ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - Low 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: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
2	**On site**	**Summary Classification: Secondary superficial aquifer - Low 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: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
3	49m W	Summary Classification: Secondary superficial aquifer - Low 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: Low	Vulnerability: Low 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.

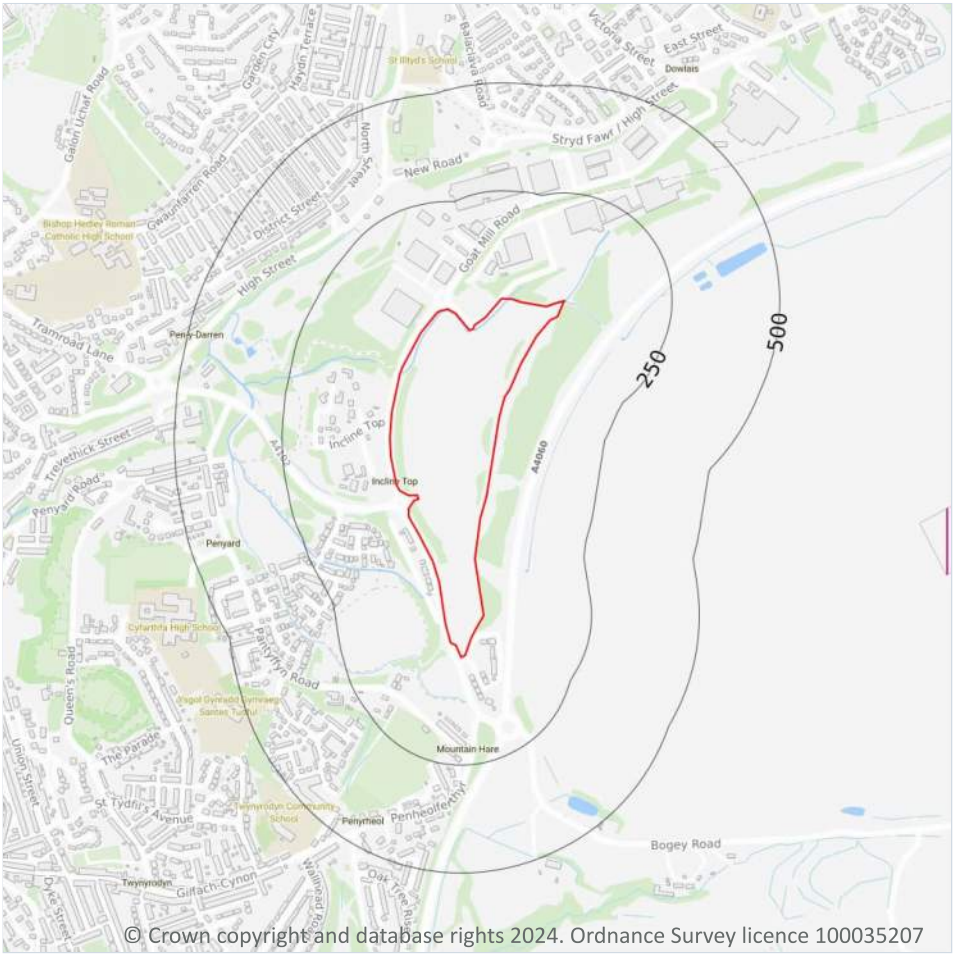
5.5 Groundwater vulnerability- local information

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



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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
- Drinking water abstraction licences — Polygon 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	2

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 121 >**

ID	Location	Details	
1	967m E	Status: Active Licence No: WA/057/0022/0004 Details: Transfer between Sources (Pre Water Act 2003) - Very Low Direct Source: Ffos-y-fran Point: - Data Type: Poly4 Name: - Easting: 307340 Northing: 206568	Annual Volume (m^3): 3022200 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/06/2022 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1974m SW	Status: Historical Licence No: 21/57/22/0035 Details: General Washing/Process Washing Direct Source: EAW Groundwater Point: BOREHOLE AT TBS (SOUTH WALES) LTD Data Type: Point Name: TBS (South Wales) Ltd Easting: 305190 Northing: 204690	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 08/06/1994 Expiry Date: - Issue No: 100 Version Start Date: 14/10/1999 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**10**

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 121 >**

ID	Location	Details	
-	1396m E	Status: Historical Licence No: 21/57/22/0026 Details: General Washing/Process Washing Direct Source: EAW Surface Water Point: MORRIS POND Data Type: Point Name: Miller Argent (South Wales) Ltd Easting: 307830 Northing: 206970	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 12/08/1977 Expiry Date: - Issue No: 103 Version Start Date: 14/12/2003 Version End Date: -

ID	Location	Details	
-	1434m E	Status: Historical Licence No: 21/57/22/0009 Details: Transfer between Sources (Pre Water Act 2003) - Very Low Direct Source: Four Reservoirs Merthyr Tydfil Point: - Data Type: Point Name: - Easting: 307690 Northing: 206300	Annual Volume (m^3): 90920 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/09/2018 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1434m E	Status: Active Licence No: 21/57/22/0009 Details: Transfer between Sources (Pre Water Act 2003) - Very Low Direct Source: Four Reservoirs Merthyr Tydfil Point: - Data Type: Point Name: - Easting: 307690 Northing: 206300	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 272.76 Original Application No: - Original Start Date: 20/09/2018 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1444m E	Status: Historical Licence No: 21/57/22/0009 Details: Transfer Between Sources (Pre Water Act 2003) Direct Source: EAW Surface Water Point: RESERVOIR A Data Type: Point Name: Miller Argent (South Wales) Ltd Easting: 307700 Northing: 206300	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 272.76 Original Application No: - Original Start Date: 11/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 14/12/2003 Version End Date: -
-	1446m SE	Status: Historical Licence No: 21/57/22/0009 Details: Transfer between Sources (Pre Water Act 2003) - Very Low Direct Source: Four Reservoirs Merthyr Tydfil Point: - Data Type: Point Name: - Easting: 307590 Northing: 205890	Annual Volume (m^3): 90920 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/09/2018 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
-	1446m SE	Status: Active Licence No: 21/57/22/0009 Details: Transfer between Sources (Pre Water Act 2003) - Very Low Direct Source: Four Reservoirs Merthyr Tydfil Point: - Data Type: Point Name: - Easting: 307590 Northing: 205890	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 272.76 Original Application No: - Original Start Date: 20/09/2018 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1451m SE	Status: Historical Licence No: 21/57/22/0009 Details: Transfer Between Sources (Pre Water Act 2003) Direct Source: EAW Surface Water Point: RESERVOIR C Data Type: Point Name: Miller Argent (South Wales) Ltd Easting: 307600 Northing: 205900	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 272.76 Original Application No: - Original Start Date: 11/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 14/12/2003 Version End Date: -
-	1914m SE	Status: Historical Licence No: 21/57/22/0009 Details: Mineral Washing - Low Direct Source: Four Reservoirs Merthyr Tydfil Point: - Data Type: Point Name: - Easting: 308090 Northing: 205890	Annual Volume (m^3): 90920 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/09/2018 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1914m SE	Status: Active Licence No: 21/57/22/0009 Details: Mineral Washing - Low Direct Source: Four Reservoirs Merthyr Tydfil Point: - Data Type: Point Name: - Easting: 308090 Northing: 205890	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 272.76 Original Application No: - Original Start Date: 20/09/2018 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1921m SE	Status: Historical Licence No: 21/57/22/0009 Details: Mineral Washing Direct Source: EAW Surface Water Point: RESERVOIR D Data Type: Point Name: Miller Argent (South Wales) Ltd Easting: 308100 Northing: 205900	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 272.76 Original Application No: - Original Start Date: 11/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 14/12/2003 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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.

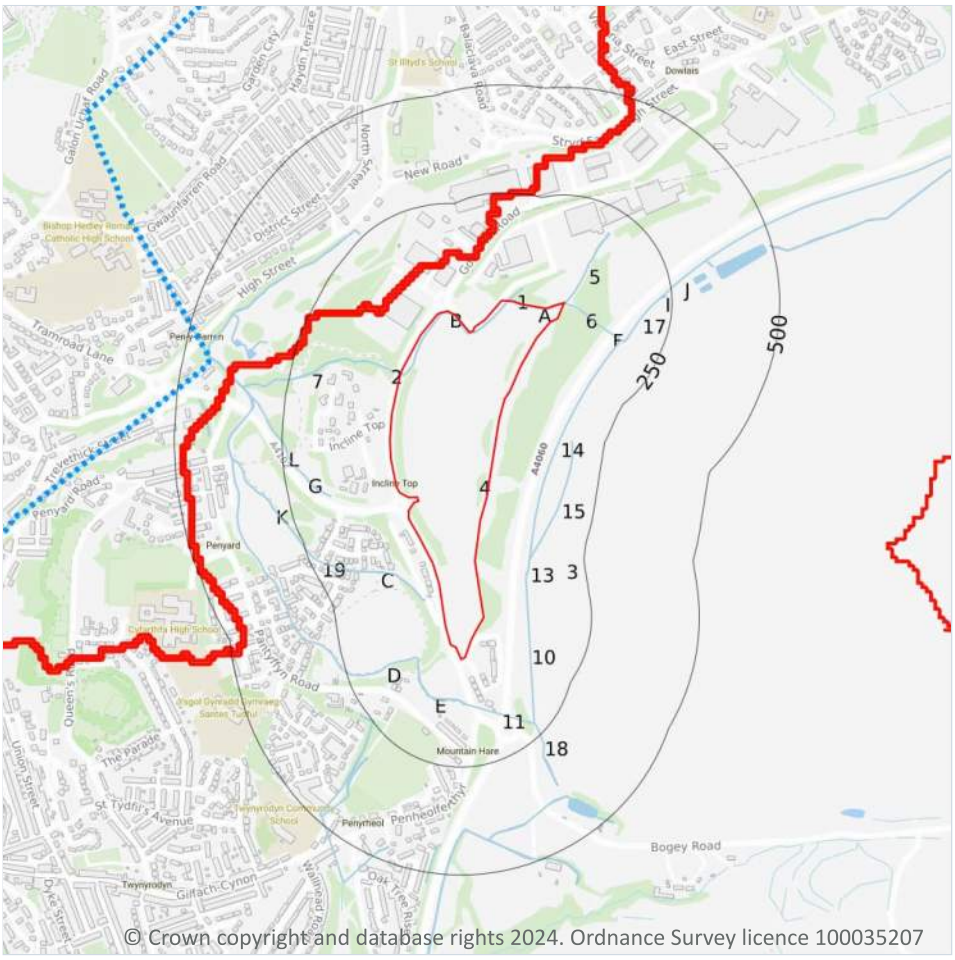
5.10 Source Protection Zones (confined aquifer)

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	26

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 126 >**

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)**	**-**
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)**	**-**
5	2m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	2m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	37m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	61m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	84m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	94m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	99m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	103m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
11	105m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	114m SE	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
14	120m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	125m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	152m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	155m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	158m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	222m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	224m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	224m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	225m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	233m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	240m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	241m 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	12

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 126 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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 126 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
3	**On site**	**River WB catchment**	**Taff - conf Taf Fechan to conf R Cynon**	**GB109057033100**	**Taff u s Cynon**	**South East Valleys**

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

6.4 WFD Surface water bodies

Records identified	1

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 126 >**