Appendix D

Phase 3 Coal Mining Risk Assessment

Coal Authority – Interactive Map

Mining Remediation Authority Map

1. INTRODUCTION.

It is proposed to submit for and seek a planning application to develop an area of land adjacent to 1 Henfaes Road Tonna Neath Port Talbot. SA11 3DX.

A part of this application requires a Coal Mining Risk Assessment [**CMRA]** to be conducted for submission to Neath Port Talbot Council **[NPTC]**.

Geo-Testing Services **[GTS]** have been instructed to produce a CMRA for the site along with proposals for any possible further investigations into coal/coal related legacies which may [or may not] be required. This latter purpose being to provide an agreed and acceptable programme of site investigations which has the support of the Coal Authority **[CA]** and when concluded will lead to the removal of any related planning condition.

The site is in an area defined as High Risk by the Coal Authority **[HRA]** However, the key issues with coal/coal legacies are likely to be associated with near surface features as most on the commercial mining was conducted at depth.

The site is small, and it can it appears be only developed for normal residential accommodation comprising individual units of two stories in height.

There are likely to be few issues generated in relation to a requirement for heavy foundation loadings from any of the buildings contemplated.

2.0 OBJECTIVES OF THIS REPORT.

The objectives of this work are as follows:

A] To produce a Coal Mining Risk Assessment of the site.

B] To obtain from A above some conclusions as to the likelihood of there being a coal/coal legacy issue on the land.

C] To reach by way A and B a conclusion as to what is required by way of further work in such a form as will allow the Coal Authority to conclude that the site presents no issues in relation to coal/coal legacies as defined under its Statutory Obligations. The form and quantum of this would need to be acceptable to them and provide a way of dealing with any issues this CMRA may see as arising from it.

The above will be derived from the following:

A Groundsure GeoINSIGHT report based on the site under consideration with appropriate buffers. [As attached accompanying report document]

A CON 29 report from the CA of the site area.

References to related published works dealing with the history of coal/coal legacies in the area.

GTS archives over a period of 50 years. Previous work in the area.

Also Ref to Mining Remediation and Coal Authority Interactive mapping - attached)

In addition to C above [and other related investigative work on the site] it should lead to some preliminary conclusions as to how the proposed development may be undertaken in relation to normal geological issues whilst dealing with the coal issues, if any.

3.0 DESCRIPTION OF SITE.

The site comprises a small rectangular area of land adjacent to number 1 Henfaes Road, Tonna, Neath Port Talbot South Wales at a general post code of SW11 3DX. The site lies on an approximate Northeast to Southwest axis adjacent to the River Neath.

The site has also been the subject of a Phase 1 Contaminated Land Desktop Study [**DS]** which incorporates an initial Walk Over Study [**WOS]**.

The site is in a residential area adjacent to Henfaes Road, Tonna.
The surrounding residential properties comprise houses which have been in existence for some time with some more modern dwellings.

External inspections of those adjacent to this site show no apparent detrimental effects from any form of settlement related to coal mining legacies. A detailed structural survey of the existing "Georgian Country House" indicates that it is beyond repair and suitable for demolition.

The Walk Over Study associated with nearby properties also took note of and considered this building. Whilst it is, given its present condition difficult to make a judgements on which [if any] of its structural defects relate to coal/coal legacy issues.
However, it is considered that given its age and condition none of these deficiencies relate to or would have been caused by coal/coal legacies. All the documentary evidence inspected concludes that any "surface movement from deep mining would have ceased."

4.0 GENERAL GEOLOGY & GEOTECHNICAL ISSUES.

MAIN GEOLOGY.

The geology is not dealt with in depth here other than in relation to coal/coal legacies.

All the reports examined for this site conclude that the likely bedrock/geological succession will be that it is underlain by rocks of the BRITHIDER MEMBER. These comprising siltstone/sandstone sedimentary rocks of the PRE CAMBRIAN-PERIOD and laid down some 300 million years ago.

These rocks comprise sandstones, mudstones and siltstones and extend extensively across the South Wales Coalfield.

Workable coal would be found at depth across the area in relation its commercial extraction. The depths at which this took place are too great to have any impact on the site.

SUPERFICIAL DEPOSITS.

These are shown as being under/on this site. They are being Glacial Sheet Materials comprising sands and gravels laid down some 10/12 million years ago in the QUANTERNEY PERIOD. It is likely that there will also be such deposits on or adjacent to the site laid down by the action of the nearby river systems. associated with the historic course of the River Neath. These are likely to be of the order of 200m thick in the area.

In terms of Bedrock Faults and other non-coal geological features are dealt with in the Desk Top Study. The GeoInsight Report indicates that there are on the site Inferred coal seams and some general faulting.

5.0 COAL RELATED ISSUES/COAL MINING RISKS.

The CON 29 Report and the Geo Insight report raise the following issues in relation. to coal and coal legacies.

CON 29 REPORT.:

1. Past Underground coal mining. **IDENTIFIED.**

2. Present Underground Coal Mining. **THE SITE IS NOT IN AN IDENTIFIED SURFACE AREA WHICH COULD BE AFFECTED BY THIS ACTIVITY.**

3. Future Underground Coal Mining. **NOT IN AN AREA LIKELY TO BE AFFECTED BY FUTURE ACTIVITY BUT WHERE COAL RESERVES ARE LIKELY TO BE AT DEPTH.**

4. Mine Entries. **NONE RECORDED WITHIN THE DESIGNATED BUFFERS.**

5. Coal Mining Geology. **THE CA RECORD THIS NOT TO BE AN ISSUE.**

6. Past Open Cast Coal Mining. **THE SITE IS NOT WITHIN SUCH AND AREA UNDER CONSIDERATION.**

7. Present Open Cast Coal Mining. **THE SITE IS NOT WITHIN THE 200 m. BOUNDARY FOR SUCH OPERATIONS OR HAVE ANY APPLICATIONS BEEN RECEIVED BY THEM FOR SUCH ACTIVITIES.**

8. Future Open Cast Mining. **NO PERMISSION EXISTS FOR THIS.**

9. Coal Mining Subsidence. **NO CLAIMS OR NOTICES RELATING TO THIS HAVE BEEN RECEIVED BY THE CA SINCE 1994 IN THIS RESPECT.**

10. Mine Gas. **THE CA ARE NOT AWARE OF ANY NOTIFICATION/RECORDS OF MINE GAS EMISSONS WHICH MIGHT REQUIRE ACTION BY THEM.**

11 to 14. Other Issues. **THESE HAVE NO ADVERSE IMPACT ON THE SITE.**

Coal Mining Subsidence & Hazzard's.

Possible High Level Crop Workings. **IDENTIFIED.**

The various documents examined during this work suggest that there may be a zone of "high level unrecorded coal" relating to a geological feature/outcrop running across the "southern section" of the site.

IT IS CONSIDERED THAT GIVEN THE THICKNESS OF THE LIKLEY SUPERFICAL DEPOSITS THAT MAY LIE UNDER THE SITE THEY WOULD NOT EXIST AT A NEAR SURFACE DEPTH FOR IT TO BE POSSIBLE TO BE THE SUBJECT OF LOCALISED

EXTRACTION. THESE DEPOSITS ARE INDICATED IN BGS BOREHOLES ALONG THE EAST WEST AXIS OF THE SITE.

THEY HOWEVER RELATE ALMOST EXCLUSIVELY TO WORK CARRIED OUT TO THE NORTH OF THE RIVER NEATH. THERE ARE NONE SHOWN WITHIN THE SITE OR ITS ENVIRONS.

SOME OF THESE BOREHOLES INDICATE SOME CONSIDERABLE THICKNESS OF SUPERFICIAL DEPSOITS [SEE ATTACHED] AND IF REPRODUCED ON THIS SITE WOULD HAVE NOT FACILITATED OR RESULTED IN ANY CROP EXTRACTION RECORDED OR OTHERWISE.

GROUNDSURE GEOINSIGHT REPORT.

The GroundSure report in general terms follows conclusions of the CON 29 M.

They are dealt with under item 6.0 B. GroundSure Report.

6.0 CMRA & GROUNDSURE EVALUATION.

The various issues raised by the Groundsure GeoINSIGHT, the CON 29 and our own work suggest that these can be dealt with as follows.

A. CON 29 M. EVALUATION.

1. ISSUE 1 Past Underground Coal Mining.

Any issues relating to possible recorded/unrecorded seams depth can be dealt with by the drilling of proving holes along the axis of any such features. The site is likely to be underlain by superficial deposits of varying depths and of variable thickness and comprising sand gravels and clays. If these deposits exist it would not have been possible to work along crop/fault lines in the 16th to 18th Centuries.

A normal Phase 2 intrusive investigation such as will be required here will establish if the superficial deposits are of such a thickness as to make localised crop working possible.

Should it be deemed by the CA that this be proven then normal proving holes will be required. These holes should prove a thickness of 10m of superficial material and a further 10m of a solid rock formation once found. They should be constructed using air/mist rotary open hole drilling.

The possibilities for a resolution of this issue are dealt with under item 5 page 9.

2. **ISSUE 2 Present Underground Coal Mining.**

Any work conducted in respect to 1 above will also deal with this issue.

3. **ISSUE 4 Future Underground Coal Mining**.

Whilst this is not considered to be an issue the work carried out in 1 above will establish [or otherwise] that commercial the coal extraction of coal is not possible or likely.

4. **ISSUES 5 -14 & OTHER ISSUES.**

The findings of the Con 29 M report do not indicate that any of these items will require further investigation or attention.

5. **ISSUE RELATING TO POSSIBLE OUTCROP/GEOLOGICAL FEATURES.**

The issue relating to conjectured/ crop deposits and any potential working of it can be dealt with by inspections conducted the during the groundworks/excavations for the foundations [and any other trenches that may be undertaken]. Confirmation of the resolution of this issue can be dealt with by way of inspections of those trenches and a Verification Report provided. Any obvious issues if they arise at that stage can be dealt with by further investigations at the time.

B. GROUNDSURE INFORMATION EVALUATION.

(Refer to Appendix D of IMA covering report document 18-11-2025)

In general terms the GroundSure data follows that of the Con 29 M. It is set out as follows.

1. There are numerous coal related entries in the Groundsure documents. These relate to "heaps, collieries, pits, and other features. There are none which are within a distance from the site to cause any concern to the proposed development.
2. There are no surface ground workings identified within the site area.
3. There are no underground workings or mining extents that will have any influence on the development of the site.
4. There are no BritPits within the site area.
5. All deep mining in the buffer zone of the site is classified as being "ceased."
6. There are no surface ground workings within the site area. Those within the buffer zone relate to the canal.

7. There are 113 records of "underground coal/coal related legacies" all of which are classed as ceased and will have no impact on the development of the site.
8. There are no items shown as being within the site from 18.4 to 18.11.
9. Item 18.12 shows one entry for the site area. This is dealt with in the CON29M report.
10. There is no indication of any artificial and made ground on the development site under item 14.2.
11. There is in the area of the development thought to be extensive superficial deposits of sands, gravels and clays related to the historic course of the river.
12. There is one recorded landslip some 403m from the site of an unknown nature.
13. There is some evidence in the LPA's response to the pre-app in relation to a possible fault/geological feature across the site. This is dealt with later in this. report.

7.0 GENERAL CONCLUSIONS/RECOMMENDATIONS

Based upon the information provided and our assessment it is possible to conclude the following.

1. **This CMRA indicates that the site has few serious issues related to coal or cola legacies. It is, whilst in an area of considerable historic coal extraction unlikely to have issues related to the deep mining of coal in the past. The main seams in the area are located many meters below ground level and are such that the CA considers all surface movement relating to them has dissipated and not of concern.**

2. **The subsidiary issues raised by both the CON 9 M and the GroundSure data are also of low or very low significance. Whilst there are many known and defined entries in the general area most of these are confined to the north of the site and are away from the site boundaries.**
3. **There are no issues in relation to open cast mining in the historic sense or of a current or future possibility.**

The CA will require assurances in relation to some of the issues identified above. However, these relate to localised high-level coal/possible coal legacies.

The following sets out recommendations for such investigations as will be needed to allow the CA to conclude that the issues have been dealt with.

A. **Deep Mining:**

   It is not considered that historic deep mining at some considerable depth has had or will have any impact on the modest development contemplated on the site.

   NO INVESTIGATION IS NEEDED IN THIS RESPECT.

B. **Mine Entries.**

   The work to date concludes that there are no mine entries set out in any of the reports which if found to be in their designated locations will have any. impact on the proposed development.

THERE ARE NONE SHOWN AS BEING CLOSE TO THE SITE OR REQUIRE FURTHER INVESTIGATION.

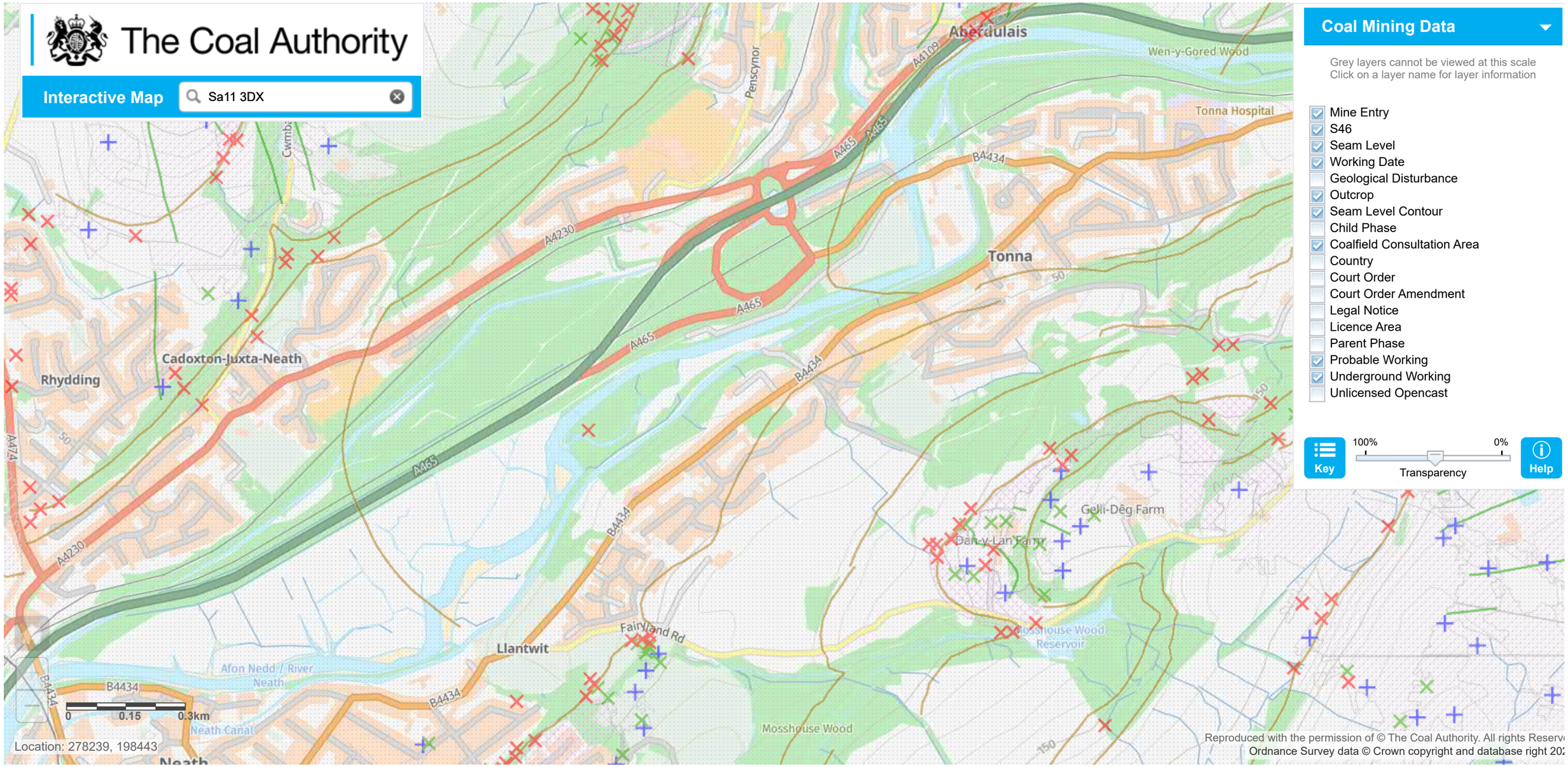
C. Coal Authority High Risk Area. CAHRA.

The site is in part within the CAHRA. However, given the small size of the site and the available documentation from the CA it is recommended that the entire site be treated as being within the CAHRA boundaries and that any ongoing investigative work should make allowance for this.

IT IS RECOMMENDED THAT THE SITE BE INVESTIGATED BY WAY OF A NORMAL PHASE 2 INTRUSIVE SURVEY COVERING THE ENTIRE SITE. THIS COULD [SUBJECT TO A CA PERMIT IF NEEDED] BE CARRIED OUT BY A SMALL TRENCHING EXERCISE AS A PRT OF THE PHASE 2 WORK.

NOTE – THE SITE INVESTIGATION WORKS WERE UNDERTAKEN SUBSEQUENT TO THIS REPORT AND INCLUDED WITH COMPILATION REPORT DOCUMENT ATTACHED TO SUBMISSION OF INFORMATION FOR PLANNING

(See information contained in Appendix C for intrusive survey works as part of SI)


The Coal Authority
Interactive Map
Sa11 3DX
Coal Mining Data
Grey layers cannot be viewed at this scale
Click on a layer name for layer information
Mine Entry
S46
Seam Level
Working Date
Geological Disturbance
Outcrop
Seam Level Contour
Child Phase
Coalfield Consultation Area
Country
Court Order
Court Order Amendment
Legal Notice
Licence Area
Parent Phase
Probable Working
Underground Working
Unlicensed Opencast
Key
100%
0%
Transparency
Help
Aberdulais
Wen-y-Gored Wood
Tonna Hospital
Tonna
Penscynor
Cadoxton-Juxta-Neath
Rhydding
Llantwit
Afon Nedd / River Neath
Neath Canal
Neath
Fairland Rd
Mosshouse Wood
Mosshouse Wood Reservoir
Gelli-Dêg Farm
Dan-y-Lan Farm
A465
A4230
A4109
B4434
A474
0
0.15
0.3km
Location: 278239, 198443
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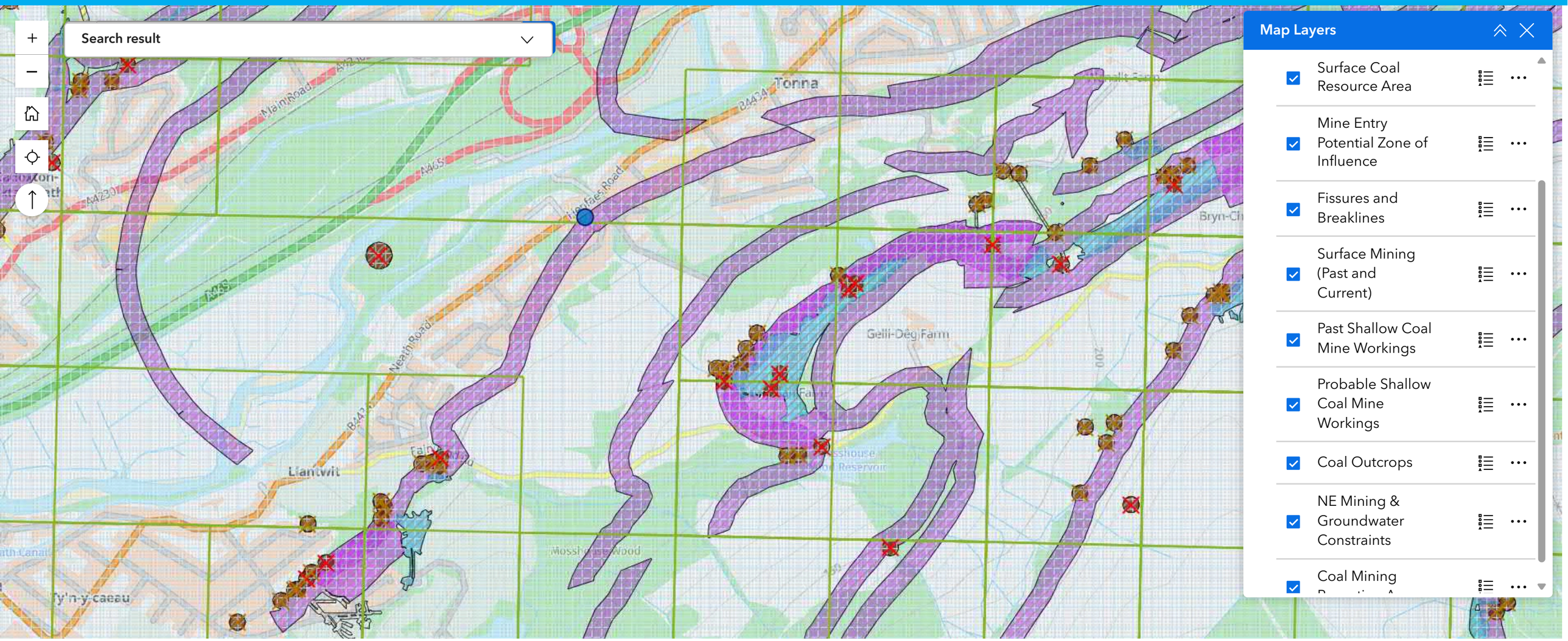
Ordnance Survey data © Crown copyright and database right 202



200 m

278,447 198,907 Meters

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Appendix E

Ground Sure Report Document Neath - Reference Document

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

11, HENFAES ROAD, TONNA, NEATH PORT TALBOT, SA11 3DX

Order Details

Date: 19/09/2024

Your ref: IMA-24-077 - SI GS purchase

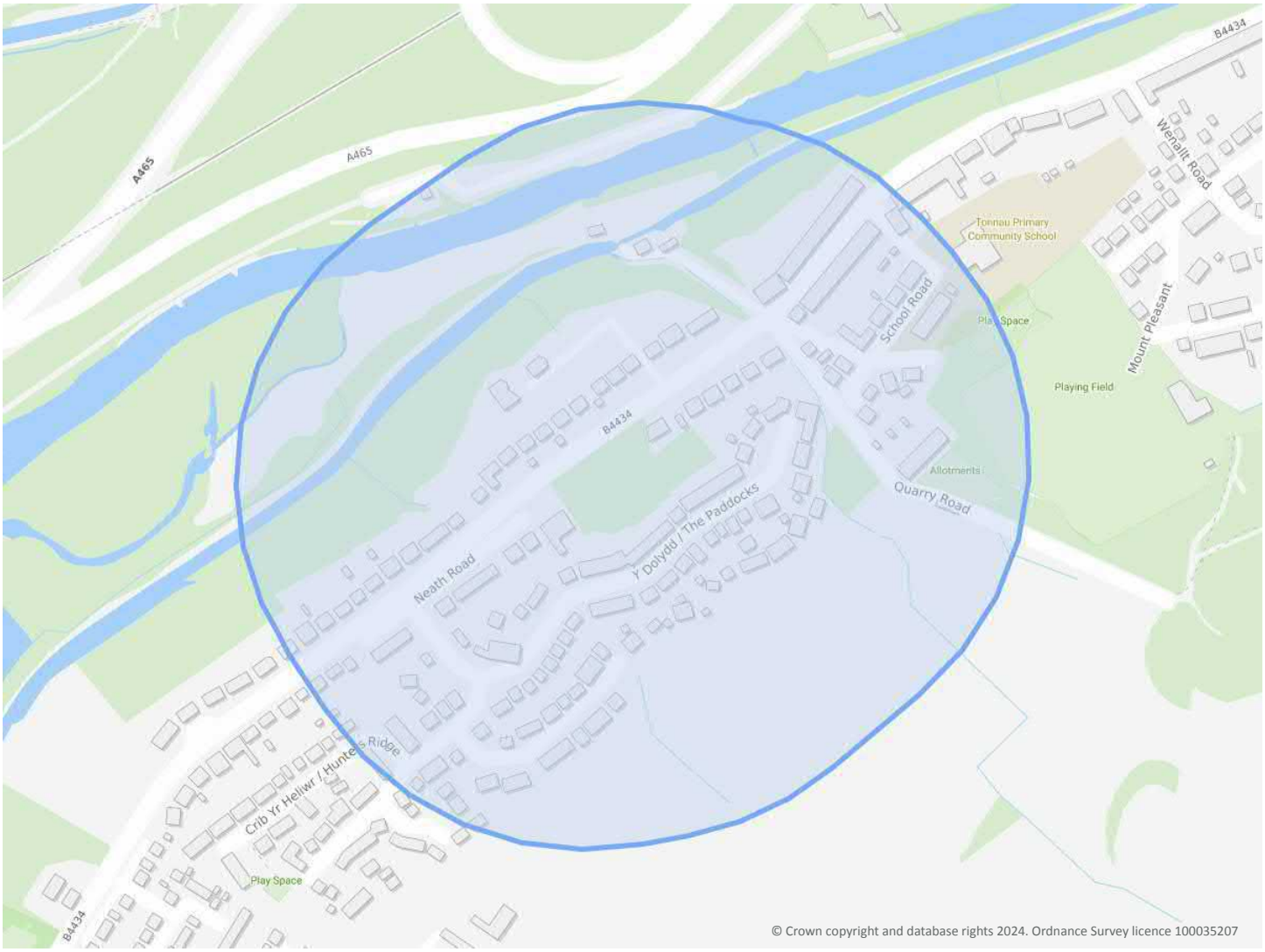
Our Ref: GS-HG9-DWT-3MF-SSC

Site Details

Location: 276938 198604

Area: 27.23 ha

Authority: Castell-nedd Port Talbot - Neath Port Talbot County Borough ↗



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Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan N/A: >10ha

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	8	2	43	135	-
21 >	1.2 >	Historical tanks >	3	0	0	10	-
22 >	1.3 >	Historical energy features >	0	0	0	9	-
23	1.4	Historical petrol stations	0	0	0	0	-
23 >	1.5 >	Historical garages >	0	0	2	1	-
24	1.6	Historical military land	0	0	0	0	-
Page	**Section**	**Past land use - un-grouped >**	**On site**	**0-50m**	**50-250m**	**250-500m**	**500-2000m**
25 >	2.1 >	Historical industrial land uses >	11	2	54	177	-
34 >	2.2 >	Historical tanks >	5	0	0	15	-
35 >	2.3 >	Historical energy features >	0	0	0	19	-
36	2.4	Historical petrol stations	0	0	0	0	-
36 >	2.5 >	Historical garages >	0	0	5	1	-
Page	**Section**	**Waste and landfill >**	**On site**	**0-50m**	**50-250m**	**250-500m**	**500-2000m**
38	3.1	Active or recent landfill	0	0	0	0	-
38	3.2	Historical landfill (BGS records)	0	0	0	0	-
39 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	4	0	-
39 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
40	3.5	Historical waste sites	0	0	0	0	-
40 >	3.6 >	Licensed waste sites >	0	0	0	6	-
41 >	3.7 >	Waste exemptions >	0	0	0	22	-
Page	**Section**	**Current industrial land use >**	**On site**	**0-50m**	**50-250m**	**250-500m**	**500-2000m**
44 >	4.1 >	Recent industrial land uses >	2	0	1	-	-
45	4.2	Current or recent petrol stations	0	0	0	0	-
45	4.3	Electricity cables	0	0	0	0	-
45	4.4	Gas pipelines	0	0	0	0	-
45	4.5	Sites determined as Contaminated Land	0	0	0	0	-

45 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	0	2	-
46	4.7	Regulated explosive sites	0	0	0	0	-
46 >	4.8 >	Hazardous substance storage/usage >	0	0	0	1	-
46	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
47	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
47 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	1	-
47	4.12	Radioactive Substance Authorisations	0	0	0	0	-
47 >	4.13 >	Licensed Discharges to controlled waters >	7	1	10	13	-
52	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
52	4.15	Pollutant release to public sewer	0	0	0	0	-
52	4.16	List 1 Dangerous Substances	0	0	0	0	-
52	4.17	List 2 Dangerous Substances	0	0	0	0	-
52 >	4.18 >	Pollution Incidents (EA/NRW) >	5	0	0	6	-
54	4.19	Pollution inventory substances	0	0	0	0	-
54	4.20	Pollution inventory waste transfers	0	0	0	0	-
54	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
55 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
57 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
58 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
60	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
60	5.5	Groundwater vulnerability- local information	None (within 0m)				
61 >	5.6 >	Groundwater abstractions >	0	0	0	0	5
63 >	5.7 >	Surface water abstractions >	3	0	0	2	12
66	5.8	Potable abstractions	0	0	0	0	0
67	5.9	Source Protection Zones	0	0	0	0	-
67	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	6.1 >	Water Network (OS MasterMap) >	48	10	32	-	-

76 >	6.2 >	Surface water features >	1	1	9	-	-
76 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
76 >	6.4 >	WFD Surface water bodies >	2	0	0	-	-
77 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
79 >	7.2 >	Historical Flood Events >	1	0	2	-	-
79	7.3	Flood Defences	0	0	0	-	-
80 >	7.4 >	Areas Benefiting from Flood Defences >	0	0	1	-	-
80	7.5	Flood Storage Areas	0	0	0	-	-
81 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
82 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
83 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
85 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
86	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
87	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
87	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
87	10.4	Special Protection Areas (SPA)	0	0	0	0	0
87	10.5	National Nature Reserves (NNR)	0	0	0	0	0
88	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
88 >	10.7 >	Designated Ancient Woodland >	3	0	3	9	118
93	10.8	Biosphere Reserves	0	0	0	0	0
93	10.9	Forest Parks	0	0	0	0	0
93	10.10	Marine Conservation Zones	0	0	0	0	0
94	10.11	Green Belt	0	0	0	0	0
94	10.12	Proposed Ramsar sites	0	0	0	0	0

94	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
94	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
94	10.15	Nitrate Sensitive Areas	0	0	0	0	0
95	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
96	10.17	SSSI Impact Risk Zones	0	-	-	-	-
96	10.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
97	11.1	World Heritage Sites	0	0	0	-	-
98	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
98	11.3	National Parks	0	0	0	-	-
98 >	**11.4 >**	**Listed Buildings >**	7	0	0	-	-
99 >	**11.5 >**	**Conservation Areas >**	1	0	0	-	-
99	11.6	Scheduled Ancient Monuments	0	0	0	-	-
100	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
101 >	**12.1 >**	**Agricultural Land Classification >**	Grade 3b (within 250m)				
103	12.2	Open Access Land	0	0	0	-	-
103	12.3	Tree Felling Licences	0	0	0	-	-
103	12.4	Environmental Stewardship Schemes	0	0	0	-	-
104	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
105	13.1	Priority Habitat Inventory	0	0	0	-	-
105	13.2	Habitat Networks	0	0	0	-	-
105	13.3	Open Mosaic Habitat	0	0	0	-	-
105	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	**Geology 1:10,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
106 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
107 >	**14.2 >**	**Artificial and made ground (10k) >**	1	0	3	4	-
109 >	**14.3 >**	**Superficial geology (10k) >**	5	0	1	1	-

110 >	14.4 >	Landslip (10k) >	0	0	0	1	-
111 >	14.5 >	Bedrock geology (10k) >	5	1	6	11	-
112 >	14.6 >	Bedrock faults and other linear features (10k) >	2	0	4	6	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	15.1 >	50k Availability >	Identified (within 500m)				
115 >	15.2 >	Artificial and made ground (50k) >	1	0	2	3	-
116 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
117 >	15.4 >	Superficial geology (50k) >	3	0	1	1	-
118 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
118 >	15.6 >	Landslip (50k) >	0	0	0	1	-
118	15.7	Landslip permeability (50k)	None (within 50m)				
119 >	15.8 >	Bedrock geology (50k) >	5	1	5	10	-
121 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
121 >	15.10 >	Bedrock faults and other linear features (50k) >	2	1	4	7	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
123 >	16.1 >	BGS Boreholes >	1	2	43	-	-
Page	Section	Natural ground subsidence >					
126 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
127 >	17.2 >	Running sands >	Low (within 50m)				
129 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
131 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
132 >	17.5 >	Landslides >	Moderate (within 50m)				
134 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
136 >	18.1 >	BritPits >	0	0	1	7	-
138 >	18.2 >	Surface ground workings >	18	5	49	-	-
141 >	18.3 >	Underground workings >	0	0	0	13	100
145	18.4	Underground mining extents	0	0	0	0	-
146	18.5	Historical Mineral Planning Areas	0	0	0	0	-

146	18.6	Non-coal mining	0	0	0	0	0
146	18.7	JPB mining areas	None (within 0m)				
146	18.8	The Coal Authority non-coal mining	0	0	0	0	-
147	18.9	Researched mining	0	0	0	0	-
147	18.10	Mining record office plans	0	0	0	0	-
147	18.11	BGS mine plans	0	0	0	0	-
147 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
148	18.13	Brine areas	None (within 0m)				
148	18.14	Gypsum areas	None (within 0m)				
148	18.15	Tin mining	None (within 0m)				
148	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
149	19.1	Natural cavities	0	0	0	0	-
149	19.2	Mining cavities	0	0	0	0	0
149	19.3	Reported recent incidents	0	0	0	0	-
149	19.4	Historical incidents	0	0	0	0	-
150	19.5	National karst database	0	0	0	0	-
Page	Section	**Radon >**					
151 >	**20.1 >**	**Radon >**	Between 5% and 10% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
153 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	29	3	-	-	-
155 >	**21.2 >**	**BGS Estimated Urban Soil Chemistry >**	0	3	-	-	-
155	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	**Railway infrastructure and projects >**	On site	0-50m	50-250m	250-500m	500-2000m
156	22.1	Underground railways (London)	0	0	0	-	-
156	22.2	Underground railways (Non-London)	0	0	0	-	-
157 >	**22.3 >**	**Railway tunnels >**	0	0	1	-	-
157 >	**22.4 >**	**Historical railway and tunnel features >**	3	0	5	-	-
158	22.5	Royal Mail tunnels	0	0	0	-	-

158	22.6	Historical railways	0	0	0	-	-
158 >	**22.7 >**	**Railways >**	0	0	6	-	-
159	22.8	Crossrail 1	0	0	0	0	-
159	22.9	Crossrail 2	0	0	0	0	-
159	22.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 14/04/2020

Site Area: 27.23ha

Recent site history - 2017 aerial photograph

Capture Date: 17/06/2017

Site Area: 27.23ha

Recent site history - 2014 aerial photograph

Capture Date: 23/07/2014

Site Area: 27.23ha

Recent site history - 2009 aerial photograph

Capture Date: 12/10/2009

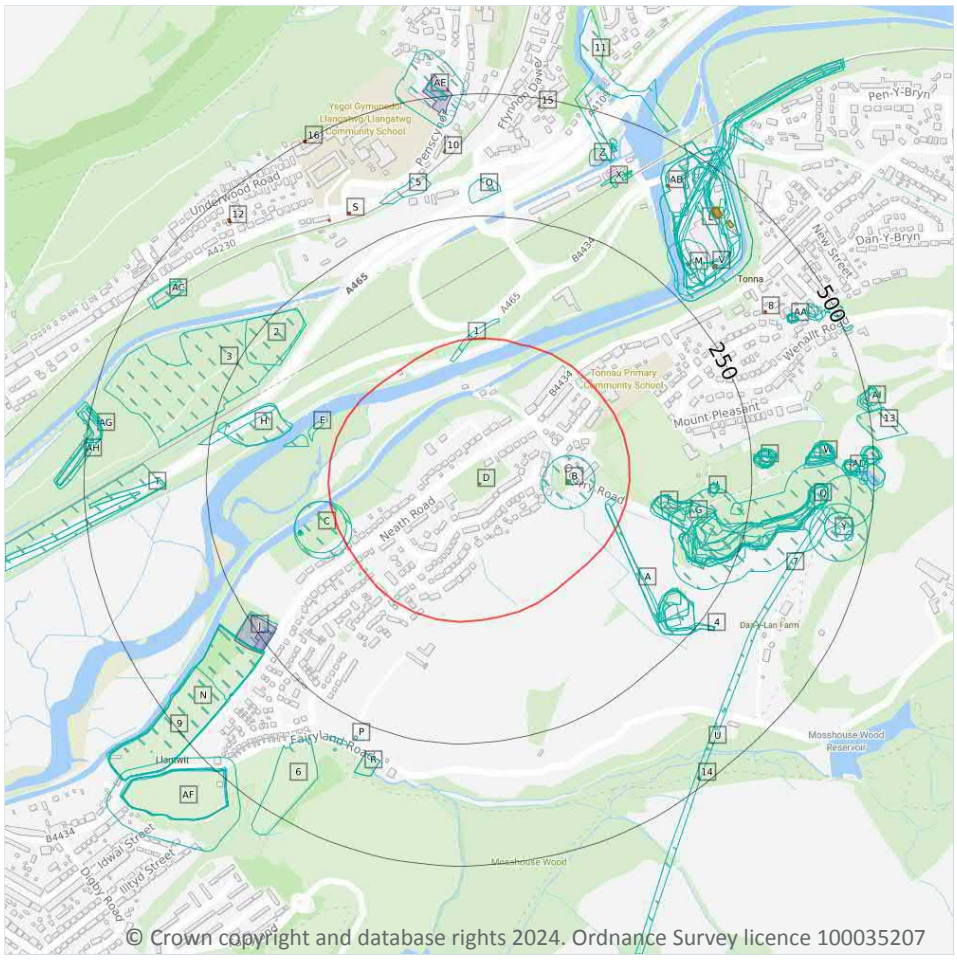
Site Area: 27.23ha

Recent site history - 2000 aerial photograph

Capture Date: 18/06/2000

Site Area: 27.23ha

1 Past land use



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Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m	188

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 Ground Workings**	**1914**	**345504**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Tramway Sidings**	**1938**	**351670**
A	**On site**	**Tramway Sidings**	**1936**	**371496**
B	**On site**	**Unspecified Tanks**	**1962**	**352841**
B	**On site**	**Unspecified Tanks**	**1936**	**354567**
B	**On site**	**Unspecified Tanks**	**1938 - 1951**	**384763**
C	**On site**	**Old Lime Kiln**	**1921**	**379566**
C	**On site**	**Old Lime Kiln**	**1914**	**391309**
E	33m W	Refuse Heap	1948	335453
E	50m W	Refuse Heap	1948	334977
F	51m E	Unspecified Heap	1914 - 1921	386316
G	53m E	Unspecified Disused Quarry	1951	377563
G	53m E	Unspecified Quarry	1897	380935
G	53m E	Unspecified Disused Quarry	1936	386304
F	55m E	Unspecified Heap	1962 - 1973	352629
F	58m E	Unspecified Heap	1982	372315
F	61m E	Unspecified Ground Workings	1938	376091
C	71m W	Unspecified Old Kiln	1962	331754
C	73m W	Old Lime Kiln	1936	355112
C	73m W	Old Lime Kiln	1951	368920
C	73m W	Unspecified Disused Kiln	1982 - 1991	371895
C	74m W	Old Lime Kiln	1938	371190
C	74m W	Old Lime Kiln	1938	388045
G	76m E	Unspecified Quarry	1877	356440
G	89m E	Railway Sidings	1914 - 1921	364944
H	93m W	Unspecified Ground Workings	1935	345414
H	95m W	Unspecified Quarry	1948	329696
G	99m E	Unspecified Disused Quarry	1962	380757
G	127m E	Unspecified Heap	1962	340486

ID	Location	Land use	Dates present	Group ID
G	133m E	Unspecified Disused Quarry	1973	389327
G	134m E	Unspecified Disused Quarry	1982 - 1991	360823
G	138m E	Unspecified Quarry	1914	380977
H	139m W	Railway Sidings	1948	334444
G	142m E	Refuse Heap	1982 - 1991	369254
G	148m E	Unspecified Heap	1921	340485
G	150m E	Unspecified Disused Quarries	1938	351818
A	156m SE	Unspecified Ground Workings	1991	346595
A	159m SE	Unspecified Heap	1936	355023
A	159m SE	Unspecified Heap	1951	355801
I	161m E	Unspecified Old Quarry	1914 - 1921	389822
A	161m SE	Unspecified Heap	1962	390857
I	164m E	Unspecified Quarry	1936	381470
I	164m E	Unspecified Quarry	1962	358902
I	165m E	Unspecified Quarry	1938	377436
I	165m E	Unspecified Quarry	1897	354383
G	170m E	Unspecified Quarry	1921	368922
A	172m SE	Unspecified Heap	1914	369383
2	174m NW	Refuse Heap	1973	381629
A	180m SE	Unspecified Pit	1877	344104
A	180m SE	Unspecified Heap	1921	370156
3	182m NW	Refuse Heap	1982	366472
J	207m SW	Garage	1991	341549
G	214m E	Unspecified Heap	1914 - 1921	385172
K	254m E	Unspecified Old Quarry	1921	352211
K	255m E	Unspecified Heap	1973	370831
K	255m E	Unspecified Ground Workings	1962	374751
K	255m E	Unspecified Heap	1982 - 1991	385763

ID	Location	Land use	Dates present	Group ID
K	255m E	Unspecified Old Quarry	1914	375126
K	255m E	Unspecified Ground Workings	1936 - 1938	386965
K	255m E	Unspecified Ground Workings	1951	387563
L	257m NE	Unspecified Works	1982 - 1991	351273
L	257m NE	Unspecified Works	1973	376576
M	259m NE	Unspecified Commercial/Industrial	1948	331710
K	260m E	Unspecified Heap	1935	363841
K	260m E	Unspecified Heap	1914	379354
N	262m SW	Cemetery	1938 - 1951	376277
K	263m E	Unspecified Heap	1948	380806
N	264m SW	Cemetery	1921 - 1936	352154
N	264m SW	Cemetery	1877	367870
N	265m SW	Cemetery	1962	377568
K	266m E	Unspecified Pit	1877	378487
K	267m E	Unspecified Pit	1897	350822
4	269m SE	Coal Level	1938	365781
O	276m N	Unspecified Pit	1982 - 1991	354418
L	276m NE	Tin Works	1877	342152
L	276m NE	Railway Sidings	1897	377812
L	276m NE	Tin Plate Works	1935	378519
L	276m NE	Tin Plate Works	1897 - 1914	386022
P	280m SW	Old Coal Pit	1914	338326
L	281m NE	Tin Plate Works	1921	387150
Q	283m E	Coal Level	1921	347852
L	293m NE	Railway Sidings	1877	371731
L	295m NE	Railway Sidings	1948	351803
P	299m SW	Old Coal Pit	1921	338325
L	300m NE	Railway Sidings	1962	351863

ID	Location	Land use	Dates present	Group ID
O	301m N	Unspecified Old Kiln	1921	331758
L	302m NE	Railway Sidings	1935	389259
L	304m NE	Railway Sidings	1914	377172
O	305m N	Unspecified Old Kiln	1897 - 1914	391041
R	305m S	Unspecified Pit	1973	369422
R	305m S	Unspecified Pit	1982 - 1991	370242
L	306m NE	Railway Sidings	1921	351990
5	308m N	Railway Sidings	1877	334443
P	322m SW	Old Coal Pit	1897	338324
6	328m SW	Cemetery	1982 - 1991	352909
T	333m W	Railway Sidings	1938	362253
T	333m W	Railway Sidings	1938	388055
T	336m W	Railway Sidings	1936	376046
U	342m SE	Supply Pipes	1938	362930
7	357m E	Air Valve	1938	372576
W	357m E	Unspecified Heap	1921	385722
X	358m NE	Railway Station	1897	349698
W	360m E	Unspecified Ground Workings	1938	369220
W	362m E	Unspecified Heap	1914	365950
W	362m E	Unspecified Heap	1962	357825
W	366m E	Unspecified Heap	1948	359141
W	366m E	Unspecified Heap	1914	358409
W	366m E	Unspecified Heap	1935	381204
Q	369m E	Old Coal Level	1914	329436
W	375m E	Unspecified Heap	1973	354964
W	378m E	Unspecified Heap	1991	384353
Y	379m E	Unspecified Old Level	1962	370664
9	383m SW	Cemetery	1897 - 1914	350597

ID	Location	Land use	Dates present	Group ID
X	385m NE	Railway Station	1948 - 1962	384497
Z	389m N	Unspecified Heap	1914 - 1921	369509
Y	393m E	Unspecified Disused Level	1991	361933
X	394m NE	Railway Station	1914	362998
X	394m NE	Railway Station	1935	374845
AA	402m NE	Unspecified Quarries	1921	389304
AA	403m NE	Unspecified Quarries	1962	378115
AA	405m NE	Unspecified Quarries	1948	358235
AA	406m NE	Unspecified Quarries	1914	366069
AA	407m NE	Unspecified Quarries	1935	357019
U	408m SE	Air Valve	1938	374302
Y	409m E	Unspecified Old Level	1951	356240
Y	409m E	Unspecified Old Level	1936	381094
11	409m NE	Railway Sidings	1877	334450
L	409m NE	Unspecified Heap	1877	340785
AC	420m NW	Cuttings	1877	374441
L	422m NE	Unspecified Heap	1914 - 1921	368310
L	422m NE	Unspecified Heap	1877	389720
L	422m NE	Unspecified Heap	1921	340784
L	424m NE	Unspecified Ground Workings	1897	346887
U	425m SE	Sluice Valves	1938	382589
AC	426m NW	Cuttings	1914	378388
Y	431m E	Unspecified Disused Level	1982	377477
Y	432m E	Unspecified Old Level	1938	367009
Z	432m N	Smithy	1877	353348
Z	432m N	Smithy	1921	366403
AD	435m E	Unspecified Heap	1921	388564
AD	438m E	Unspecified Heap	1914	373400

ID	Location	Land use	Dates present	Group ID
AE	439m N	Unspecified Works	1982 - 1991	366757
AD	439m E	Unspecified Heap	1938	372869
AD	440m E	Unspecified Heap	1962	366979
AD	441m E	Unspecified Heap	1897	365460
AD	441m E	Unspecified Heap	1951	372696
AD	441m E	Unspecified Heap	1936	389568
Z	441m N	Smithy	1897 - 1914	373701
AA	441m NE	Unspecified Quarries	1935 - 1948	379079
AA	445m NE	Unspecified Quarries	1914 - 1921	389537
U	447m SE	Sluice Valves	1938	370199
Y	452m E	Old Coal Pit	1914 - 1921	379232
AA	456m NE	Unspecified Quarry	1877	331232
L	460m NE	Unspecified Heap	1914	374568
AF	464m SW	Cemetery	1982 - 1991	350744
AG	469m W	Unspecified Ground Workings	1914	355845
AG	469m W	Unspecified Ground Workings	1935	358561
AD	471m E	Unspecified Heap	1921	387231
AH	471m W	Unspecified Heap	1877 - 1982	370028
13	473m E	Unspecified Works	1982 - 1991	384749
AD	473m E	Unspecified Heap	1973	363488
AG	473m W	Unspecified Ground Workings	1897	380591
AD	474m E	Unspecified Heap	1897	364739
AD	476m E	Unspecified Old Quarry	1914 - 1921	353226
AD	477m E	Unspecified Heap	1921	354262
AD	479m E	Unspecified Heap	1948	369993
AI	479m E	Unspecified Heap	1921	355354
14	480m SE	Air Valve	1938	376496
AD	480m E	Unspecified Heap	1914	354230

ID	Location	Land use	Dates present	Group ID
AD	480m E	Unspecified Heap	1935	369183
AA	481m NE	Unspecified Quarries	1962	368722
AD	482m E	Unspecified Quarry	1897	329689
AF	482m SW	Cemetery	1938	378990
AF	483m SW	Cemetery	1962	368480
AH	486m W	Unspecified Heap	1914	371835
AF	486m SW	Cemetery	1951	369600
AF	486m SW	Cemetery	1936	372372
AF	486m SW	Cemetery	1897	387615
AI	487m E	Unspecified Heap	1914	352821
AI	487m E	Unspecified Heap	1935 - 1948	387191
AA	487m NE	Unspecified Quarries	1914 - 1921	359602
AF	488m SW	Cemetery	1914	354932
L	489m NE	Railway Building	1921	348840
AH	490m W	Unspecified Heap	1897	377692
AH	490m W	Unspecified Heap	1936 - 1951	387117
AE	491m N	Malthouse	1921	355618
AE	491m N	Malthouse	1877	363117
AA	497m NE	Unspecified Old Quarry	1914 - 1921	352590

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	13

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 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
B	**On site**	**Tanks**	**1918 - 1935**	**45673**
D	**On site**	**Unspecified Tank**	**1880**	**41544**
D	**On site**	**Unspecified Tank**	**1918 - 1935**	**45045**
M	312m NE	Unspecified Tank	1984	43028
M	313m NE	Unspecified Tank	1994 - 1998	42615
M	314m NE	Unspecified Tank	1984	42243
V	349m NE	Gasometer	1880	40628
10	385m N	Unspecified Tank	1978	39645
L	422m NE	Tanks	1984	45842
L	423m NE	Tanks	1994 - 1998	42037
L	424m NE	Tanks	1984	46315
L	428m NE	Unspecified Tank	1984 - 1998	42743
15	482m N	Unspecified Tank	1880	39630

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**9**

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 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
S	324m NW	Gas Governor	1984	24806
S	326m NW	Gas Governor	1985	22880
S	332m NW	Gas Governor	1993	21440
V	349m NE	Gasometer	1880	21381
8	371m NE	Electricity Substation	1980 - 1993	23669

ID	Location	Land use	Dates present	Group ID
AB	415m NE	Electricity Substation	1984	24919
AB	415m NE	Electricity Substation	1984 - 1998	24948
12	450m NW	Electricity Substation	1984 - 1993	25395
16	497m NW	Electricity Substation	1978 - 1993	24326

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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 un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	3

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 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
J	214m SW	Garage	1978 - 1987	8917
J	222m SW	Garage	1993 - 1998	7808
AE	466m N	Garage	1964	7411

This data is sourced from Ordnance Survey / Groundsure.

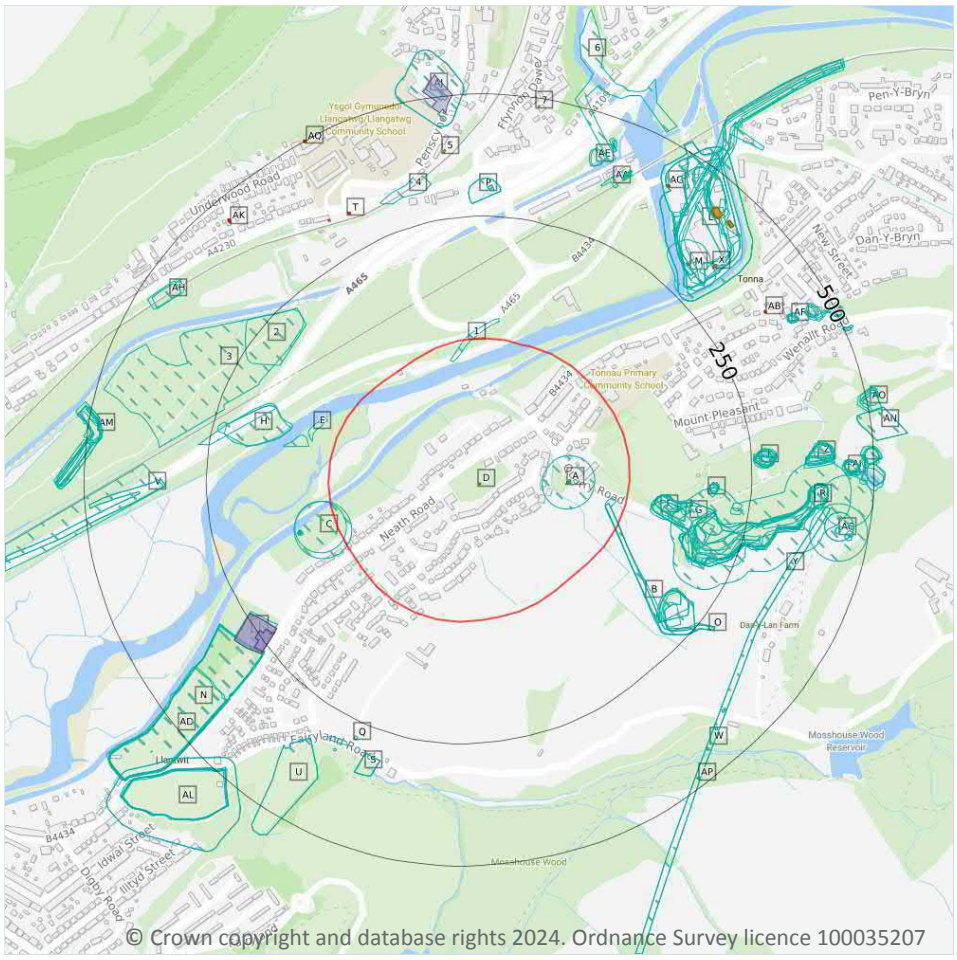
1.6 Historical military land

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 energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m	244

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 25 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Ground Workings**	**1914**	**345504**
A	**On site**	**Unspecified Tanks**	**1951**	**384763**
A	**On site**	**Unspecified Tanks**	**1936**	**354567**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Tanks**	**1962**	**352841**
A	**On site**	**Unspecified Tanks**	**1938**	**384763**
A	**On site**	**Unspecified Tanks**	**1938**	**384763**
B	**On site**	**Tramway Sidings**	**1936**	**371496**
B	**On site**	**Tramway Sidings**	**1938**	**351670**
B	**On site**	**Tramway Sidings**	**1938**	**351670**
C	**On site**	**Old Lime Kiln**	**1914**	**391309**
C	**On site**	**Old Lime Kiln**	**1921**	**379566**
E	33m W	Refuse Heap	1948	335453
E	50m W	Refuse Heap	1948	334977
F	51m E	Unspecified Heap	1921	386316
F	51m E	Unspecified Heap	1914	386316
G	53m E	Unspecified Disused Quarry	1951	377563
G	53m E	Unspecified Quarry	1897	380935
G	53m E	Unspecified Disused Quarry	1936	386304
F	55m E	Unspecified Heap	1962	352629
F	58m E	Unspecified Heap	1982	372315
F	58m E	Unspecified Heap	1973	352629
F	61m E	Unspecified Ground Workings	1938	376091
F	61m E	Unspecified Ground Workings	1938	376091
C	71m W	Unspecified Old Kiln	1962	331754
C	73m W	Old Lime Kiln	1951	368920
C	73m W	Old Lime Kiln	1936	355112
C	73m W	Unspecified Disused Kiln	1991	371895
C	73m W	Unspecified Disused Kiln	1982	371895
C	74m W	Old Lime Kiln	1938	371190
C	74m W	Old Lime Kiln	1938	388045
G	76m E	Unspecified Quarry	1877	356440

ID	Location	Land Use	Date	Group ID
G	89m E	Railway Sidings	1914	364944
G	92m E	Railway Sidings	1921	364944
H	93m W	Unspecified Ground Workings	1935	345414
H	95m W	Unspecified Quarry	1948	329696
G	99m E	Unspecified Disused Quarry	1962	380757
G	127m E	Unspecified Heap	1962	340486
G	133m E	Unspecified Disused Quarry	1973	389327
G	134m E	Unspecified Disused Quarry	1991	360823
G	134m E	Unspecified Disused Quarry	1982	360823
G	138m E	Unspecified Quarry	1914	380977
H	139m W	Railway Sidings	1948	334444
G	142m E	Refuse Heap	1991	369254
G	142m E	Refuse Heap	1982	369254
G	148m E	Unspecified Heap	1921	340485
G	150m E	Unspecified Disused Quarries	1938	351818
G	150m E	Unspecified Disused Quarries	1938	351818
B	156m SE	Unspecified Ground Workings	1991	346595
B	159m SE	Unspecified Heap	1951	355801
B	159m SE	Unspecified Heap	1936	355023
I	161m E	Unspecified Old Quarry	1921	389822
B	161m SE	Unspecified Heap	1962	390857
I	164m E	Unspecified Quarry	1936	381470
I	164m E	Unspecified Quarry	1962	358902
I	165m E	Unspecified Quarry	1938	377436
I	165m E	Unspecified Quarry	1938	377436
I	165m E	Unspecified Quarry	1897	354383
I	165m E	Unspecified Old Quarry	1914	389822
G	170m E	Unspecified Quarry	1921	368922

ID	Location	Land Use	Date	Group ID
B	172m SE	Unspecified Heap	1914	369383
2	174m NW	Refuse Heap	1973	381629
B	180m SE	Unspecified Heap	1921	370156
B	180m SE	Unspecified Pit	1877	344104
3	182m NW	Refuse Heap	1982	366472
J	207m SW	Garage	1991	341549
G	214m E	Unspecified Heap	1921	385172
G	216m E	Unspecified Heap	1914	385172
K	254m E	Unspecified Old Quarry	1921	352211
K	255m E	Unspecified Heap	1991	385763
K	255m E	Unspecified Heap	1982	385763
K	255m E	Unspecified Heap	1973	370831
K	255m E	Unspecified Ground Workings	1962	374751
K	255m E	Unspecified Old Quarry	1914	375126
K	255m E	Unspecified Ground Workings	1938	386965
K	255m E	Unspecified Ground Workings	1938	386965
K	255m E	Unspecified Ground Workings	1951	387563
K	255m E	Unspecified Ground Workings	1936	386965
L	257m NE	Unspecified Works	1991	351273
L	257m NE	Unspecified Works	1982	351273
L	257m NE	Unspecified Works	1973	376576
M	259m NE	Unspecified Commercial/Industrial	1948	331710
K	260m E	Unspecified Heap	1935	363841
K	260m E	Unspecified Heap	1914	379354
N	262m SW	Cemetery	1938	376277
N	262m SW	Cemetery	1938	376277
K	263m E	Unspecified Heap	1948	380806
N	264m SW	Cemetery	1921	352154

ID	Location	Land Use	Date	Group ID
N	264m SW	Cemetery	1877	367870
N	264m SW	Cemetery	1951	376277
N	264m SW	Cemetery	1936	352154
N	265m SW	Cemetery	1962	377568
K	266m E	Unspecified Pit	1877	378487
K	267m E	Unspecified Pit	1897	350822
O	269m SE	Coal Level	1938	365781
O	269m SE	Coal Level	1938	365781
P	276m N	Unspecified Pit	1991	354418
P	276m N	Unspecified Pit	1982	354418
L	276m NE	Tin Works	1877	342152
L	276m NE	Tin Plate Works	1935	378519
L	276m NE	Tin Plate Works	1914	386022
L	276m NE	Railway Sidings	1897	377812
L	276m NE	Tin Plate Works	1897	386022
Q	280m SW	Old Coal Pit	1914	338326
L	281m NE	Tin Plate Works	1921	387150
R	283m E	Coal Level	1921	347852
L	293m NE	Railway Sidings	1877	371731
L	295m NE	Railway Sidings	1948	351803
Q	299m SW	Old Coal Pit	1921	338325
L	300m NE	Railway Sidings	1962	351863
P	301m N	Unspecified Old Kiln	1921	331758
L	302m NE	Railway Sidings	1935	389259
L	304m NE	Railway Sidings	1914	377172
P	305m N	Unspecified Old Kiln	1914	391041
P	305m N	Unspecified Old Kiln	1897	391041
S	305m S	Unspecified Pit	1991	370242

ID	Location	Land Use	Date	Group ID
S	305m S	Unspecified Pit	1982	370242
S	305m S	Unspecified Pit	1973	369422
L	306m NE	Railway Sidings	1921	351990
4	308m N	Railway Sidings	1877	334443
Q	322m SW	Old Coal Pit	1897	338324
U	328m SW	Cemetery	1991	352909
U	328m SW	Cemetery	1982	352909
V	333m W	Railway Sidings	1938	388055
V	333m W	Railway Sidings	1938	362253
V	336m W	Railway Sidings	1936	376046
W	342m SE	Supply Pipes	1938	362930
W	342m SE	Supply Pipes	1938	362930
Y	357m E	Air Valve	1938	372576
Y	357m E	Air Valve	1938	372576
Z	357m E	Unspecified Heap	1921	385722
AA	358m NE	Railway Station	1897	349698
Z	360m E	Unspecified Ground Workings	1938	369220
Z	360m E	Unspecified Ground Workings	1938	369220
Z	362m E	Unspecified Heap	1914	365950
Z	362m E	Unspecified Heap	1962	357825
Z	366m E	Unspecified Heap	1948	359141
Z	366m E	Unspecified Heap	1935	381204
Z	366m E	Unspecified Heap	1914	358409
R	369m E	Old Coal Level	1914	329436
Z	375m E	Unspecified Heap	1973	354964
Z	378m E	Unspecified Heap	1991	384353
AC	379m E	Unspecified Old Level	1962	370664
AD	383m SW	Cemetery	1897	350597

ID	Location	Land Use	Date	Group ID
AD	384m SW	Cemetery	1914	350597
AA	385m NE	Railway Station	1962	384497
AA	386m NE	Railway Station	1948	384497
AE	389m N	Unspecified Heap	1921	369509
AE	392m N	Unspecified Heap	1914	369509
AC	393m E	Unspecified Disused Level	1991	361933
AA	394m NE	Railway Station	1935	374845
AA	394m NE	Railway Station	1914	362998
AF	402m NE	Unspecified Quarries	1921	389304
AF	403m NE	Unspecified Quarries	1962	378115
AF	405m NE	Unspecified Quarries	1948	358235
AF	406m NE	Unspecified Quarries	1914	366069
AF	407m NE	Unspecified Quarries	1935	357019
W	408m SE	Air Valve	1938	374302
W	408m SE	Air Valve	1938	374302
AC	409m E	Unspecified Old Level	1951	356240
AC	409m E	Unspecified Old Level	1936	381094
6	409m NE	Railway Sidings	1877	334450
L	409m NE	Unspecified Heap	1877	340785
AH	420m NW	Cuttings	1877	374441
L	422m NE	Unspecified Heap	1921	368310
L	422m NE	Unspecified Heap	1877	389720
L	422m NE	Unspecified Heap	1921	340784
L	424m NE	Unspecified Ground Workings	1897	346887
W	425m SE	Sluice Valves	1938	382589
W	425m SE	Sluice Valves	1938	382589
L	426m NE	Unspecified Heap	1914	368310
AH	426m NW	Cuttings	1914	378388

ID	Location	Land Use	Date	Group ID
AC	431m E	Unspecified Disused Level	1982	377477
AC	432m E	Unspecified Old Level	1938	367009
AC	432m E	Unspecified Old Level	1938	367009
AE	432m N	Smithy	1921	366403
AE	432m N	Smithy	1877	353348
AI	435m E	Unspecified Heap	1921	388564
AI	438m E	Unspecified Heap	1914	373400
AJ	439m N	Unspecified Works	1991	366757
AJ	439m N	Unspecified Works	1982	366757
AI	439m E	Unspecified Heap	1938	372869
AI	439m E	Unspecified Heap	1938	372869
AI	440m E	Unspecified Heap	1962	366979
AI	441m E	Unspecified Heap	1951	372696
AI	441m E	Unspecified Heap	1936	389568
AI	441m E	Unspecified Heap	1897	365460
AE	441m N	Smithy	1914	373701
AE	441m N	Smithy	1897	373701
AF	441m NE	Unspecified Quarries	1948	379079
AF	442m NE	Unspecified Quarries	1935	379079
AF	445m NE	Unspecified Quarries	1921	389537
W	447m SE	Sluice Valves	1938	370199
W	447m SE	Sluice Valves	1938	370199
AF	449m NE	Unspecified Quarries	1914	389537
AC	452m E	Old Coal Pit	1921	379232
AC	455m E	Old Coal Pit	1914	379232
AF	456m NE	Unspecified Quarry	1877	331232
L	460m NE	Unspecified Heap	1914	374568
AL	464m SW	Cemetery	1991	350744

ID	Location	Land Use	Date	Group ID
AL	464m SW	Cemetery	1982	350744
AM	469m W	Unspecified Ground Workings	1914	355845
AM	469m W	Unspecified Ground Workings	1935	358561
AI	471m E	Unspecified Heap	1921	387231
AM	471m W	Unspecified Heap	1921	370028
AM	471m W	Unspecified Heap	1877	370028
AN	473m E	Unspecified Works	1991	384749
AN	473m E	Unspecified Works	1982	384749
AI	473m E	Unspecified Heap	1973	363488
AM	473m W	Unspecified Ground Workings	1897	380591
AI	474m E	Unspecified Heap	1897	364739
AM	475m W	Unspecified Heap	1982	370028
AM	475m W	Unspecified Heap	1973	370028
AI	476m E	Unspecified Old Quarry	1921	353226
AI	477m E	Unspecified Heap	1921	354262
AI	478m E	Unspecified Old Quarry	1914	353226
AI	479m E	Unspecified Heap	1948	369993
AO	479m E	Unspecified Heap	1921	355354
AP	480m SE	Air Valve	1938	376496
AP	480m SE	Air Valve	1938	376496
AI	480m E	Unspecified Heap	1935	369183
AI	480m E	Unspecified Heap	1914	354230
AF	481m NE	Unspecified Quarries	1962	368722
AI	482m E	Unspecified Quarry	1897	329689
AL	482m SW	Cemetery	1938	378990
AL	482m SW	Cemetery	1938	378990
AL	483m SW	Cemetery	1962	368480
AM	486m W	Unspecified Heap	1914	371835

ID	Location	Land Use	Date	Group ID
AL	486m SW	Cemetery	1951	369600
AL	486m SW	Cemetery	1936	372372
AL	486m SW	Cemetery	1897	387615
AO	487m E	Unspecified Heap	1914	352821
AO	487m E	Unspecified Heap	1935	387191
AF	487m NE	Unspecified Quarries	1921	359602
AL	488m SW	Cemetery	1914	354932
AO	488m E	Unspecified Heap	1948	387191
L	489m NE	Railway Building	1921	348840
AM	490m W	Unspecified Heap	1951	387117
AM	490m W	Unspecified Heap	1936	387117
AM	490m W	Unspecified Heap	1897	377692
AF	491m NE	Unspecified Quarries	1914	359602
AJ	491m N	Malthouse	1921	355618
AJ	491m N	Malthouse	1877	363117
AF	497m NE	Unspecified Old Quarry	1921	352590
AF	499m NE	Unspecified Old Quarry	1914	352590

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**20**

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 25 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Tanks**	**1918**	**45673**
A	**On site**	**Tanks**	**1935**	**45673**
D	**On site**	**Unspecified Tank**	**1880**	**41544**

ID	Location	Land Use	Date	Group ID
D	**On site**	**Unspecified Tank**	**1918**	**45045**
D	**On site**	**Unspecified Tank**	**1935**	**45045**
M	312m NE	Unspecified Tank	1984	43028
M	313m NE	Unspecified Tank	1994	42615
M	313m NE	Unspecified Tank	1998	42615
M	314m NE	Unspecified Tank	1984	42243
X	349m NE	Gasometer	1880	40628
5	385m N	Unspecified Tank	1978	39645
L	422m NE	Tanks	1984	45842
L	423m NE	Tanks	1994	42037
L	423m NE	Tanks	1998	42037
L	424m NE	Tanks	1984	46315
L	428m NE	Unspecified Tank	1984	42743
L	428m NE	Unspecified Tank	1994	42743
L	428m NE	Unspecified Tank	1998	42743
L	430m NE	Unspecified Tank	1984	42743
7	482m N	Unspecified Tank	1880	39630

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**19**

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'.

Features are displayed on the Past land use - un-grouped map on **page 25** >

ID	Location	Land Use	Date	Group ID
T	324m NW	Gas Governor	1984	24806
T	326m NW	Gas Governor	1985	22880
T	332m NW	Gas Governor	1993	21440

ID	Location	Land Use	Date	Group ID
X	349m NE	Gasometer	1880	21381
AB	371m NE	Electricity Substation	1980	23669
AB	371m NE	Electricity Substation	1986	23669
AB	372m NE	Electricity Substation	1993	23669
AG	415m NE	Electricity Substation	1984	24919
AG	415m NE	Electricity Substation	1984	24948
AG	415m NE	Electricity Substation	1994	24948
AG	415m NE	Electricity Substation	1998	24948
AK	450m NW	Electricity Substation	1993	25395
AK	451m NW	Electricity Substation	1984	25395
AK	453m NW	Electricity Substation	1985	25395
AQ	497m NW	Electricity Substation	1984	24326
AQ	498m NW	Electricity Substation	1993	24326
AQ	498m NW	Electricity Substation	1978	24326
AQ	498m NW	Electricity Substation	1985	24326
AQ	498m NW	Electricity Substation	1978	24326

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	6

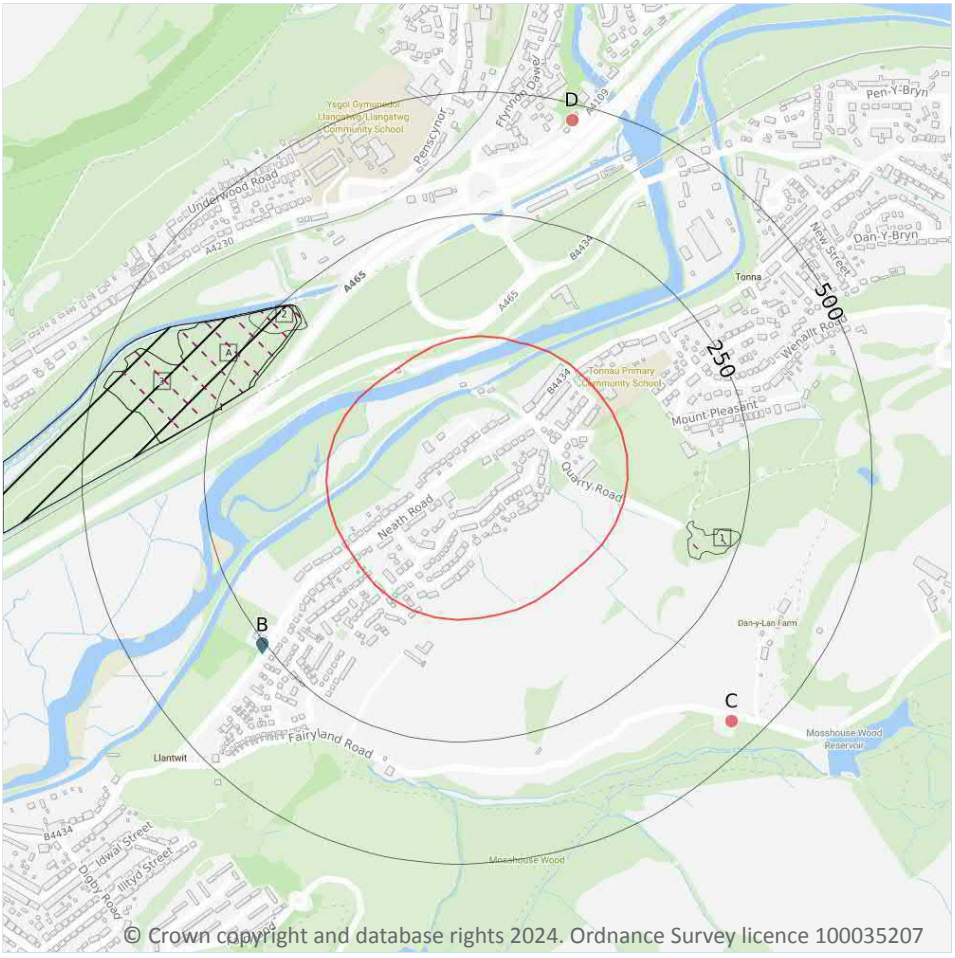
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 25 >**

ID	Location	Land Use	Date	Group ID
J	214m SW	Garage	1978	8917
J	214m SW	Garage	1987	8917
J	222m SW	Garage	1993	7808
J	222m SW	Garage	1994	7808
J	222m SW	Garage	1998	7808
AJ	466m N	Garage	1964	7411

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Licensed waste sites
- 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	4

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

Features are displayed on the Waste and landfill map on **page 38 >**

ID	Location	Site address	Source	Data type
1	138m E	Refuse Tip	1986 mapping	Polygon
2	180m NW	Refuse Tip	1963 mapping	Polygon
A	186m NW	Refuse Tip	1978 mapping	Polygon
A	186m NW	Refuse Tip	1987 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

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.

Features are displayed on the Waste and landfill map on **page 38 >**

ID	Location	Details		
3	192m NW	Site Address: Cadoxton, Neath, West Glamorgan Licence Holder Address: -	Waste Licence: Yes Site Reference: - Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/06/1977 Licence Surrender: 01/04/1985	Operator: - Licence Holder: Neath Borough Council First Recorded 31/12/1971 Last Recorded: 01/04/1985

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	6

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

Features are displayed on the Waste and landfill map on **page 38 >**

ID	Location	Details		
B	257m SW	Site Name: A J Motors Site Address: A J Motors, Neath Road, Tonna, Neath, N P T, SA11 3BZ Correspondence Address: -	Type of Site: ELV Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JAM010 EPR reference: YP3998FU/A001 Operator: James Alun Waste Management licence No: 34269 Annual Tonnage: 2500	Issue Date: 14/02/2006 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued
B	259m SW	Site Name: - Site Address: A J Motors, Tonna, Neath, N P T, SA11 3BZ Correspondence Address: -	Type of Site: ELV Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: YP3998FU EPR reference: - Operator: Alun James Waste Management licence No: - Annual Tonnage: 0	Issue Date: 14/02/2006 Effective Date: 14/02/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	259m SW	Site Name: - Site Address: A J Motors, Tonna, Neath, N P T, SA11 3BZ Correspondence Address: -	Type of Site: ELV Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: YP3998FU EPR reference: - Operator: Alun James Waste Management licence No: - Annual Tonnage: 0	Issue Date: 14/02/2006 Effective Date: 14/02/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
B	259m SW	Site Name: - Site Address: A J Motors, Tonna, Neath, Neath Port Talbot, SA11 3BZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3998FU EPR reference: - Operator: Alun James Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 14/02/2006 Effective Date: 14/02/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	259m SW	Site Name: - Site Address: A J Motors, Tonna, N P T, Neath, Neath Port Talbot, SA11 3BZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3998FU EPR reference: - Operator: Alun James Waste Management licence No: 34269 Annual Tonnage: 0	Issue Date: 14/02/2006 Effective Date: 14/02/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	259m SW	Site Name: - Site Address: A J Motors, Tonna, Neath, N P T, SA11 3BZ Correspondence Address: -	Type of Site: ELV Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3998FU EPR reference: - Operator: - Waste Management licence No: 34269 Annual Tonnage: 0	Issue Date: 14/02/2006 Effective Date: 14/02/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

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

3.7 Waste exemptions

Records within 500m	**22**

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 38 >**

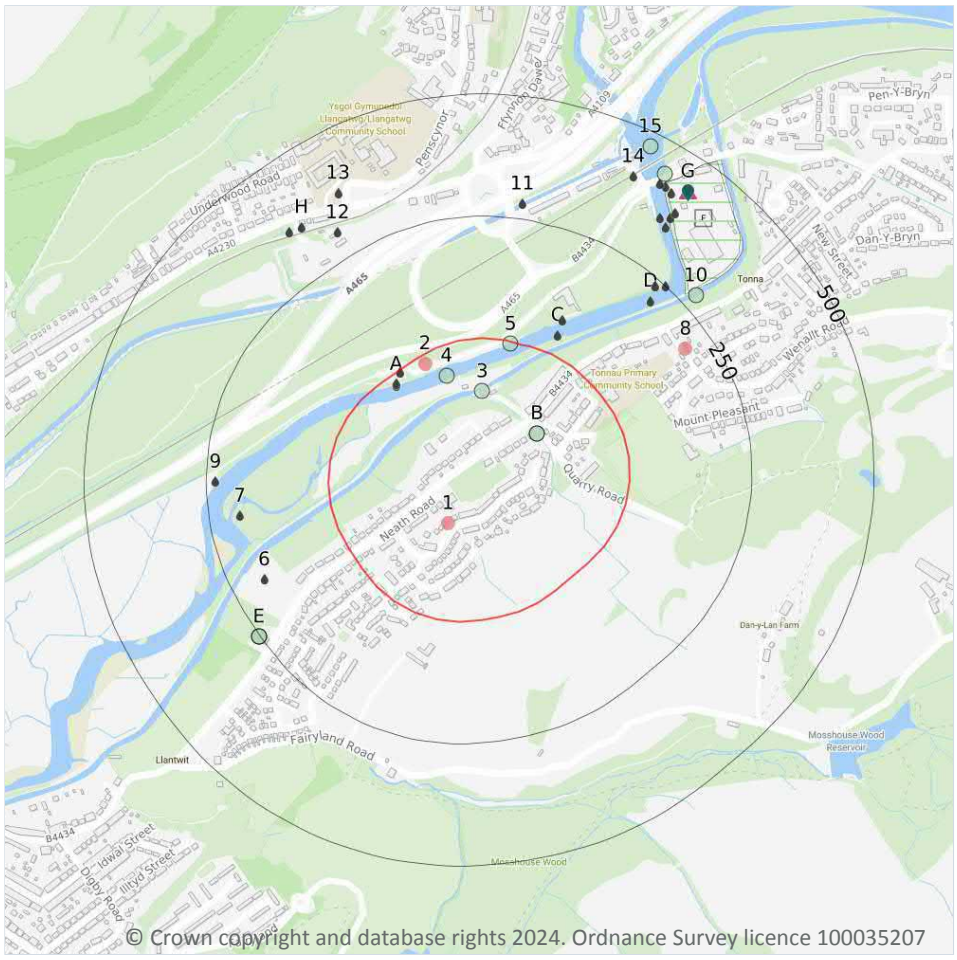
ID	Location	Site	Reference	Category	Sub-Category	Description
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Using waste exemption	On a farm	Use of waste for a specified purpose

ID	Location	Site	Reference	Category	Sub-Category	Description
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Storing waste exemption	On a farm	Storage of waste in secure containers
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Storing waste exemption	On a farm	Storage of waste in a secure place
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Using waste exemption	On a farm	Use of waste in construction
C	443m SE	Estates Farm, Fairyland Road, Tonna, Neath, Glamorgan, Sa11 3qe	NRW-WME069649	Using waste exemption	Not on a farm	Use of waste in construction
C	443m SE	Brynchwyth Farm, Fairyland Road, Neath, Neath, West Glamorgan, Sa113qe	NRW-WME031266	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	443m SE	Brynchwyth Farm, Fairyland Road, Neath, Neath, West Glamorgan, Sa113qe	NRW-WME031266	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	443m SE	Brynchwyth Farm, Fairyland Road, Neath, Neath, West Glamorgan, Sa113qe	NRW-WME031266	Disposing of waste exemption	On a farm	Burning waste in the open
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Disposing of waste exemption	On a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
C	443m SE	Ty Cwm Farm, Tonna, Neath, Sa113qe	NRW-WME015183	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	467m N	The Bungalow, Dulais Farm, Aberdulais, Neath, Castell-Nedd Port Talbot, Sa108eu	NRW-WME030025	Using waste exemption	Not on a farm	Use of waste in construction
D	467m N	National Trust Aberdulais Tinworks And Waterfall, The National Trust, Aberdulais Falls, Aberdulais, Neath, Castell-Nedd Port Talbot, Sa10 8eu	NRW-WME062222	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
D	467m N	National Trust Aberdulais Tinworks And Waterfall, The National Trust, Aberdulais Falls, Aberdulais, Neath, Castell-Nedd Port Talbot, Sa10 8eu	NRW-WME062222	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	467m N	National Trust Aberdulais Tinworks And Waterfall, The National Trust, Aberdulais Falls, Aberdulais, Neath, Castell-Nedd Port Talbot, Sa10 8eu	NRW-WME062222	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	467m N	National Trust Aberdulais Tinworks And Waterfall, The National Trust, Aberdulais Falls, Aberdulais, Neath, Castell-Nedd Port Talbot, Sa10 8eu	NRW-WME062222	Treating waste exemption	Not on a farm	Recovery of scrap metal
D	467m N	National Trust Aberdulais Tinworks And Waterfall, The National Trust, Aberdulais Falls, Aberdulais, Neath, Castell-Nedd Port Talbot, Sa10 8eu	NRW-WME062222	Treating waste exemption	Not on a farm	Manual treatment of waste
D	467m N	National Trust Aberdulais Tinworks And Waterfall, The National Trust, Aberdulais Falls, Aberdulais, Neath, Castell-Nedd Port Talbot, Sa10 8eu	NRW-WME062222	Disposing of waste exemption	Not on a farm	Disposal by incineration

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 44 >

ID	Location	Company	Address	Activity	Category
1	**On site**	**Electricity Sub Station**	**West Glamorgan, SA11**	**Electrical Features**	**Infrastructure and Facilities**
2	**On site**	**Electricity Sub Station**	**West Glamorgan, SA10**	**Electrical Features**	**Infrastructure and Facilities**
8	196m NE	Electricity Sub Station	West Glamorgan, SA11	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 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.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	2

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.

Features are displayed on the Current industrial land use map on **page 44 >**

ID	Location	Company	Address	Operational status	Tier
F	266m NE	Calor Gas Ltd	Calor Gas Ltd, Scapa Works, Aberdulais, Neath,SA10 8ER	Historical NIHHS Site	-

ID	Location	Company	Address	Operational status	Tier
F	276m NE	Calor Gas Limited	Calor Gas Limited, Neath Operations Centre, Neath Operations Centre, Neath, West Glamorgan, SA10 8ER	Current COMAH Site	COMAH Upper Tier Operator

This data is sourced from the Health and Safety Executive.

4.7 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.

4.8 Hazardous substance storage/usage

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 44 >**

ID	Location	Details	
G	429m NE	Application reference number: PHS 001 Application status: Approved Application date: No Details Address: Calor Gas Limited, Neath Operations Centre, Aberdulais, Neath, West Glamorgan, Wales, SA10 8ER	Details: Storage of LPG Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 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.

4.10 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.

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

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 44 >**

ID	Location	Address	Details	
G	428m NE	Calor Gas Limited, Customer Operations Centre, Scapa Works, Aberdulais, Neath, SA10 8ER	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No enforcements issued Date of enforcement: No enforcements issued Comment: No enforcements issued

This data is sourced from Local Authority records.

4.12 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.

4.13 Licensed Discharges to controlled waters

Records within 500m	31

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 44 >**

ID	Location	Address	Details	
A	On site	ABERDULAIS SPS, ABERDULAIS SPS, ABERDULAIS, NEATH, NEATH PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0224801 Permit Version: 0 Receiving Water: NEATH ESTUARY	Status: Effective Issue date: 09/02/1993 Effective Date: 09/02/1993 Revocation Date: -
A	On site	Aberdulais SPS, R/O Riverside Golf Range, Aberdulais, SA11 3DZ	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BP0224802 Permit Version: 0 Receiving Water: Neath Estuary	Status: Effective Issue date: 17/12/2019 Effective Date: 17/12/2019 Revocation Date: -
A	On site	Aberdulais SPS, R/O Riverside Golf Range, Aberdulais, SA11 3DZ	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BP0224802 Permit Version: 0 Receiving Water: Neath Estuary	Status: Effective Issue date: 17/12/2019 Effective Date: 17/12/2019 Revocation Date: -
A	On site	ABERDULAIS SPS, R/O Riverside Golf Range, Aberdulais, SA11 3DZ	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BP0224802 Permit Version: 3 Receiving Water: Neath Estuary	Status: Effective Issue date: 17/12/2019 Effective Date: 17/12/2019 Revocation Date: -
A	On site	ABERDULAIS SPS, ABERDULAIS, NEATH, NEATH PORT TALBOT	Effluent Type: UNSPECIFIED Permit Number: BW0202801 Permit Version: 2 Receiving Water: SWANSEA BAY VIA BETSI LAGOON	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 10/05/1993 Effective Date: 10/05/1993 Revocation Date: 01/12/2000
A	On site	ABERDULAIS SPS, R/O Riverside Golf Range, Aberdulais, SA11 3DZ	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BP0224802 Permit Version: 3 Receiving Water: Neath Estuary	Status: Effective Issue date: 17/12/2019 Effective Date: 17/12/2019 Revocation Date: -
A	On site	ABERDULAIS SPS, ABERDULAIS, NEATH, NEATH PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0224802 Permit Version: 2 Receiving Water: NEATH ESTUARY	Status: Effective Issue date: 31/03/2005 Effective Date: 31/03/2008 Revocation Date: -

ID	Location	Address	Details	
C	41m NE	CANAL SIDE SEWER OVERFLOW SWO	Effluent Type: UNSPECIFIED Permit Number: BW2901801 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 21/12/1992
C	72m NE	ABERDULAIS SS77119893, SS77119893	Effluent Type: UNSPECIFIED Permit Number: BP0064312 Permit Version: 1 Receiving Water: RIVER NEATH - TIDAL	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/10/1987 Effective Date: 09/10/1987 Revocation Date: 28/08/1992
6	183m SW	BOUNDARY	Effluent Type: UNSPECIFIED Permit Number: BP0064309 Permit Version: 1 Receiving Water: RIVER NEATH - TIDAL	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/10/1987 Effective Date: 09/10/1987 Revocation Date: 28/08/1992
7	188m W	SWO.POINT V. U/S CEMET. LLA	Effluent Type: UNSPECIFIED Permit Number: BB4000510 Permit Version: 1 Receiving Water: RIVER NEATH	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 31/03/2003
D	207m NE	SWO. POINT X. D/S WEIR TONN	Effluent Type: UNSPECIFIED Permit Number: BB4000511 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 16/12/1992
9	231m W	BOUNDARY SEWER OVERFLOW SWO 6C	Effluent Type: UNSPECIFIED Permit Number: BW2901701 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 21/12/1992
D	236m NE	FARRIT SEWER OVERFLOW (SWO 6A)	Effluent Type: UNSPECIFIED Permit Number: BP0056501 Permit Version: 1 Receiving Water: RIVER NEATH	Status: REVOKED - UNSPECIFIED Issue date: 10/11/1987 Effective Date: 10/11/1987 Revocation Date: 29/07/1991
D	236m NE	FARRIT SEWER OVERFLOW (SWO 6A)	Effluent Type: UNSPECIFIED Permit Number: BW2901901 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 21/12/1992
D	236m NE	FARRIT SEWER OVERFLOW (SWO 6A)	Effluent Type: UNSPECIFIED Permit Number: BP0056501 Permit Version: 2 Receiving Water: RIVER NEATH	Status: REVOKED - UNSPECIFIED Issue date: 30/07/1991 Effective Date: 30/07/1991 Revocation Date: 29/06/1992

ID	Location	Address	Details	
D	236m NE	FARRIT SEWER OVERFLOW (SWO 6A)	Effluent Type: UNSPECIFIED Permit Number: BP0056501 Permit Version: 3 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 30/06/1992 Effective Date: 30/06/1992 Revocation Date: 31/08/1992
D	249m NE	ABERDULAIS SS77329900, SS77329900	Effluent Type: UNSPECIFIED Permit Number: BP0064311 Permit Version: 1 Receiving Water: RIVER NEATH - TIDAL	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/10/1987 Effective Date: 09/10/1987 Revocation Date: 28/08/1992
11	282m N	CANAL SIDE NEATH WEST GLAMORGA, CANAL SIDE, NEATH, NEATH PORT TALBOT, WALES	Effluent Type: UNSPECIFIED Permit Number: BB4028001 Permit Version: 1 Receiving Water: CANAL SIDE NEATH	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 06/10/1978 Effective Date: 06/10/1978 Revocation Date: 31/10/1996
12	305m NW	LLANGATWG SCHOOL (STORM) CADOXTON, LLANGATWG SCHOOL (STORM), CADOXTON, NEATH	Effluent Type: UNSPECIFIED Permit Number: BM0010801 Permit Version: 1 Receiving Water: UNNAMED TRIB. NEATH	Status: REVOKED - UNSPECIFIED Issue date: 18/02/1982 Effective Date: 18/02/1982 Revocation Date: 10/11/1986
G	342m NE	CALOR GAS WORKS OVERFLOW (SWO	Effluent Type: UNSPECIFIED Permit Number: BW2902301 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 21/12/1992
G	353m NE	SWO. POINT Y.D/S WEIR TONNA	Effluent Type: UNSPECIFIED Permit Number: BB4000512 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 16/12/1992
H	355m NW	1 YNYSLLYNLLADD COTTAGES CADOXTON, 1 YNYSLLYNLLADD COTTAGES, CADOXTON, NEATH, WALES, SA10 8DA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BP0325801 Permit Version: 1 Receiving Water: TRIB OF RIVER NEATH	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 06/08/2004 Effective Date: 06/08/2004 Revocation Date: -
H	361m NW	LLANGATWG SCHOOL (STORM) CADOXTON, LLANGATWG SCHOOL (STORM), CADOXTON, NEATH	Effluent Type: UNSPECIFIED Permit Number: BM0010801 Permit Version: 2 Receiving Water: UNNAMED TRIB. NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 11/11/1986 Effective Date: 11/11/1986 Revocation Date: 14/03/1994

ID	Location	Address	Details	
G	364m NE	TONNA SEWER OVERFLOW (SWO 5D)	Effluent Type: UNSPECIFIED Permit Number: BW2902001 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 08/11/1972 Effective Date: 08/11/1972 Revocation Date: 21/12/1992
13	375m NW	CSO 49 LLANGATWG SCHOOL ABERDULIAS, Nr Llangatwg School, Caewern, Neath, SA10 8DA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BW2902801 Permit Version: 0 Receiving Water: Tributary of the Tennant Canal	Status: Effective Issue date: 11/10/2019 Effective Date: 11/10/2019 Revocation Date: -
G	378m NE	73 PARK ST/DULAIS FACH RD TONNA NPT, 73 PARK STREET/DULAIS FACH ROAD, TONNA, NEATH, NEATH PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0064310 Permit Version: 0 Receiving Water: RIVER NEATH	Status: Effective Issue date: 07/03/2005 Effective Date: 31/03/2008 Revocation Date: -
14	400m NE	CALOR GAS OPS CENTRE ABERDULAIS, CALOR GAS OPERATIONS CENTRE, ABERDULAIS, NEATH, NEATH PORT TALBOT CBC	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: BP0299501 Permit Version: 0 Receiving Water: AFON NEDD	Status: Effective Issue date: 20/08/2002 Effective Date: 20/08/2002 Revocation Date: -
G	408m NE	CSO 48 NEATH RIVER BRIDGE ADJ CALOR, Adj to Calor Gas, Tonna, Neath, SA10 8EP	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0316601 Permit Version: 0 Receiving Water: RIVER NEATH	Status: Effective Issue date: 11/10/2019 Effective Date: 11/10/2019 Revocation Date: -
G	413m NE	CALOR GAS OPS CENTRE ABERDULAIS, CALOR GAS OPERATIONS CENTRE, ABERDULAIS, NEATH, NEATH PORT TALBOT CBC, SA10 8ER	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: BP0299601 Permit Version: 0 Receiving Water: AFON NEDD	Status: Effective Issue date: 20/08/2002 Effective Date: 20/08/2002 Revocation Date: -
G	413m NE	DULAIS FACH ROAD SWO.5B AT RIV	Effluent Type: UNSPECIFIED Permit Number: BW2900101 Permit Version: 1 Receiving Water: RIVER NEATH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/10/1989 Effective Date: 20/10/1989 Revocation Date: 14/03/1994

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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.

4.17 List 2 Dangerous Substances

Records within 500m	0

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.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	11

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 44 >**

ID	Location	Details	
3	**On site**	**Incident Date: 29/06/2001** **Incident Identification: 18720** **Pollutant: Oils and Fuel** **Pollutant Description: Gas and Fuel Oils**	**Water Impact: Category 3 (Minor)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 4 (No Impact)**
4	**On site**	**Incident Date: 16/01/2003** **Incident Identification: 131447** **Pollutant: Pollutant Not Identified** **Pollutant Description: Not Identified**	**Water Impact: Category 3 (Minor)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
5	**On site**	**Incident Date: 29/06/2001** **Incident Identification: 12375** **Pollutant: Pollutant Not Identified** **Pollutant Description: Not Identified**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
B	**On site**	**Incident Date: 20/06/2016** **Incident Identification: 1603410** **Pollutant: -** **Pollutant Description: -**	**Water Impact: Category 3 (Minor)** **Land Impact: No Details** **Air Impact: No Details**
B	**On site**	**Incident Date: 20/06/2016** **Incident Identification: 1603410** **Pollutant: Pollutant Not Identified** **Pollutant Description: Pollutant Not Identified**	**Water Impact: Category 3 (Minor)** **Land Impact: No Details** **Air Impact: No Details**
E	253m SW	Incident Date: 30/11/2001 Incident Identification: 45857 Pollutant: Inert Materials and Wastes:Specific Waste Materials Pollutant Description: Rocks and Gravel:Other Composites	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	253m SW	Incident Date: 30/11/2001 Incident Identification: 45857 Pollutant: Inert Materials and Wastes Pollutant Description: Rocks and Gravel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	253m SW	Incident Date: 30/11/2001 Incident Identification: 45857 Pollutant: Specific Waste Materials Pollutant Description: Other Composites	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
10	281m NE	Incident Date: 10/04/2013 Incident Identification: 1101453 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	436m NE	Incident Date: 16/07/2002 Incident Identification: 91984 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
15	470m NE	Incident Date: 16/12/2014 Incident Identification: 1301331 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -

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

4.19 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.

4.20 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.

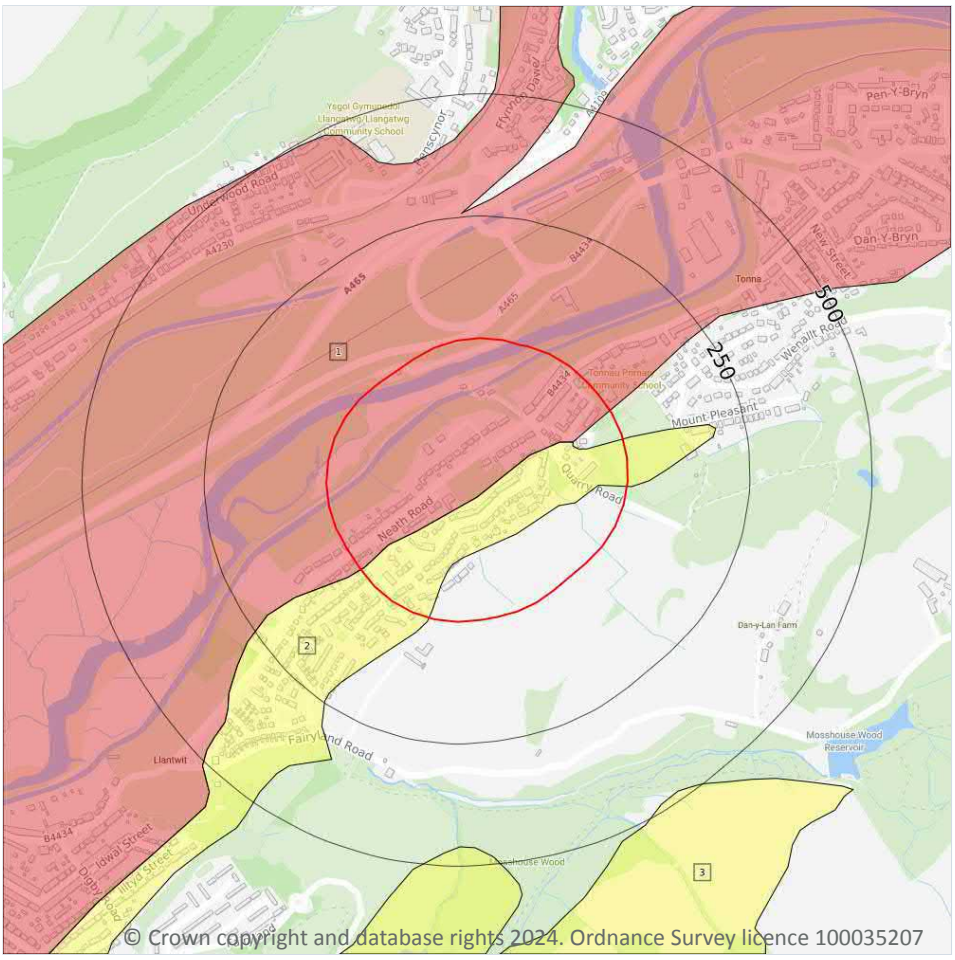
4.21 Pollution inventory radioactive waste

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.

5 Hydrogeology - Superficial aquifer



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Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	3

Aquifer status of groundwater held within superficial geology.

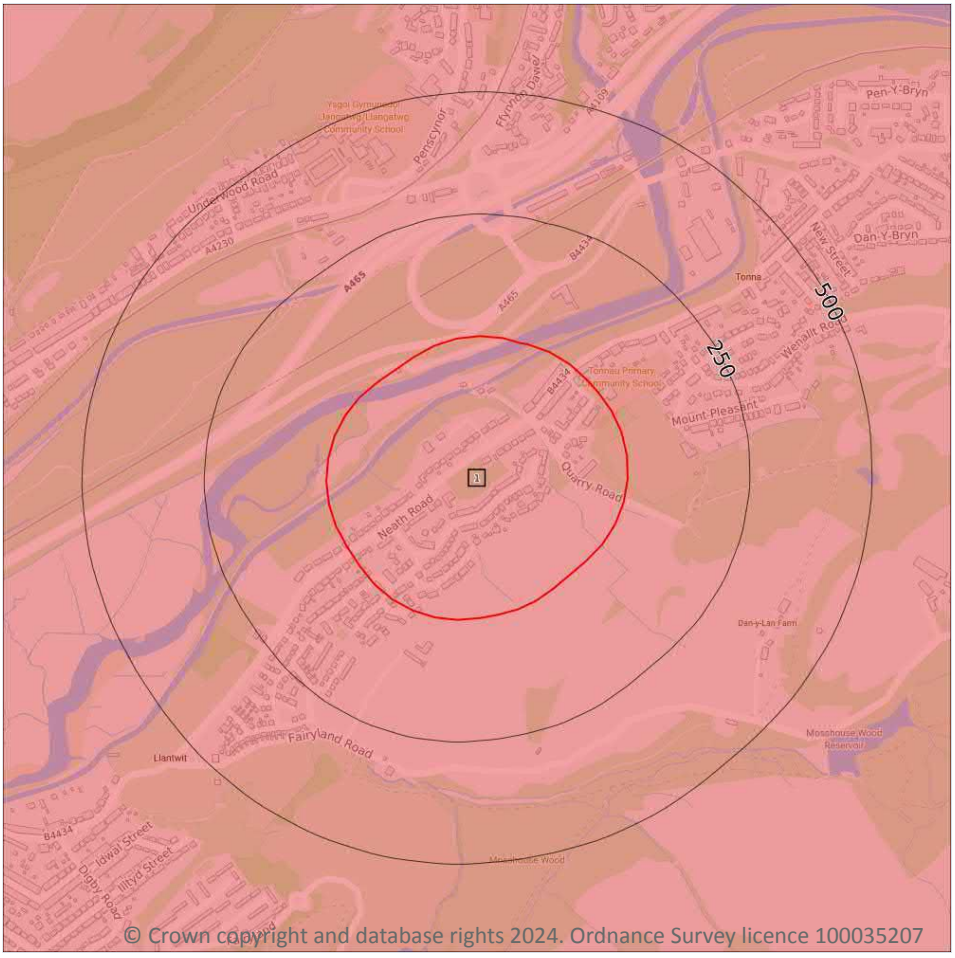
Features are displayed on the Hydrogeology map on **page 55 >**

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	460m 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	1

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 57 >**

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

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

Groundwater vulnerability

Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	6

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 58 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: High 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: 3-10m 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: 3-10m 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 - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
6	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

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.

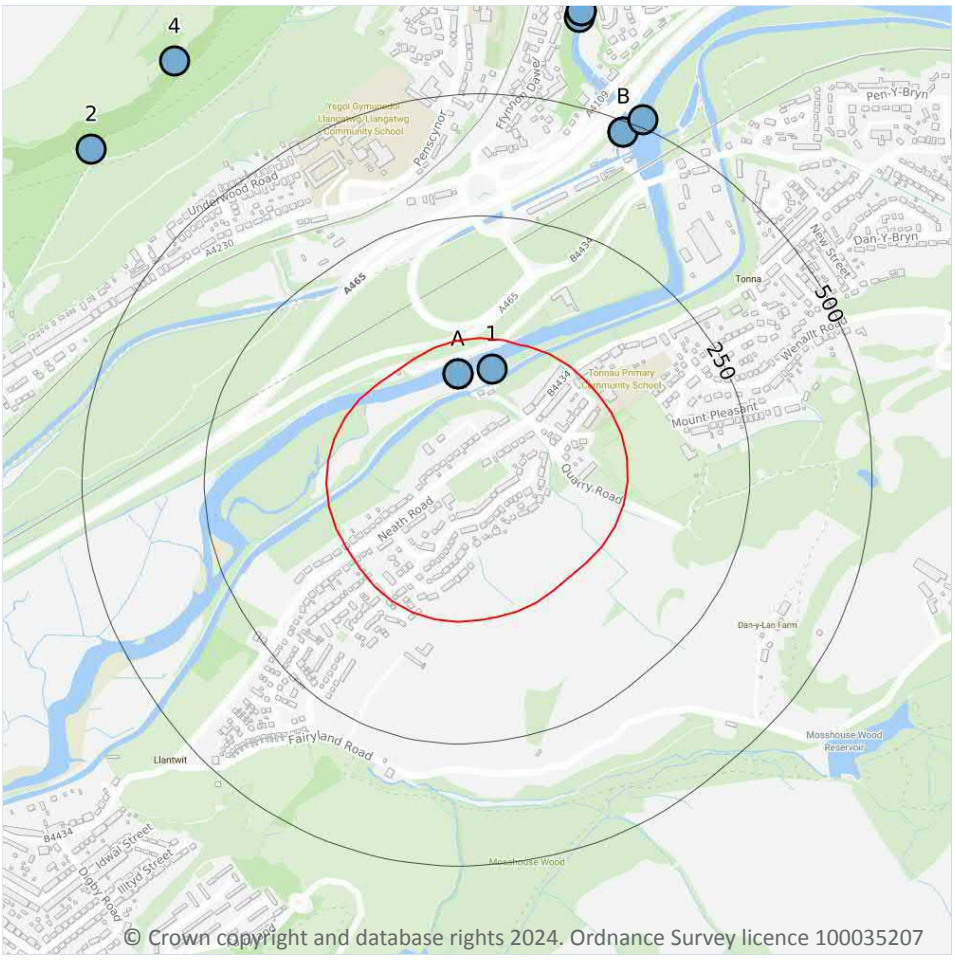
5.5 Groundwater vulnerability- local information

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
- 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	5

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 61 >**

ID	Location	Details	
-	914m NW	Status: Historical Licence No: 21/58/74/0027 Details: Spray Irrigation - Direct Direct Source: EAW Groundwater Point: U/G STRATA, PENNANT MEASURES SANDSTONE AT NEATH GOLF CLUB Data Type: Point Name: Neath Golf Club Easting: 275910 Northing: 199240	Annual Volume (m^3): 3500 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 27/09/2004 Expiry Date: 31/03/2017 Issue No: 2 Version Start Date: 04/09/2008 Version End Date: -
-	915m NW	Status: Active Licence No: WA/058/0074/0010 Details: Spray Irrigation - Storage - High Direct Source: Borehole G1 Point: - Data Type: Point Name: - Easting: 275909 Northing: 199239	Annual Volume (m^3): 3500 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 14/03/2018 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	915m NW	Status: Active Licence No: WA/058/0074/0010 Details: General Washing / Process Washing - Medium Direct Source: Borehole G1 Point: - Data Type: Point Name: - Easting: 275909 Northing: 199239	Annual Volume (m^3): 146 Max Daily Volume (m^3): 0.4 Original Application No: - Original Start Date: 14/03/2018 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	915m NW	Status: Historical Licence No: WA/058/0074/0010 Details: Spray Irrigation - Storage - High Direct Source: Borehole G1 Point: - Data Type: Point Name: - Easting: 275909 Northing: 199239	Annual Volume (m^3): 3500 Max Daily Volume (m^3): 84 Original Application No: - Original Start Date: 14/03/2018 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	915m NW	Status: Historical Licence No: WA/058/0074/0010 Details: General Washing / Process Washing - Medium Direct Source: Borehole G1 Point: - Data Type: Point Name: - Easting: 275909 Northing: 199239	Annual Volume (m^3): 146 Max Daily Volume (m^3): 4.8 Original Application No: - Original Start Date: 14/03/2018 Expiry Date: 31/03/2029 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	17

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 61 >**

ID	Location	Details	
1	On site	**Status: Historical** **Licence No: 21/58/72/0035** **Details: Transfer Between Sources (Post Water Act 2003)** **Direct Source: EAW Surface Water** **Point: RIVER NEATH AT TONNA LOCK** **Data Type: Point** **Name: Neath Canal Navigation** **Easting: 276970** **Northing: 198830**	**Annual Volume (m^3): 15000** **Max Daily Volume (m^3): 18170** **Original Application No: -** **Original Start Date: 26/03/2008** **Expiry Date: 31/03/2017** **Issue No: 2** **Version Start Date: 06/02/2009** **Version End Date: -**
A	On site	**Status: Historical** **Licence No: 21/58/72/0007** **Details: General use relating to Secondary Category (High Loss)** **Direct Source: EAW Surface Water** **Point: INLAND WATER RIVER NEATH IN THE COMMUNITY OF TONNA** **Data Type: Point** **Name: Neath Canal Navigation** **Easting: 276900** **Northing: 198820**	**Annual Volume (m^3): -** **Max Daily Volume (m^3): -** **Original Application No: -** **Original Start Date: 11/09/2002** **Expiry Date: -** **Issue No: 101** **Version Start Date: 11/09/2002** **Version End Date: 31/03/2005**
A	On site	**Status: Historical** **Licence No: 21/58/72/0007** **Details: General use relating to Secondary Category (Medium Loss)** **Direct Source: EAW Surface Water** **Point: INLAND WATER RIVER NEATH IN THE COMMUNITY OF TONNA** **Data Type: Point** **Name: Neath Canal Navigation** **Easting: 276900** **Northing: 198820**	**Annual Volume (m^3): 1659323** **Max Daily Volume (m^3): 4546** **Original Application No: -** **Original Start Date: 11/09/2002** **Expiry Date: -** **Issue No: 101** **Version Start Date: 01/04/2005** **Version End Date: -**

ID	Location	Details	
B	479m NE	Status: Historical Licence No: 21/58/74/0001 Details: Raw Water Supply - Medium Direct Source: River Neath Point: - Data Type: Point Name: - Easting: 277239 Northing: 199316	Annual Volume (m^3): 7300000 Max Daily Volume (m^3): 60000 Original Application No: - Original Start Date: Sep 24 2014 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
B	479m NE	Status: Historical Licence No: 21/58/74/0001 Details: Raw Water Supply Direct Source: EAW Surface Water Point: RIVER NEATH TO TENNANT CANAL AT ABERDULAIS Data Type: Point Name: Port Tennant Co Ltd Easting: 277239 Northing: 199316	Annual Volume (m^3): 7300000 Max Daily Volume (m^3): 30000 Original Application No: - Original Start Date: 28/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 24/09/2014 Version End Date: -
B	516m NE	Status: Historical Licence No: 21/58/74/0001 Details: Raw Water Supply Direct Source: EAW Surface Water Point: RIVER NEATH TO TENNANT CANAL AT ABERDULAIS Data Type: Point Name: Port Tennant Co Ltd Easting: 277280 Northing: 199340	Annual Volume (m^3): 7300000 Max Daily Volume (m^3): 30000 Original Application No: - Original Start Date: 28/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2006 Version End Date: -
C	679m N	Status: Historical Licence No: 21/58/73/0014 Details: Hydroelectric Power Generation Direct Source: EAW Surface Water Point: AFON DULAIS AT ABERDULAIS FALLS Data Type: Point Name: National Trust Easting: 277150 Northing: 199550	Annual Volume (m^3): 45000000 Max Daily Volume (m^3): 300000 Original Application No: - Original Start Date: 27/11/1991 Expiry Date: 31/05/2011 Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -
C	693m N	Status: Active Licence No: WA/058/0073/001 Details: Hydro-electric Power Generation - Very Low Direct Source: Abderdulais Falls Point: - Data Type: Point Name: - Easting: 277152 Northing: 199564	Annual Volume (m^3): 58000000 Max Daily Volume (m^3): 319680 Original Application No: - Original Start Date: 11/01/2018 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
C	693m N	Status: Historical Licence No: WA/058/0073/001 Details: Hydroelectric Power Generation Direct Source: EAW Surface Water Point: AFON DULAIS Data Type: Point Name: The National Trust Easting: 277152 Northing: 199564	Annual Volume (m^3): 58000000 Max Daily Volume (m^3): 319680 Original Application No: - Original Start Date: 01/06/2011 Expiry Date: 31/03/2017 Issue No: 2 Version Start Date: 28/03/2014 Version End Date: -
2	751m NW	Status: Historical Licence No: 21/58/74/0018 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SPRING 1 Data Type: Point Name: Neath Golf Club Easting: 276150 Northing: 199280	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	759m N	Status: Historical Licence No: WA/058/0073/001 Details: Hydroelectric Power Generation Direct Source: EAW Surface Water Point: AFON DULAIS AT ABERDULAIS FALLS Data Type: Point Name: The National Trust Easting: 277159 Northing: 199630	Annual Volume (m^3): 58000000 Max Daily Volume (m^3): 300000 Original Application No: - Original Start Date: 01/06/2011 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/06/2011 Version End Date: -
4	780m NW	Status: Historical Licence No: 21/58/74/0018 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: SPRING 2 Data Type: Point Name: Neath Golf Club Easting: 276320 Northing: 199460	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1748m N	Status: Active Licence No: 21/58/74/0025 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 276210 Northing: 200500	Annual Volume (m^3): 0 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 25/07/1996 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
-	1748m N	Status: Historical Licence No: 21/58/74/0026 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: LAND DRAINS IN THE CATCHMENT OF THE RIVER NEATH Data Type: Point Name: Neath Golf Club Easting: 276210 Northing: 200500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 25/07/1996 Version End Date: -
-	1936m NW	Status: Active Licence No: 21/58/74/0017 Details: Mineral Washing - Low Direct Source: unnamed stream Point: - Data Type: Point Name: - Easting: 274950 Northing: 199620	Annual Volume (m^3): 36368 Max Daily Volume (m^3): 204.6 Original Application No: - Original Start Date: 23/11/2023 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1936m NW	Status: Historical Licence No: 21/58/74/0017 Details: Mineral Washing - Low Direct Source: - Point: - Data Type: Point Name: - Easting: 274950 Northing: 199620	Annual Volume (m^3): 36368 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/06/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1936m NW	Status: Historical Licence No: 21/58/74/0017 Details: Mineral Washing Direct Source: EAW Surface Water Point: STREAM WEST OF GILFACH QUARRY, NEATH Data Type: Point Name: CEMEX UK Materials Ltd Easting: 274950 Northing: 199620	Annual Volume (m^3): 36368 Max Daily Volume (m^3): 204.6 Original Application No: - Original Start Date: 01/02/1975 Expiry Date: - Issue No: 101 Version Start Date: 13/06/2008 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.

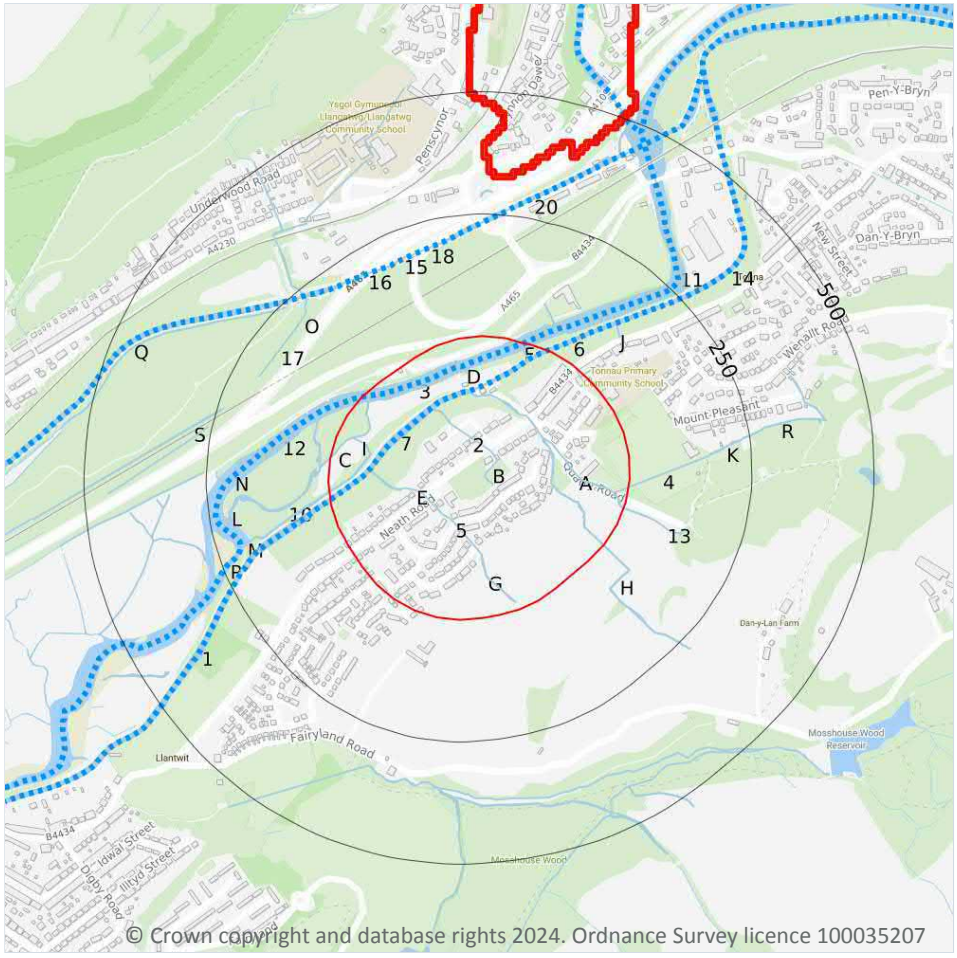
5.10 Source Protection Zones (confined aquifer)

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



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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	90

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 68 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**On site**	**Canal. A manmade watercourse for inland navigation.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Neath Canal**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	Underground	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)	Afon Nedd
4	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	On site	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Neath Canal
7	On site	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Neath Canal
A	On site	Inland river not influenced by normal tidal action.	Underground	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)	-
A	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)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	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
A	**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)**	**-**
A	**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.**	**Underground**	**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)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Afon Nedd**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**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
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Neath Canal
D	On site	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Neath Canal
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	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)	-
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)	-
F	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)	Afon Nedd
F	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
G	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
G	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
G	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**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)**	**-**
I	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
I	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
I	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
I	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Afon Nedd**
C	20m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	20m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	26m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	28m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	28m 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
C	30m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	31m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	48m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	48m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Nedd
F	48m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
12	53m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Nedd
13	54m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
J	107m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	122m NE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Neath Canal
K	161m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	169m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	179m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	180m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Nedd

ID	Location	Type of water feature	Ground level	Permanence	Name
15	188m N	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tennant Canal
16	188m N	Canal. A manmade watercourse for inland navigation.	Underground	Watercourse contains water year round (in normal circumstances)	Tennant Canal
17	192m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	192m N	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tennant Canal
O	197m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
20	200m N	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tennant Canal
M	201m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Nedd
P	202m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Nedd
L	206m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Nedd
O	207m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	209m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	209m NW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tennant Canal
N	225m W	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
O	226m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	227m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	234m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	235m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	235m NW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tennant Canal
R	236m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	239m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	241m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	241m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	244m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	250m NW	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	11

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 68 >**

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 68 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
B	**On site**	**River WB catchment**	**Neath - conf with Nedd Fechan and Mellte to TL**	**GB110058032430**	**Neath**	**Tawe to Cadoxton**

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

6.4 WFD Surface water bodies

Records identified	2

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 68 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
8	**On site**	**River**	**Neath - conf with Nedd Fechan and Mellte to TL**	**GB110058032430**	**Good**	**Good**	**Good**	**2016**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	**On site**	**Canal**	**Neath and Tennant**	**GB71010012**				**2018**

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

6.5 WFD Groundwater bodies

Records on site	**1**

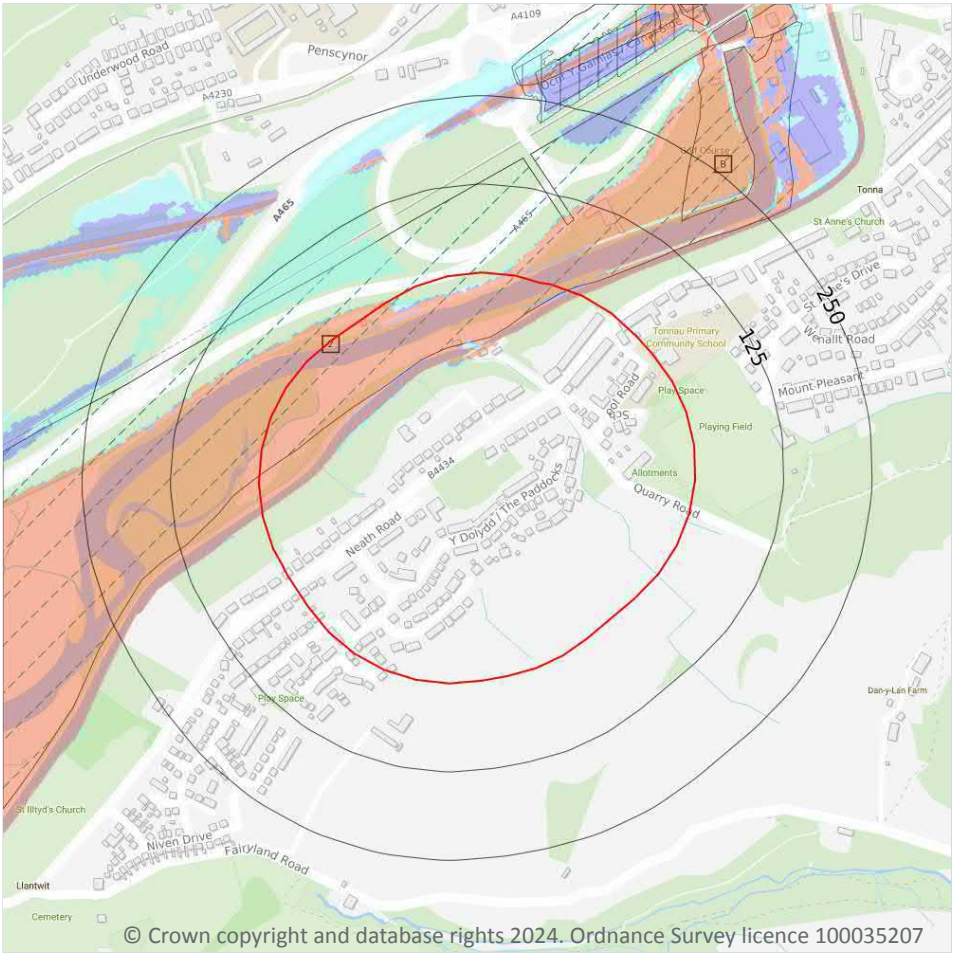
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 68 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
B	**On site**	**Swansea Carboniferous Coal Measures**	**GB41002G201000**	**Poor**	**Poor**	**Good**	**2017**

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

7 River and coastal flooding



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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	1633

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 78 >**

Distance	Flood risk category
On site	**High**
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	**3**

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.

Features are displayed on the River and coastal flooding map on **page 78 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	**On site**	**Neath 1979**	**1979-12-27 1979-12-27**	**Main river**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
B	164m NE	Aberdulais October 1998 01	1998-10-22 1998-10-23	Unknown	Unknown	Fluvial
B	235m N	Aberdulais October 1998 01	1998-10-22 1998-10-23	Unknown	Unknown	Fluvial

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	1

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.

Features are displayed on the River and coastal flooding map on **page 78 >**

ID	Location	
B	218m N	Area benefiting from flood defences

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

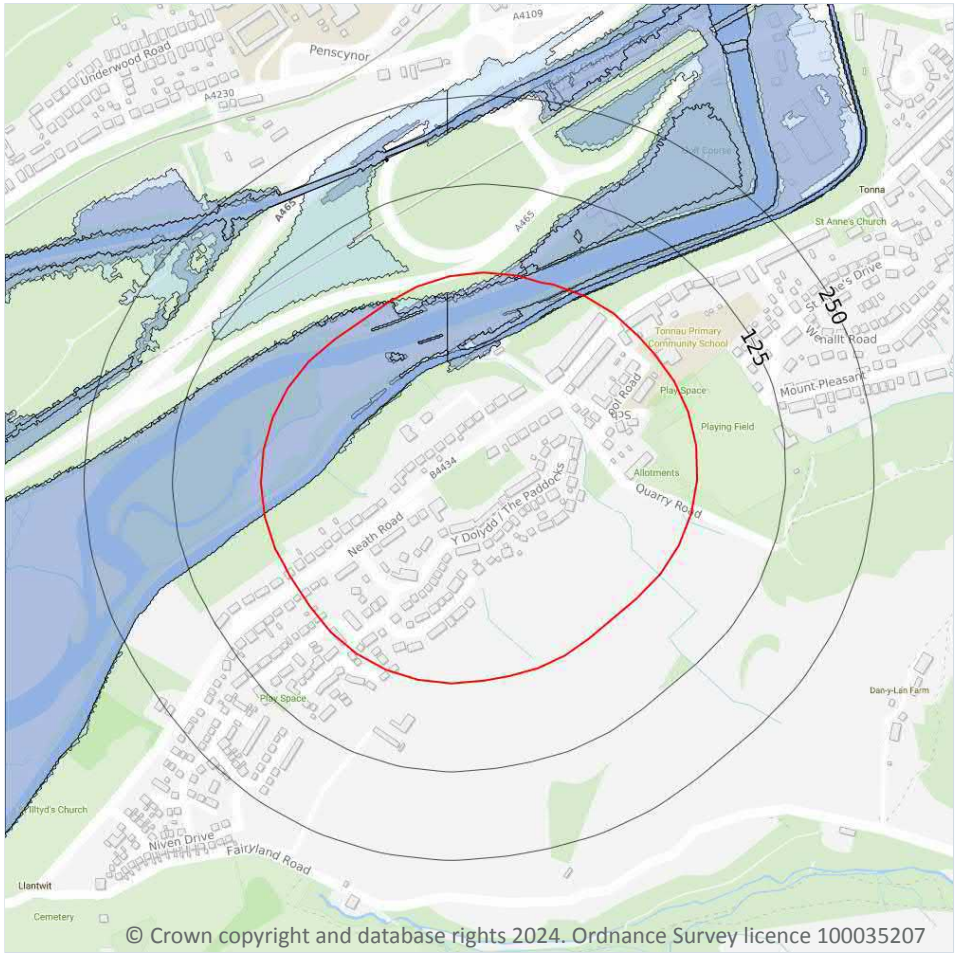
7.5 Flood Storage Areas

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 78 >**

Location	Type
On site	**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

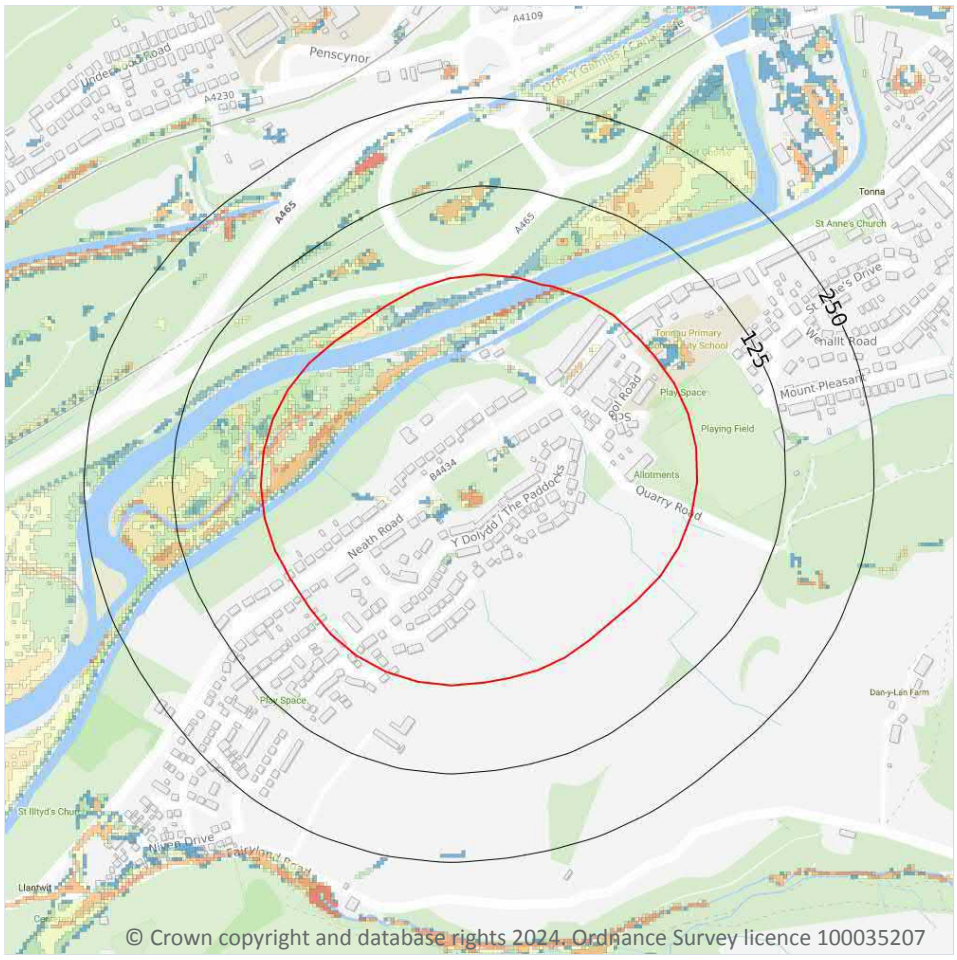
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 78 >**

Location	Type
On site	**Zone 3 - (Fluvial /Tidal Models)**

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

8 Surface water flooding



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 83 >**

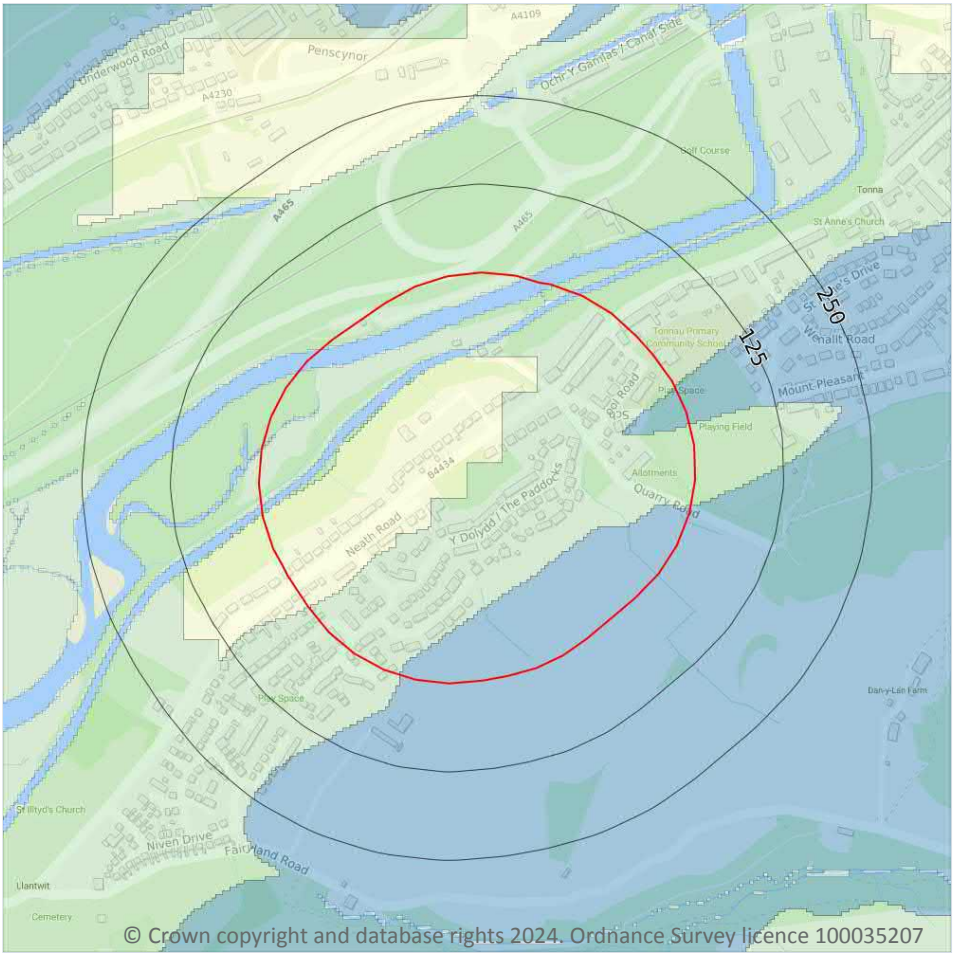
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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 Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

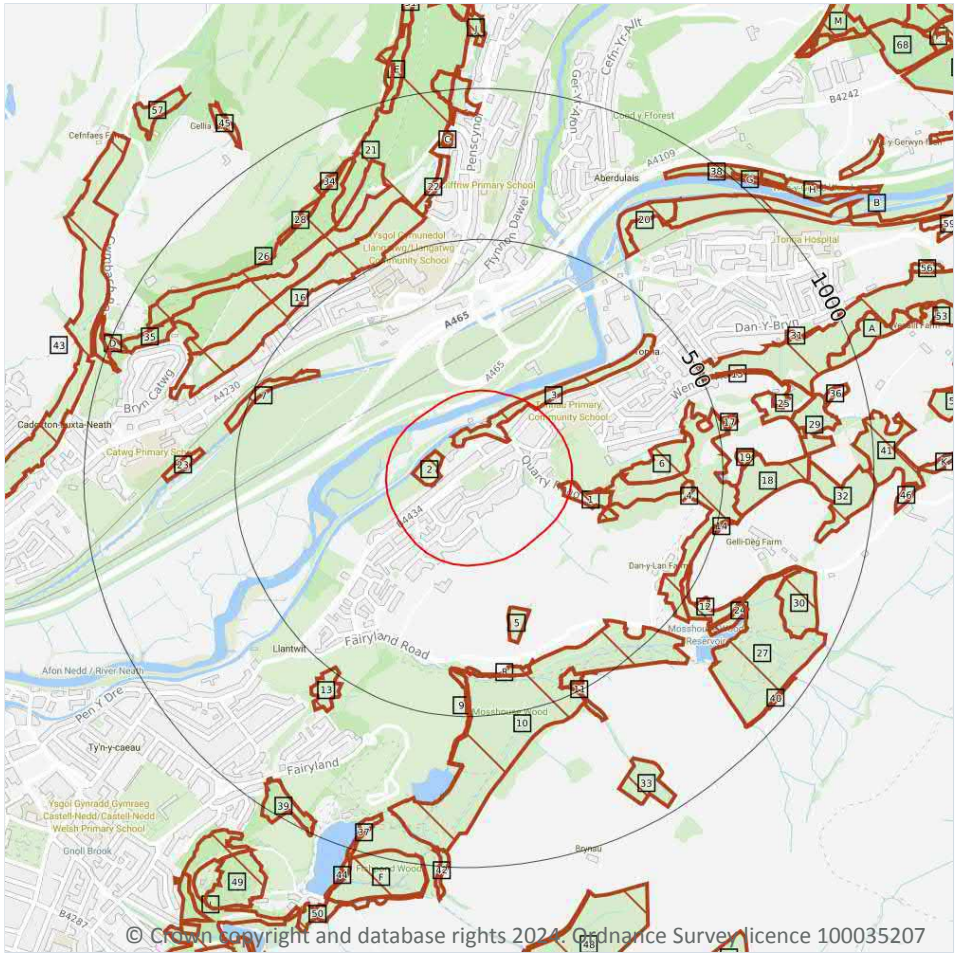
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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 85 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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.

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	133

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 86 >**

ID	Location	Name	Woodland Type
1	**On site**	**Unknown**	**Ancient Semi Natural Woodland**
2	**On site**	**Unknown**	**Restored Ancient Woodland Site**
3	**On site**	**Unknown**	**Ancient Semi Natural Woodland**
4	76m E	Unknown	Restored Ancient Woodland Site
5	159m S	Unknown	Ancient Semi Natural Woodland
6	164m E	Unknown	Restored Ancient Woodland Site
7	335m NW	Unknown	Restored Ancient Woodland Site
8	338m S	Unknown	Plantation on Ancient Woodland Site
9	343m S	Unknown	Plantation on Ancient Woodland Site
10	345m S	Unknown	Plantation on Ancient Woodland Site
11	423m SE	Unknown	Plantation on Ancient Woodland Site
12	458m SE	Unknown	Restored Ancient Woodland Site
13	484m SW	Unknown	Ancient Semi Natural Woodland
14	485m E	Unknown	Ancient Semi Natural Woodland
15	500m NE	Unknown	Restored Ancient Woodland Site
16	502m NW	Unknown	Restored Ancient Woodland Site

ID	Location	Name	Woodland Type
A	504m NE	Unknown	Restored Ancient Woodland Site
17	521m E	Unknown	Ancient Semi Natural Woodland
18	541m E	Unknown	Plantation on Ancient Woodland Site
19	545m E	Unknown	Plantation on Ancient Woodland Site
20	583m NE	Unknown	Ancient Semi Natural Woodland
21	596m NW	Unknown	Plantation on Ancient Woodland Site
22	602m N	Unknown	Plantation on Ancient Woodland Site
23	608m W	Unknown	Ancient Semi Natural Woodland
24	624m SE	Unknown	Restored Ancient Woodland Site
25	632m E	Unknown	Restored Ancient Woodland Site
26	638m NW	Unknown	Restored Ancient Woodland Site
27	671m SE	Unknown	Restored Ancient Woodland Site
28	737m NW	Unknown	Restored Ancient Woodland Site
B	738m NE	Unknown	Restored Ancient Woodland Site
29	742m E	Unknown	Restored Ancient Woodland Site
30	760m E	Unknown	Plantation on Ancient Woodland Site
31	777m NE	Unknown	Restored Ancient Woodland Site
32	779m E	Unknown	Restored Ancient Woodland Site
33	781m SE	Unknown	Restored Ancient Woodland Site
34	793m NW	Unknown	Restored Ancient Woodland Site
C	816m N	Unknown	Plantation on Ancient Woodland Site
35	825m NW	Unknown	Ancient Semi Natural Woodland
36	858m E	Unknown	Restored Ancient Woodland Site
37	861m S	Unknown	Plantation on Ancient Woodland Site
38	872m NE	Unknown	Plantation on Ancient Woodland Site
C	887m N	Unknown	Plantation on Ancient Woodland Site
39	897m SW	Unknown	Ancient Semi Natural Woodland
A	908m E	Unknown	Plantation on Ancient Woodland Site

ID	Location	Name	Woodland Type
C	912m N	Unknown	Ancient Woodland Site of Unknown Category
40	925m SE	Unknown	Restored Ancient Woodland Site
41	933m E	Unknown	Plantation on Ancient Woodland Site
D	938m W	Unknown	Ancient Semi Natural Woodland
42	939m S	Unknown	Ancient Semi Natural Woodland
D	940m W	Unknown	Ancient Semi Natural Woodland
C	957m N	Unknown	Ancient Woodland Site of Unknown Category
E	962m N	Unknown	Ancient Woodland Site of Unknown Category
F	968m S	Unknown	Restored Ancient Woodland Site
F	978m S	Unknown	Restored Ancient Woodland Site
G	1000m NE	Unknown	Ancient Semi Natural Woodland
E	1015m N	Unknown	Ancient Woodland Site of Unknown Category
43	1031m W	Unknown	Ancient Semi Natural Woodland
44	1032m S	Unknown	Ancient Semi Natural Woodland
D	1036m W	Unknown	Ancient Semi Natural Woodland
C	1047m N	Unknown	Plantation on Ancient Woodland Site
H	1053m NE	Unknown	Restored Ancient Woodland Site
G	1062m NE	Unknown	Plantation on Ancient Woodland Site
45	1072m NW	Unknown	Plantation on Ancient Woodland Site
46	1075m E	Unknown	Plantation on Ancient Woodland Site
I	1114m SW	Unknown	Ancient Semi Natural Woodland
E	1118m N	Unknown	Restored Ancient Woodland Site
47	1135m S	Unknown	Restored Ancient Woodland Site
48	1137m S	Unknown	Restored Ancient Woodland Site
H	1141m NE	Unknown	Restored Ancient Woodland Site
J	1141m N	Unknown	Plantation on Ancient Woodland Site
49	1142m SW	Unknown	Restored Ancient Woodland Site
K	1150m E	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
K	1151m E	Unknown	Restored Ancient Woodland Site
50	1176m S	Unknown	Ancient Semi Natural Woodland
51	1196m N	Unknown	Restored Ancient Woodland Site
52	1201m E	Unknown	Restored Ancient Woodland Site
53	1209m E	Unknown	Restored Ancient Woodland Site
54	1228m N	Unknown	Restored Ancient Woodland Site
J	1242m N	Unknown	Ancient Semi Natural Woodland
55	1243m E	Unknown	Ancient Semi Natural Woodland
B	1253m NE	Unknown	Restored Ancient Woodland Site
56	1263m NE	Unknown	Restored Ancient Woodland Site
B	1276m NE	Unknown	Ancient Woodland Site of Unknown Category
57	1281m NW	Unknown	Ancient Semi Natural Woodland
I	1328m SW	Unknown	Ancient Semi Natural Woodland
-	1362m S	Unknown	Plantation on Ancient Woodland Site
59	1374m NE	Unknown	Restored Ancient Woodland Site
L	1385m S	Unknown	Restored Ancient Woodland Site
-	1405m S	Unknown	Restored Ancient Woodland Site
61	1408m SW	Unknown	Ancient Semi Natural Woodland
-	1416m N	Unknown	Ancient Semi Natural Woodland
-	1434m E	Unknown	Ancient Semi Natural Woodland
M	1452m NE	Unknown	Restored Ancient Woodland Site
M	1453m NE	Unknown	Restored Ancient Woodland Site
64	1455m SE	Unknown	Restored Ancient Woodland Site
M	1459m NE	Unknown	Ancient Semi Natural Woodland
-	1467m NE	Unknown	Plantation on Ancient Woodland Site
M	1559m NE	Unknown	Plantation on Ancient Woodland Site
66	1561m NE	Unknown	Ancient Semi Natural Woodland
-	1574m N	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
-	1586m S	Unknown	Restored Ancient Woodland Site
68	1627m NE	Unknown	Plantation on Ancient Woodland Site
M	1631m NE	Unknown	Ancient Semi Natural Woodland
69	1633m NE	Unknown	Restored Ancient Woodland Site
-	1635m E	Unknown	Ancient Semi Natural Woodland
M	1659m NE	Unknown	Restored Ancient Woodland Site
N	1659m NE	Unknown	Plantation on Ancient Woodland Site
-	1668m N	Unknown	Ancient Semi Natural Woodland
-	1668m E	Unknown	Restored Ancient Woodland Site
-	1668m N	Unknown	Ancient Semi Natural Woodland
-	1674m E	Unknown	Ancient Semi Natural Woodland
-	1679m NE	Unknown	Restored Ancient Woodland Site
-	1707m E	Unknown	Restored Ancient Woodland Site
-	1729m N	Unknown	Ancient Semi Natural Woodland
-	1744m S	Unknown	Restored Ancient Woodland Site
P	1754m NE	Unknown	Restored Ancient Woodland Site
P	1759m NE	Unknown	Restored Ancient Woodland Site
-	1778m N	Unknown	Ancient Semi Natural Woodland
-	1786m NE	Unknown	Ancient Semi Natural Woodland
77	1808m NE	Unknown	Plantation on Ancient Woodland Site
78	1835m NE	Unknown	Ancient Semi Natural Woodland
-	1857m NE	Unknown	Ancient Semi Natural Woodland
-	1866m S	Unknown	Ancient Semi Natural Woodland
-	1888m NE	Unknown	Restored Ancient Woodland Site
-	1897m NE	Unknown	Ancient Semi Natural Woodland
-	1903m N	Unknown	Ancient Semi Natural Woodland
-	1903m NE	Unknown	Plantation on Ancient Woodland Site
-	1906m S	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
-	1925m NE	Unknown	Ancient Semi Natural Woodland
-	1941m NW	Unknown	Plantation on Ancient Woodland Site
-	1945m NE	Unknown	Restored Ancient Woodland Site
-	1952m NE	Unknown	Ancient Semi Natural Woodland
-	1966m NE	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	0

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.

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.

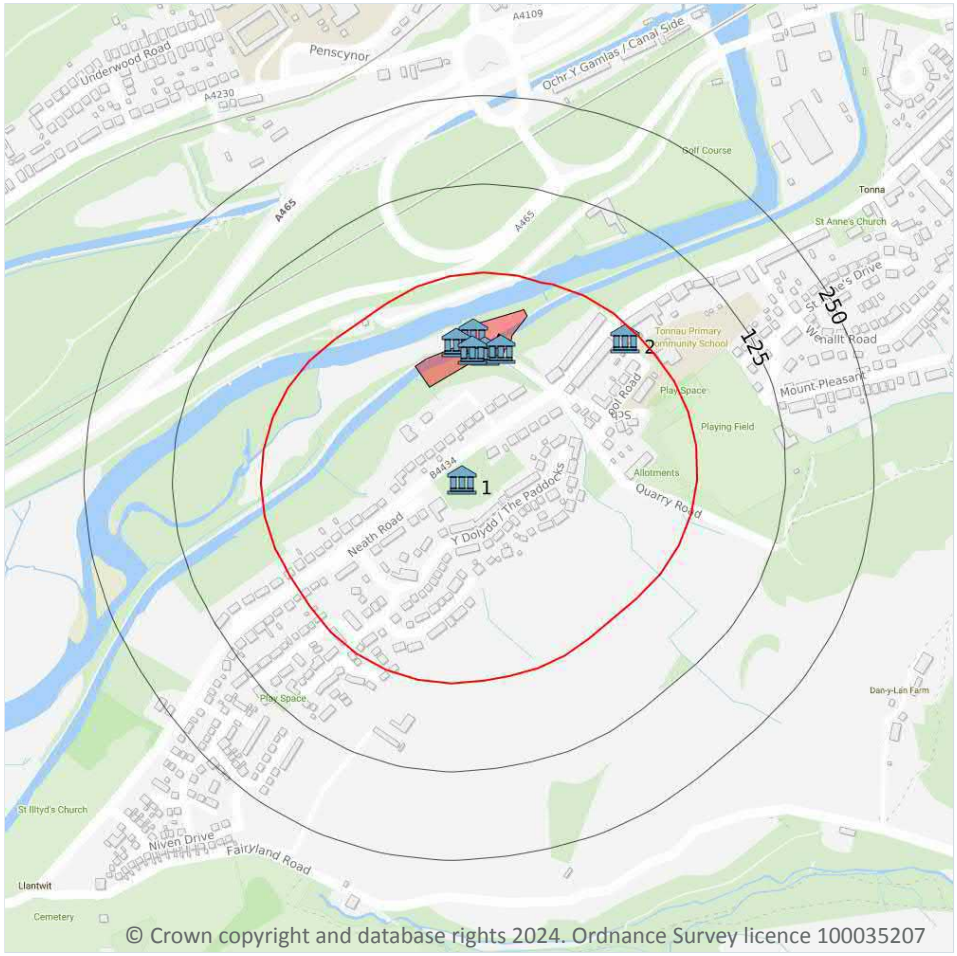
10.18 SSSI Units

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



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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	7

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 97 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	**On site**	**Tyn Yr Heol, Set Back From The Main B4434 Through The Village 0.7km Sw Of Tonna Church. In Its Own Grounds With Rubble Boundary Wall And Stone Gate-Piers To The Drive.**	**II**	**15844**	**02/11/1993**
2	**On site**	**Nazareth Chapel, On The S Side Of The Main B4434 Through The Village On The E Side Of The Junction With School Road, And Set Back From The Main Road Behind A Railed Forecourt.**	**II**	**22864**	**25/02/2000**

ID	Location	Name	Grade	Reference Number	Listed date
A	**On site**	**Wood Seasoning Shed & Saw Pit At Neath Canal Depot, On The N Side Of The Neath Canal Opposite Lock House And Facing A Small Yard.**	**II**	**11841**	**28/03/1980**
A	**On site**	**Stable At Neath Canal Depot, On The E Side And In The Garden Of Lock House On The S Side Of The Neath Canal.**	**II**	**22865**	**25/02/2000**
A	**On site**	**Workshop, Store And Smithy At Neath Canal Depot, On The N Side Of The Neath Canal Almost Opposite Lock House And Facing A Small Yard On The E Side.**	**II**	**22866**	**25/02/2000**
A	**On site**	**Lock House, On The S Side Of The Neath Canal Facing The Lock. The House Backs On To And Stands At The Foot Of Lock Hill On The N Side Of Henfaes Road.**	**II**	**22867**	**25/02/2000**
A	**On site**	**Lock And Overbridge At Neath Canal Depot, On The N Side Of Lock House At The Foot Of Lock Hill.**	**II**	**22872**	**25/02/2000**

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

11.5 Conservation Areas

Records within 250m	**1**

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.

Features are displayed on the Visual and cultural designations map on **page 97 >**

ID	Location	Name	District	Date of designation
A	**On site**	**Tonna Canal Depot**	**NEATH PORT TALBOT**	**1980-12-04**

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

11.6 Scheduled Ancient Monuments

Records within 250m	**0**

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.

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

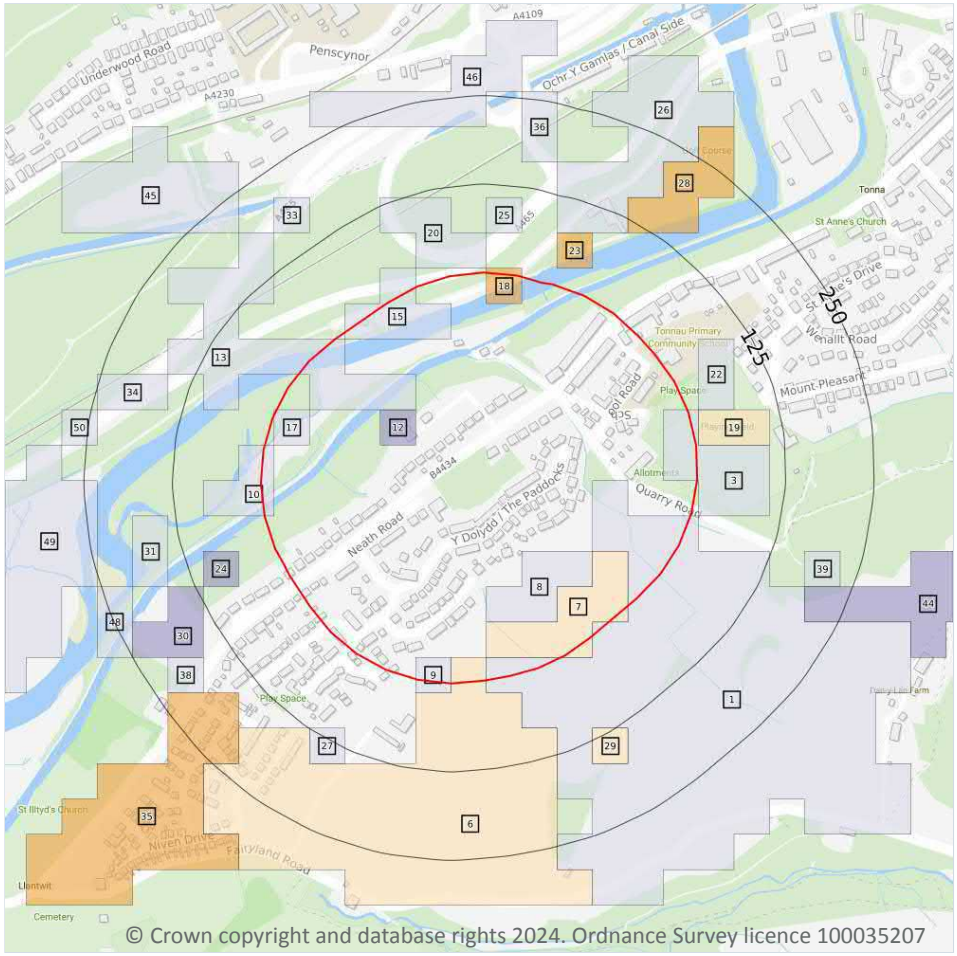
11.7 Registered Parks and Gardens

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



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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	36

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 101** >

ID	Location	Classification	Description
1	**On site**	**Grade 3b**	**Moderate quality agricultural land**
3	**On site**	**Grade 3b**	**Moderate quality agricultural land**
6	**On site**	**Grade 3a**	**Good to moderate quality agricultural land**

ID	Location	Classification	Description
7	**On site**	**Grade 3a**	**Good to moderate quality agricultural land**
8	**On site**	**Grade 3b**	**Moderate quality agricultural land**
9	**On site**	**Grade 3b**	**Moderate quality agricultural land**
10	**On site**	**Grade 3b**	**Moderate quality agricultural land**
12	**On site**	**Grade 4**	**Poor quality agricultural land**
13	**On site**	**Grade 3b**	**Moderate quality agricultural land**
15	**On site**	**Grade 3b**	**Moderate quality agricultural land**
17	**On site**	**Grade 3b**	**Moderate quality agricultural land**
18	**On site**	**Grade 2**	**Good quality agricultural land**
19	4m E	Grade 3a	Good to moderate quality agricultural land
20	6m N	Grade 3b	Moderate quality agricultural land
22	15m E	Grade 3b	Moderate quality agricultural land
23	24m N	Grade 2	Good quality agricultural land
24	50m W	Grade 4	Poor quality agricultural land
25	56m N	Grade 3b	Moderate quality agricultural land
26	73m N	Grade 3b	Moderate quality agricultural land
27	100m SW	Grade 3b	Moderate quality agricultural land
28	108m NE	Grade 2	Good quality agricultural land
29	109m SE	Grade 3a	Good to moderate quality agricultural land
30	115m W	Grade 4	Poor quality agricultural land
31	136m W	Grade 3b	Moderate quality agricultural land
33	144m NW	Grade 3b	Moderate quality agricultural land
34	145m W	Grade 3b	Moderate quality agricultural land
35	155m SW	Grade 2	Good quality agricultural land
36	160m N	Grade 3b	Moderate quality agricultural land
38	165m SW	Grade 3b	Moderate quality agricultural land
39	169m E	Grade 3b	Moderate quality agricultural land
44	187m E	Grade 4	Poor quality agricultural land

ID	Location	Classification	Description
45	203m NW	Grade 3b	Moderate quality agricultural land
46	206m N	Grade 3b	Moderate quality agricultural land
48	208m W	Grade 3b	Moderate quality agricultural land
49	231m W	Grade 3b	Moderate quality agricultural land
50	235m W	Grade 3b	Moderate quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m	0

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.

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.

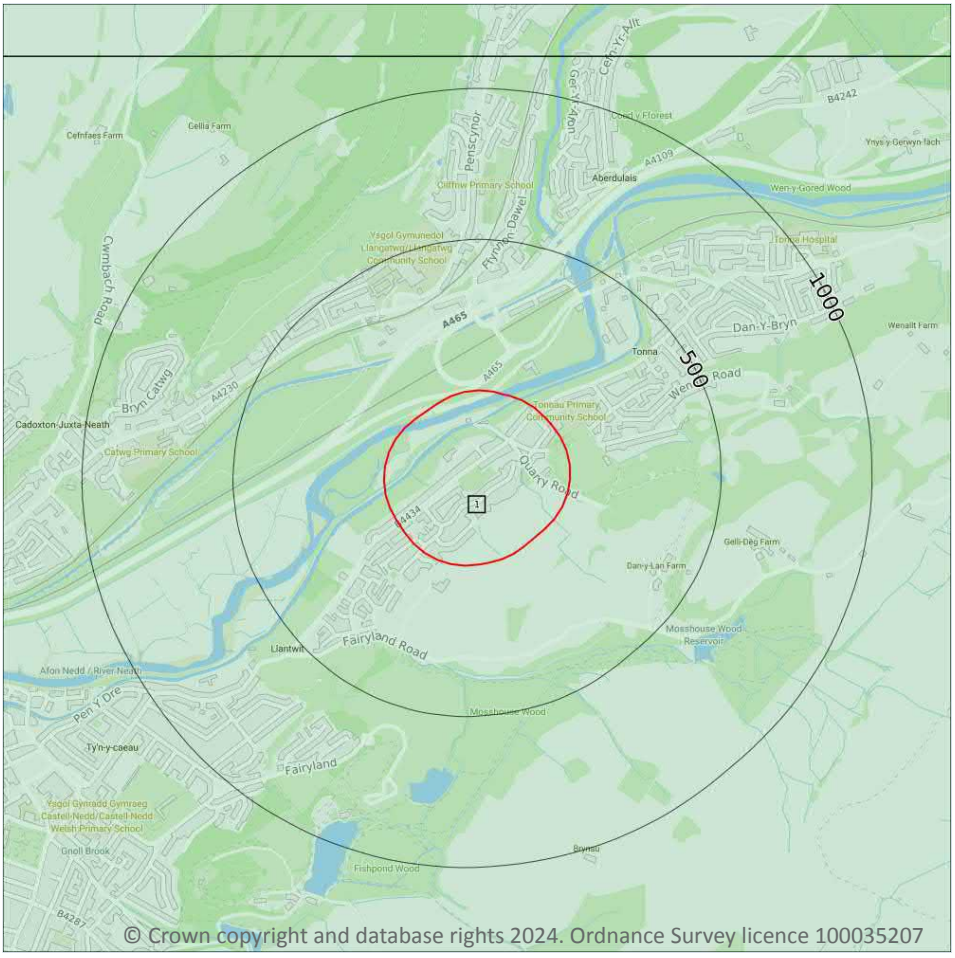
13.4 Limestone Pavement Orders

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	1

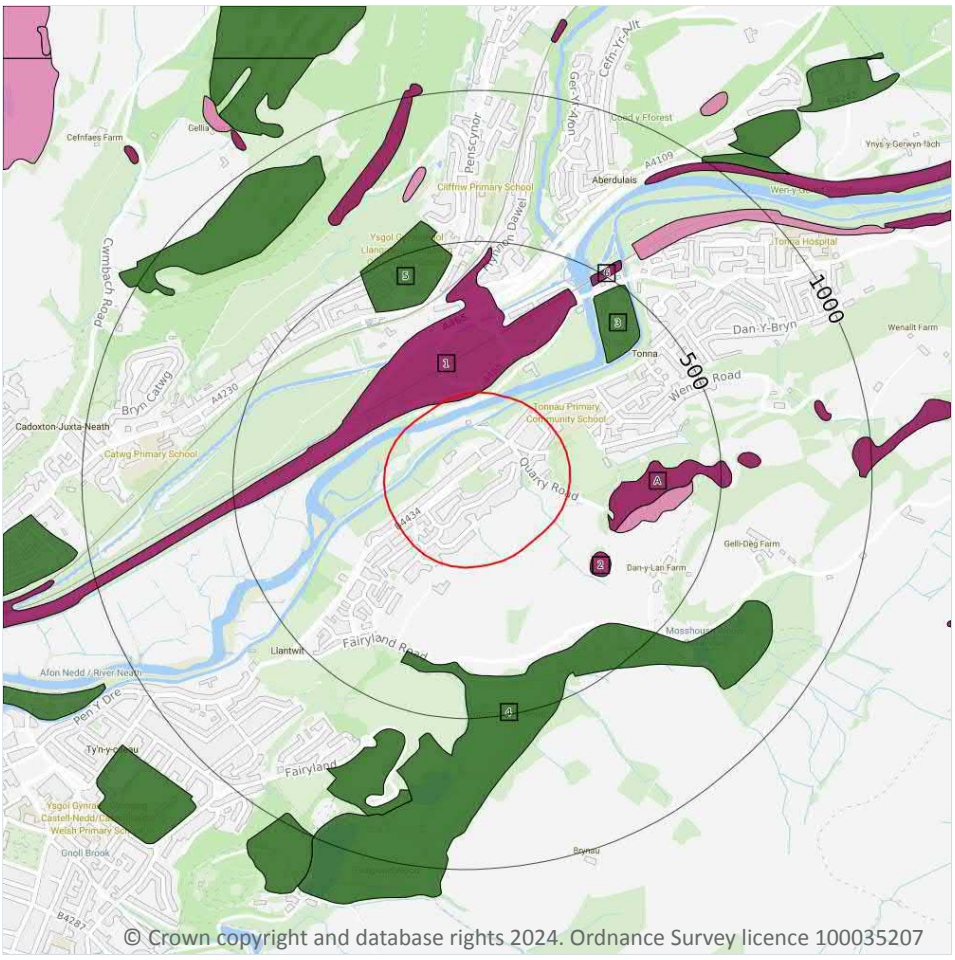
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 106 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SS79NE**

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

14.2 Artificial and made ground (10k)

Records within 500m	8

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.

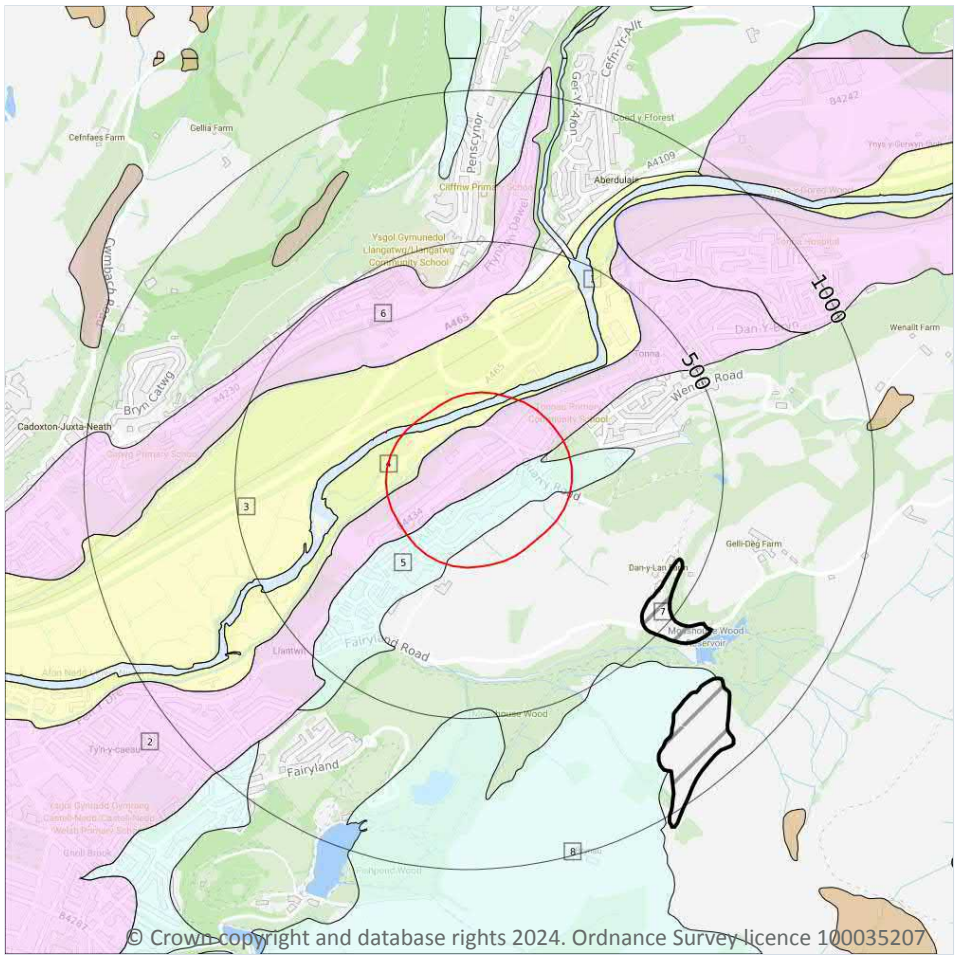
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 107 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	140m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	174m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	187m E	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
3	278m NE	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
4	311m S	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
5	328m N	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
6	451m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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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	7

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 109 >**

ID	Location	LEX Code	Description	Rock description
1	On site	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
2	On site	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
5	**On site**	**TILLD-DMTN**	**Till, Devensian - Diamicton**	**Diamicton**
6	190m N	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
8	468m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	**1**

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 109 >**

ID	Location	LEX Code	Description	Rock description
7	403m SE	SLIP-UKNOWN	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	23

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 111 >**

ID	Location	LEX Code	Description	Rock age
1	On site	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
2	On site	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
3	On site	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
4	On site	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age

ID	Location	LEX Code	Description	Rock age
5	**On site**	**RA-MDSS**	**Rhondda Member - Mudstone, Siltstone And Sandstone**	**Westphalian D Sub-age - Bolsovian Sub-age**
8	22m NE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
9	58m SE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
10	71m NE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
13	101m SE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
15	157m SE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
17	194m NE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
18	249m SE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
19	267m NE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
21	277m SE	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
23	279m NE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
24	289m SE	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age
26	338m E	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
28	383m SE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
30	414m E	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age
32	440m E	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
33	495m SE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
34	497m NW	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
35	497m SE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**12**

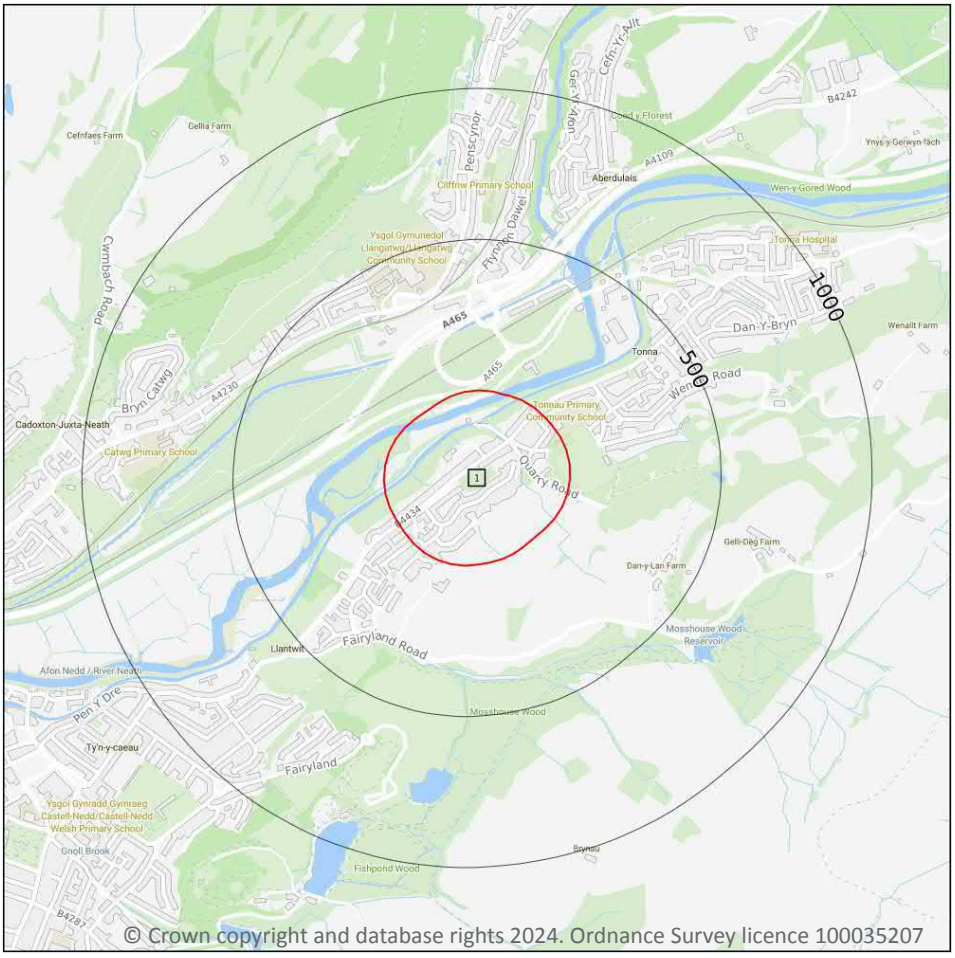
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 111 >**

ID	Location	Category	Description
6	**On site**	**ROCK**	**Coal seam, inferred (THIN COAL (BELIEVED BdR))**
7	**On site**	**FAULT**	**Normal fault, inferred**
11	71m NE	ROCK	Coal seam, inferred (THIN COAL (BELIEVED BdR))
12	85m SE	ROCK	Coal seam, inferred (GLYNGWILYM)
14	150m S	FAULT	Normal fault, inferred
16	170m SE	ROCK	Coal seam, inferred ()
20	267m NE	FAULT	Normal fault, inferred
22	277m SE	ROCK	Coal seam, inferred (WENALLT)
25	305m NE	ROCK	Coal seam, inferred (THIN COAL (BELIEVED BdR))
27	362m S	FAULT	Normal fault, inferred
29	383m SE	FAULT	Normal fault, inferred
31	414m E	ROCK	Coal seam, inferred (GARLANT)

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	1

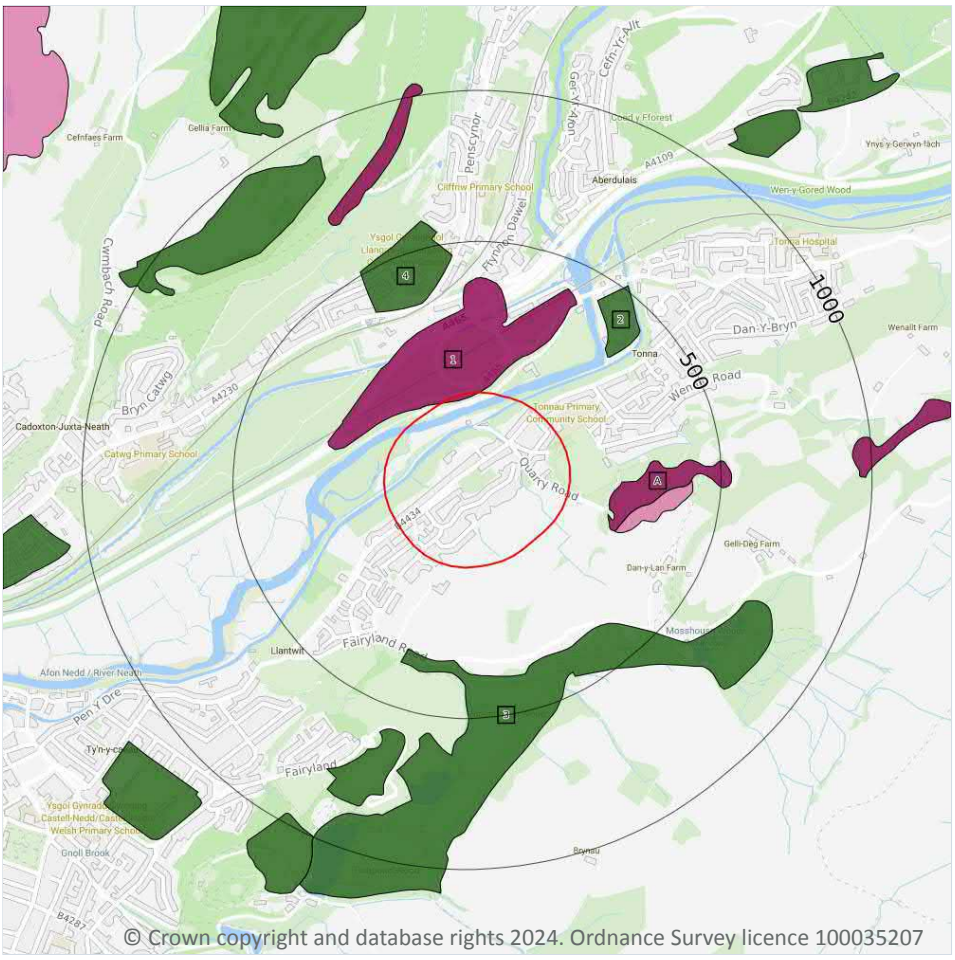
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 114 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW247_swansea_v4**

This data is sourced from the British Geological Survey.

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



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Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	6

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.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 115 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**MADE GROUND (UNDIVIDED)**	**ARTIFICIAL DEPOSIT**
A	140m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
A	187m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	293m NE	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND

ID	Location	LEX Code	Description	Rock description
3	304m S	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
4	328m N	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

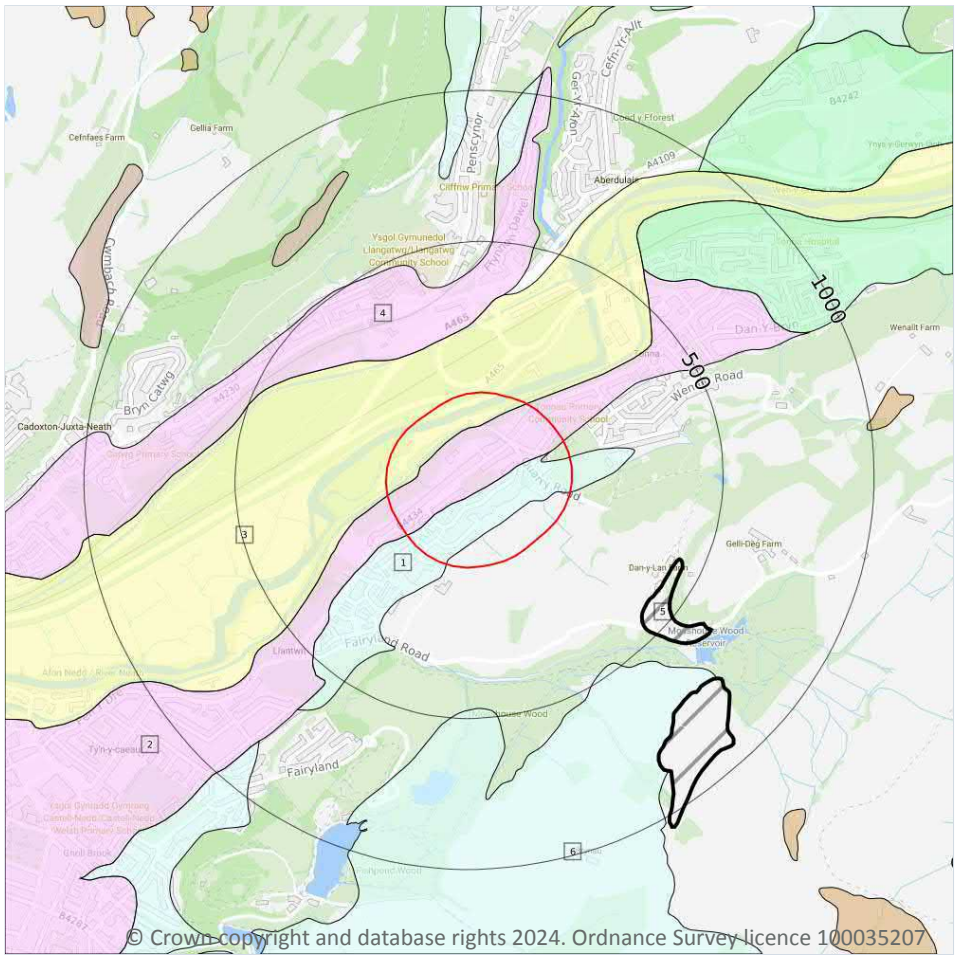
Records within 50m	**1**

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).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Very High**	**Low**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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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	5

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 117 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
2	**On site**	**GFSDD-XSV**	**GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN**	**SAND AND GRAVEL**
3	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**

ID	Location	LEX Code	Description	Rock description
4	190m N	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
6	468m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	3

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	**Intergranular**	**High**	**Very Low**
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**Very High**	**High**

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	1

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 117 >**

ID	Location	LEX Code	Description	Rock description
5	403m SE	SLIP-UKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

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	21

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 119 >**

ID	Location	LEX Code	Description	Rock age
1	On site	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
2	On site	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	On site	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	**On site**	**BD-SDST**	**BRITHDIR MEMBER - SANDSTONE**	**WESTPHALIAN**
5	**On site**	**BD-SDST**	**BRITHDIR MEMBER - SANDSTONE**	**WESTPHALIAN**
9	22m NE	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
10	51m SE	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	71m NE	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	157m SE	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	189m NE	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
18	232m SE	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	267m NE	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
21	275m NE	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	277m SE	H-MDSS	HUGHES MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
24	305m NE	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
27	383m SE	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
29	414m E	H-SDST	HUGHES MEMBER - SANDSTONE	WESTPHALIAN
31	481m E	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
32	486m SE	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
33	495m SE	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
35	497m NW	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

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**	**High**	**Moderate**
On site	**Fracture**	**Moderate**	**Low**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	14

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.

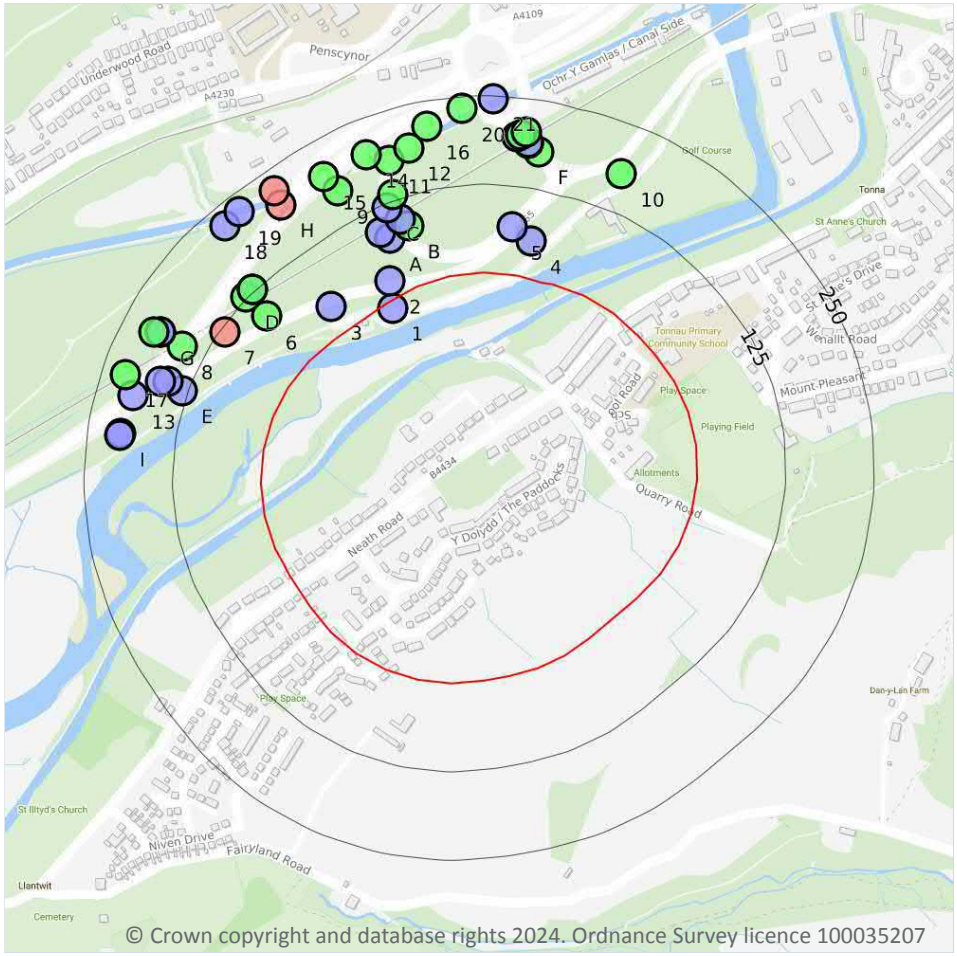
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 119 >**

ID	Location	Category	Description
6	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
7	**On site**	**ROCK**	**Coal seam, inferred**
8	16m SW	ROCK	Coal seam, inferred
12	71m NE	ROCK	Coal seam, inferred
13	85m SE	ROCK	Coal seam, inferred
14	150m S	FAULT	Fault, inferred, displacement unknown
16	176m SE	ROCK	Coal seam, inferred
20	267m NE	FAULT	Fault, inferred, displacement unknown
23	277m SE	ROCK	Coal seam, inferred
25	305m NE	ROCK	Coal seam, inferred
26	362m S	FAULT	Fault, inferred, displacement unknown
28	383m SE	FAULT	Fault, inferred, displacement unknown
30	414m E	ROCK	Coal seam, inferred

ID	Location	Category	Description
34	496m N	ROCK	Coal seam, inferred

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	46

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 123 >**

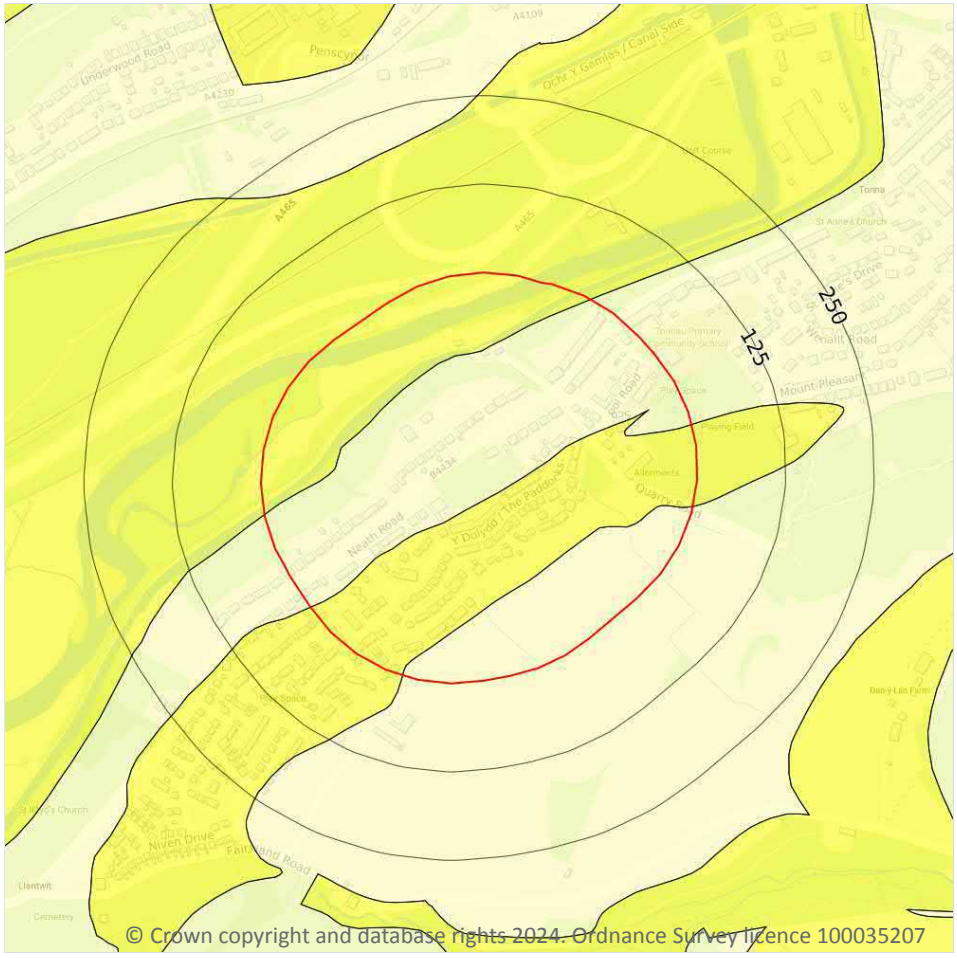
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	**On site**	**276817 198844**	**A465 ABERDULAIS SLIP ROADS 68**	**10.0**	**N**	**371169** ↗
2	25m NW	276814 198882	A465 ABERDULAIS SLIP ROADS 67	10.0	N	371168 ↗
3	41m NW	276731 198846	A465 ABERDULAIS SLIP ROADS 66	10.0	N	371167 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	52m N	277013 198938	A465 ABERDULAIS SLIP ROADS 73	10.0	N	371171 ↗
5	68m N	276986 198959	A465 ABERDULAIS SLIP ROADS 72	10.0	N	371170 ↗
A	78m N	276814 198942	A465 ABERDULAIS SLIP ROADS 74	8.5	N	371172 ↗
B	86m N	276840 198960	A465 ABERDULAIS SLIP ROADS 75	15.0	N	371173 ↗
6	88m NW	276639 198832	A465 ABERDULAIS SLIP ROADS 65	15.45	N	371166 ↗
A	93m N	276800 198951	A465 ABERDULAIS SLIP ROADS TP 1	2.0	N	371182 ↗
B	97m N	276829 198969	A465 ABERDULAIS SLIP ROADS TP 2	2.0	N	371183 ↗
7	119m NW	276580 198810	A465 ADDITIONAL BOREHOLES 47	38.0	N	371221 ↗
C	120m N	276810 198986	A465 ABERDULAIS SLIP ROADS TP 3	1.45	N	371184 ↗
D	128m NW	276610 198860	A465 ABERDULAIS - GLYNNEATH 3	24.2	N	371214 ↗
D	129m NW	276620 198870	NEATH-ABERGAVENNY TRUNK RD (A465) ROUTE 'J' 9A	2.8	N	371029 ↗
D	129m NW	276620 198870	ROBERTSON RESEARCH 9	15.24	N	371018 ↗
E	134m W	276520 198727	A465 ABERDULAIS SLIP ROADS 63	10.0	N	371165 ↗
C	134m N	276818 199004	A465 ABERDULAIS SLIP ROADS 77	22.85	N	371174 ↗
E	157m W	276500 198740	ROBERTSON RESEARCH. TRIAL PIT NO.7	3.05	N	371016 ↗
8	160m NW	276520 198790	A465 ADDITIONAL BOREHOLES 51	20.0	N	371225 ↗
E	166m W	276490 198740	A465 ABERDULAIS - GLYNNEATH 1	5.0	N	371213 ↗
9	173m NW	276740 199010	A465 ABERDULAIS - GLYNNEATH 33	20.0	N	371218 ↗
F	178m N	277024 199065	A465 NEATH TRUNK ROAD. 9	17.95	N	371098 ↗
10	181m NE	277141 199034	A465 NEATH TRUNK ROAD. 10	15.0	N	371099 ↗
11	182m N	276812 199052	A465 ABERDULAIS SLIP ROADS 78	25.0	N	371175 ↗
F	188m N	277009 199077	A465 NEATH TRUNK ROAD. 3	12.15	N	371092 ↗
F	189m N	277009 199078	A465 NEATH TRUNK ROAD. 3A	7.8	N	371093 ↗
12	190m N	276840 199070	NURSERY BOREHOLES 40	25.0	N	371200 ↗
F	196m N	276993 199086	A465 NEATH TRUNK ROAD. 1	5.25	N	371089 ↗
G	196m NW	276490 198810	NEATH-ABERGAVENNY TRUNK RD (A465) ROUTE 'J' 39A	2.56	N	371030 ↗
G	196m NW	276490 198810	ROBERTSON RESEARCH 124, H.A 39	3.35	N	371017 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
F	198m N	276998 199088	A465 NEATH TRUNK ROAD. 1A	11.2	N	371090 ↗
13	199m W	276450 198720	ROBERTSON RESEARCH. 37	8.23	N	371015 ↗
14	199m N	276780 199060	A465 ADDITIONAL BOREHOLES 48	25.0	N	371222 ↗
H	200m NW	276660 198990	A465 ADDITIONAL BOREHOLES 49	52.0	N	371223 ↗
15	200m NW	276720 199030	A465 ADDITIONAL BOREHOLES 50	26.8	N	371224 ↗
I	203m W	276433 198666	A465 ABERDULAIS SLIP ROADS 84	4.0	N	371180 ↗
F	204m N	277006 199093	A465 NEATH TRUNK ROAD. 2	18.0	N	371091 ↗
I	204m W	276432 198664	A465 ABERDULAIS SLIP ROADS 84A	10.0	N	371181 ↗
G	205m NW	276480 198810	A465 ADDITIONAL BOREHOLES 45	25.9	N	371219 ↗
16	215m N	276866 199101	A465 ABERDULAIS SLIP ROADS 80	15.0	N	371176 ↗
17	217m W	276440 198750	A465 ABERDULAIS - GLYNNEATH 32	30.0	N	371217 ↗
H	222m NW	276650 199010	NURSERY BOREHOLES 39	40.2	N	371199 ↗
18	223m NW	276580 198960	ROBERTSON RESEARCH 30	7.62	N	371019 ↗
19	226m NW	276600 198980	ROBERTSON RESEARCH. H.A.B	2.44	N	371020 ↗
20	234m N	276916 199126	A465 ABERDULAIS SLIP ROADS 81	25.0	N	371177 ↗
21	247m N	276960 199140	ROBERTSON RESEARCH. 31	5.49	N	371021 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	2

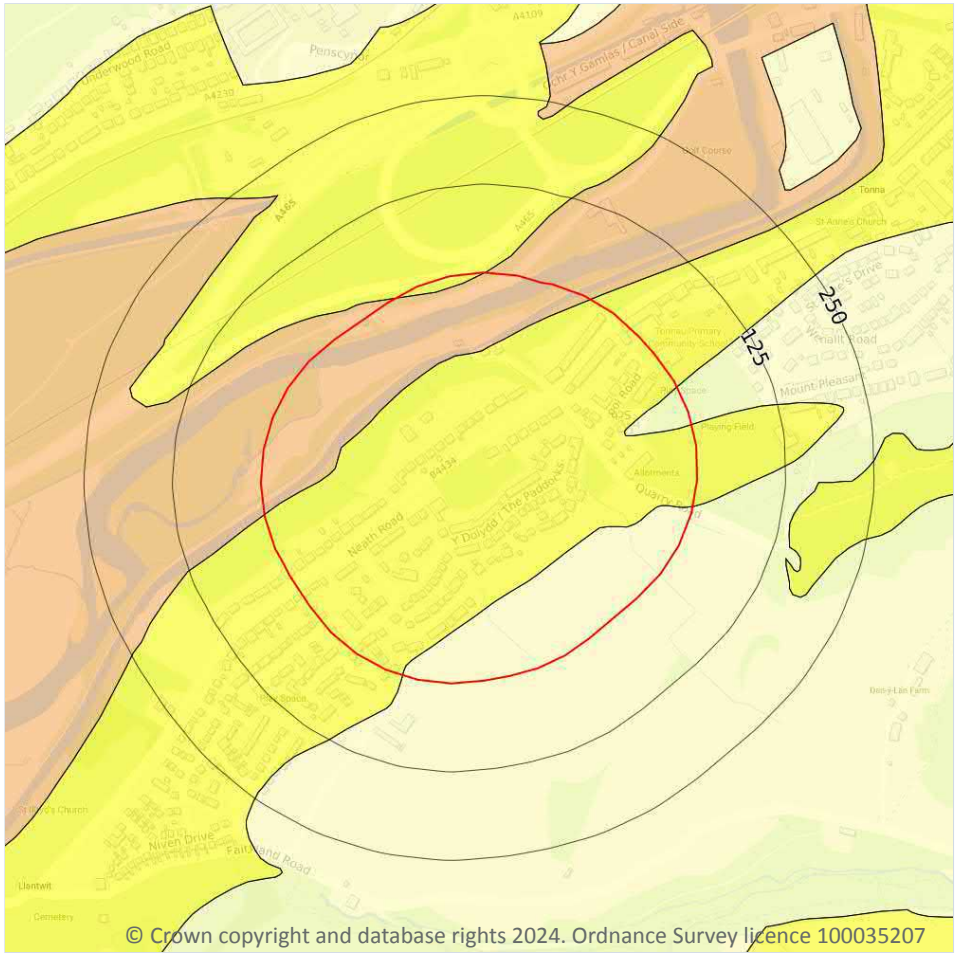
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 126 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	3

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.

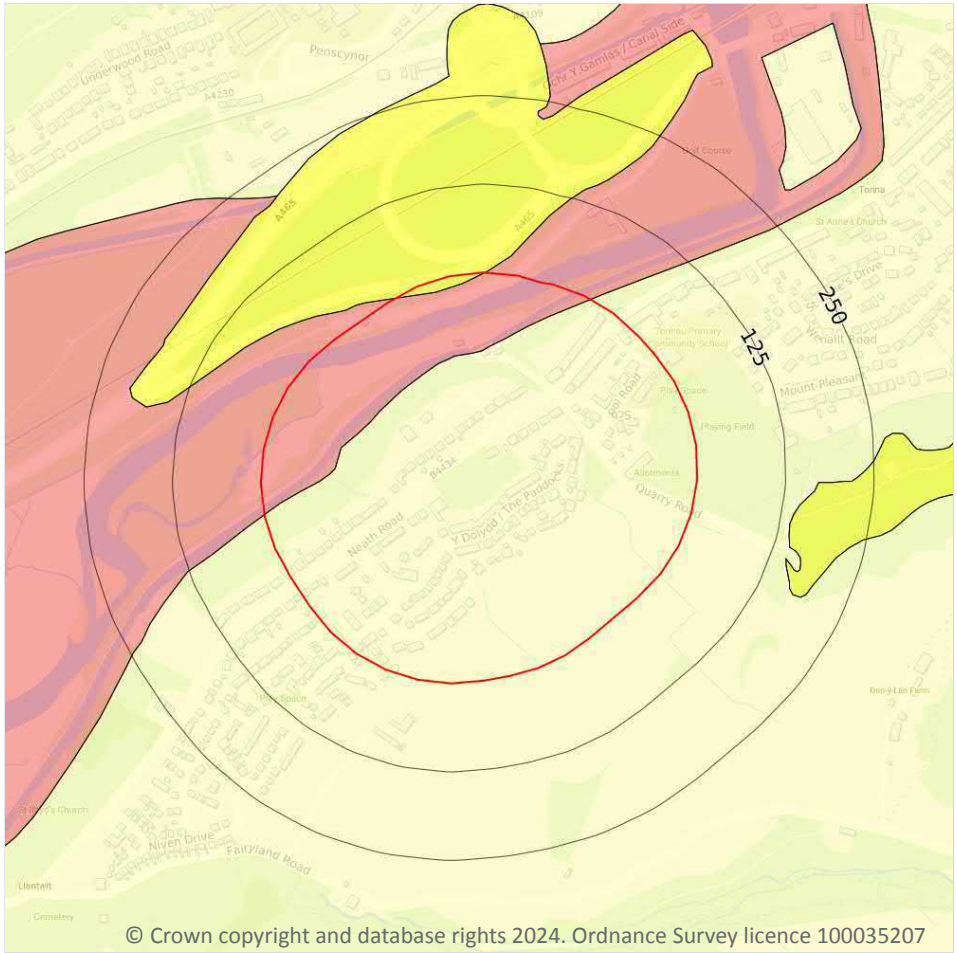
Features are displayed on the Natural ground subsidence - Running sands map on **page 127 >**

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.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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17.3 Compressible deposits

Records within 50m	3

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.

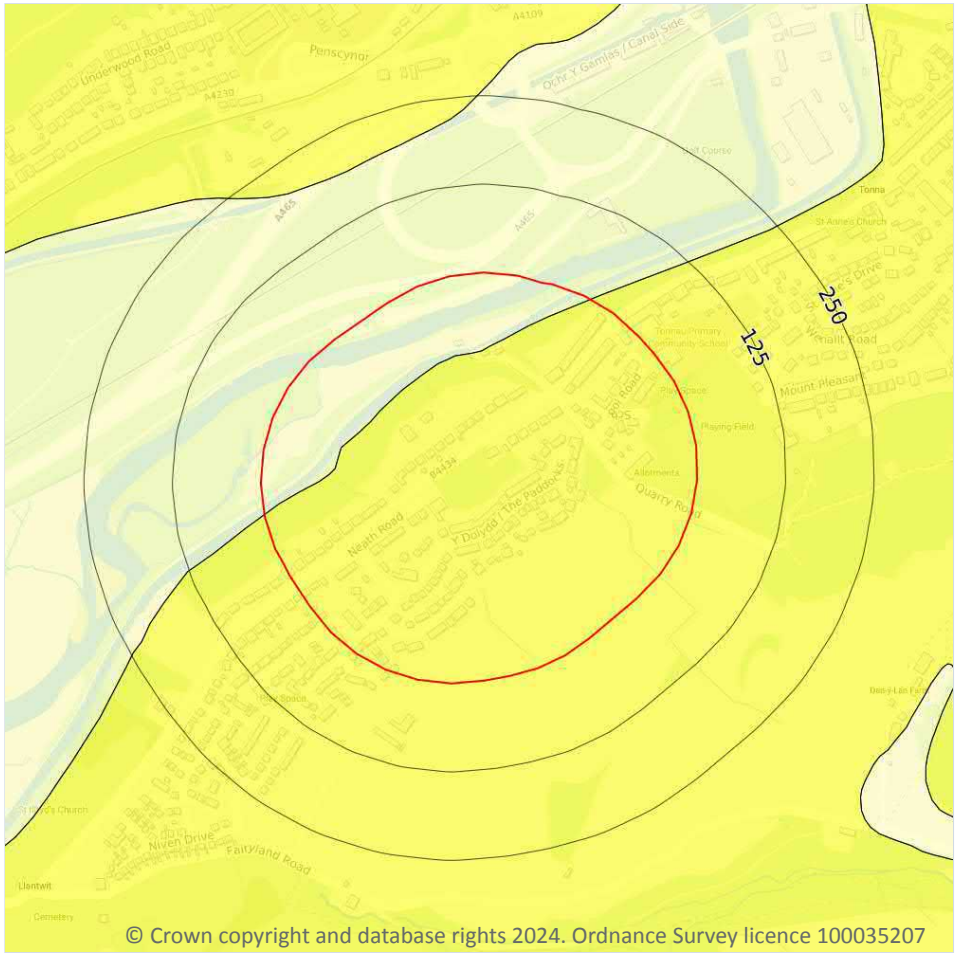
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 129 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
On site	**Very low**	**Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.**

Location	Hazard rating	Details
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	2

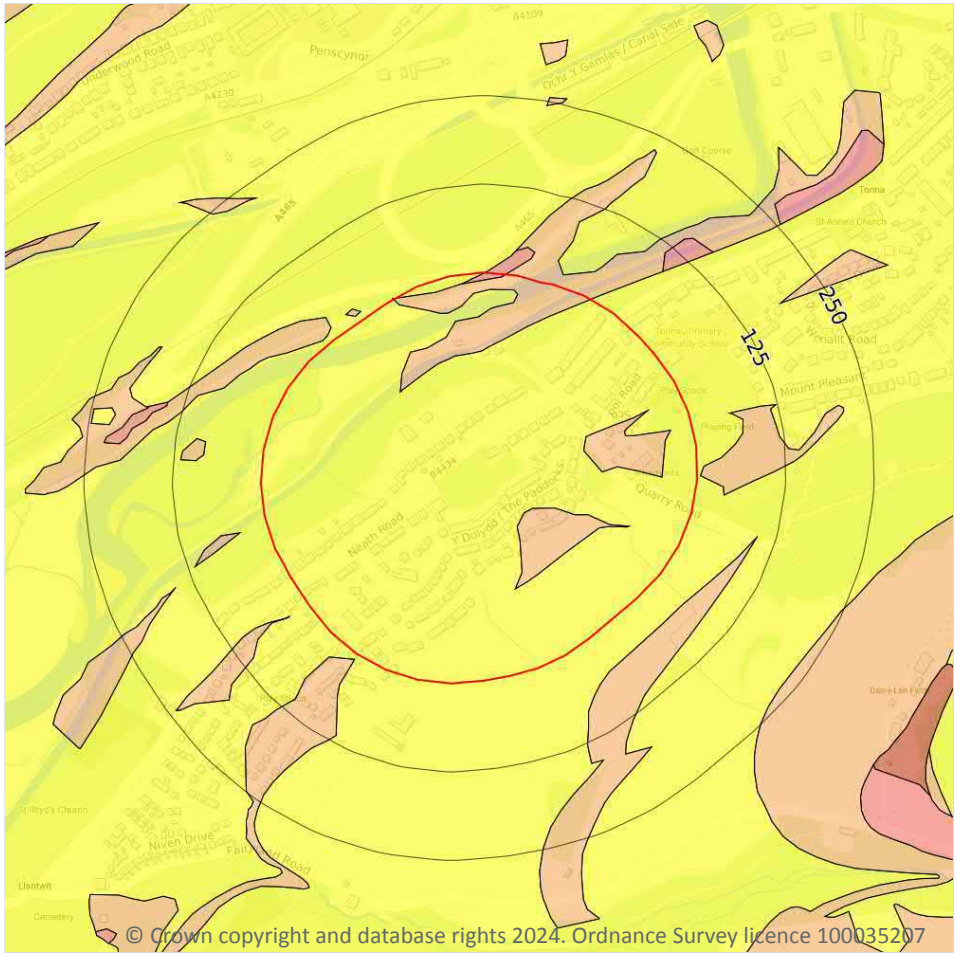
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 131 >**

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.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	9

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.

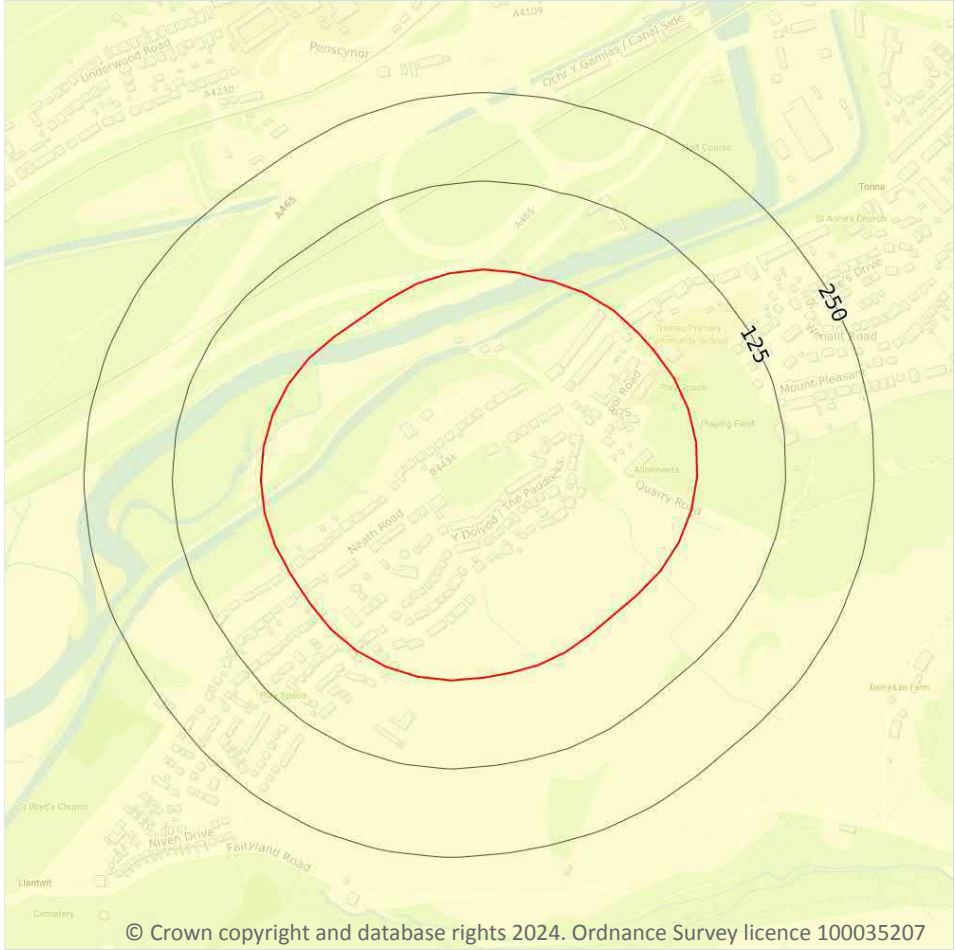
Features are displayed on the Natural ground subsidence - Landslides map on **page 132 >**

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.**
5m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
8m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
10m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
10m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
32m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
40m 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



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

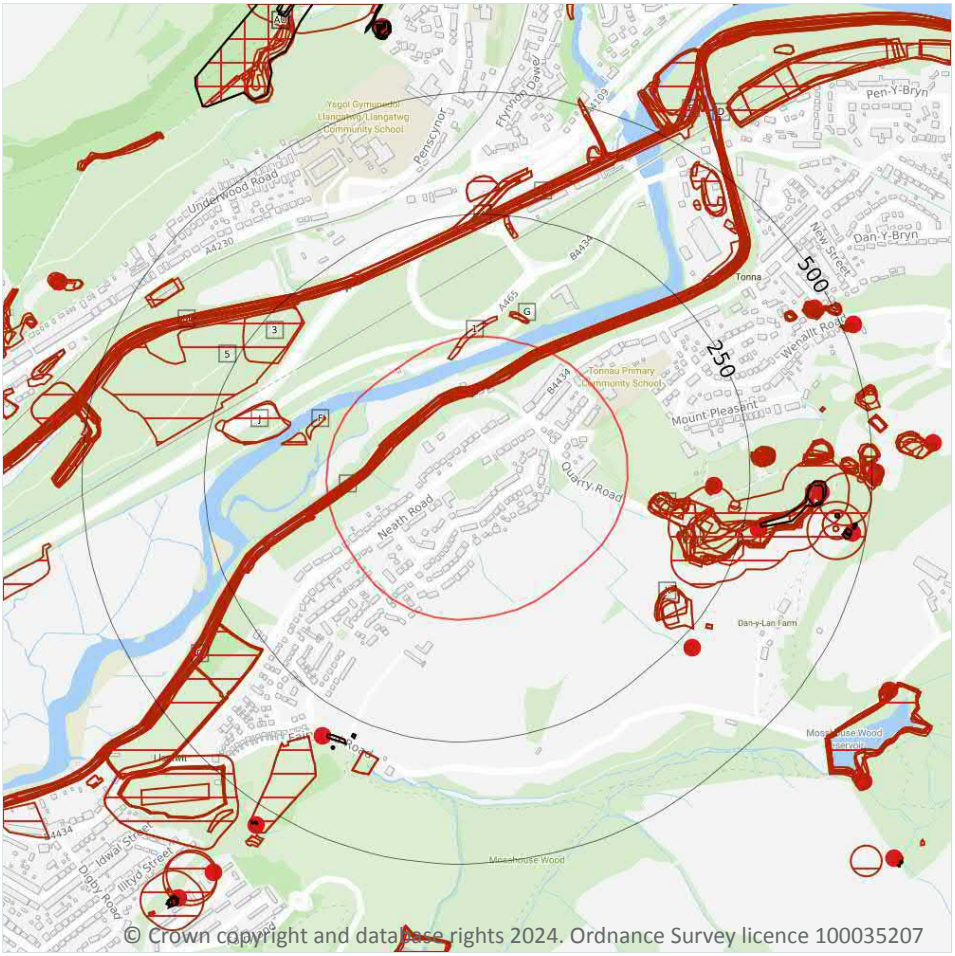
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 134 >**

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	8

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 136 >**

ID	Location	Details	Description
L	178m E	Name: Cyngoed Address: Tonna, NEATH, West Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
P	280m SE	Name: Dan-y-lan Farm Address: NEATH, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	282m E	Name: Cydgoed Quarry Address: Tonna, NEATH, West Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	286m E	Name: Cyngoed Address: NEATH, West Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
S	314m SW	Name: Fairyland Address: Tonna, NEATH, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
T	396m E	Name: Cyngoed Address: NEATH, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AA	466m NE	Name: Craig-y-Tonna Address: Tonna, NEATH, West Glamorgan Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
X	471m E	Name: Cyngoed Address: NEATH, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**72**

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 136 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Unspecified Ground Workings**	**1914**	**1:10560**
A	**On site**	**Canal**	**1973**	**1:10000**
A	**On site**	**Canal**	**1991**	**1:10000**
B	**On site**	**Canal**	**1962**	**1:10560**
B	**On site**	**Canal**	**1921**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
B	**On site**	**Canal**	**1877**	**1:10560**
B	**On site**	**Canal**	**1982**	**1:10000**
C	**On site**	**Canal**	**1951**	**1:10560**
C	**On site**	**Canal**	**1936**	**1:10560**
C	**On site**	**Canal**	**1914**	**1:10560**
C	**On site**	**Canal**	**1897**	**1:10560**
C	**On site**	**Canal**	**1938**	**1:10560**
C	**On site**	**Canal**	**1938**	**1:10560**
D	**On site**	**Canal**	**1948**	**1:10560**
D	**On site**	**Canal**	**1935**	**1:10560**
D	**On site**	**Canal**	**1897**	**1:10560**
E	**On site**	**Canal**	**1935**	**1:10560**
E	**On site**	**Canal**	**1914**	**1:10560**
F	33m W	Refuse Heap	1948	1:10560
G	42m N	Pond	1935	1:10560
G	42m N	Pond	1914	1:10560
G	42m N	Pond	1991	1:10000
F	50m W	Refuse Heap	1948	1:10560
H	51m E	Unspecified Heap	1921	1:10560
H	51m E	Unspecified Heap	1914	1:10560
I	53m E	Unspecified Disused Quarry	1951	1:10560
I	53m E	Unspecified Quarry	1897	1:10560
I	53m E	Unspecified Disused Quarry	1936	1:10560
H	55m E	Unspecified Heap	1962	1:10560
H	58m E	Unspecified Heap	1973	1:10000
H	58m E	Unspecified Heap	1982	1:10000
H	61m E	Unspecified Ground Workings	1938	1:10560
H	61m E	Unspecified Ground Workings	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
I	76m E	Unspecified Quarry	1877	1:10560
J	93m W	Unspecified Ground Workings	1935	1:10560
J	95m W	Unspecified Quarry	1948	1:10560
I	99m E	Unspecified Disused Quarry	1962	1:10560
2	127m E	Unspecified Heap	1962	1:10560
I	133m E	Unspecified Disused Quarry	1973	1:10000
I	134m E	Unspecified Disused Quarry	1991	1:10000
I	134m E	Unspecified Disused Quarry	1982	1:10000
I	138m E	Unspecified Quarry	1914	1:10560
I	142m E	Refuse Heap	1991	1:10000
I	142m E	Refuse Heap	1982	1:10000
I	148m E	Unspecified Heap	1921	1:10560
I	150m E	Unspecified Disused Quarries	1938	1:10560
I	150m E	Unspecified Disused Quarries	1938	1:10560
K	156m SE	Unspecified Ground Workings	1991	1:10000
K	159m SE	Unspecified Heap	1951	1:10560
K	159m SE	Unspecified Heap	1936	1:10560
L	161m E	Unspecified Old Quarry	1921	1:10560
K	161m SE	Unspecified Heap	1962	1:10560
L	164m E	Unspecified Quarry	1936	1:10560
L	164m E	Unspecified Quarry	1962	1:10560
L	165m E	Unspecified Quarry	1938	1:10560
L	165m E	Unspecified Quarry	1938	1:10560
L	165m E	Unspecified Quarry	1897	1:10560
L	165m E	Unspecified Old Quarry	1914	1:10560
I	170m E	Unspecified Quarry	1921	1:10560
K	172m SE	Unspecified Heap	1914	1:10560
3	174m NW	Refuse Heap	1973	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
4	180m N	Canal	1948	1:10560
K	180m SE	Unspecified Heap	1921	1:10560
K	180m SE	Unspecified Pit	1877	1:10560
5	182m NW	Refuse Heap	1982	1:10000
M	185m N	Canal	1973	1:10000
M	189m N	Canal	1991	1:10000
M	192m N	Canal	1897	1:10560
E	206m N	Pond	1877	1:10560
E	212m N	Pond	1897	1:10560
I	214m E	Unspecified Heap	1921	1:10560
I	216m E	Unspecified Heap	1914	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	**113**

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

Features are displayed on the Mining and ground workings map on **page 136 >**

ID	Location	Land Use	Year of mapping	Mapping scale
S	280m SW	Old Coal Pit	1914	1:10560
T	283m E	Coal Level	1921	1:10560
S	299m SW	Old Coal Pit	1921	1:10560
S	322m SW	Old Coal Pit	1897	1:10560
T	369m E	Old Coal Level	1914	1:10560
X	431m E	Unspecified Disused Level	1982	1:10000
X	452m E	Old Coal Pit	1921	1:10560
X	455m E	Old Coal Pit	1914	1:10560
X	471m E	Air Shaft	1951	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
X	471m E	Air Shaft	1936	1:10560
X	471m E	Air Shaft	1921	1:10560
X	472m E	Air Shaft	1962	1:10560
X	474m E	Air Shaft	1914	1:10560
AK	533m SW	Old Coal Level	1897	1:10560
AU	616m NW	Disused Colliery	1921	1:10560
AV	632m N	Unspecified Disused Level	1991	1:10000
AV	632m N	Unspecified Disused Level	1982	1:10000
AV	632m N	Unspecified Disused Level	1973	1:10000
AV	632m N	Old Coal Level	1921	1:10560
AV	634m N	Old Coal Level	1914	1:10560
AV	634m N	Unspecified Old Level	1935	1:10560
AV	636m N	Unspecified Old Level	1948	1:10560
AV	640m N	Old Coal Level	1897	1:10560
AV	655m N	Unspecified Old Level	1962	1:10560
AU	738m NW	Disused Colliery	1914	1:10560
AU	744m NW	Disused colliery	1897	1:10560
-	744m E	Disused Colliery	1948	1:10560
-	746m E	Disused Colliery	1921	1:10560
-	746m E	Colliery	1877	1:10560
AZ	753m SW	Old Coal Levels	1951	1:10560
AZ	753m SW	Old Coal Levels	1936	1:10560
AZ	753m SW	Old Coal Levels	1897	1:10560
AZ	754m SW	Unspecified Old Level	1962	1:10560
-	757m N	Unspecified Old Levels	1935	1:10560
AZ	757m SW	Old Coal Level	1921	1:10560
-	774m N	Unspecified Old Levels	1948	1:10560
-	774m N	Unspecified Disused Levels	1982	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
-	774m N	Unspecified Disused Levels	1973	1:10000
-	774m N	Unspecified Old Levels	1962	1:10560
-	782m E	Disused Colliery	1897	1:10560
-	782m N	Old Coal Level	1897	1:10560
-	784m N	Unspecified Disused Levels	1991	1:10000
-	796m E	Unspecified Disused Mine	1962	1:10560
-	798m E	Disused Colliery	1935	1:10560
-	798m E	Disused Colliery	1914	1:10560
-	804m NE	Disused Colliery	1914	1:10560
-	804m NE	Disused Colliery	1897	1:10560
-	809m E	Coal Level	1897	1:10560
-	819m N	Unspecified Disused Levels	1982	1:10000
-	819m N	Unspecified Disused Levels	1973	1:10000
-	820m N	Air Shaft	1962	1:10560
-	822m NW	Unspecified Disused Levels	1991	1:10000
-	823m N	Air Shaft	1948	1:10560
-	823m N	Old Air Shaft	1921	1:10560
-	823m N	Air Shaft	1877	1:10560
-	824m N	Unspecified Old Levels	1962	1:10560
-	824m N	Disused Air Shaft	1973	1:10000
-	825m N	Disused Air Shaft	1982	1:10000
-	828m N	Disused Air Shaft	1991	1:10000
-	830m N	Old Air Shaft	1914	1:10560
-	830m N	Old Air Shaft	1897	1:10560
-	830m N	Air Shaft	1935	1:10560
-	830m E	Coal Level	1897	1:10560
-	837m W	Unspecified Old Level	1948	1:10560
-	839m NE	Coal Level	1877	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	847m N	Colliery	1914	1:10560
BK	889m SE	Old Coal Pit	1914	1:10560
BK	892m SE	Old Coal Pit	1921	1:10560
-	903m NW	Old Air Shaft	1914	1:10560
-	906m NW	Old Air Shaft	1921	1:10560
-	915m W	Old Coal Level	1914	1:10560
-	918m W	Old Coal Level	1914	1:10560
-	918m W	Old Coal Level	1921	1:10560
-	925m E	Coal Level	1897	1:10560
-	930m E	Coal Level	1921	1:10560
-	932m W	Old Coal Level	1897	1:10560
-	936m E	Coal Level	1914	1:10560
-	936m W	Unspecified Old Level	1935	1:10560
-	944m E	Old Coal Level	1914	1:10560
-	944m E	Unspecified Old Level	1935	1:10560
-	944m E	Coal Level	1897	1:10560
-	950m W	Unspecified Old Shaft	1935	1:10560
-	953m NE	Disused Colliery	1921	1:10560
-	956m W	Old Coal Pit	1914	1:10560
-	958m W	Old Coal Pit	1921	1:10560
-	960m W	Old Coal Pit	1897	1:10560
-	971m N	Old Coal Level	1897	1:10560
-	976m S	Old Coal Pits	1897	1:10560
-	977m N	Old Coal Level	1914	1:10560
-	978m NW	Unspecified Old Level	1962	1:10560
-	978m NW	Old Coal Level	1914	1:10560
-	978m NW	Unspecified Old Level	1935	1:10560
-	979m NW	Unspecified Old Level	1948	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	979m NW	Old Coal Level	1921	1:10560
-	982m NW	Unspecified Disused Level	1991	1:10000
-	982m NW	Unspecified Disused Level	1982	1:10000
-	983m E	Unspecified Disused Level	1991	1:10000
-	983m E	Unspecified Disused Level	1982	1:10000
-	983m E	Unspecified Disused Level	1973	1:10000
-	988m NW	Old Coal Level	1897	1:10560
-	989m S	Old Coal Pits	1897	1:10560
-	989m S	Unspecified Disused Shaft	1991	1:10000
-	989m S	Unspecified Disused Shaft	1982	1:10000
-	989m S	Unspecified Disused Shaft	1973	1:10000
-	994m S	Old Coal Pit	1951	1:10560
-	994m S	Old Coal Pit	1936	1:10560
-	994m S	Old Coal Pit	1914	1:10560
-	996m N	Old Coal Level	1921	1:10560
-	998m E	Unspecified Old Shaft	1962	1:10560
-	999m E	Unspecified Old Shaft	1921	1:10560
-	999m E	Unspecified Shaft	1897	1:10560
-	999m E	Unspecified Old Shaft	1951	1:10560
-	999m E	Unspecified Old Shaft	1936	1:10560

This is 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	0

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).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

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	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

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

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.

19.5 National karst database

Records within 500m	0

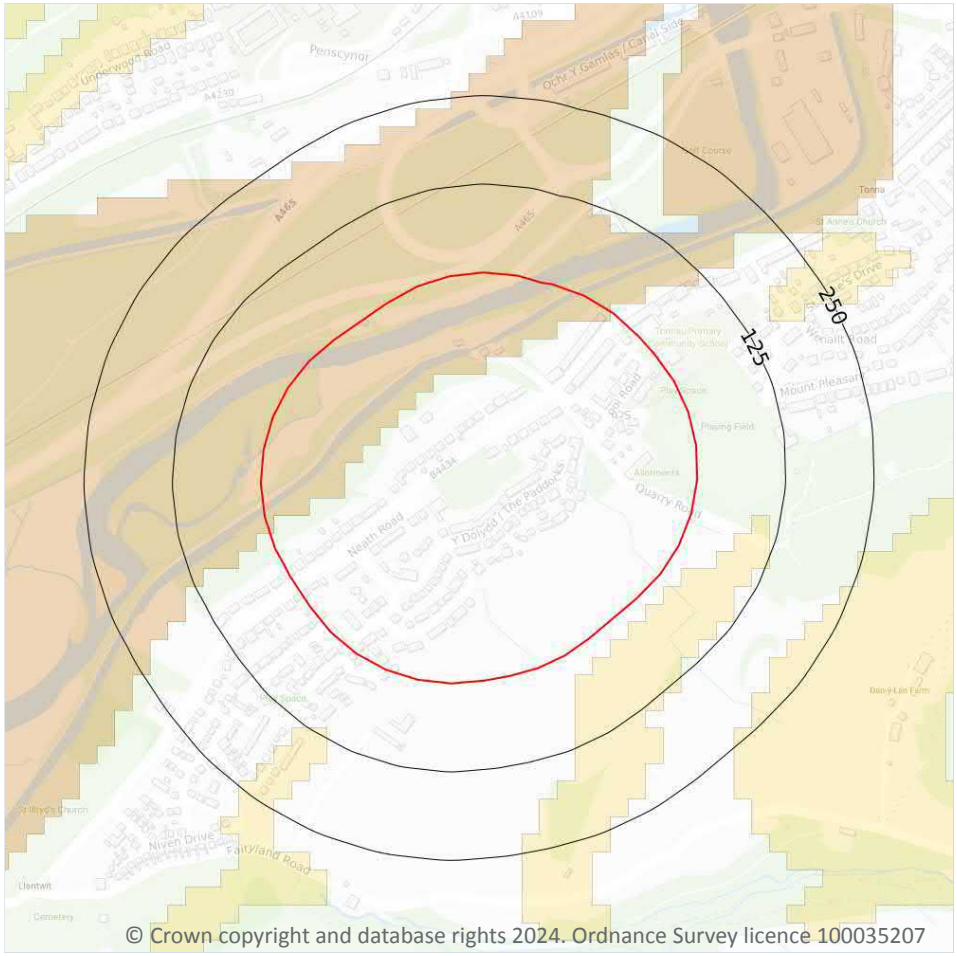
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	2

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 151 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 5% and 10%**	**Basic**

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

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	32

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 km^2. 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 km^2; 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**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**45 - 60 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**45 - 60 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**45 - 60 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**45 - 60 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**45 - 60 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**45 - 60 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**2.2 - 3.0 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
9m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
37m SE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
48m E	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	3

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 km^2).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
13m S	80	14	122	84	0.9	67	94	29	24
13m S	79	13.8	120	82	0.9	67	93	29	24
33m SW	74	12.9	132	91	0.9	68	95	30	25

This data is sourced from the British Geological Survey.

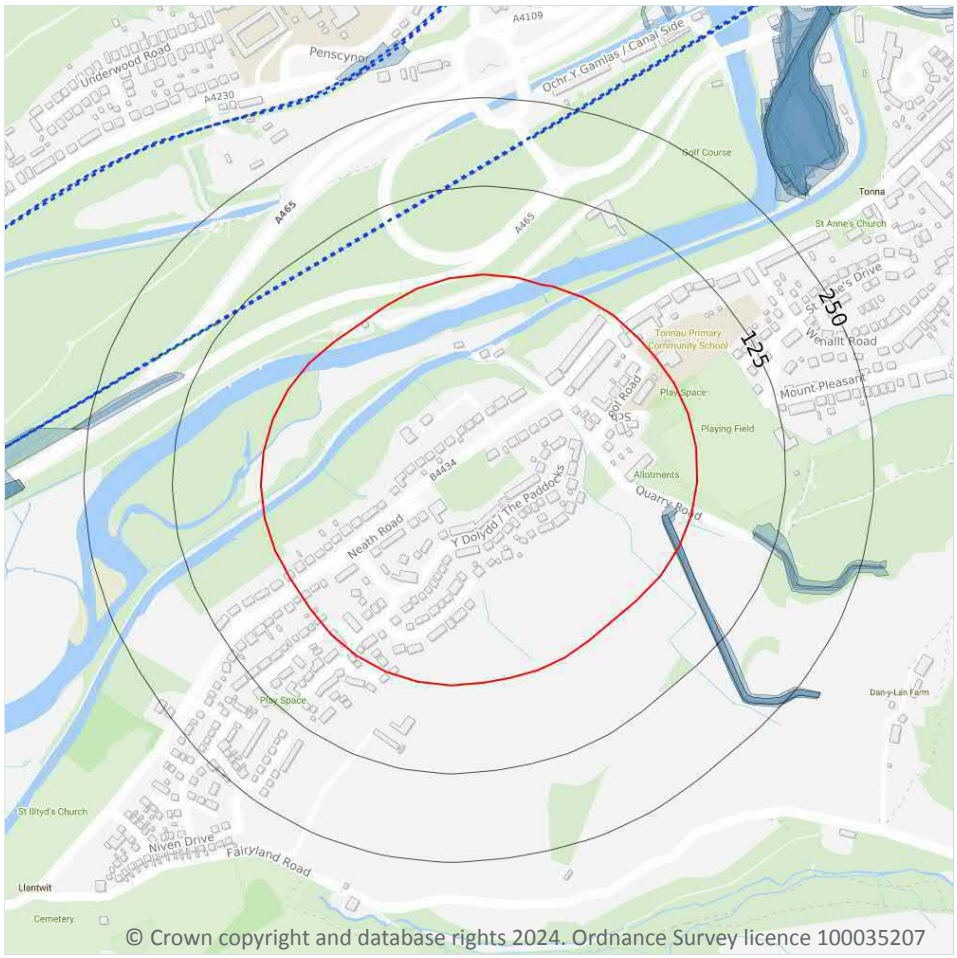
21.3 BGS Measured Urban Soil Chemistry

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 km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- Crossrail 1 Stations
- Crossrail 1 Route
- 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	1

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on **page 156 >**

Location	Type
137m NW	Railway Tunnel

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	8

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 156 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Tramway Sidings**	**1935**	**2500**
On site	**Tramway Sidings**	**1936**	**10560**
On site	**Tramway Sidings**	**1938**	**10560**
89m E	Railway Sidings	1914	10560
91m E	Tramway Sidings	1918	2500
92m E	Railway Sidings	1921	10560
139m W	Railway Sidings	1948	10560
148m W	Railway Sidings	1935	2500

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	6

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 156 >**

Location	Name	Type
100m NW	Not given	Single Track
102m NW	Vale of Neath Railway	rail
105m N	Not given	Single Track
186m W	Not given	Single Track
199m N	Not given	Single Track
206m W	Not given	Single Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

22.9 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.

22.10 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

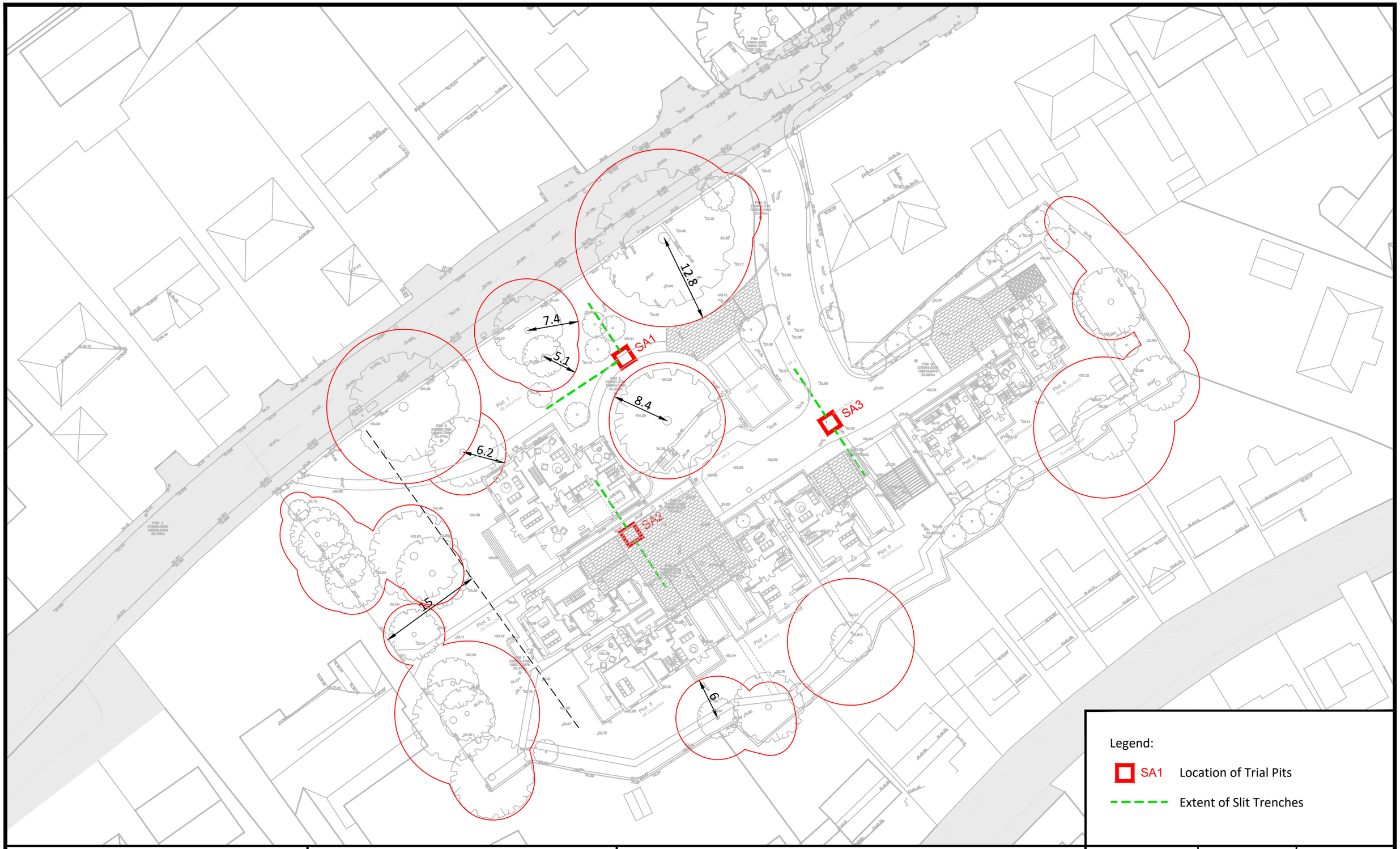
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

Appendix F

Amended Site Plan with Trial hole location and trenching indicated



TRANSPORT PLANNING

MONTREUX HOUSE, 18A JAMES STREET WEST
BATH BA1 2BT
t: 01225 444 011
www.ima-tp.com

CLIENT: Emily Byrne	TITLE: Location of Trial Pits	SCALE: (A3) 1:500	CHECKED: DS	APPROVED: DS
PROJECT: 1 Henfaes Road, Tonna Neath		CAD FILE: IMA-24-077_TP01.dwg	DESIGN/DRAWN: PDI	DATE: October 2024
		PROJECT No: IMA-24-077	DRAWING No: TP-01	REV: A

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Appendix G

Jan 2025 Previous Environmental Heath Team consultation response

General Environmental Health Planning Consultation Response

Planning Application Ref: P2024/0818
Address: 1 Henfaes Road Tonna Neath Port Talbot SA11 3DX
Planning Case Officer: Jess King
Comments provided by: Leah Morgan
Our Ref: PLC29449 and PLN29456
Date: 20th January 2025

The General Environmental Health Planning Consultation response to the above application has considered the following relevant areas:

Noise	☒	Air Quality	☐	Contaminated Land	☒
Odour	☐	Housing	☐	Other (please specify)	☐

The Environmental Heath Team, in responding to the above application, provides the following substantive response:

No Comment	☐
No Objection subject to conditions (see the specified conditions below)	☒
Requires further information (see details below)	☐
Objection (on the grounds set out below)	☐

Overall Recommendation

Notwithstanding any information submitted with the application we recommend that a Mine Gas Risk Assessment is carried out and therefore recommend that you include MG01-03 and MG Informative 4 on the decision notice.

We also recommend that you include the Construction Environmental Management Plan condition to address construction impacts including noise and dust.

We do not have any concerns about

Observations and Comments

I would firstly like to say that the contaminated land documents produced by Geotesting

Services, Ground Investigation Services that have been submitted with the application have not been carried out in line with best practice guidance and do not follow the principles of Land Contamination Risk Management (LCRM) which is the technical guidance on applying a risk based approach to managing land contamination. Furthermore it does not comply with the WGLA Development of Land Affected by Contamination: A Developer's Guide. However, our records do not indicate any potential sources of contamination on site or in the immediate vicinity and therefore we would not have required these documents for this application and are of the opinion it would be unreasonable to expect them to be reissued in an acceptable format for that reason, although the lack of comments should not be taken to mean that these reports are a suitable assessment of land contamination and if used for due diligence the developer may wish to consider having further work undertaken.

The site is within a High Risk Mining area and as such a Coal Mining Gas Risk Assessment is required. The application includes a document called Report Coal Mining Risk Assessment reference 2024/09/1100, we are unsure of the aim of this document but it does not consider coal mining gas risk and as such is not suitable for this purpose.

A Coal Mining Gas Risk Assessment is required in accordance with CL:AIRE's Good Practice for Risk Assessment for Coal Mine Gas Emissions. As this guidance states it is essential that developers take reasonable steps to ensure that the person they are appointing to do the assessment is suitably qualified and Pg 6 of the guidance provides some examples of how this can be achieved. Given the concerns regarding the quality of the other reports we strongly advise that the applicant pay due regard to this element of the guidance as we will not discharge conditions if inadequate reports are submitted

Figure 12.1 of the guidance is a useful summary of the steps required and can assist in producing the brief for the risk assessment.

Recommended Conditions

MG01– Preliminary Mine Gas Risk Assessment – High Risk Mining Area
No development shall take place until a preliminary mine gas risk assessment setting out recommendations, has been submitted to and approved in writing by the Local Planning Authority. The mine gas risk assessment shall be undertaken by a competent person as defined in the 'CL:AIRE – Good Practice for Risk Assessment for Coal Mine Gas Emissions, October 2021' and having regard to current guidance – 'Land Contamination: Risk Management (LCRM; 2020)'. It shall document the findings of each step of the decision tree in Figure 13.1 of the Decision support tool for mine gas risk assessment on page 35 of CL:AIRE – Good Practice for Risk Assessment for Coal Mine Gas Emissions.

Reason: In the interests of human health and to accord with Policy EN8 of the Local Development Plan

MG02 – Detailed Mine Gas Risk Assessment
Where the conclusions of the preliminary mine gas risk assessment required under condition umber (xxxxx MG01) identifies the need for a Detailed Mine Gas Risk Assessment, a report detailing the outcome of the suitable site investigation and lines of evidence risk

assessment in accordance with CL:AIRE – Good Practice for Risk Assessment for Coal Mine Gas Emissions, October 2021' and having regard to current guidance – 'Land Contamination: Risk Management (LCRM; 2020) shall be submitted to and approved by the Local Planning Authority. If the Detailed Mine Gas Risk Assessment concludes remediation is required to mitigate the risk, the report shall also include a Remediation Scheme with full details of the design of gas protection measures and a Verification Plan as described in CIRIA C735 –'Good practice on the testing and verification of protection systems for buildings against hazardous ground gases'. The development shall be constructed in strict accordance with the scheme as approved. (See MG Informative 4)

Reason: In the interests of human health and to accord with Policy EN8 of the Local Development Plan

MG03 – Mine Gas Verification Report
Prior to occupation or first use of the development hereby approved a Verification Report demonstrating that the gas protection has been installed in accordance with the scheme as approved under condition number (xxxxx MG02) and in accordance with CIRIA C735 –'Good practice on the testing and verification of protection systems for buildings against hazardous ground gases', shall be submitted to and approved by the Local Planning Authority.

Reason: In the interests of human health and to accord with Policy EN8 of the Local Development Plan

MG Informative 4 Extensions and alterations. (Where MG02-03 have been applied)
The applicant is made aware that all mitigating gas protection measures as approved and verified under this permission should be fully implemented within any future extension to the development. Notwithstanding if these extensions are permitted development. Installed and verified in accordance with CIRIA C735 –'Good practice on the testing and verification of protection systems for buildings against hazardous ground gases'.