mast (Telecommunication)	Powys, SY17	Telecommunications Features	Infrastructure and Facilities
5	95m E	Solar Panels	Powys, SY17	Energy Production	Industrial Features



ID	Location	Company	Address	Activity	Category
6	141m S	Sheep Dip	Powys, SY17	Sheep Dips and Washes	Farming
7	185m W	S L Price & Co	Lluast, Pontdolgoch, Caersws, Powys, SY17 5NE	Agricultural Contractors	Contract Services
8	216m W	E George & Son	Pontdolgoch Mill, Pontdolgoch, Caersws, Powys, SY17 5JE	Agricultural Machinery and Goods	Industrial Products
9	218m E	Jones	Cerrig y Brain, Llanwnnog, Caersws, Powys, SY17 5NE	Livestock Farming	Farming

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	0
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Current or recent tanks identified from the Ordnance Survey® NGD.

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m**0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m**0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.10 Historical licensed industrial activities (IPC)

Records within 500m**0**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed industrial activities (Part A(1))

Records within 500m**0**

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m**0**

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m**0**

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Licensed Discharges to controlled waters

Records within 500m**2**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 30](#) >

ID	Location	Address	Details	
10	484m SW	Erwgoch, Pontdolgoch, Caersws, SY17 5NJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CB3798HB Permit Version: 0 Receiving Water: Unnamed trib of the Afon Carno	Status: Effective Issue date: 02/03/2023 Effective Date: 02/03/2023 Revocation Date: -



ID	Location	Address	Details	
11	484m SW	CEFN Y WERN, PONTDOLGOCH, CAERSWS, POWYS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/01/22560/S Permit Version: 0 Receiving Water: TRIB OF AFON CARNO	Status: Effective Issue date: 23/08/1993 Effective Date: 23/08/1993 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 Pollutant release to public sewer

Records within 500m	0
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Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 1 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 List 2 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution Incidents (EA/NRW)

Records within 500m

4

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on [page 30](#) >

ID	Location	Details	
1	On site	Incident Date: 14/01/2014 Incident Identification: 1197164 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Composted Material	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
2	13m N	Incident Date: 17/03/2010 Incident Identification: 762431 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
A	368m W	Incident Date: 24/06/2003 Incident Identification: 168492 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	401m W	Incident Date: 01/08/2001 Incident Identification: 20935 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Natural Organic Material	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.20 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.21 Pollution inventory waste transfers

Records within 500m**0**

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.22 Pollution inventory radioactive waste

Records within 500m**0**

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



-  Principal
-  Secondary A
-  Secondary B
-  Secondary Undifferentiated
-  Unproductive
-  Unknown

Records within 500m	50
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Features are displayed on the Hydrogeology map on [page 37](#) >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
12	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
13	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
14	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
15	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
16	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
17	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
18	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow



ID	Location	Designation	Description
19	2m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
20	2m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
21	9m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
22	16m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
23	19m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
24	22m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
25	53m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
26	64m E	Unknown	Unknown
27	118m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
28	120m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
29	123m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
30	147m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
31	193m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
32	194m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
33	204m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
34	204m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow



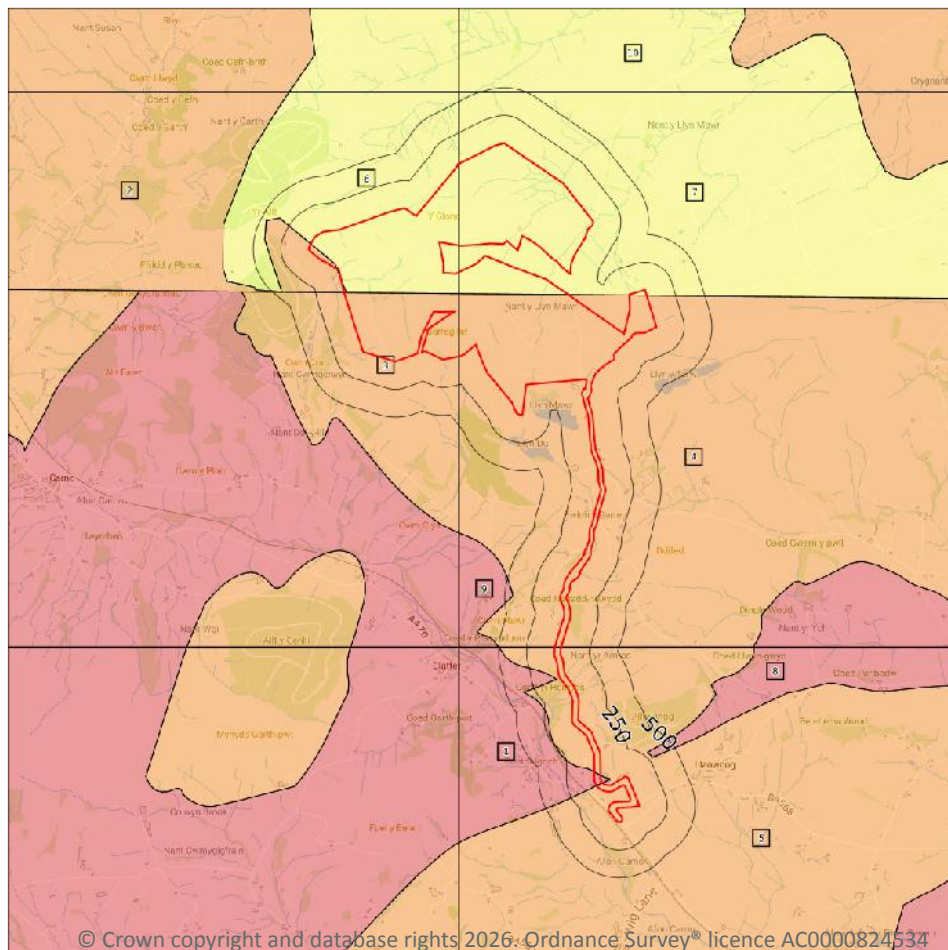
ID	Location	Designation	Description
35	212m S	Unknown	Unknown
36	225m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
37	230m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
38	279m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
39	281m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
40	284m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
41	288m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
42	345m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
43	355m SE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
44	370m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
45	400m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
46	407m SE	Unknown	Unknown
47	411m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
48	424m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
49	440m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
50	478m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

10

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 42](#) >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

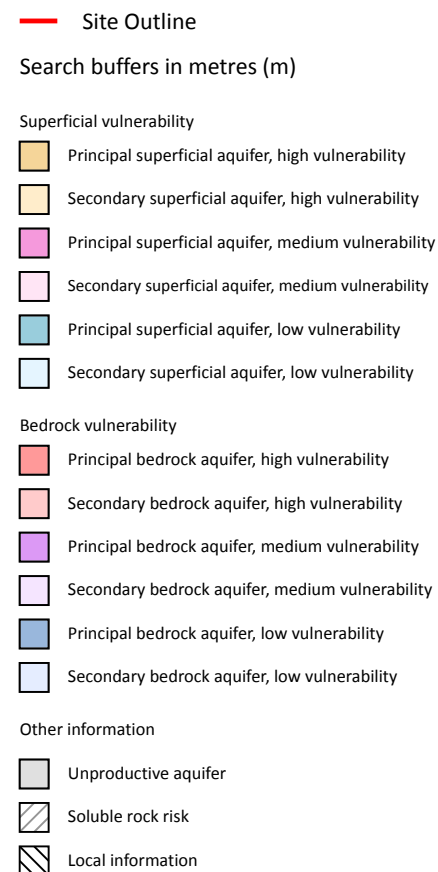
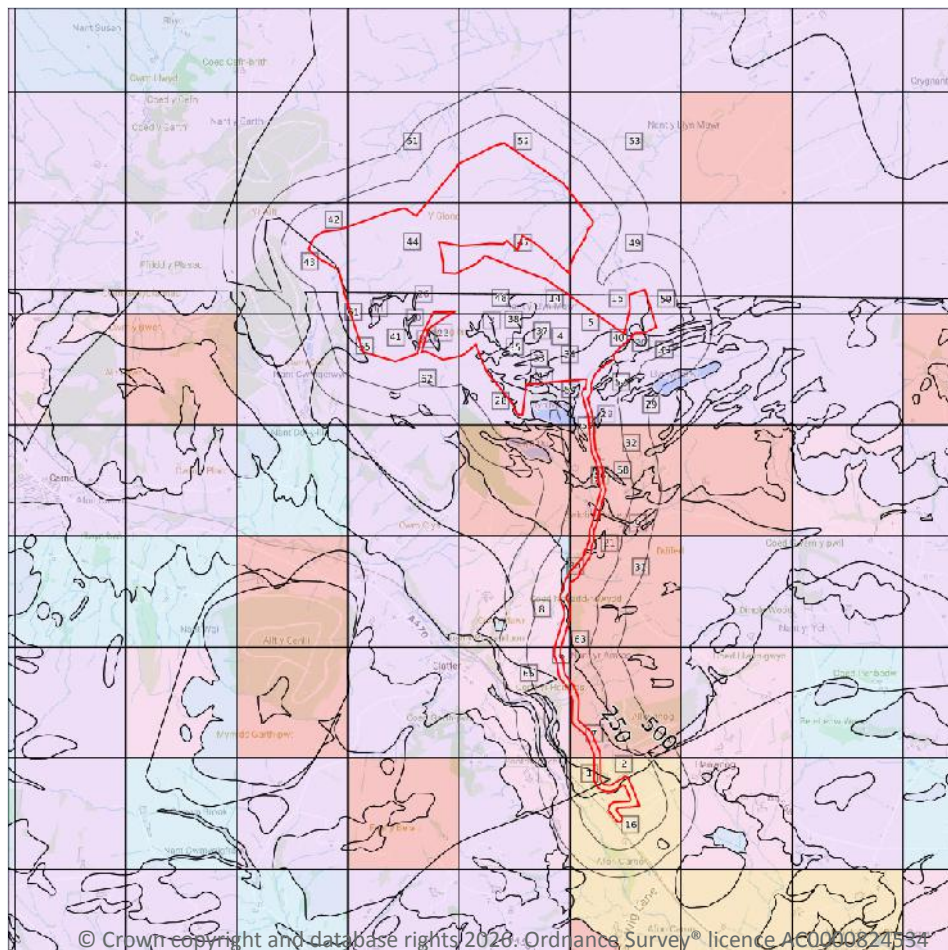


ID	Location	Designation	Description
3	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
4	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
5	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
6	On site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	On site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	288m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	427m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
10	463m N	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

65

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 44](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
14	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
16	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
17	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
18	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
19	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
20	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
21	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
22	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
23	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
24	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
25	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
26	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
27	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
28	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
29	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
30	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
31	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
32	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
33	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
34	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
35	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
36	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
37	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
38	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
39	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
40	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
41	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
42	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
43	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
44	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
45	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
46	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
47	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
48	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
49	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
50	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
51	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
52	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
53	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
54	2m S	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
55	2m SW	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
56	9m W	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
57	16m E	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
58	19m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
59	22m W	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
60	24m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
61	25m W	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
62	27m S	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
63	30m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
64	31m W	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
65	34m SW	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

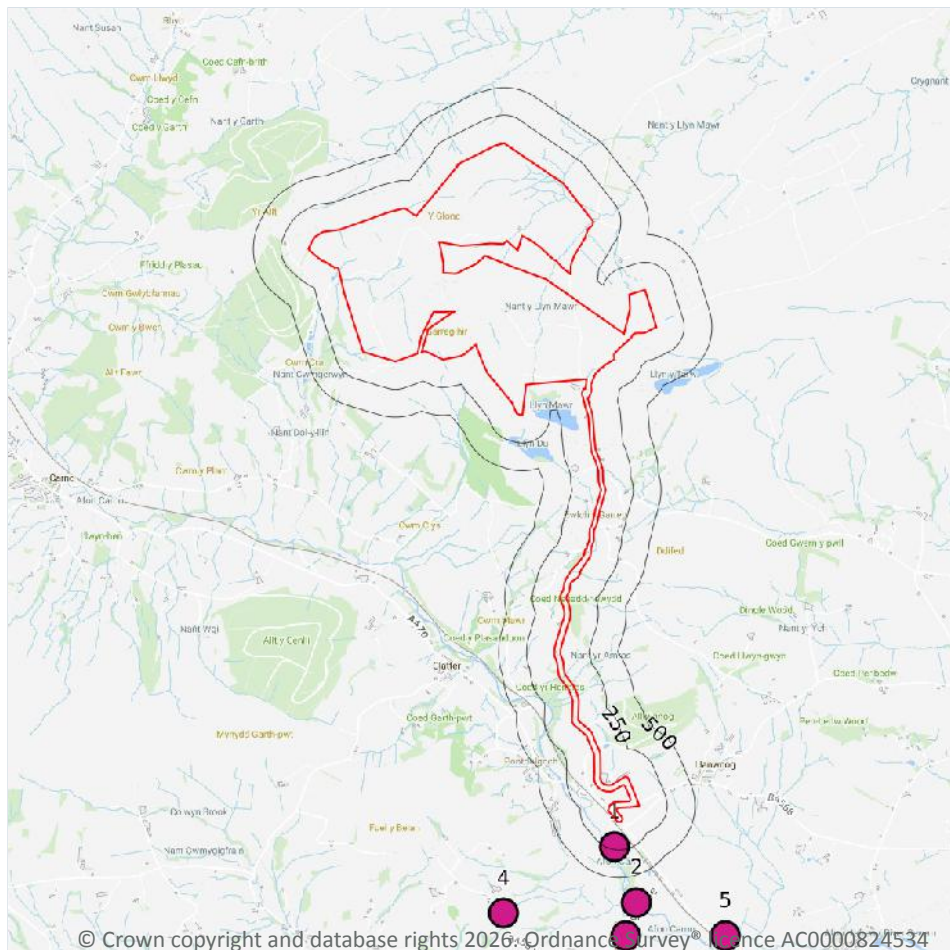
Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Point features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- ▭ Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- ▭ Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

12

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 56 >](#)

ID	Location	Details	
1	226m S	Status: Historical Licence No: 18/54/01/0358 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: CRAIGFRYN, LLANWNOG - WELLS Data Type: Point Name: MESSRS R K & J K DAVIES Easting: 301400 Northing: 293200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/07/1967 Expiry Date: - Issue No: 100 Version Start Date: 28/07/1967 Version End Date: -
2	739m S	Status: Historical Licence No: 18/54/01/0471 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: MELINYWIG, CAERSWS - WELL Data Type: Point Name: POWYS COUNTY COUNCIL Easting: 301600 Northing: 292700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1979 Version End Date: -
3	1024m S	Status: Historical Licence No: 18/54/01/0472 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: TYDDYNCANOL, CAERSWS - WELL Data Type: Point Name: POWYS COUNTY COUNCIL Easting: 301500 Northing: 292400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1979 Version End Date: -
4	1318m SW	Status: Historical Licence No: 18/54/01/0356 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: TIR BRWNT, CAERSWS - WELL Data Type: Point Name: OWEN Easting: 300400 Northing: 292600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/07/1967 Expiry Date: - Issue No: 100 Version Start Date: 26/10/1995 Version End Date: -
5	1394m SE	Status: Historical Licence No: 18/54/01/0150 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: PENYBORFA FAWR Data Type: Point Name: JONES Easting: 302400 Northing: 292400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/12/1966 Version End Date: -



ID	Location	Details	
-	1445m S	Status: Historical Licence No: 18/54/01/0477 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: MAESGWASTAD, CAERSWS - WELL Data Type: Point Name: POWYS COUNTY COUNCIL Easting: 301700 Northing: 292000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1979 Version End Date: -
-	1445m S	Status: Historical Licence No: 18/54/01/0478 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: GOBAITH, CAERSWS - WELL Data Type: Point Name: POWYS COUNTY COUNCIL Easting: 301700 Northing: 292000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1979 Version End Date: -
-	1623m S	Status: Historical Licence No: 18/54/01/0450 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: DERWEN, CAERSWS - WELL Data Type: Point Name: POWYS COUNTY COUNCIL Easting: 301500 Northing: 291800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1979 Version End Date: -
-	1642m S	Status: Historical Licence No: 18/54/01/0449 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: TYNRHOS, CAERSWS - WELL Data Type: Point Name: POWYS COUNTY COUNCIL Easting: 301700 Northing: 291800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1979 Version End Date: -
-	1781m S	Status: Historical Licence No: 18/54/01/0324 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: THE MOORS, CAERSWS - WELL Data Type: Point Name: CAMBRIAN LAND LTD Easting: 301900 Northing: 291700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/06/1967 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1967 Version End Date: -



ID	Location	Details	
-	1877m SW	Status: Historical Licence No: 18/54/01/0458 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: BELAN, CAERSWS - WELL Data Type: Point Name: DAVIES Easting: 300100 Northing: 292100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 29/04/1971 Version End Date: -
-	1984m NE	Status: Active Licence No: WA/054/0001/0116 Details: Dewatering - Very Low Direct Source: Underground strata Point: - Data Type: Poly4 Name: - Easting: 301495 Northing: 301732	Annual Volume (m ³): 404474.75 Max Daily Volume (m ³): 1108.15 Original Application No: - Original Start Date: 26/05/2022 Expiry Date: 31/03/2034 Issue No: - Version Start Date: - Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	0
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

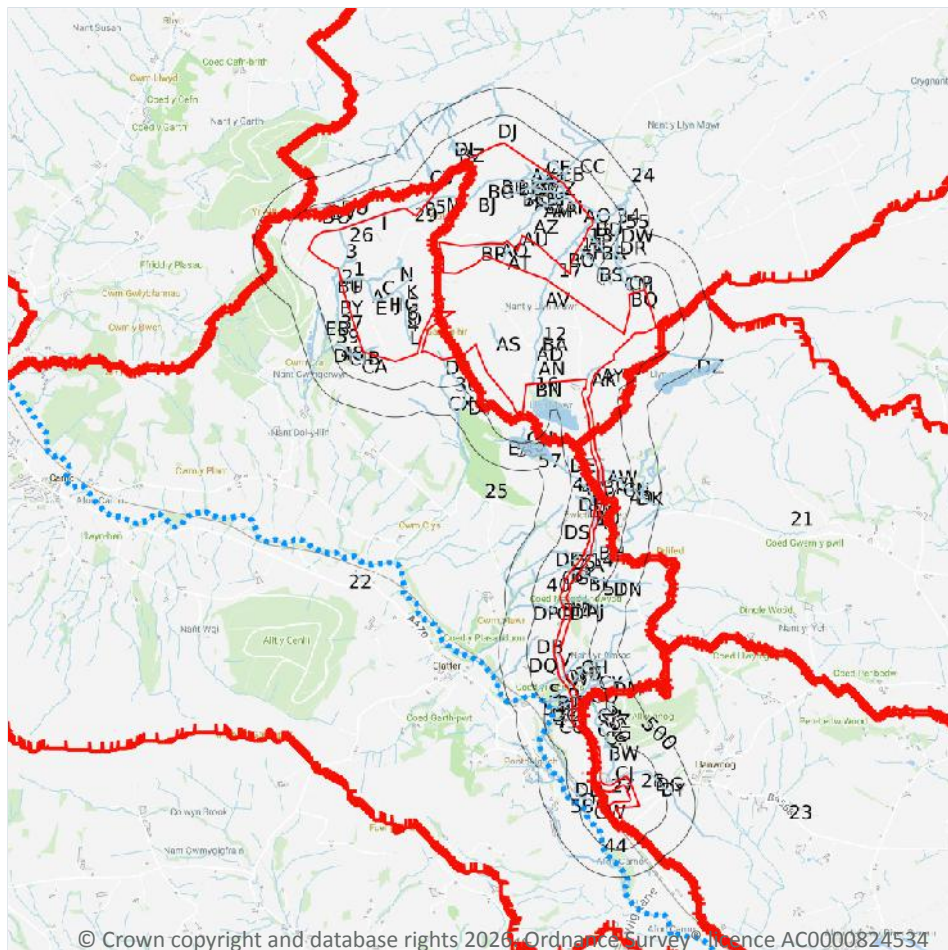
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

300

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on [page 61](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
7	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
10	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
12	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
13	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
14	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
15	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
16	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
17	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Arian
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
N	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
O	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
P	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Amros
R	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Amros
R	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant yr Amros
S	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Amros
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
W	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr



ID	Location	Type of water feature	Ground level	Permanence	Name
AC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
BC	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BD	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
AF	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
BE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
BF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
AH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
BG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AI	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BJ	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BJ	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
BJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BK	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BK	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AM	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
BM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BN	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
AP	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BO	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
AQ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AS	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AU	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AU	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AU	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
AW	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AX	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AY	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AY	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AZ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	4m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BD	7m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
BP	13m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
27	13m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
BP	14m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BQ	16m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BR	19m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BS	19m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BT	25m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Amros
BU	34m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BV	40m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
28	40m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
29	49m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BX	50m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BY	52m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
BU	56m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BU	57m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
BQ	59m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	60m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CA	61m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CB	61m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CC	61m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	62m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BU	64m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BU	64m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	65m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BD	69m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BW	70m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	70m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BD	73m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
BW	74m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CE	77m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CF	77m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
31	79m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CG	80m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CH	84m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	84m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
32	84m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CI	85m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Arian
BD	85m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
CJ	86m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	86m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CK	88m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
BD	88m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
34	92m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant y Llyn Mawr
BW	93m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CE	93m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CL	94m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CM	95m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CN	97m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
36	97m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
CK	99m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	100m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	100m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	100m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CP	100m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
BZ	101m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	106m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CQ	107m NE	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CQ	107m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CG	107m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
37	108m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
CR	109m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	111m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CS	112m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
39	112m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant Cwmgerwyn
40	112m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	120m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CU	121m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
CD	123m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CQ	125m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CQ	130m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CS	131m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CD	134m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CV	134m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CW	136m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CS	136m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	138m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CD	139m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CX	140m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CV	140m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CY	143m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
CD	148m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BZ	149m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CZ	150m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	151m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CU	154m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DA	161m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DA	163m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DB	169m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
42	172m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
44	175m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno
CS	175m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DD	176m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
45	178m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno



ID	Location	Type of water feature	Ground level	Permanence	Name
CO	179m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno
46	181m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DF	181m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DG	185m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	188m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
48	190m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Nant yr Arian
49	190m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DH	191m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DH	191m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DC	191m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno
DI	193m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Arian
DJ	195m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	195m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
CO	195m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	197m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DK	198m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	199m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno
DL	199m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
51	200m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DM	200m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CQ	200m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DN	204m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
52	210m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Llyn Du
CQ	212m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	212m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	212m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
CQ	214m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DO	215m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DL	217m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
53	218m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno
DB	218m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DP	218m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DE	220m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DQ	220m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DE	221m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DE	222m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DR	222m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DD	222m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DD	222m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
DS	224m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	225m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DC	226m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno
DU	229m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	230m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DV	232m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DD	232m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DD	233m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DW	233m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DE	234m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
54	234m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Carno
DW	235m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CZ	239m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
55	242m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
DY	243m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DZ	244m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	244m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DY	244m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
56	245m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Llyn Du
EA	245m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CZ	245m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	247m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	248m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	248m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
57	249m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Llyn Du
CO	250m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey®.



6.2 Surface water features

Records within 250m

95

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on [page 61 >](#)

This data is sourced from the Ordnance Survey®.

6.3 WFD Surface water body catchments

Records on site

4

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 61 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
21	On site	River WB catchment	Nant Rhyd-ros lan - source to conf R Severn	GB109054049220	Severn Trannon to Camlad	Severn Uplands
22	On site	River WB catchment	Afon Carno - conf Afon Cwm-llwyd to conf R Severn	GB109054049250	Severn source to Trannon	Severn Uplands
23	On site	River WB catchment	Severn - conf Afon Dulas to conf R Camlad	GB109054049310	Severn Trannon to Camlad	Severn Uplands
24	On site	River WB catchment	Afon Rhiw (S arm) - Ty-newydd to Dwyrhiew	GB109054049350	Rhiw	Severn Uplands

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

4

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on [page 61 >](#)



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
43	175m SW	River	Afon Carno - conf Afon Cwm-Ilwyd to conf R Severn	GB109054049250	Moderate	Good	Moderate	2016
-	2160m SE	River	Severn - conf Afon Dulas to conf R Camlad	GB109054049310	Moderate	Fail	Moderate	2016
-	2354m E	River	Nant Rhyd-ros lan - source to conf R Severn	GB109054049220	Moderate	Fail	Moderate	2016
-	2397m NE	River	Afon Rhiw (S arm) - Ty-newydd to Dwyrhiew	GB109054049350	Moderate	Fail	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site **1**

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

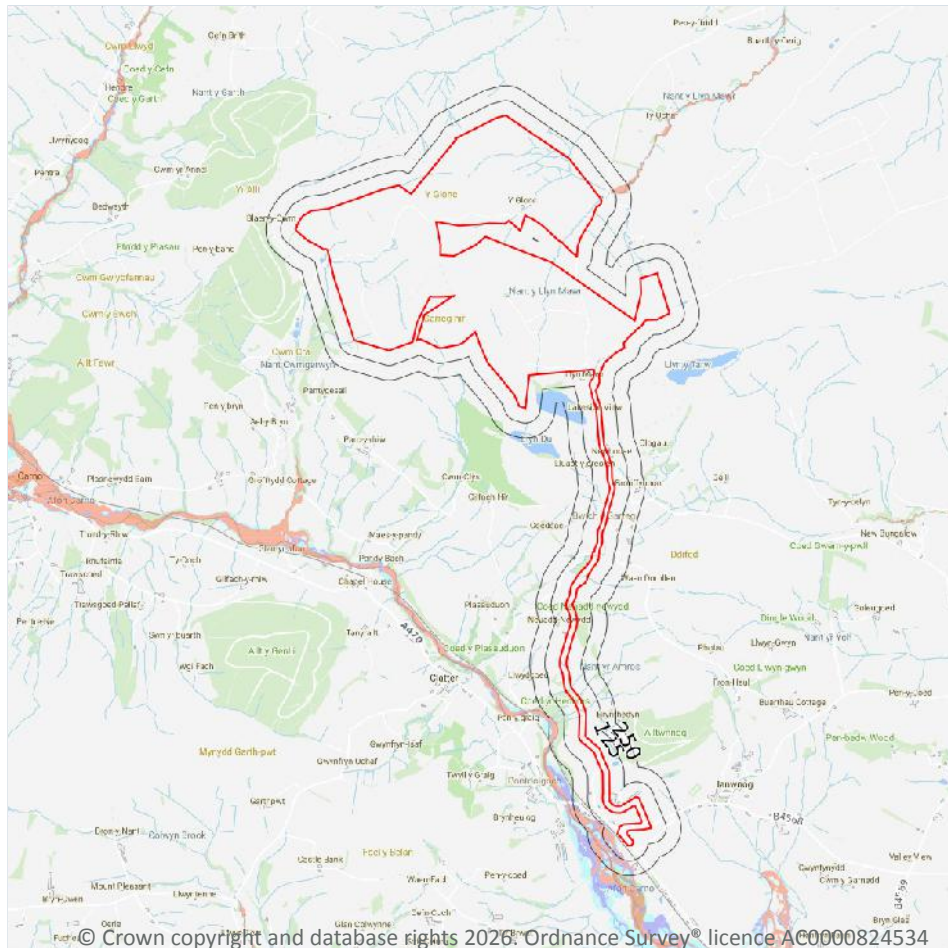
Features are displayed on the Hydrology map on [page 61](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
25	On site	Severn Uplands - Lower Palaeozoic	GB40902G205300	Poor	Poor	Good	2017

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

11

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on [page 87 >](#)



Distance	Flood risk category
On site	N/A
0 - 50m	High

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0
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Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0
----------------------------	----------

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0
----------------------------	----------

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

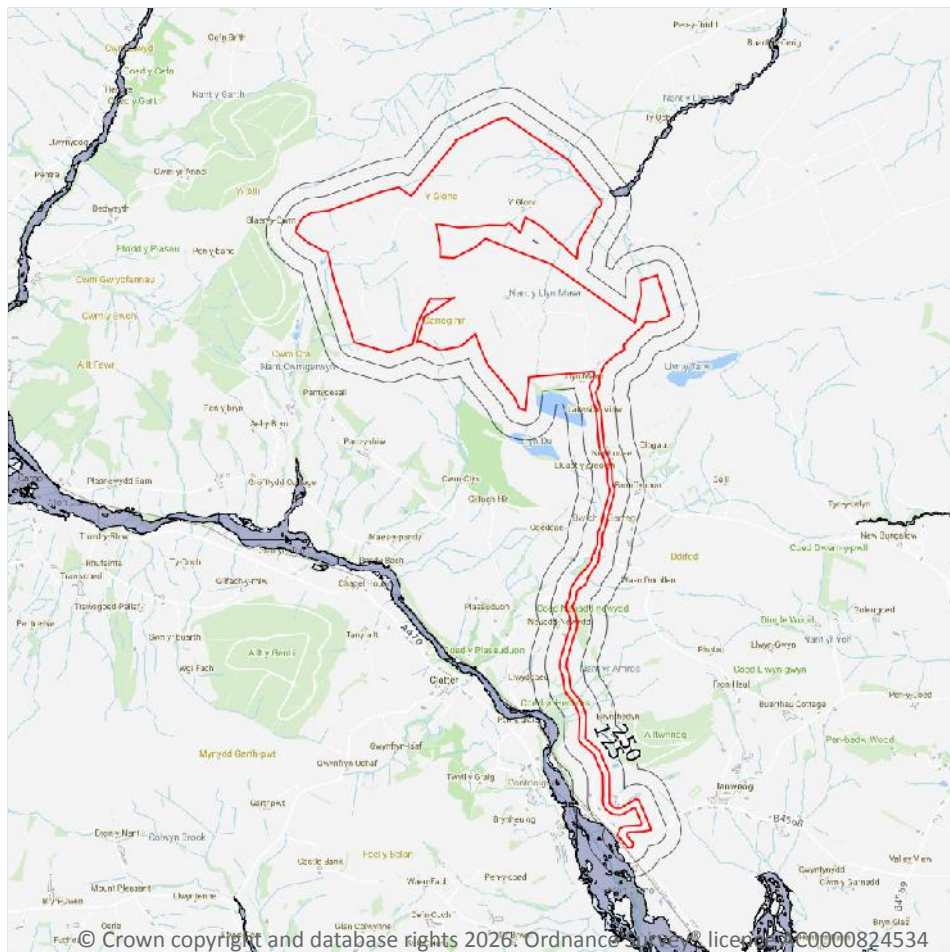
Records within 250m	0
----------------------------	----------

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on [page 87](#) >

Location	Type
31m SW	Zone 2 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.



7.7 Flood Zone 3

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

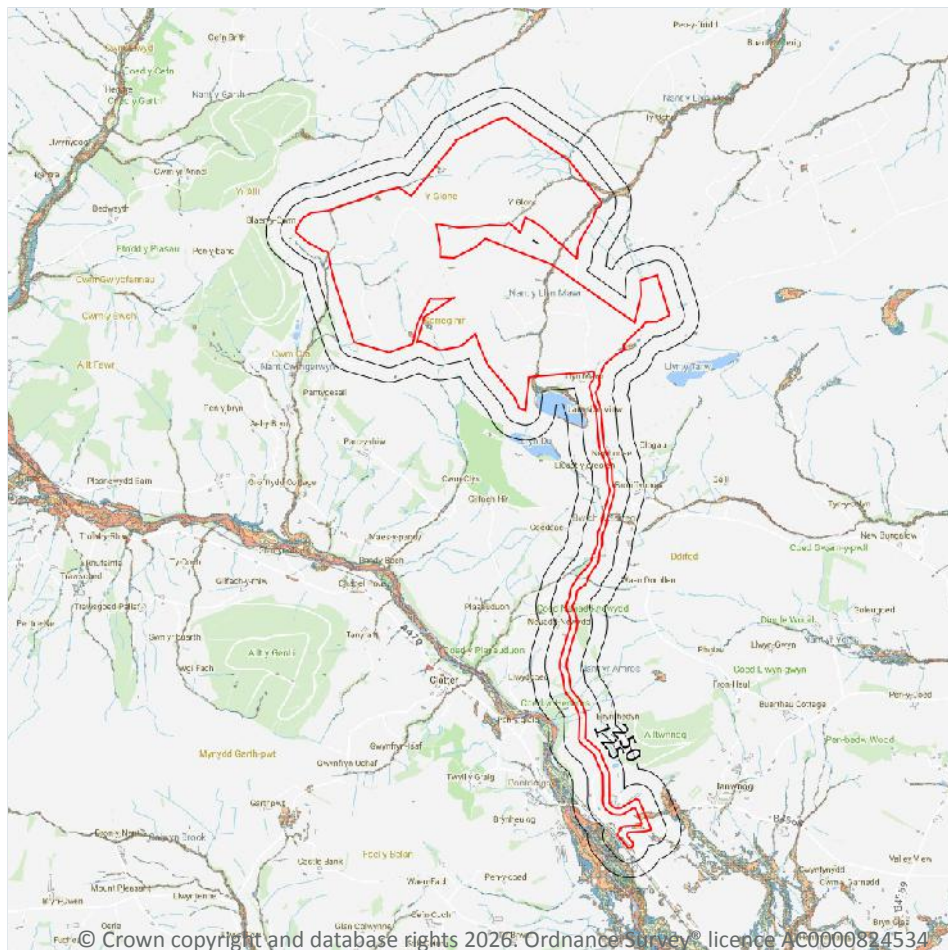
Features are displayed on the River and coastal flooding map on [page 87](#) >

Location	Type
31m SW	Zone 3 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on [page 91](#) >

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

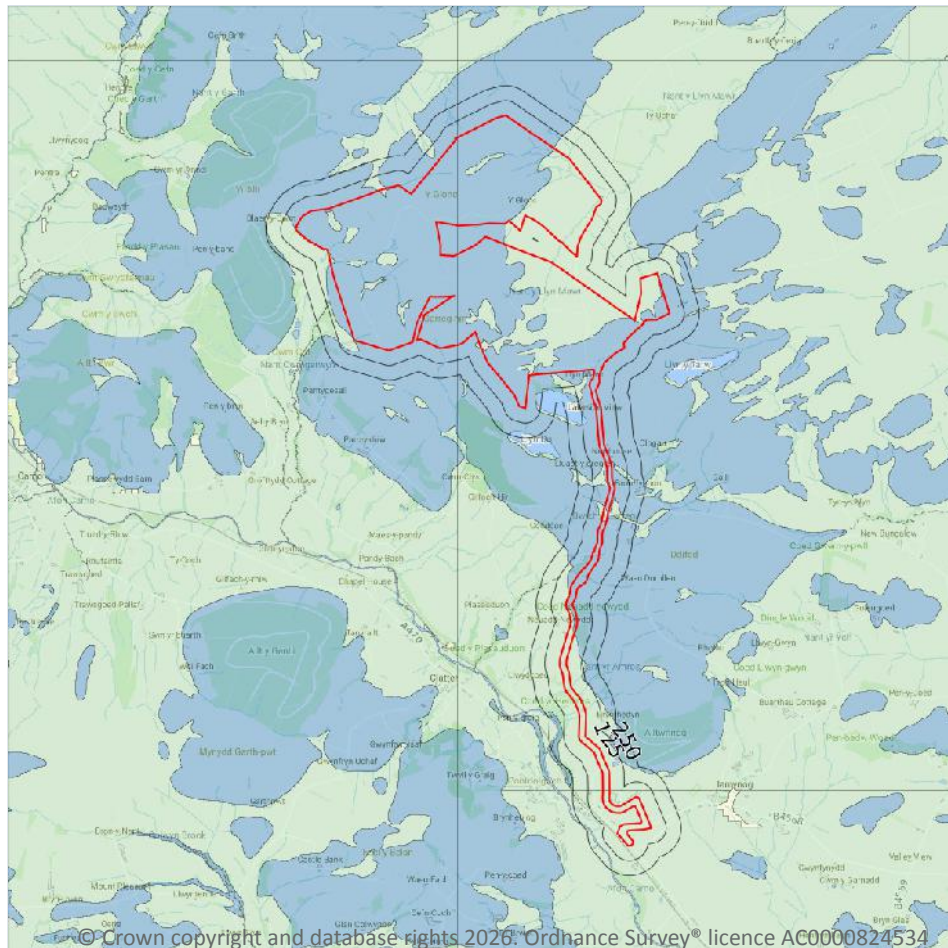
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

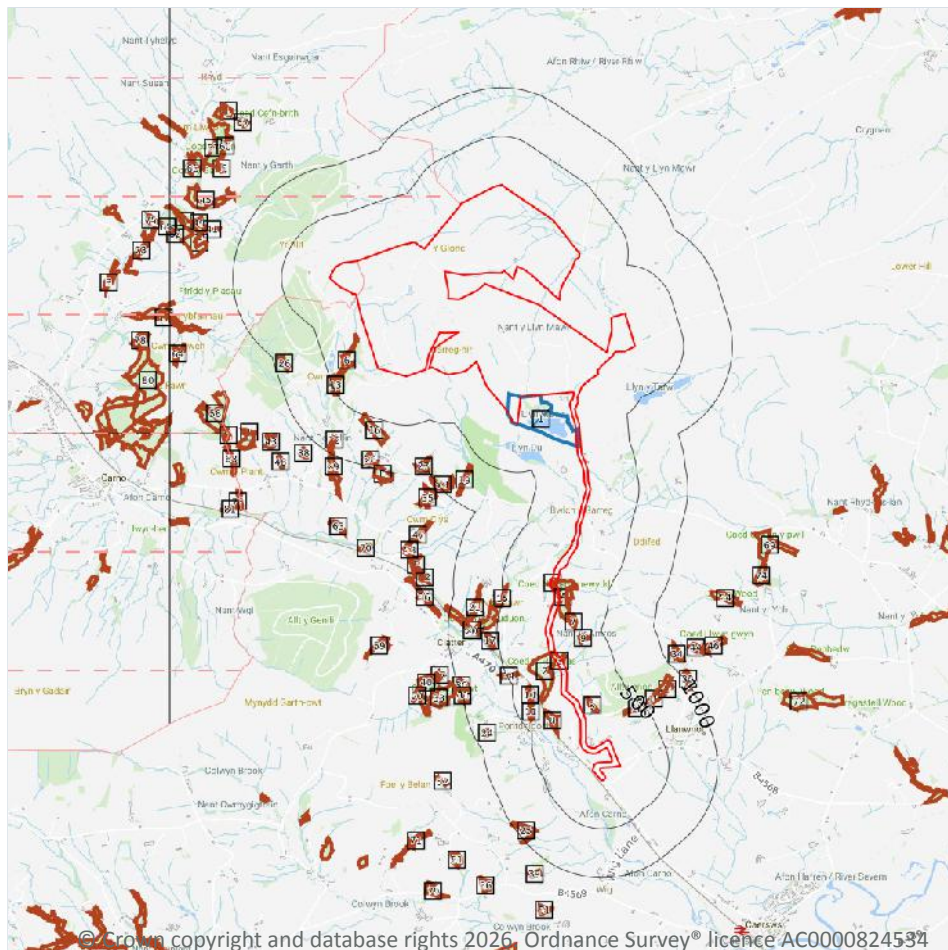
Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 93](#) >

This data is sourced from Ambiantal Risk Analytics.



10 Environmental designations



- Site Outline
- Search buffers in metres (m)
-  Sites of Special Scientific Interest (SSSI)
-  Designated Ancient Woodland
-  Biosphere Reserves

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on [page 94 >](#)

ID	Location	Name	Data source
1	On site	Llyn Mawr	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

105

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on [page 94 >](#)

ID	Location	Name	Woodland Type
2	On site	Unknown	Ancient Semi Natural Woodland
3	On site	Unknown	Ancient Semi Natural Woodland
4	On site	Unknown	Ancient Semi Natural Woodland
A	On site	Unknown	Ancient Semi Natural Woodland
A	72m E	Unknown	Ancient Semi Natural Woodland
5	93m NE	Unknown	Ancient Semi Natural Woodland
6	105m W	Unknown	Ancient Semi Natural Woodland
7	162m E	Unknown	Ancient Semi Natural Woodland
8	202m W	Unknown	Ancient Semi Natural Woodland
9	258m NE	Unknown	Ancient Semi Natural Woodland
10	307m W	Unknown	Plantation on Ancient Woodland Site
11	311m W	Unknown	Ancient Semi Natural Woodland
12	317m NE	Unknown	Ancient Semi Natural Woodland
13	387m W	Unknown	Ancient Semi Natural Woodland
14	390m SW	Unknown	Ancient Semi Natural Woodland
15	450m W	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
16	489m S	Unknown	Ancient Semi Natural Woodland
C	509m W	Unknown	Ancient Semi Natural Woodland
17	540m W	Unknown	Ancient Semi Natural Woodland
18	555m NE	Unknown	Ancient Semi Natural Woodland
19	618m SW	Unknown	Ancient Semi Natural Woodland
C	628m W	Unknown	Ancient Semi Natural Woodland
D	653m NE	Unknown	Restored Ancient Woodland Site
D	686m NE	Unknown	Restored Ancient Woodland Site
20	688m W	Unknown	Ancient Semi Natural Woodland
21	708m W	Unknown	Ancient Semi Natural Woodland
22	825m SW	Unknown	Ancient Semi Natural Woodland
23	836m SW	Unknown	Ancient Semi Natural Woodland
24	837m SW	Unknown	Ancient Semi Natural Woodland
25	842m SW	Unknown	Ancient Semi Natural Woodland
26	852m W	Unknown	Ancient Semi Natural Woodland
27	858m S	Unknown	Ancient Semi Natural Woodland
28	860m S	Unknown	Ancient Semi Natural Woodland
29	881m SW	Unknown	Ancient Semi Natural Woodland
30	901m W	Unknown	Ancient Semi Natural Woodland
31	917m SW	Unknown	Ancient Semi Natural Woodland
E	951m S	Unknown	Ancient Semi Natural Woodland
32	967m NE	Unknown	Ancient Semi Natural Woodland
33	1040m W	Unknown	Ancient Semi Natural Woodland
34	1058m NE	Unknown	Ancient Semi Natural Woodland
E	1073m S	Unknown	Ancient Semi Natural Woodland
35	1087m SW	Unknown	Ancient Semi Natural Woodland
36	1090m W	Unknown	Ancient Semi Natural Woodland
37	1109m W	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
38	1118m SW	Unknown	Restored Ancient Woodland Site
39	1124m SW	Unknown	Plantation on Ancient Woodland Site
40	1158m W	Unknown	Ancient Semi Natural Woodland
41	1236m NW	Unknown	Plantation on Ancient Woodland Site
42	1254m W	Unknown	Ancient Semi Natural Woodland
43	1258m SW	Unknown	Ancient Semi Natural Woodland
44	1266m NE	Unknown	Ancient Semi Natural Woodland
45	1277m NW	Unknown	Ancient Semi Natural Woodland
F	1306m W	Unknown	Ancient Semi Natural Woodland
G	1307m W	Unknown	Restored Ancient Woodland Site
G	1309m W	Unknown	Plantation on Ancient Woodland Site
46	1313m NE	Unknown	Ancient Semi Natural Woodland
47	1330m SW	Unknown	Ancient Semi Natural Woodland
48	1352m SW	Unknown	Ancient Semi Natural Woodland
49	1384m W	Unknown	Plantation on Ancient Woodland Site
50	1389m W	Unknown	Ancient Semi Natural Woodland
H	1389m SW	Unknown	Ancient Semi Natural Woodland
51	1397m S	Unknown	Restored Ancient Woodland Site
F	1403m W	Unknown	Ancient Semi Natural Woodland
I	1419m SW	Unknown	Ancient Semi Natural Woodland
52	1424m W	Unknown	Plantation on Ancient Woodland Site
I	1437m SW	Unknown	Ancient Semi Natural Woodland
53	1440m W	Unknown	Ancient Semi Natural Woodland
54	1462m E	Unknown	Restored Ancient Woodland Site
I	1468m SW	Unknown	Ancient Semi Natural Woodland
J	1488m W	Unknown	Ancient Semi Natural Woodland
55	1506m NW	Unknown	Ancient Semi Natural Woodland
56	1541m SW	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
57	1564m NW	Unknown	Ancient Semi Natural Woodland
I	1565m SW	Unknown	Ancient Semi Natural Woodland
J	1567m W	Unknown	Plantation on Ancient Woodland Site
58	1570m W	Unknown	Ancient Semi Natural Woodland
H	1600m W	Unknown	Ancient Semi Natural Woodland
59	1607m W	Unknown	Ancient Semi Natural Woodland
60	1614m NW	Unknown	Ancient Semi Natural Woodland
61	1616m SW	Unknown	Ancient Semi Natural Woodland
62	1620m W	Unknown	Plantation on Ancient Woodland Site
J	1626m W	Unknown	Ancient Semi Natural Woodland
63	1629m S	Unknown	Ancient Semi Natural Woodland
64	1639m SW	Unknown	Ancient Semi Natural Woodland
K	1660m W	Unknown	Ancient Semi Natural Woodland
K	1675m SW	Unknown	Ancient Semi Natural Woodland
65	1687m W	Unknown	Ancient Semi Natural Woodland
66	1707m NW	Unknown	Ancient Semi Natural Woodland
67	1722m NW	Unknown	Ancient Semi Natural Woodland
68	1724m SW	Unknown	Ancient Semi Natural Woodland
69	1745m E	Unknown	Plantation on Ancient Woodland Site
70	1771m S	Unknown	Ancient Semi Natural Woodland
71	1784m W	Unknown	Ancient Semi Natural Woodland
72	1788m E	Unknown	Ancient Semi Natural Woodland
73	1862m W	Unknown	Ancient Semi Natural Woodland
74	1863m E	Unknown	Plantation on Ancient Woodland Site
75	1882m W	Unknown	Ancient Semi Natural Woodland
76	1892m SW	Unknown	Ancient Semi Natural Woodland
L	1894m NW	Unknown	Ancient Semi Natural Woodland
77	1903m SW	Unknown	Plantation on Ancient Woodland Site



ID	Location	Name	Woodland Type
L	1920m NW	Unknown	Ancient Semi Natural Woodland
78	1950m W	Unknown	Ancient Semi Natural Woodland
79	1968m SW	Unknown	Ancient Semi Natural Woodland
80	1984m SW	Unknown	Plantation on Ancient Woodland Site
81	1985m SW	Unknown	Ancient Semi Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

1

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

Features are displayed on the Environmental designations map on [page 94 >](#)

ID	Location	Name	Status
B	On site	Dyfi Biosphere	Unknown

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was



closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

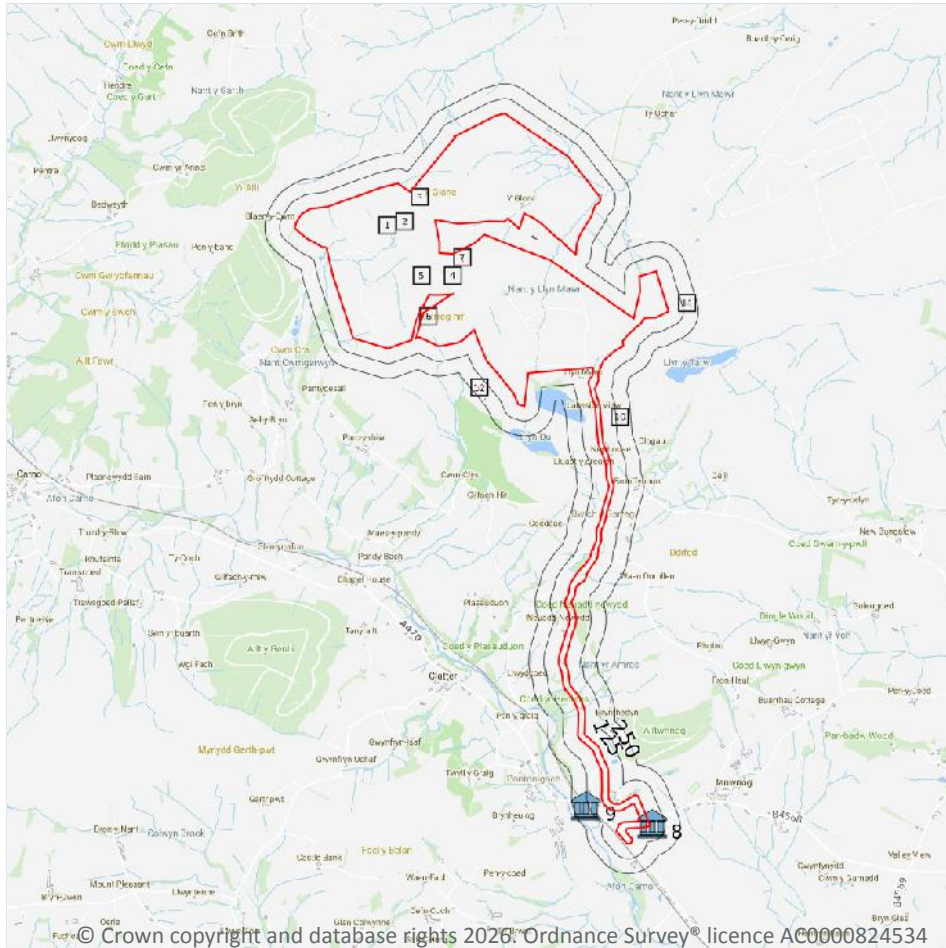
0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

2

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on [page 104 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
8	20m E	Milestone W Of Village, The Milestone Is Now Located In The Wide Grass Verge, 250m From The Junction Of The B.4568 With The Main A.490 Caersws To Machynlleth Road.	II	17552	05/11/1996
9	144m W	Pont-Dol-Goch Station And Stationmaster's House, The Railway Station Stands On A High Bank Directly North Of The Road Bridge Under The Line, And Is Accessed From The Main Caersws To Machynlleth Road, Near The Centre Of The Village.	II	17557	05/11/1996



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

12

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

Features are displayed on the Visual and cultural designations map on [page 104 >](#)

ID	Location	Ancient monument name	Reference number
1	On site	Nant Cwm Gerwyn Cairns	938
2	On site	Nant Cwm Gerwyn Cairns	938
3	On site	Nant Cwm Gerwyn Cairns	938
4	On site	Craig y Llyn Mawr Round Cairn	1363
5	On site	Round Hut 700m NNE of Garreg Hir	1399
6	On site	Round Hut 400m NE of Garreg Hir	1403
7	On site	Lluest Uchaf Cairns and Stone Row	3850
10	147m E	Ring Cairn 540m SW of Llyn y Tarw	3007
11	159m E	Bryn Du hut circle	4260
12	182m SW	Craig y Llyn Mawr platform cairn and standing stone	4259
13	192m E	Carreg Hir Standing Stone	128
14	211m SW	Craig y Llyn Mawr platform cairn and standing stone	4259



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

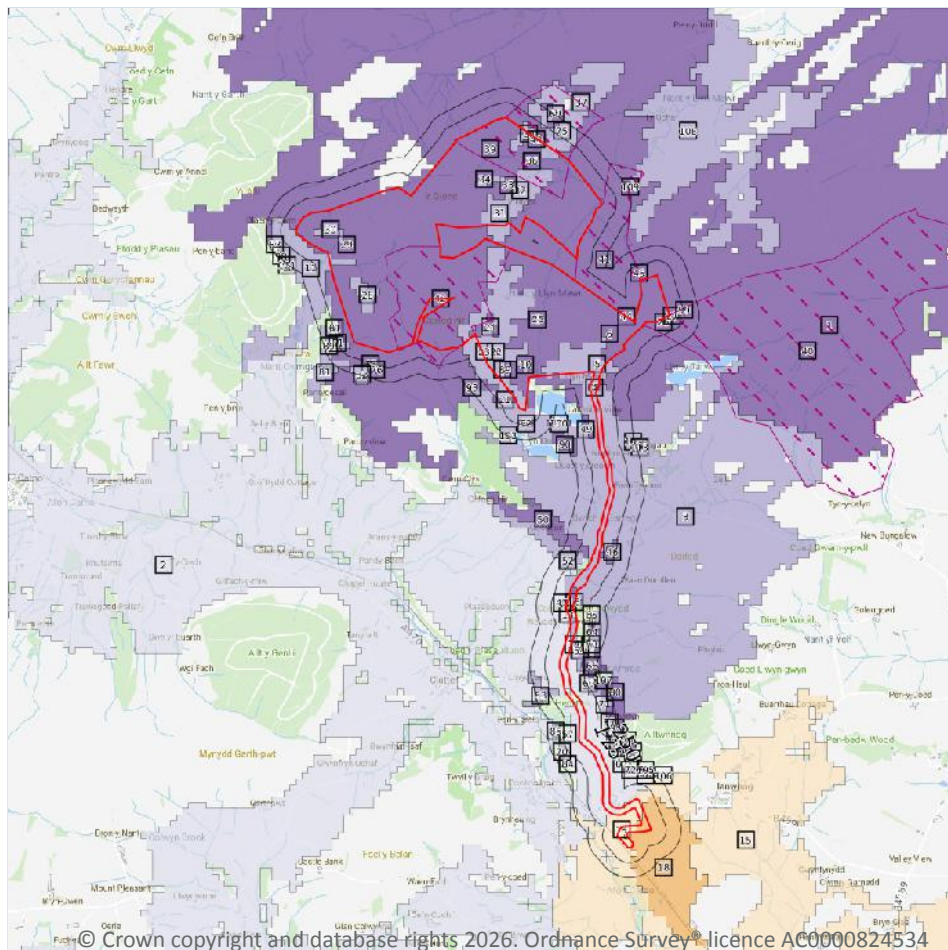
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

84

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 108](#) >

ID	Location	Classification	Description
1	On site	Grade 5	Very poor quality agricultural land
2	On site	Grade 3b	Moderate quality agricultural land
3	On site	Grade 4	Poor quality agricultural land



ID	Location	Classification	Description
4	On site	Grade 5	Very poor quality agricultural land
5	On site	Grade 5	Very poor quality agricultural land
6	On site	Grade 4	Poor quality agricultural land
8	On site	Grade 5	Very poor quality agricultural land
9	On site	Grade 4	Poor quality agricultural land
10	On site	Grade 4	Poor quality agricultural land
11	On site	Grade 4	Poor quality agricultural land
13	On site	Grade 4	Poor quality agricultural land
14	On site	Grade 4	Poor quality agricultural land
15	On site	Grade 3a	Good to moderate quality agricultural land
16	On site	Grade 5	Very poor quality agricultural land
18	On site	Grade 2	Good quality agricultural land
19	On site	Grade 2	Good quality agricultural land
21	On site	Grade 5	Very poor quality agricultural land
22	On site	Grade 5	Very poor quality agricultural land
23	On site	Grade 5	Very poor quality agricultural land
24	On site	Grade 5	Very poor quality agricultural land
25	On site	Grade 4	Poor quality agricultural land
26	On site	Grade 4	Poor quality agricultural land
27	On site	Grade 4	Poor quality agricultural land
28	On site	Grade 4	Poor quality agricultural land
29	On site	Grade 4	Poor quality agricultural land
30	On site	Grade 4	Poor quality agricultural land
31	On site	Grade 4	Poor quality agricultural land
32	On site	Grade 5	Very poor quality agricultural land
33	On site	Grade 4	Poor quality agricultural land
34	On site	Grade 4	Poor quality agricultural land
36	On site	Grade 4	Poor quality agricultural land



ID	Location	Classification	Description
37	On site	Grade 4	Poor quality agricultural land
38	On site	Grade 4	Poor quality agricultural land
39	On site	Grade 4	Poor quality agricultural land
46	7m E	Grade 5	Very poor quality agricultural land
47	12m W	Grade 4	Poor quality agricultural land
49	24m W	Grade 5	Very poor quality agricultural land
50	27m W	Grade 5	Very poor quality agricultural land
51	37m W	Grade 4	Poor quality agricultural land
52	45m NW	Grade 4	Poor quality agricultural land
53	47m W	Grade 4	Poor quality agricultural land
54	48m E	Grade 5	Very poor quality agricultural land
55	59m NE	Grade 4	Poor quality agricultural land
57	68m W	Grade 4	Poor quality agricultural land
59	75m E	Grade 4	Poor quality agricultural land
60	75m NE	Grade 4	Poor quality agricultural land
61	86m W	Grade 4	Poor quality agricultural land
62	87m S	Grade 5	Very poor quality agricultural land
63	93m NE	Grade 4	Poor quality agricultural land
64	96m E	Grade 5	Very poor quality agricultural land
65	100m E	Grade 5	Very poor quality agricultural land
67	103m S	Grade 4	Poor quality agricultural land
68	110m E	Grade 5	Very poor quality agricultural land
69	122m NE	Grade 5	Very poor quality agricultural land
70	122m W	Grade 4	Poor quality agricultural land
71	125m E	Grade 4	Poor quality agricultural land
72	129m E	Grade 4	Poor quality agricultural land
73	130m E	Grade 5	Very poor quality agricultural land
74	134m NE	Grade 5	Very poor quality agricultural land



ID	Location	Classification	Description
75	137m NE	Grade 5	Very poor quality agricultural land
76	137m S	Grade 4	Poor quality agricultural land
80	154m NE	Grade 5	Very poor quality agricultural land
81	160m S	Grade 4	Poor quality agricultural land
82	165m S	Grade 4	Poor quality agricultural land
83	167m SW	Grade 5	Very poor quality agricultural land
84	167m SW	Grade 4	Poor quality agricultural land
85	168m W	Grade 4	Poor quality agricultural land
86	169m N	Grade 4	Poor quality agricultural land
87	172m E	Grade 4	Poor quality agricultural land
89	180m W	Grade 5	Very poor quality agricultural land
90	181m W	Grade 5	Very poor quality agricultural land
93	188m SW	Grade 4	Poor quality agricultural land
97	195m NE	Grade 4	Poor quality agricultural land
98	197m SW	Grade 5	Very poor quality agricultural land
100	199m SE	Grade 5	Very poor quality agricultural land
101	203m SW	Grade 5	Very poor quality agricultural land
102	212m NE	Grade 5	Very poor quality agricultural land
103	214m S	Grade 5	Very poor quality agricultural land
104	216m NE	Grade 5	Very poor quality agricultural land
105	219m N	Grade 5	Very poor quality agricultural land
106	220m NE	Grade 3b	Moderate quality agricultural land
107	224m NE	Grade 4	Poor quality agricultural land
108	226m NE	Grade 4	Poor quality agricultural land
113	241m E	Grade 5	Very poor quality agricultural land

This data is sourced from Natural Resources Wales.



12.2 Open Access Land

Records within 250m

8

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

Features are displayed on the Agricultural designations map on [page 108](#) >

ID	Location	Name	Classification	Other relevant legislation
40	On site	-	Open Access Registered Common Land	-
41	On site	-	Open Access Registered Common Land	-
42	On site	-	Open Access Open Country	-
43	On site	-	Open Access Open Country	-
44	On site	-	Open Access Open Country	-
45	On site	-	Open Access Open Country	-
109	229m E	-	Open Access Open Country	-
114	243m E	-	Open Access Open Country	-

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m**0**

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m**0**

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m**0**

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

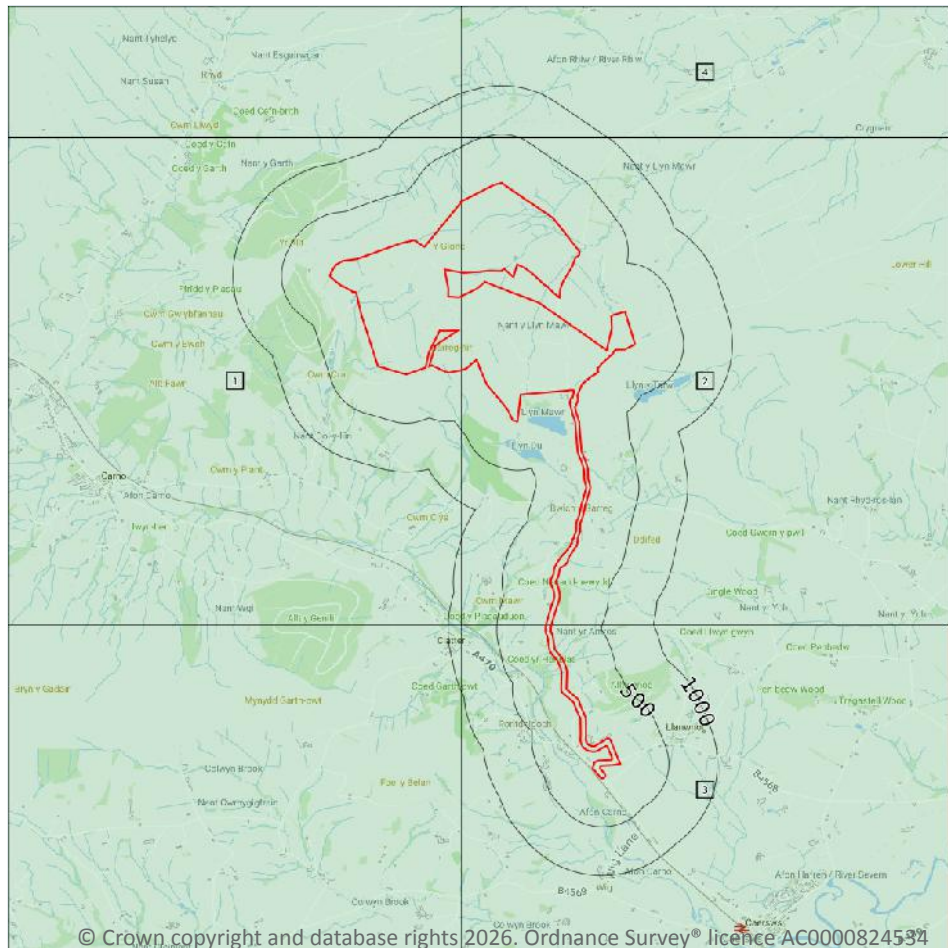
Records within 250m**0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 115](#) >

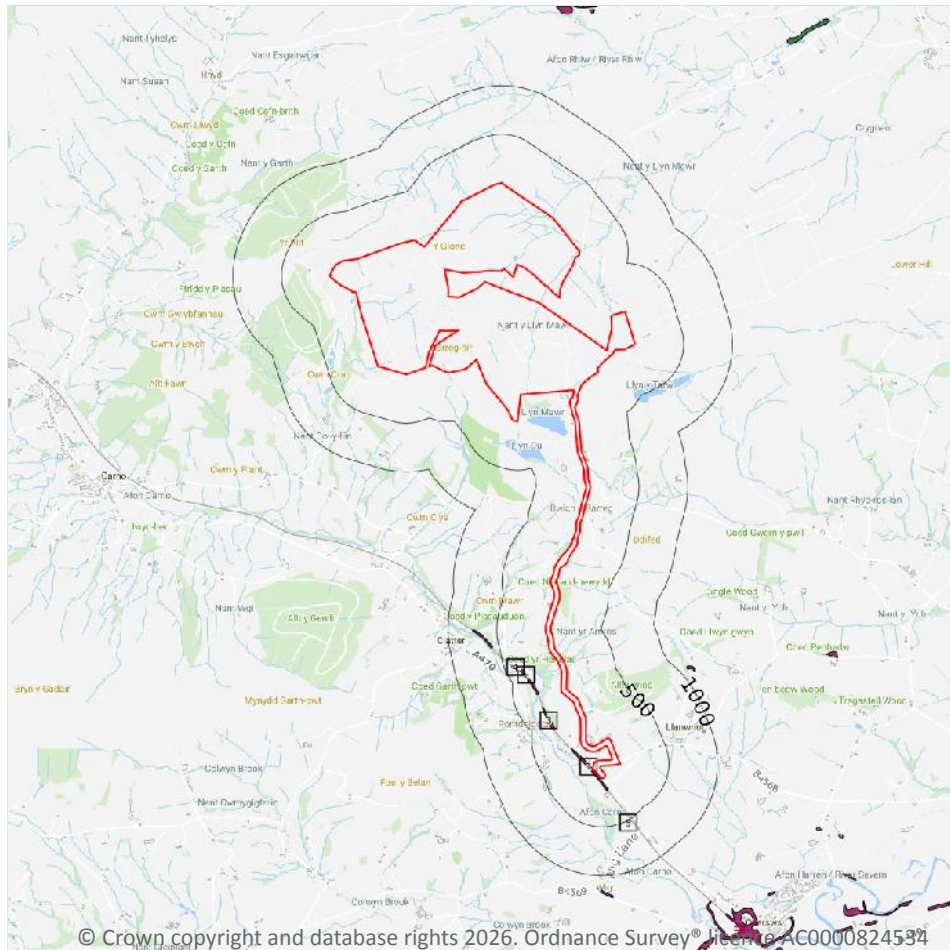
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SN99NE
2	On site	No coverage	Full	Full	Full	SO09NW
3	On site	Full	Full	Full	Full	SO09SW
4	463m N	Full	Full	Full	Full	SJ00SW



This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

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14.2 Artificial and made ground (10k)

Records within 500m

5

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 117](#) >

ID	Location	LEX Code	Description	Rock description
1	5m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
2	237m W	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
3	252m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
4	371m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

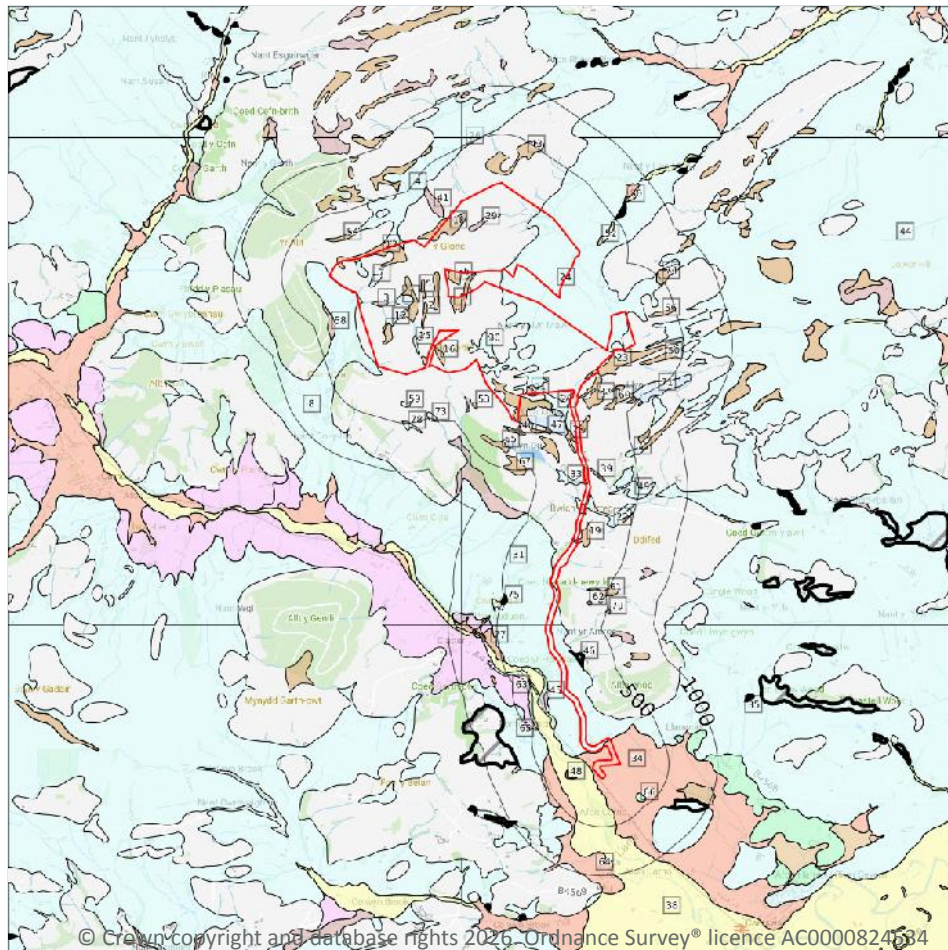


ID	Location	LEX Code	Description	Rock description
5	498m SE	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)

▣ Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

78

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 119](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
2	On site	PEAT-P	Peat-Peat	Peat
3	On site	HEAD-XDVSZ	Head-Diamicton, Gravel, Sand And Silt	Diamicton, gravel, sand and silt



ID	Location	LEX Code	Description	Rock description
4	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
5	On site	PEAT-P	Peat-Peat	Peat
6	On site	PEAT-P	Peat-Peat	Peat
7	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
8	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
9	On site	PEAT-P	Peat-Peat	Peat
10	On site	PEAT-P	Peat-Peat	Peat
11	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
12	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
13	On site	PEAT-P	Peat-Peat	Peat
14	On site	PEAT-P	Peat-Peat	Peat
15	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
16	On site	PEAT-P	Peat-Peat	Peat
17	On site	PEAT-P	Peat-Peat	Peat
18	On site	PEAT-P	Peat-Peat	Peat
19	On site	PEAT-P	Peat-Peat	Peat
20	On site	PEAT-P	Peat-Peat	Peat
21	On site	PEAT-P	Peat-Peat	Peat
22	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
23	On site	PEAT-P	Peat-Peat	Peat
24	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
25	On site	PEAT-P	Peat-Peat	Peat
26	On site	PEAT-P	Peat-Peat	Peat



ID	Location	LEX Code	Description	Rock description
27	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
28	On site	PEAT-P	Peat-Peat	Peat
29	On site	HEAD-XDVSZ	Head-Diamicton, Gravel, Sand And Silt	Diamicton, gravel, sand and silt
30	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
31	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
32	On site	PEAT-P	Peat-Peat	Peat
33	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
34	On site	ALF-XSV	Alluvial Fan Deposits-Sand And Gravel	Sand and gravel
35	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
36	1m S	PEAT-P	Peat-Peat	Peat
37	16m E	PEAT-P	Peat-Peat	Peat
38	22m SW	ALV-XVSZC	Alluvium-Gravel, Sand, Silt And Clay	Gravel, sand, silt and clay
39	23m E	HEAD-XDVSZ	Head-Diamicton, Gravel, Sand And Silt	Diamicton, gravel, sand and silt
40	49m SE	PEAT-P	Peat-Peat	Peat
41	49m NW	HEAD-XDVSZ	Head-Diamicton, Gravel, Sand And Silt	Diamicton, gravel, sand and silt
42	84m W	SUPD-UNKNOWN	Superficial Deposits-Unknown/unclassified Entry	Unknown/unclassified entry
43	90m N	PEAT-P	Peat-Peat	Peat
44	119m E	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
45	123m W	GFDUD-XSV	Glaciofluvial Deposits, Devensian-Sand And Gravel	Sand and gravel
47	158m SE	PEAT-P	Peat-Peat	Peat
48	188m SW	LDE-C	Lacustrine Deposits-Clay	Clay
49	192m E	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
50	194m SE	PEAT-P	Peat-Peat	Peat



ID	Location	LEX Code	Description	Rock description
51	197m W	PEAT-P	Peat-Peat	Peat
52	199m E	ALV-XVSZC	Alluvium-Gravel, Sand, Silt And Clay	Gravel, sand, silt and clay
53	204m SW	PEAT-P	Peat-Peat	Peat
54	208m N	PEAT-P	Peat-Peat	Peat
55	209m S	PEAT-P	Peat-Peat	Peat
56	221m E	PEAT-P	Peat-Peat	Peat
57	230m SW	HEAD-XDVSZ	Head-Diamicton, Gravel, Sand And Silt	Diamicton, gravel, sand and silt
58	251m SW	HEAD-XVSZ	Head-Gravel, Sand And Silt	Gravel, sand and silt
59	279m S	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
60	281m E	PEAT-P	Peat-Peat	Peat
61	288m E	PEAT-P	Peat-Peat	Peat
62	289m E	PEAT-P	Peat-Peat	Peat
63	332m W	GFDUD-XSV	Glaciofluvial Deposits, Devensian-Sand And Gravel	Sand and gravel
64	343m SW	ALF-XSV	Alluvial Fan Deposits-Sand And Gravel	Sand and gravel
65	345m W	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
66	355m SE	HMGD-XDV	Hummocky (Moundy) Glacial Deposits-Diamicton And Gravel	Diamicton and gravel
67	361m S	PEAT-P	Peat-Peat	Peat
68	368m NE	ALV-XVSZC	Alluvium-Gravel, Sand, Silt And Clay	Gravel, sand, silt and clay
69	401m E	PEAT-P	Peat-Peat	Peat
70	411m E	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
71	421m SE	SUPD-UNKNOWN	Superficial Deposits-Unknown/unclassified Entry	Unknown/unclassified entry
72	422m SE	PEAT-P	Peat-Peat	Peat
73	440m S	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
74	449m NE	PEAT-P	Peat-Peat	Peat
76	473m NW	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton
77	474m W	ALF-XSV	Alluvial Fan Deposits-Sand And Gravel	Sand and gravel
78	478m S	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
79	492m E	PEAT-P	Peat-Peat	Peat
80	494m NE	ALV-XVSZC	Alluvium-Gravel, Sand, Silt And Clay	Gravel, sand, silt and clay

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

2

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

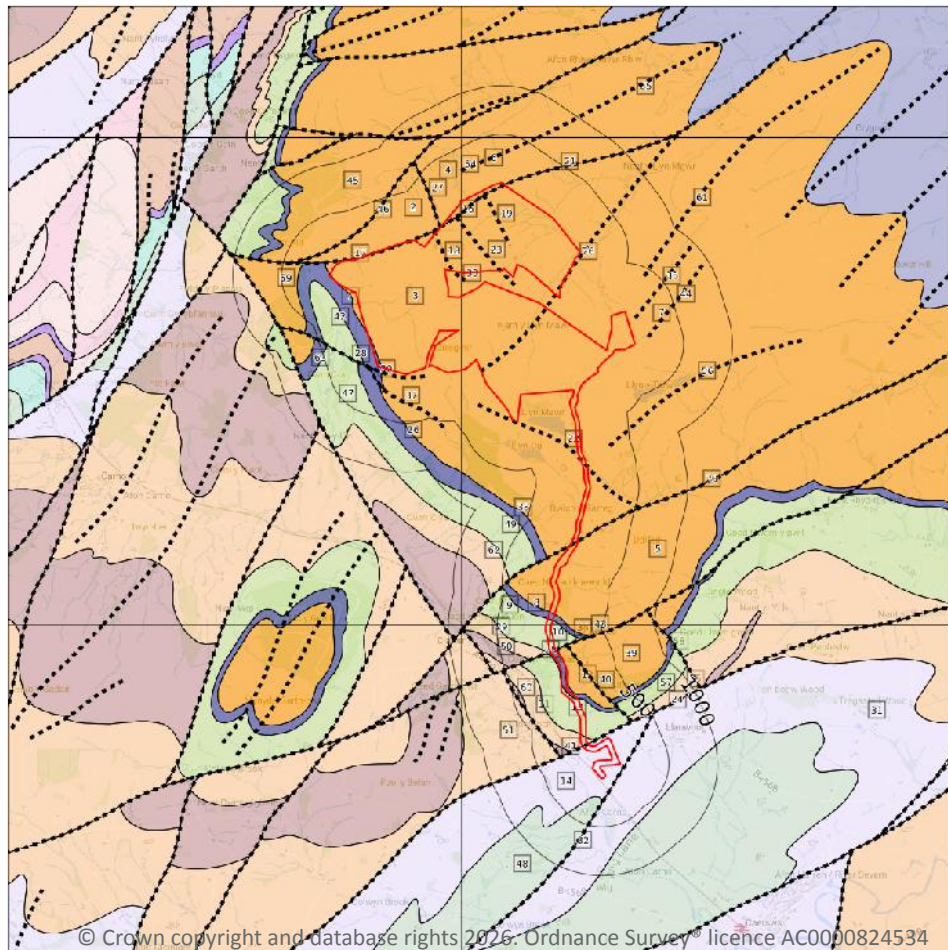
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 119](#) >

ID	Location	LEX Code	Description	Rock description
46	135m NE	SLIP-UNKNOWN	Landslide deposits	Unknown/unclassified entry
75	462m W	SLIP-UNKNOWN	Landslide deposits	Unknown/unclassified entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

40

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 124 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
2	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
3	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
4	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian



ID	Location	LEX Code	Description	Rock age
5	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
6	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
7	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
8	On site	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
9	On site	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
10	On site	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
11	On site	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded Mudstone And Sandstone	Telychian
12	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
13	On site	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
14	On site	CAM-MDST	Caerau Mudstones Formation-Mudstone	Telychian
15	On site	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
29	34m SW	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded Mudstone And Sandstone	Telychian
30	43m SW	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
31	49m SE	CAM-MDST	Caerau Mudstones Formation-Mudstone	Telychian
34	78m E	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
36	90m SW	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
38	112m NW	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
39	119m NE	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
41	120m SW	PTR-STMD	Pysgotwr Grits Formation-Sandstone And Mudstone	Telychian
42	123m SW	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
43	151m E	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
45	168m NW	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
47	180m W	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
48	195m S	RHS-MDST	Rhayader Mudstones Formation-Mudstone	Aeronian
49	196m W	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
50	232m SW	PTR-STMD	Pysgotwr Grits Formation-Sandstone And Mudstone	Telychian
51	247m SW	GLRL-MDSA	Glanyrafon Formation (Lower Tongue)-Interbedded Mudstone And Sandstone	Telychian



ID	Location	LEX Code	Description	Rock age
55	288m NE	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded Mudstone And Sandstone	Telychian
57	290m NE	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
58	297m NE	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
59	302m W	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian
60	399m W	PTR-STMD	Pysgotwr Grits Formation-Sandstone And Mudstone	Telychian
62	427m W	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded Mudstone And Sandstone	Telychian
63	433m W	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
64	444m SW	GLRL-MDSA	Glanyrafon Formation (Lower Tongue)-Interbedded Mudstone And Sandstone	Telychian
65	463m N	PEG-STMD	Penstrowed Grits Formation-Sandstone And Mudstone	Sheinwoodian

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

25

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 124](#) >

ID	Location	Category	Description
16	On site	FAULT	Fault, inferred, displacement unknown
17	On site	FAULT	Fault, inferred, displacement unknown
18	On site	FAULT	Fault, inferred, displacement unknown
19	On site	FAULT	Fault, inferred, displacement unknown
20	On site	FAULT	Fault, inferred, displacement unknown
21	On site	FAULT	Fault, inferred, displacement unknown
22	On site	FAULT	Fault, inferred, displacement unknown
23	On site	FAULT	Fault, inferred, displacement unknown
24	On site	FAULT	Fault, inferred, displacement unknown

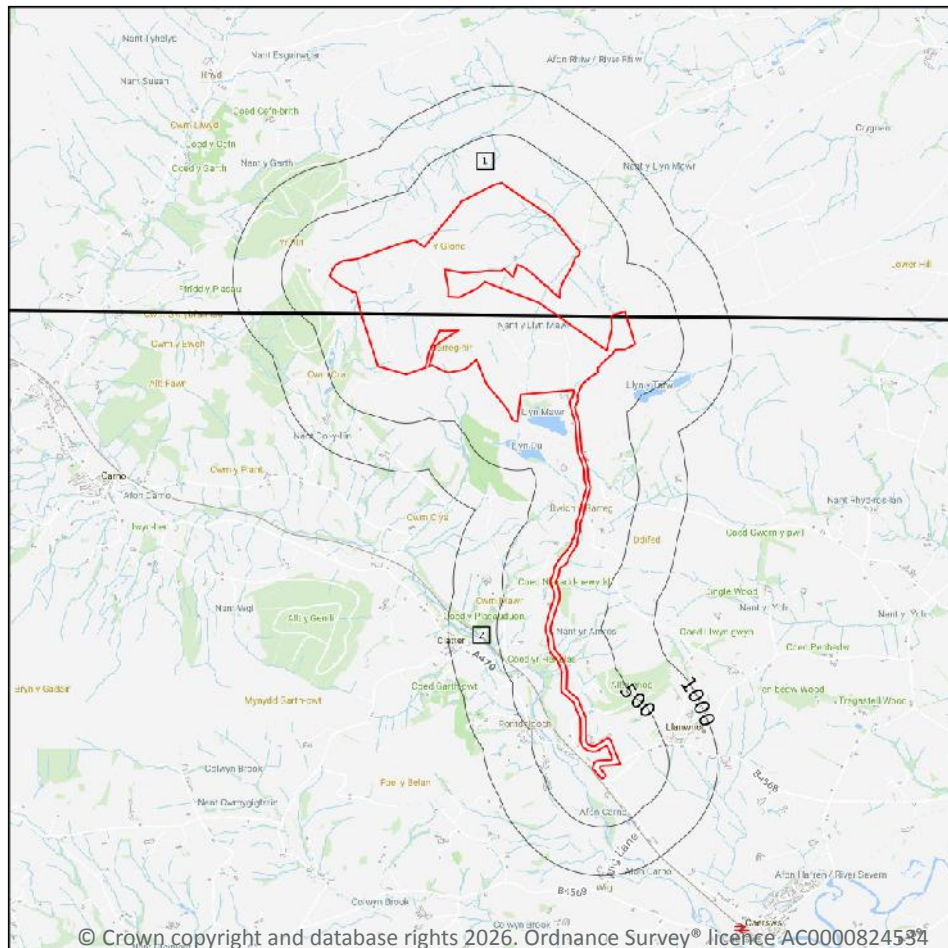


ID	Location	Category	Description
25	On site	FAULT	Fault, inferred, displacement unknown
26	On site	FOLD_AXIS	Axial plane trace of major syncline
27	1m NW	FAULT	Fault, inferred, displacement unknown
28	32m S	FAULT	Fault, inferred, displacement unknown
32	49m SE	FAULT	Fault, inferred, displacement unknown
33	57m S	FAULT	Fault, inferred, displacement unknown
35	82m E	FOLD_AXIS	Axial plane trace of major syncline
37	90m SW	FAULT	Fault, inferred, displacement unknown
40	119m NE	FAULT	Fault, inferred, displacement unknown
44	151m E	FOLD_AXIS	Axial plane trace of major anticline
46	168m NW	FAULT	Fault, inferred, displacement unknown
52	247m SW	FAULT	Fault, inferred, displacement unknown
53	265m N	FOLD_AXIS	Axial plane trace of major anticline
54	283m NW	FOLD_AXIS	Axial plane trace of major anticline
56	288m NE	FOLD_AXIS	Axial plane trace of major syncline
61	415m NE	FOLD_AXIS	Axial plane trace of major anticline

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

2

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 128 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW150_dinas_mawddwy
2	On site	Full	Full	Full	Full	EW164_llanidloes

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

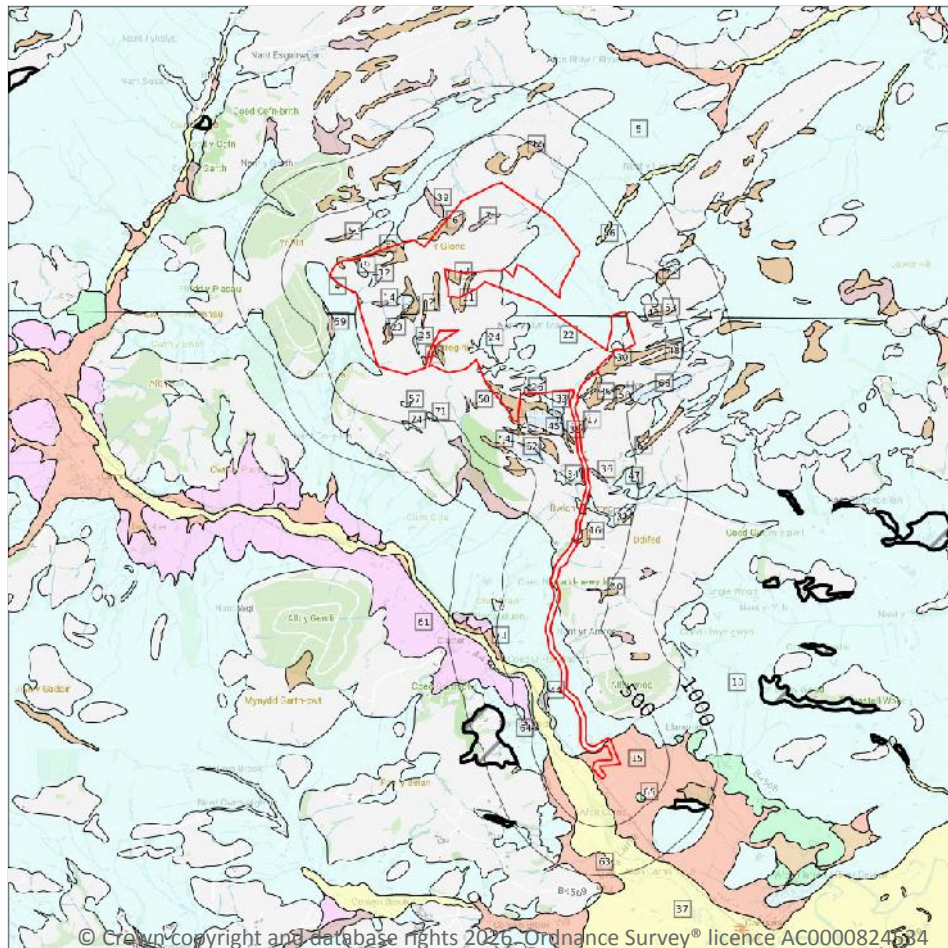
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

74

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 130](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian	Diamicton
2	On site	PEAT-P	Peat	Peat
3	On site	PEAT-P	Peat	Peat



ID	Location	LEX Code	Description	Rock description
4	On site	TILLD-DMTN	Till, Devensian	Diamicton
5	On site	TILLD-DMTN	Till, Devensian	Diamicton
6	On site	PEAT-P	Peat	Peat
7	On site	HEAD-XDVSZ	Head	Diamicton, gravel, sand and silt
8	On site	PEAT-P	Peat	Peat
9	On site	TILLD-DMTN	Till, Devensian	Diamicton
10	On site	PEAT-P	Peat	Peat
11	On site	PEAT-P	Peat	Peat
12	On site	TILLD-DMTN	Till, Devensian	Diamicton
13	On site	TILLD-DMTN	Till, Devensian	Diamicton
14	On site	HEAD-XDVSZ	Head	Diamicton, gravel, sand and silt
15	On site	ALF-XSV	Alluvial fan deposits	Sand and gravel
16	On site	PEAT-P	Peat	Peat
17	On site	PEAT-P	Peat	Peat
18	On site	TILLD-DMTN	Till, Devensian	Diamicton
19	On site	PEAT-P	Peat	Peat
20	On site	TILLD-DMTN	Till, Devensian	Diamicton
21	On site	PEAT-P	Peat	Peat
22	On site	TILLD-DMTN	Till, Devensian	Diamicton
23	On site	PEAT-P	Peat	Peat
24	On site	TILLD-DMTN	Till, Devensian	Diamicton
25	On site	TILLD-DMTN	Till, Devensian	Diamicton



ID	Location	LEX Code	Description	Rock description
26	On site	PEAT-P	Peat	Peat
27	On site	PEAT-P	Peat	Peat
28	On site	PEAT-P	Peat	Peat
29	On site	PEAT-P	Peat	Peat
30	On site	PEAT-P	Peat	Peat
31	On site	TILLD-DMTN	Till, Devensian	Diamicton
32	1m S	PEAT-P	Peat	Peat
33	2m S	TILLD-DMTN	Till, Devensian	Diamicton
34	9m W	TILLD-DMTN	Till, Devensian	Diamicton
35	16m E	PEAT-P	Peat	Peat
36	19m E	HEAD-XDVSZ	Head	Diamicton, gravel, sand and silt
37	22m SW	ALV-XVSZC	Alluvium	Gravel, sand, silt and clay
38	22m W	PEAT-P	Peat	Peat
39	49m NW	HEAD-XDVSZ	Head	Diamicton, gravel, sand and silt
40	53m S	PEAT-P	Peat	Peat
41	64m E	SUPNM-UNKNOWN	Superficial Theme Not Mapped	Unknown/unclassified entry
42	90m N	PEAT-P	Peat	Peat
43	118m E	TILLD-DMTN	Till, Devensian	Diamicton
44	123m W	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
45	147m SE	PEAT-P	Peat	Peat
46	185m E	ALV-XVSZC	Alluvium	Gravel, sand, silt and clay
47	193m E	TILLD-DMTN	Till, Devensian	Diamicton
48	194m SE	PEAT-P	Peat	Peat
49	204m W	PEAT-P	Peat	Peat
50	204m SW	PEAT-P	Peat	Peat
51	208m N	PEAT-P	Peat	Peat



ID	Location	LEX Code	Description	Rock description
52	212m S	SUPNM-UNKNOWN	Superficial Theme Not Mapped	Unknown/unclassified entry
53	220m E	PEAT-P	Peat	Peat
54	225m S	PEAT-P	Peat	Peat
55	230m SW	HEAD-XDVSZ	Head	Diamicton, gravel, sand and silt
56	246m SW	HEAD-XVSZ	Head	Gravel, sand and silt
57	279m S	TILLD-DMTN	Till, Devensian	Diamicton
58	281m E	PEAT-P	Peat	Peat
59	284m W	HEAD-XVSZ	Head	Gravel, sand and silt
60	288m E	PEAT-P	Peat	Peat
61	333m W	GFDUD-XSV	Glaciofluvial deposits, Devensian	Sand and gravel
62	336m NE	ALV-XVSZC	Alluvium	Gravel, sand, silt and clay
63	343m SW	ALF-XSV	Alluvial fan deposits	Sand and gravel
64	345m W	TILLD-DMTN	Till, Devensian	Diamicton
65	355m SE	HMGDD-XDV	Hummocky (Moundy) Glacial Deposits, Devensian	Diamicton and gravel
66	370m S	PEAT-P	Peat	Peat
67	400m E	PEAT-P	Peat	Peat
68	407m SE	SUPNM-UNKNOWN	Superficial Theme Not Mapped	Unknown/unclassified entry
69	411m E	TILLD-DMTN	Till, Devensian	Diamicton
70	424m SE	PEAT-P	Peat	Peat
71	440m S	TILLD-DMTN	Till, Devensian	Diamicton
72	449m NE	PEAT-P	Peat	Peat
73	474m W	ALF-XSV	Alluvial fan deposits	Sand and gravel
74	478m S	TILLD-DMTN	Till, Devensian	Diamicton

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

18

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
On site	Intergranular	Very High	High
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
On site	Mixed	High	Low
1m S	Mixed	Low	Very Low
2m S	Mixed	High	Low
9m W	Mixed	High	Low
15m E	Mixed	Low	Very Low
19m E	Mixed	High	Low
22m SW	Intergranular	Very High	Low
22m W	Mixed	Low	Very Low
49m NW	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.



This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

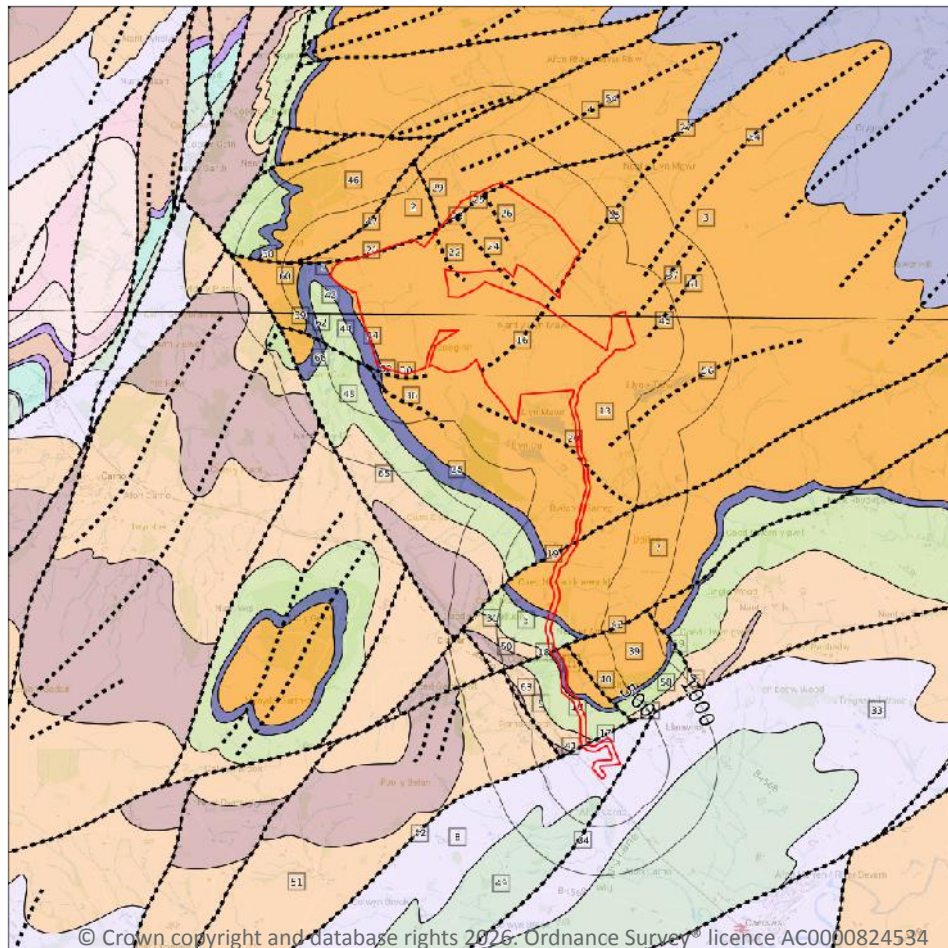
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

37

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 136 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
2	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
3	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
4	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian



ID	Location	LEX Code	Description	Rock age
5	On site	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
6	On site	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
7	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
8	On site	CAM-MDST	Caerau Mudstones Formation-Mudstone	Telychian
9	On site	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded mudstone and sandstone	Telychian
10	On site	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
11	On site	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
12	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
13	On site	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
14	On site	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
31	34m SW	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded mudstone and sandstone	Telychian
32	44m SW	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
33	49m SE	CAM-MDST	Caerau Mudstones Formation-Mudstone	Telychian
35	90m SW	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
39	119m NE	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
41	120m SW	PTR-STMD	Pysgotwr Grits Formation-Sandstone and mudstone	Telychian
43	124m SW	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
44	130m W	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
46	167m NW	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
48	180m W	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
49	195m S	RHS-MDST	Rhayader Mudstones Formation-Mudstone	Aeronian
50	232m SW	PTR-STMD	Pysgotwr Grits Formation-Sandstone and mudstone	Telychian
51	247m SW	GLRL-MDSA	Glanyrafon Formation (Lower Tongue)-Interbedded mudstone and sandstone	Telychian
55	288m NE	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded mudstone and sandstone	Telychian
58	290m NE	DGU-MDST	Dolgau Mudstones Formation-Mudstone	Not Defined
59	297m NE	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined



ID	Location	LEX Code	Description	Rock age
60	302m W	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian
62	395m SW	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
63	399m W	PTR-STMD	Pysgotwr Grits Formation-Sandstone and mudstone	Telychian
65	427m W	GLRU-MDSA	Glanyrafon Formation (Upper Tongue)-Interbedded mudstone and sandstone	Telychian
66	433m W	NYG-MDST	Nant-Ysgollon Mudstone Formation-Mudstone	Not Defined
67	444m SW	GLRL-MDSA	Glanyrafon Formation (Lower Tongue)-Interbedded mudstone and sandstone	Telychian
69	466m SW	PEG-STMD	Penstrowed Grits Formation-Sandstone and mudstone	Sheinwoodian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	11
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
34m SW	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

32

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 136](#) >

ID	Location	Category	Description
15	On site	FOLD_AXIS	Axial plane trace of major syncline
16	On site	FOLD_AXIS	Axial plane trace of major syncline
17	On site	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
18	On site	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
19	On site	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
20	On site	FAULT	Fault, inferred, displacement unknown
21	On site	FAULT	Fault, inferred, displacement unknown
22	On site	FAULT	Fault, inferred, displacement unknown
23	On site	FAULT	Fault, inferred, displacement unknown
24	On site	FAULT	Fault, inferred, displacement unknown
25	On site	FAULT	Fault, inferred, displacement unknown
26	On site	FAULT	Fault, inferred, displacement unknown
27	On site	FAULT	Fault, inferred, displacement unknown
28	1m NW	FAULT	Fault, inferred, displacement unknown
29	1m NW	FAULT	Fault, inferred, displacement unknown
30	32m S	FAULT	Fault, inferred, displacement unknown
34	49m SE	FAULT	Fault, inferred, displacement unknown
36	90m SW	FAULT	Fault, inferred, displacement unknown
37	96m E	FOLD_AXIS	Axial plane trace of major syncline
38	100m W	FAULT	Fault, inferred, displacement unknown
40	119m NE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
42	122m NE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
45	152m E	FOLD_AXIS	Axial plane trace of major anticline

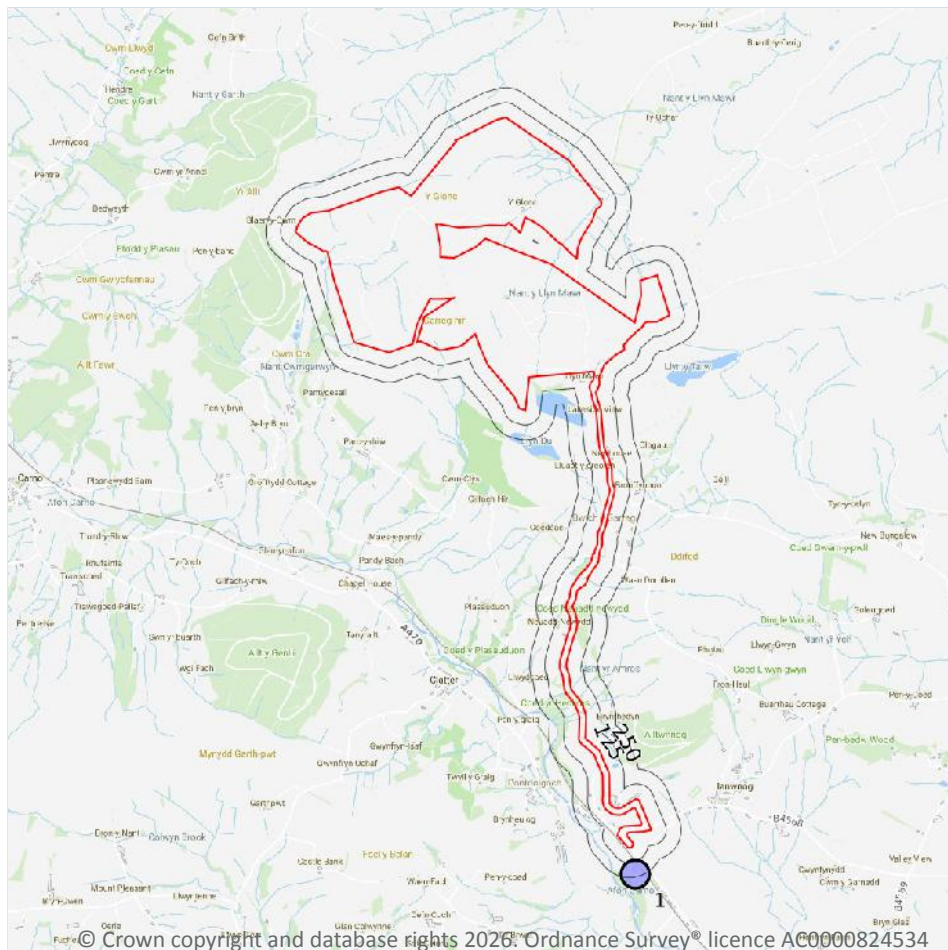


ID	Location	Category	Description
47	167m NW	FAULT	Fault, inferred, displacement unknown
52	247m SW	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
53	247m SW	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
54	265m N	FOLD_AXIS	Axial plane trace of major anticline
56	289m NE	FOLD_AXIS	Axial plane trace of major syncline
57	290m NE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
61	366m E	FOLD_AXIS	Axial plane trace of major anticline
64	415m NE	FOLD_AXIS	Axial plane trace of major anticline
68	448m W	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

1

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

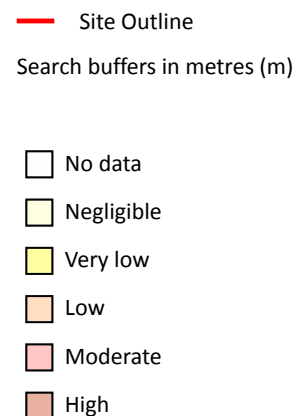
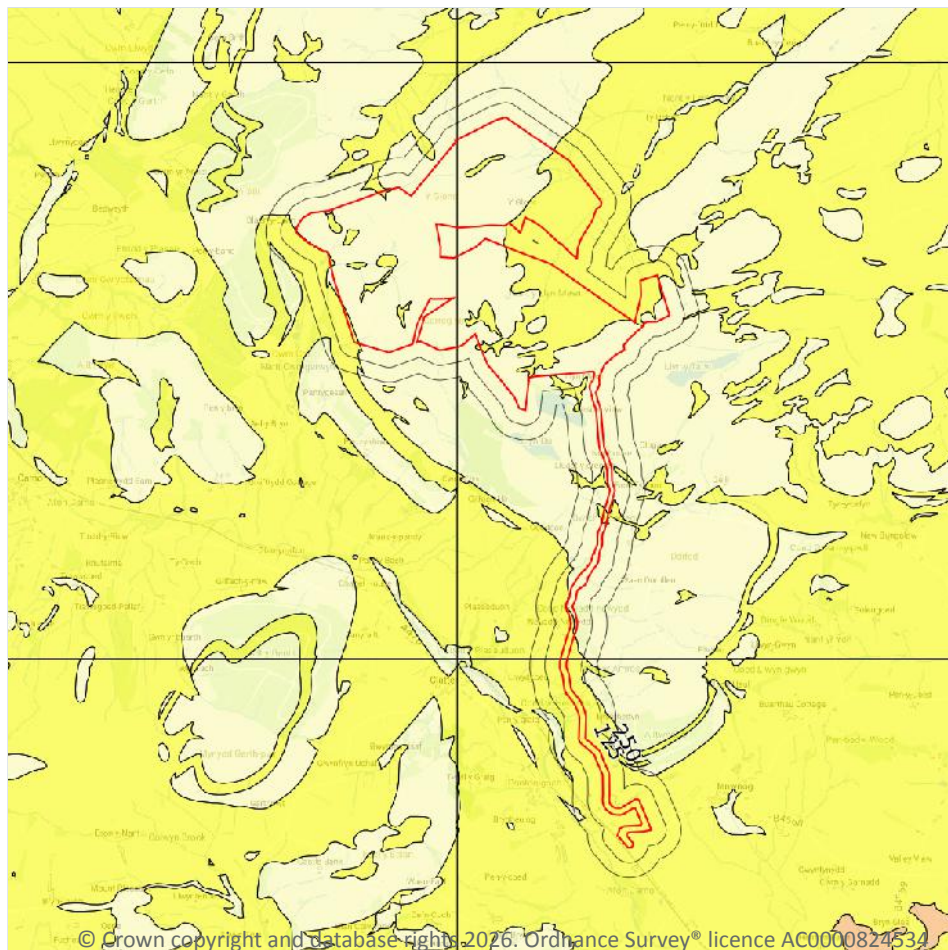
Features are displayed on the Boreholes map on [page 141](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	227m S	301490 293200	TYDDYNCANOL WELL	6.1	N	20782168 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

5

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 142 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
2m S	Very low	Ground conditions predominantly low plasticity.

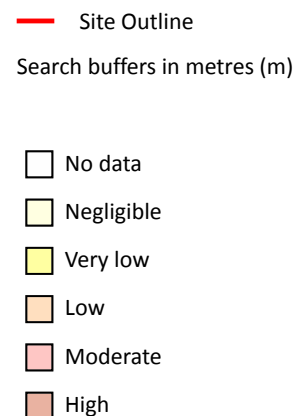
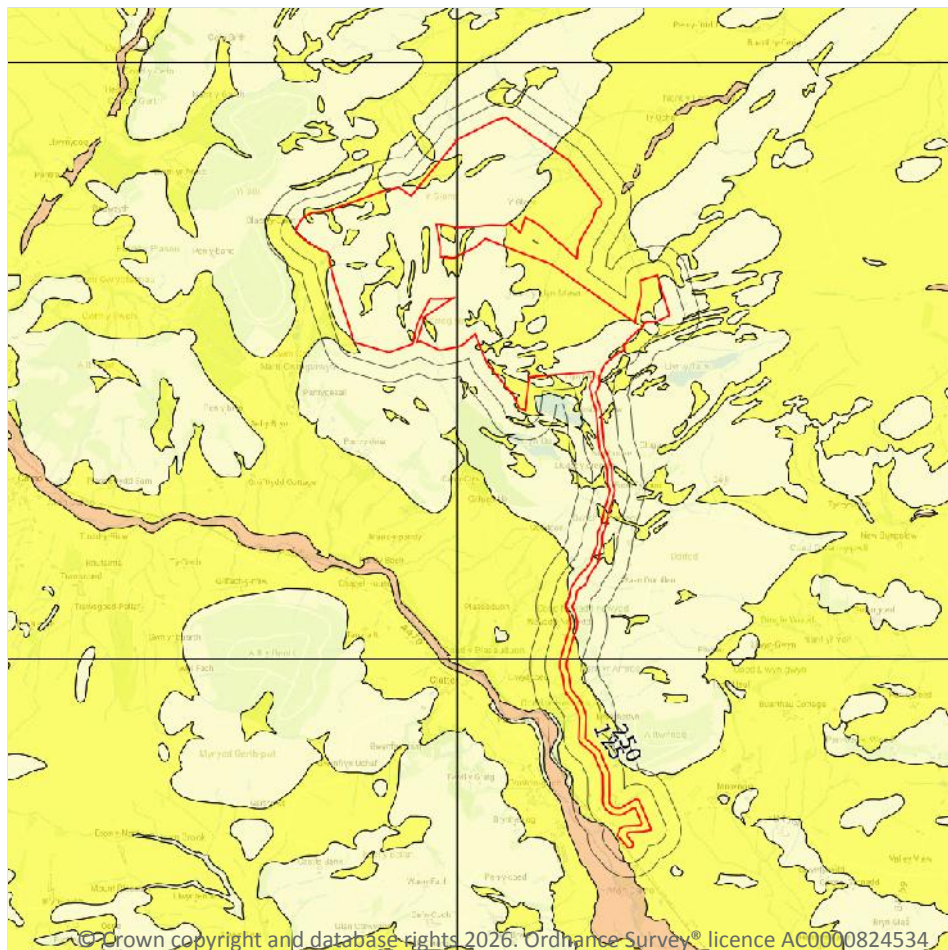


Location	Hazard rating	Details
9m W	Very low	Ground conditions predominantly low plasticity.
19m E	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

8

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 144](#) >

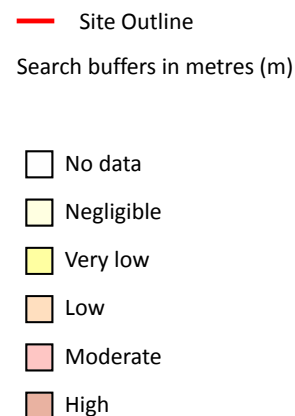
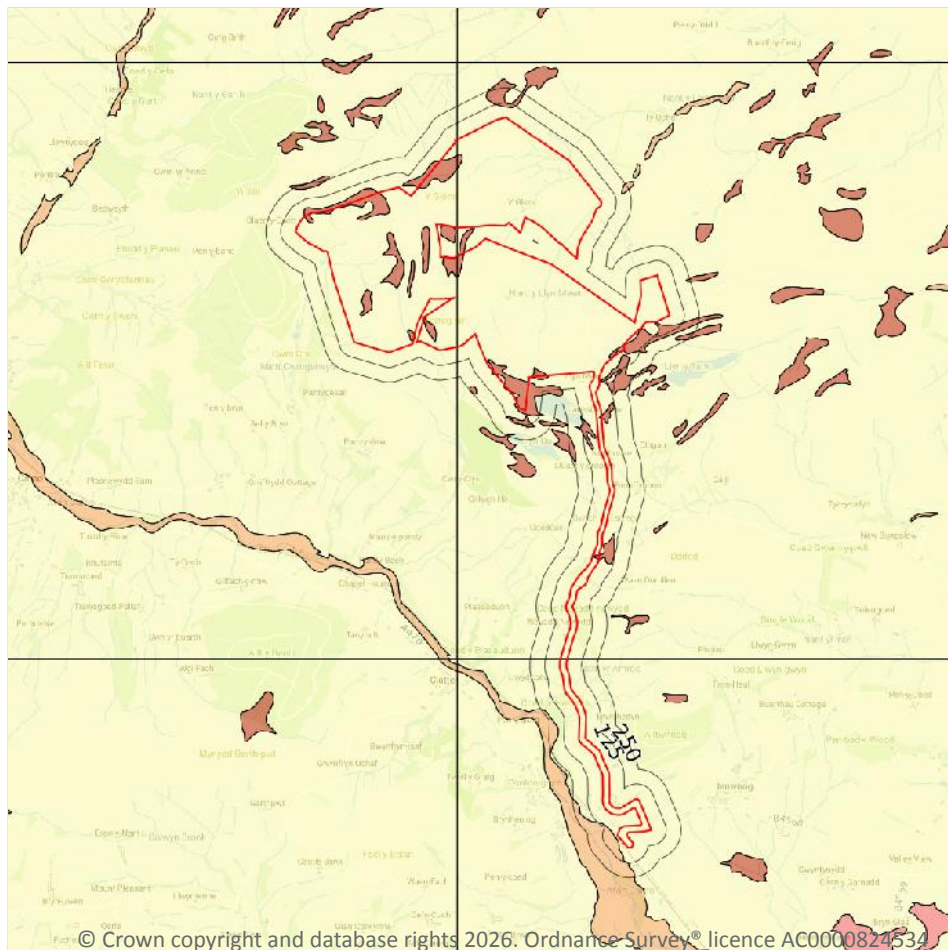
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
1m S	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
9m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
16m E	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
19m E	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
22m SW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
22m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

6

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 146](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

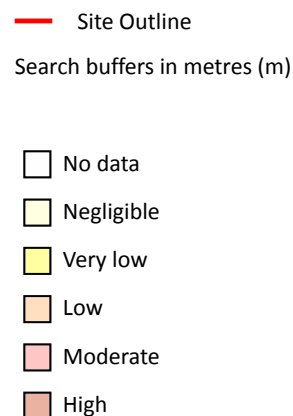
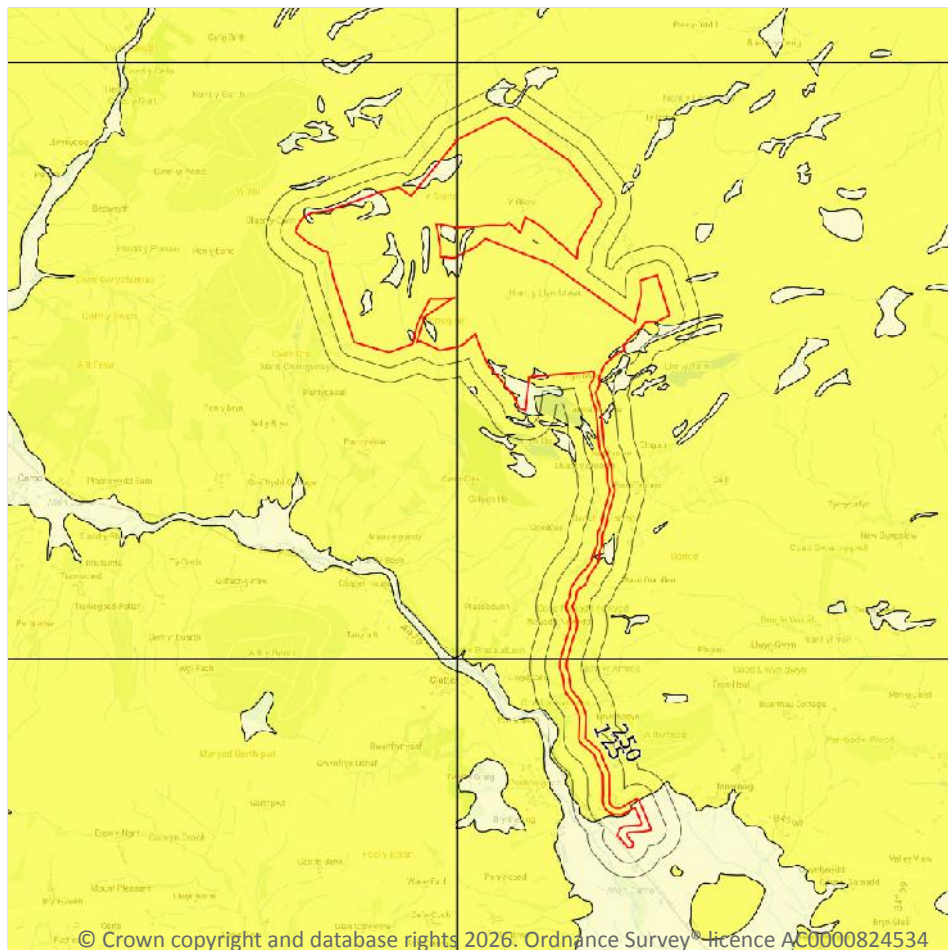


Location	Hazard rating	Details
1m S	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
16m E	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
22m SW	Low	Compressibility and uneven settlement potential may be present. Land use should consider specifically the compressibility and variability of the site.
22m W	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

5

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 148](#) >

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
1m S	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

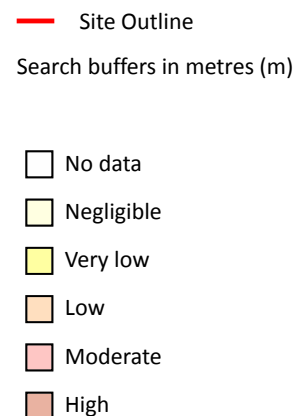
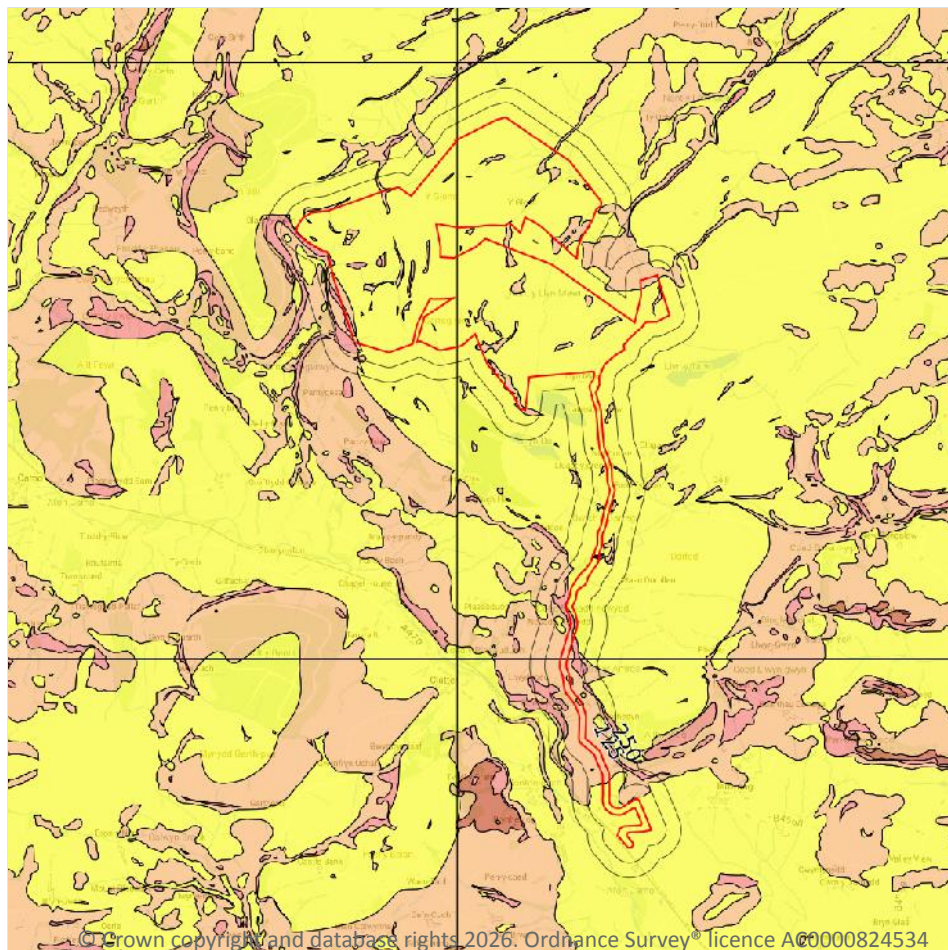


Location	Hazard rating	Details
16m E	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
22m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

21

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 150](#) >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
6m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
11m E	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
12m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
13m SE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
14m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
14m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
20m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
24m SW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
27m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
27m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
31m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
31m NE	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
40m E	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
40m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
42m E	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
46m W	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

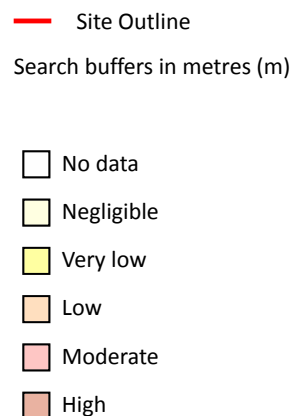
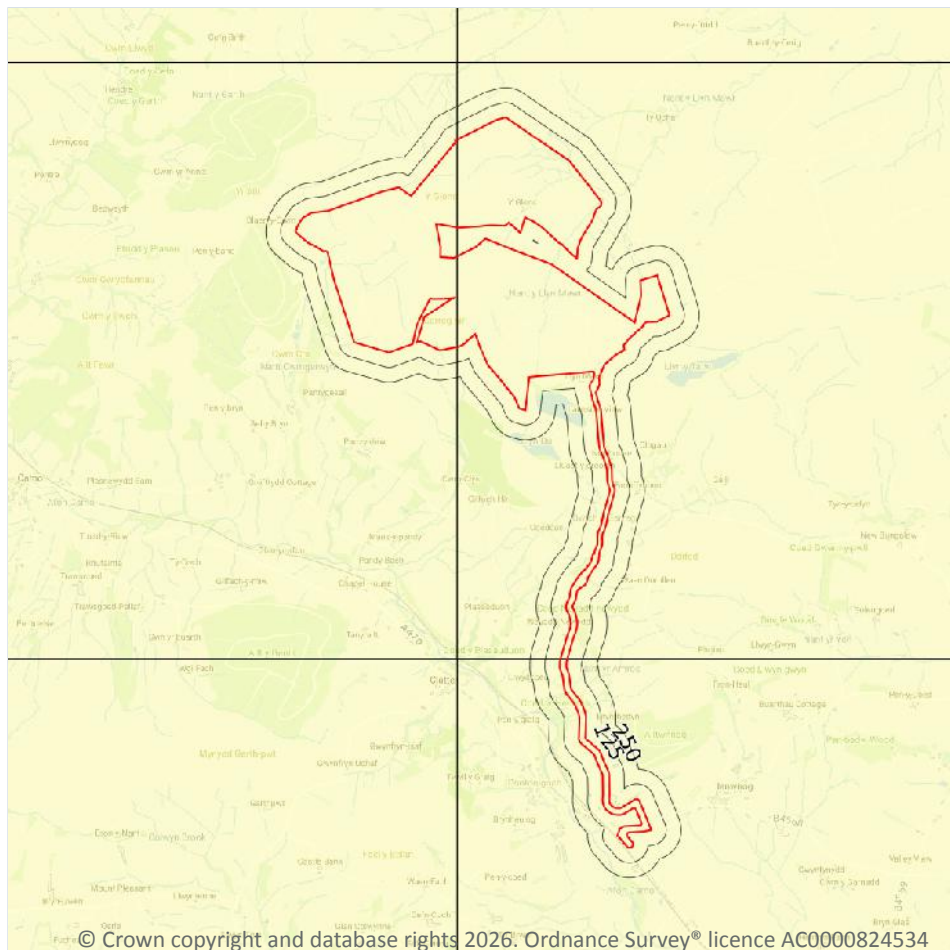


Location	Hazard rating	Details
48m NE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
48m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 153](#) >

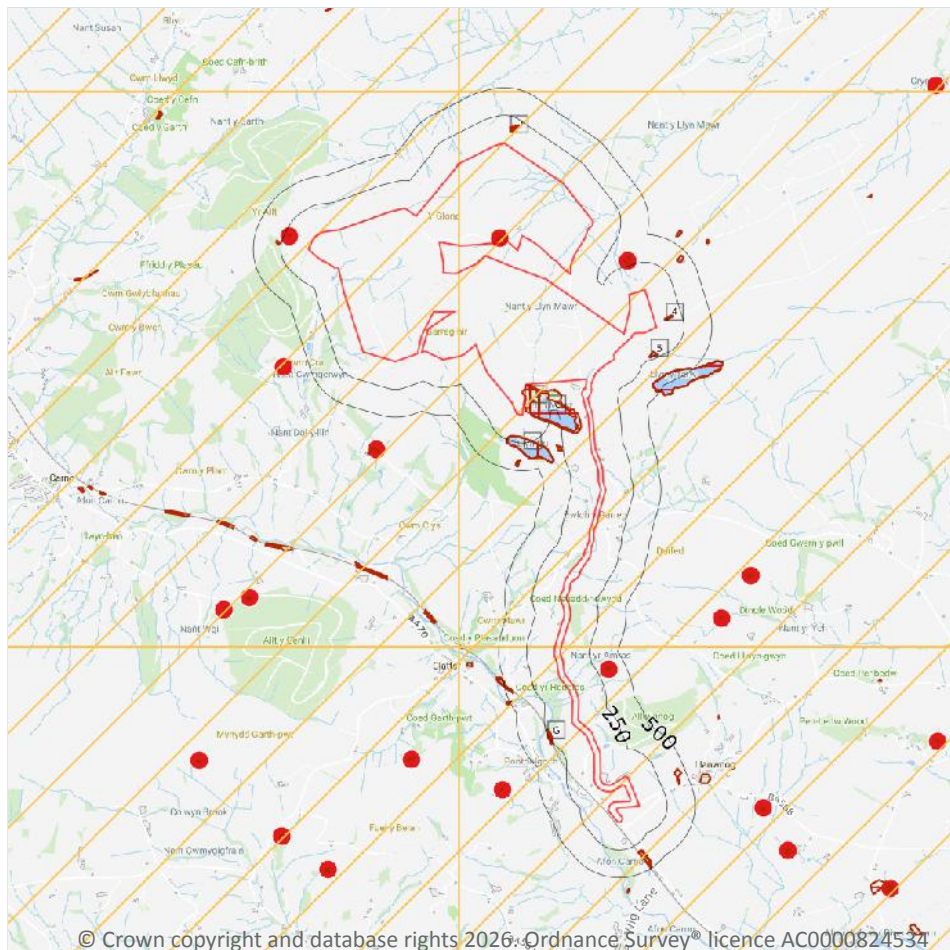
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- ▨ Surface ground workings
- ▨ Underground workings
- ▨ Underground mining extents
- ▨ Historical mineral planning areas
- ▨ TCA non-coal mining
- Non Coal Mining
- ▨ Sporadic underground mining of restricted extent possible
- ▨ Localised small scale underground mining possible
- ▨ Small scale mining possible
- ▨ Underground mining known or likely within or in close proximity
- ▨ Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

4

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on [page 155](#) >



ID	Location	Details	Description
A	On site	Name: Y Glonc Address: Carno, WELSHPOOL, Powys Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
E	204m NW	Name: Laen-y-cwm Gravel Pit Address: Rhyd, WELSHPOOL, Powys Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
I	299m N	Name: Waun y Llyn Address: Carno, WELSHPOOL, Powys Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
L	349m NE	Name: Neuadd-newydd Wood Address: Llanwnnog, NEWTOWN, Powys Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.



18.2 Surface ground workings

Records within 250m

25

Historical land uses identified from Ordnance Survey® mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 155 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Quarry	1991	1:10000
B	On site	Water Body	1885	1:10560
B	28m S	Water Body	1948	1:10560
B	29m S	Water Body	1903	1:10560
C	64m S	Water Body	1885	1:10560
C	87m S	Water Body	1948	1:10560
C	87m S	Water Body	1903	1:10560
4	91m E	Pond	1991	1:10000
D	125m NE	Pond	1991	1:10000
D	125m NE	Pond	1980	1:10000
D	125m NE	Pond	1949	1:10560
D	127m NE	Pond	1949	1:10560
D	127m NE	Pond	1885	1:10560
D	133m NE	Pond	1903	1:10560
5	186m SE	Unspecified Quarry	1991	1:10000
E	194m NW	Gravel Pit	1903	1:10560
F	195m S	Water Body	1948	1:10560
F	195m S	Water Body	1885	1:10560
E	196m NW	Gravel Pit	1949	1:10560
F	198m S	Water Body	1903	1:10560
E	198m NW	Gravel Pit	1949	1:10560
G	222m SW	Cuttings	1885	1:10560
G	222m SW	Cuttings	1948	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
G	222m SW	Cuttings	1962	1:10560
G	223m SW	Cuttings	1903	1:10560

This data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey® mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey®/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

6

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining and ground workings map on [page 155 >](#)

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Berwyn Hills	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
2	On site	Berwyn Hills	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
3	On site	Berwyn Hills	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	463m N	Berwyn Hills	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
12	580m NW	Berwyn Hills	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
18	858m W	Berwyn Hills	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

1

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.



Location	Details
On site	Whilst outside of an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) may have information such as mining plans and maps held within their archive that have occurred within 1km of this property. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk ↗.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0
---------------------	---

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0
---------------------	---

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0
---------------------	---

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site**0**

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site**0**

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site**0**

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site**0**

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey® maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

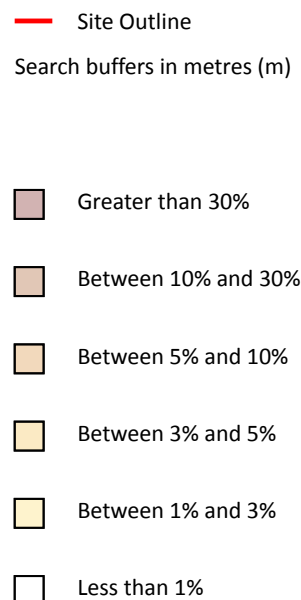
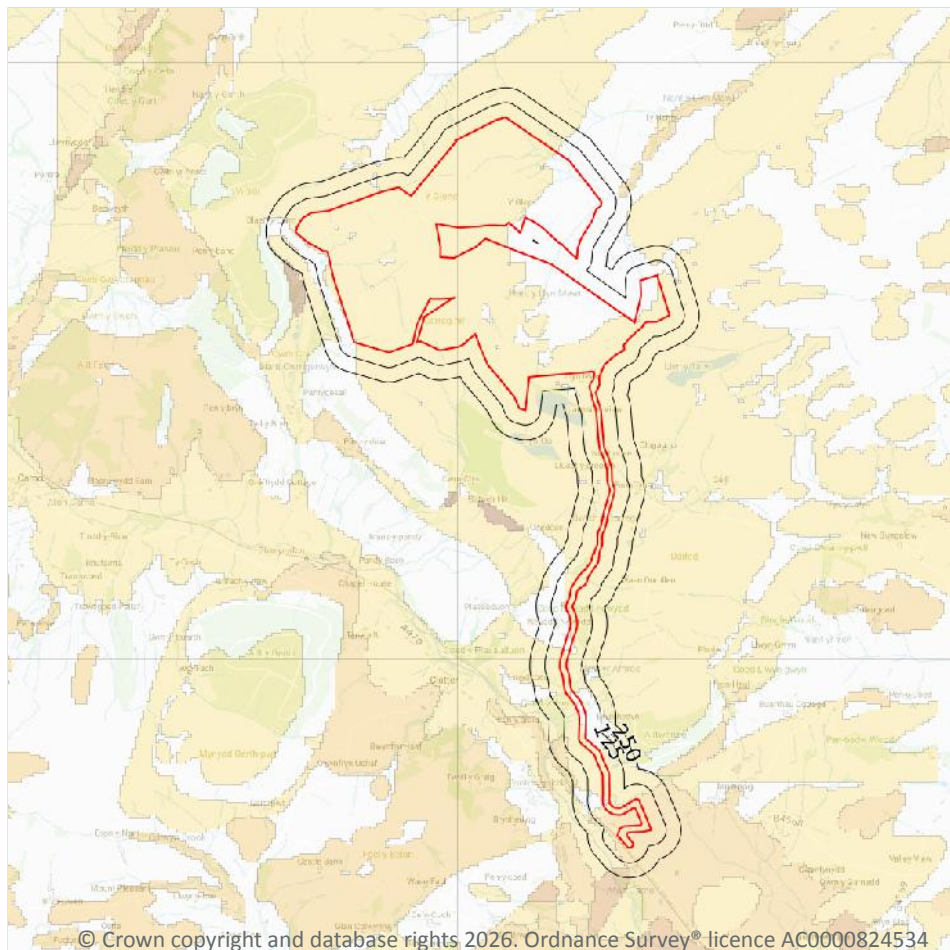
Not all 'holes' noted on Ordnance Survey® mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.



20 Radon



20.1 Radon

Records on site

3

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 165](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None
On site	Between 3% and 5%	Basic

This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

106

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
1m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
2m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
6m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
22m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
25m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
39m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
40m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

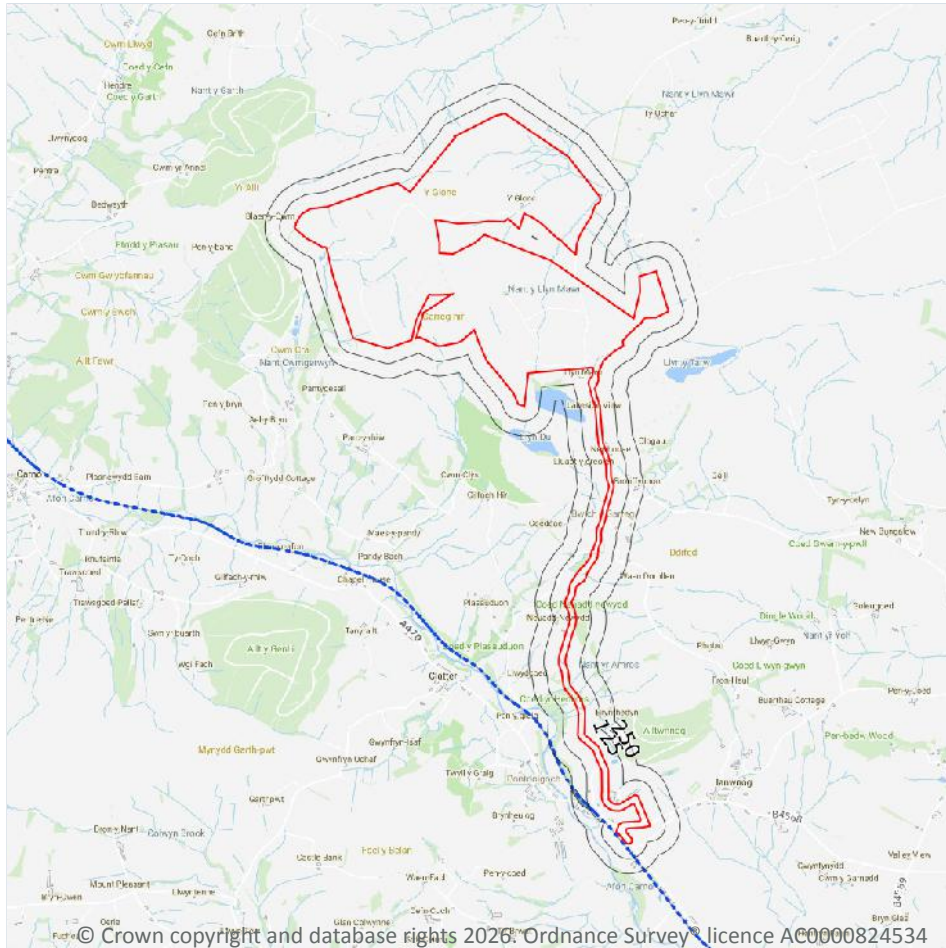
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m

4

Railways and tunnels digitised from historical Ordnance Survey® mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on [page 174 >](#)

Location	Land Use	Year of mapping	Mapping scale
97m SW	Railway Sidings	1885	10560
109m SW	Railway Sidings	1948	10560
114m W	Railway Sidings	1962	10560
139m W	Railway Sidings	1903	10560

This data is sourced from Ordnance Survey®/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.



22.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

17

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on [page 174 >](#)

Location	Name	Type
17m SW	Not given	Single Track
20m SW	Cambrian Line	rail
73m S	Cambrian Line	rail
81m S	Cambrian Line	rail
101m SW	Not given	Single Track
101m SW	Cambrian Line	rail
104m SW	Not given	Single Track
104m SW	Cambrian Line	rail
114m SW	Not given	Single Track
132m W	Not given	Single Track
145m SE	Not given	Single Track
235m W	Not given	Single Track
236m W	Cambrian Line	rail
237m W	Not given	Single Track
239m W	Cambrian Line	rail
241m W	Not given	Single Track
243m W	Cambrian Line	rail

This data is sourced from Ordnance Survey® and OpenStreetMap.



22.8 Crossrail 2

Records within 500m**0**

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m**0**

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

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