

Princess Royal Theatre

784-B046183

Phase 1 Geoenvironmental Assessment Desk Top Study



FINAL

Morgan Sindall

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ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
AOD	above Ordnance Datum
bgl	below ground level
BGS	British Geological Survey
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
C4SL	Category 4 Screening Levels
CIEH	Chartered Institute of Environmental Health
CLEA	Contaminated Land Exposure Assessment
CoC	Constituent of Concern
CSM	Conceptual Site Model
DEFRA	Department of Environment, food and Rural Affairs
DQRA	Detailed Quantitative Risk Assessment
DTS	Desktop Study
DRO	Diesel Range Organics
DWS	Drinking Water Standard
EA	Environment Agency (England)
EPH	Extractable Petroleum Hydrocarbons
EQS	Environmental Quality Standards
FOC	Fraction Organic Carbon
GPR	Ground Penetrating Radar
LOD	Limit of detection
LQM	Land Quality Management
NRW	Natural Resources Wales
OS	Ordnance Survey
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PPE	Personal Protection Equipment
ppm	parts per million
PRO	Petroleum Range Organics
SGV	Soil Guideline Values
SOM	Soil Organic Matter
SVOC	Semi-volatile organic compounds
TPH	Total Petroleum Hydrocarbon
TSV	Tier 1 Screening Values
VOC	Volatile Organic Carbon
VPH	Volatile Petroleum Hydrocarbons

1.0 INTRODUCTION

1.1 INSTRUCTION

Tetra Tech Environment Planning Transport Ltd (Tetra Tech) was commissioned by Morgan Sindall (the client) to undertake a Geo-Environmental Desk Top Study for a site known as Princess Royal Theatre (known hereafter as “the site”).

The location of the site is shown on Figure 1.

1.2 BRIEF

The brief was to provide a Phase 1 Geo-environmental Desk Study assessment report including a preliminary qualitative geotechnical and contamination risk assessment to support a planning application for redevelopment at the site.

1.3 PROPOSED DEVELOPMENT

The objective of the ground investigation is to provide information to produce a detailed ground model of the site and parameters of the ground materials. The proposals include an extension to the existing theatre and public realm improvements as defined by the red outline in figure 1 within Hydrock Ground Investigation Specification (PRT-HYD-XX-ZZ-S-SC-00001). Typical loads are likely to be low bearing pressures from the single storey structure.

1.4 REPORT SCOPE

This report includes the following key elements:

- A record of the site visit and visual inspection walkover;
- A discussion of the current site status and key associated environmental influences observable by general visual inspection around the site;
- An historical site and area review, primarily referring to past editions of Ordnance Survey Maps;
- A discussion of the general expected ground and groundwater conditions within the topographical and area context referring to our own geological and hydrogeological maps library;
- Details of an Environmental database search (Groundsure report) of key relevant agencies, including Local and Statutory Authorities such as the Environment Agency/Natural Resources Wales;
- A geotechnical and ground contamination assessment discussing the results of the research above not only concerning potential on-site conditions/constraints and contamination but also an overview of the potential for migration onto or off-site with respect to the surrounding neighbouring sites;

- A baseline UXO risk assessment using on-line databases to classify the site with regards to UXO risk;
- Development of a preliminary conceptual site model;
- Preliminary geotechnical hazard assessment;
- Qualitative ground contamination risk assessment (compliant with CIRIA 552 (CIRIA, 2001) methodology);
- An executive summary of the report to allow a rapid, layman's overview.

1.5 LIMITATIONS

The recommendations and opinions expressed in this report are based on information obtained as part of the desk study or provided by others. Information provided from other sources is taken in good faith and Tetra Tech cannot guarantee its accuracy.

This report is subject to the report conditions presented in Appendix A.

The information contained in this report is intended for the use of the Morgan Sindall and Tetra Tech can take no responsibility for the use of this information by any third party or for uses other than that described in this report or detailed within the terms of our engagement.

2.0 SITE INFORMATION

2.1 LOCATION

The site is located situated at Princess Royal Theatre, Civic Centre, Port Talbot which is areas occupied by the Princess Royal Theatre and Neath Porth Talbot Council. The site is approximately 1.9ha in area and is centred on National Grid Reference (NGR) 276532 190225. The approximate postcode of the site is SA13 1PJ.

The nearest site address is: Civic Centre, Port Talbot, SA13 1PJ.

A site location plan is presented in Figure 1.

2.2 GENERAL AREA CONTEXT

The site is lies within two sections (A and B) within the centre of Port Talbot and is bounded the following, outlined in table 2-1.

Table 2-1 - Surrounding land uses

Direction	Description
North	The north of the site is occupied by the M4, which traverses along the northern boundary.
East	To the east of the site is the town centre, which is occupied by a series of commercial properties, including a large Tesco Superstore, with series of residential streets.
South	The A4241 is located to the south of the site with Port Talbot Parkway railway line located beyond.
West	Residential housing is located to the west of the site with Neat Port Talbot Hospital located beyond.

2.2.1 Site Description

A site walkover inspection was undertaken by Tetra Tech on 02/04/2024. A series of photographs are presented at the end of this report and are cross referenced in the following section. The general site layout and photograph locations are shown in Figure 2.

2.2.2 Current Site Usage

The site is currently utilised as a Theatre within the centre of Port Talbot just off junction 41 of the M4 and has approximately 105 hardstanding car parking spaces with sporadic areas of soft landscaping.

2.2.3 Access and Boundaries

Access to the section A of the site is gained via an access road with a gated entrance from the B4286 on the northern boundary. Section B of the site access is gained via either the footbridge, which traverses over the river Afan or accessed by Station Road which leads on to the High Street.

2.2.4 Topography

The site lies immediately adjacent to the river Afan, and the general topography in the area is relatively flat at an elevation of around 13m AOD (based on on-line aerial photography).

2.2.5 Ground Cover and Vegetation

The surface of the site generally comprises tarmacadam hardstanding with localised areas of soft landscaping, shrubbery and mature trees.

2.2.6 Drainage

The site has existing drainage systems in place across the centre of the existing car park, as well as the surrounding paved areas. Areas of grass covered throughout shows no signs of existing drainage, with sporadic volumes of standing water.

2.2.7 Services

Numerous utility services are present on site, with multiple manholes covers and drainage runs being observed in both sections of the site. A full PAS128 survey has been undertaken by Gwalia and was provided to Tetra Tech as part of the pre-construction information. More exact locations of services and what is present, refer to drawing (3348-U).

2.2.8 On-Site Structures and Fuel Tanks

No on-site structures or fuel tanks are reported to be located on site.

2.2.9 Electrical Substations

An electrical substation is shown approximately 88m southwest of the site.

2.2.10 Asbestos Containing Materials

Based on the site's previous land use and the history around the site, the presence of asbestos cannot be discounted, however no contemporary on site sources are noted.

2.2.11 Signs of Contamination

No obvious signs of olfactory or visual contamination. However, given the nature of the location of the site and the history of the nearby Steel Works, Made Ground is anticipated to be presence and contamination cannot be ruled out.

2.3 PREVIOUS INVESTIGATIONS

No previous geo-environmental assessment reports relating to the site have been provided to Tetra Tech for review as part of this desk-based study. There is little information on a previous Ground Investigation within the area of the site.

However, the BGS Groundsure Report indicates a total of 97 boreholes were drilled within 250m of the site, with 1 located on site, with details summarised in section 3.1.4.

Tetra Tech understands that Morgan Sindall do not have reliance on the information outlined below and as such the data is presented for information only.

3.0 GEOLOGY, HYDROGEOLOGY, HYDROLOGY & RADON

3.1 GEOLOGY

Details of the geology underlying the site have been obtained from the following sources:

- British Geological Survey (BGS) Sheet No. 247 (Swansea) Solid and Drift Edition / Solid Edition etc, 1:50 000 scale;
- BGS website (British Geological Survey, 2024), accessed 14/05/2024.
- Environmental database (Groundsure™) presented in Appendix B.
- BR211 Indicative Radon Mapping (Scivvyer, 2015)
- Coal Authority Interactive Mapper (The Coal Authority, 2023), accessed 14/05/2024;

3.1.1 Made Ground

Artificial Ground, such as Made Ground, is shown to be present on published BGS mapping. The Groundsure report records the entirety of the site to be underlain by 'Made Ground; which may be due to the history of the site.

The BGS mapping defines Made Ground as '*an area where the pre-existing (natural or artificial) land surface is raised by artificial deposits. The purpose of the made ground is unspecified.*'. The Made Ground across the area is anticipated to be associated with the steel works and is likely to comprise highly variable materials, including remnants of former sub-structures.

3.1.2 Superficial Geology

BGS mapping indicates much of the site is underlain by Till, Diamicton superficial deposits. These are expected to be fine-grained with occasional gravel along with the possibility of both cobbles and boulders.

Tidal Flat Deposits are shown to be present within the western part of the site. Typically, these deposits are described as '*mud flat and sand flat deposits, form extensive nearly horizontal marshy land in the intertidal zone that is alternately covered and uncovered by the rise and fall of the tide. They consist of unconsolidated sediment, mainly mud and/or sand. They may form the top surface of a deltaic deposit.*'

Alluvial Fan Deposits are also shown to be present on site and located within the central and eastern part of the site. The BGS lexicon describes these superficial deposits as '*low, outspread, relatively flat to gently sloping masses of loose rock material, shaped like a fan or segment of a cone. They are deposited by streams at the mouths of tributary valleys onto a plain or broad valley.*'

These superficial deposits will typically be overlying bedrock and are identified in Plate 2.

3.1.3 Solid Geology

BGS mapping, plate 1, indicates that the solid geology underlying the site is comprised of the South Wales Upper Coal Measures Formation (UCM) which are comprised of mudstone, siltstone and sandstone. The Coal Measures bedrock comprises of coal-bearing interbedded sandstone, mudstone and siltstone, associated seat earths with minor grey, quartz-rich sandstones, coals and ironstones.

To the north of the site, underlying the Devensian Till is the Llynfi Member which is comprised of Sandstone. This member is typically a *'green-grey and blue-grey, feldspathic, micaceous lithic arenites ('Pennant sandstones') with thin mudstone/siltstone and seatearth interbeds and mainly thin coals'*.

South Wales Middle Coal Measures underlies the southernmost part of the site (within section B) which are comprised of mudstone, siltstone and sandstone.

The geological map indicates the presence of a fault at rockhead to potentially intersect the site and traverse in a north-west to south-east direction.

Plate 1 – BGS Solid Geology

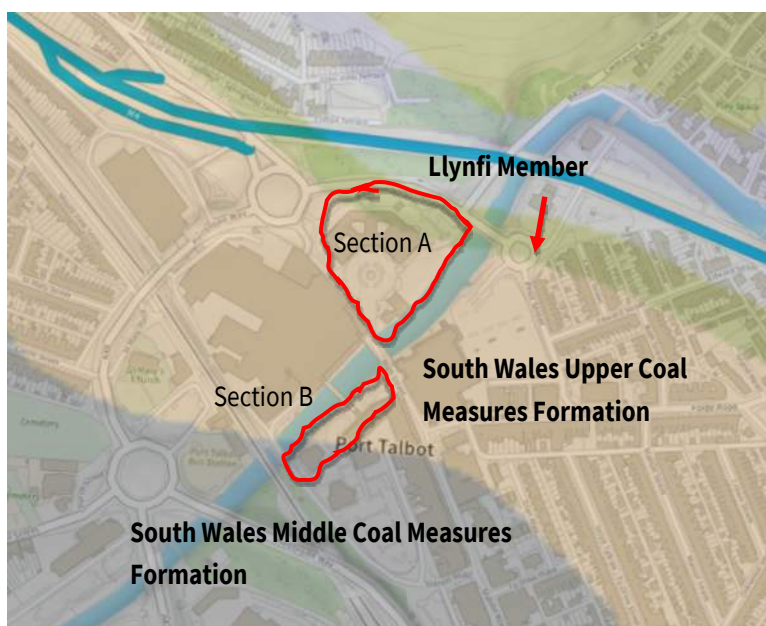
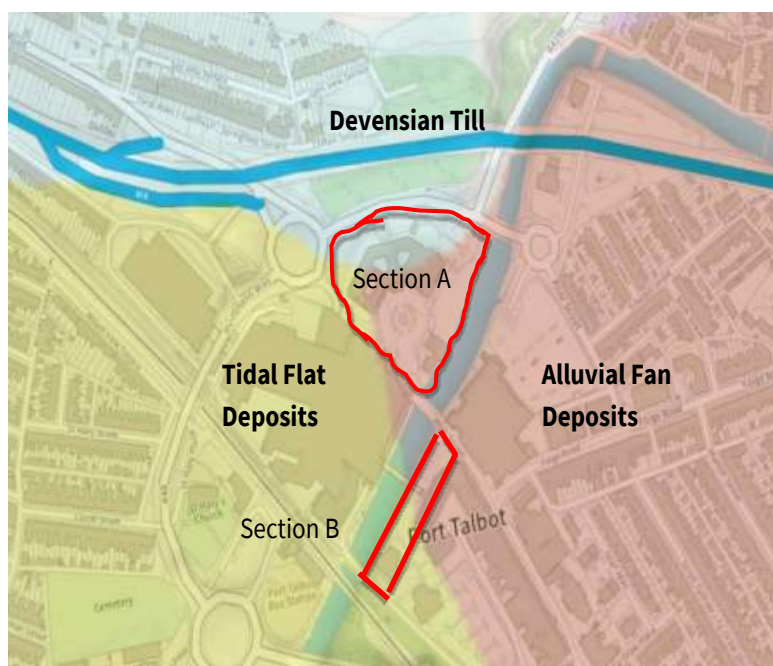


Plate 2 – BGS Superficial Geology



3.1.4 Historical Borehole Logs

British Geological Survey (BGS) logs have been referred to for information only. A summary of reported ground conditions is presented in the table below with copies of the borehole logs presented in Appendix C.

Although no previous site investigations have been provided to Tetra Tech, the local BGS borehole logs indicate ~1.5m of Made Ground, over either Glacial Till (Diamicton), Tidal Flat Deposits or Alluvial Fan Deposits and underlain either the South Wales Upper Coal Measures Formation (UCM) or by the South Wales Middle Coal Measures (MCM).

Table 3-1 – Summary of BGS Borehole Logs (On site)

Reference Number	Hole Type and Depth	Distance and Direction from Site	Details
BH02	DS + RC E276620 N190280	On-site	GL – 1.60m bgl Loose Gravel and sandy silt black in colour to 0.75m bgl then a light brown colour (MADE GROUND) 1.60m – 2.40m bgl. Moderately compact brown GRAVEL with a little silty sand 2.40m – 2.70m bgl. Very dense GRAVEL and sand. 2.70 – 7.62m bgl (E.O.H) Medium grained bluish-grey SANDSTONE.

Boreholes on site or within proximity to the site include both confidential and public boreholes ranging between 0 – 30m bgl in depths. Most of the boreholes, within 250m, of the site are associated with the redevelopment of Port Talbot Town Centre Bridges and East Bank High Street Schemes. Full details on individual boreholes and their locations can be found within Appendix B and the Groundsure Report (GS-7RP-CTZ-J25-UOP) section 16.1.

3.1.5 BGS Soil Chemistry

The Groundsure Report also provides Urban Soil Chemistry Averages for the site (source: Urban Soil and Soil Chemistry data provided by the British Geological Survey). The information is summarised in the table below.

Table 3-2 – Urban Soil Chemistry Averages

Determinand	Soil Concentration Range	
	Minimum (mg/kg)	Max (mg/kg)
Arsenic	25	35
Cadmium	1.80	1.80
Chromium	60	90
Lead	100	100
Nickel	15	45

Bioaccessible Lead	60	60
Bioaccessible Arsenic	No data available	

3.2 HYDROGEOLOGY

3.2.1 Aquifer Classification

The Superficial Deposits underlying the central area of the site and the eastern areas (Glacial Till and Tidal Flat Deposits) are designated as a Secondary A Aquifer. These are 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.

The Superficial deposits (Alluvial Fan Deposits), within the north, west, and south-western areas of the site, are classified as a Secondary Undifferentiated Aquifer. This has been assigned in cases where it has not been possible to attribute either a Secondary A or B aquifer to the soil type due to the variable characteristics. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

The South Wales Middle Coal Measures and South Wales Upper Coal Measures are designated as a Secondary A Aquifer. These are 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.

3.2.2 Groundwater Vulnerability

Guidance released by the EA (Environment Agency, March 2017) states that activities that have the potential to affect the quality or quantity of groundwater must prevent groundwater pollution. All groundwater is vulnerable to pollution, and some geological formations are more vulnerable than others. The risks of groundwater pollution from any given activity depend in part on:

- The physical, chemical and biological properties of the underlying soil and rocks;
- Depth and quality of soil;
- The presence of glacial sediment and other materials – known as ‘drift’ deposits; and,
- Depth of the unsaturated zone.

All of the above affect how groundwater is more or less vulnerable to pollution, with type of vulnerability generally one of the following:

- Intrinsic vulnerability – this relates to the physical characteristics, it includes soil type, presence of superficial soils, or rock type; and,
- Specific vulnerability – this relates to the effect of the proposed activity including any contaminant and consequent risk to groundwater.

A review of the Groundwater Vulnerability Maps for England has revealed that the combined classification is categorised as ‘Secondary Aquifer – High’.

High vulnerability aquifers are defined as being able to *“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”*. EA guidance document¹ goes on to state that high vulnerability aquifers *“...results in a high*

overall pollution risk to groundwater from surface activities. Operations or activities in these areas are likely to require additional measures over and above good practice pollution prevention requirements to ensure that groundwater isn't impacted."

3.2.3 Groundwater Source Protection Zones

The EA defines groundwater Source Protection Zones (SPZs) around identified abstractions to aid the assessment of risk to groundwater or abstraction sources from development. SPZs have three subdivisions and bespoke SPZs are defined for all major abstraction sources intended for human consumption or food use, e.g. boreholes and springs. These sub-divisions are defined as follows:

- SPZ1 – Inner protection zone - defined as the 50-day travel time from any point below the water table to the abstraction source. This zone has a minimum radius of 50 metres;
- SPZ2 – Outer protection zone - defined by a 400-day travel time from a point below the water table. This zone has a minimum radius of 250 or 500 metres around the abstraction source, depending on the size of the abstraction;
- SPZ3 – Source catchment protection zone - defined as the area around an abstraction source within which all groundwater recharge is presumed to be discharged at the abstraction source.

The site is not shown to be situated within an EA/NRW defined groundwater SPZ.

3.2.4 Depth to Groundwater and Anticipated Groundwater Flow Direction

Given the little information with regards to previous site investigations and boreholes drilled within the vicinity of the site, coupled with the site history and the depth of anticipated Made Ground, it is assumed that the groundwater depth is likely to be present within the superficial deposits. It may be possible that perched water levels are present within the Made Ground. The nearest borehole records show the following groundwater strikes:

Borehole (BH01) located at NGR 276640, 190290 records a groundwater strike at 2.43m bgl

Borehole (BH02) located at NGR 276620, 190280 records a groundwater strike at 2.43m bgl.

Borehole (BH03) located at NGR 276650, 190260 records a groundwater strike at 2.35m bgl.

Given the history of the site and the River Afan being located directly adjacent to the site, coupled with the BGS classifying the site with the presence of 'Made Ground', and given the relatively flat topography of the site it is difficult to ascertain the accurate direction of groundwater flow. It is assumed, that the groundwater flow would be in the direction of the River Afan catchment. However, this should be confirmed with an intrusive investigation.

3.2.5 Groundwater Abstractions

There are no groundwater abstractions recorded within 1.5km of the site within the Environmental Database (Groundsure™). The Groundsure Report records a single Groundwater Abstraction is located 1677m north of the site, with full details presented in Appendix B within the Groundsure Report.

It should be noted that abstractions of less than 20m³/d do not require an abstraction licence from the Environment Agency. Therefore, smaller abstraction boreholes may not be recorded.

3.3 HYDROLOGY

Details of the hydrology of the area have been obtained from the following sources:

- MAGIC interactive mapping website (DEFRA, 2024), accessed 14/05/2024; and,
- Environmental database (Groundsure™).

3.3.1 Watercourses

The River Afan (Afon Afan) runs in a south-westerly direction and is located immediately to the east of the site as well as intersecting the site between section A and section B. The River Afan is classified by the Groundsure Report as an inland river which is on ground surface and not influenced by normal tidal action. It contains water all year round.

There are no other onsite watercourses that are classified as either a tidal river or stream.

3.3.2 Surface Water Abstractions

Details of surface water abstractions within 500m of the site boundary are summarised in the table below.

A further twenty-five records are summarised within the Groundsure Report which is presented in Appendix B. It is however unclear if these boreholes are still active.

Table 3-3 – Summary of Surface Water Abstractions within 500m of the site.

Location	Details
492m SW Easting: 276054 Northing: 189756	Status: Active Licence No: WA/058/0061/007 Details: Process Water – Unknown (Impounding) Annual Volume (m³): 0 Max Daily Volume (m³): 0 Original Start Date: 29/05/2012

3.3.3 Discharge Consents

The table below outlines the surface water discharge consents recorded within 250m. A further single record is recorded within the Groundsure Report, with details summarised in Appendix B.

Table 3-4 – Summary of Surface Water Discharge Consents within 250m of the site.

Location	Address	Details	
215m NE	CSO 136 Afan Street Velindre Afan	Effluent Type: Sewage Discharge Permit Number: BP0304101 Permit Version: 1 Receiving Water: The Afon Afan	Status: Effective Issue date: 29/01/2003 Effective Date: 29/01/2003 Revocation Date: N/A
222m NE	Afan St CSO, End of Afan St Port Talbot SA13 1AX	Effluent Type: Sewage Discharge Permit Number: BP0304101 Permit Version: 1 Receiving Water: The Afon Afan	Status: Effective Issue date: 21/08/2019 Effective Date: 21/08/2019 Revocation Date: -

3.3.4 Pollution Incidents and Prosecutions

A summary of recorded Pollution Incidents and Prosecutions, that are classified as having a significant impact to the environment are presented in the table below. Further pollution incidents that are classified as having a minor impact or no impact on the environment are outlined in the Groundsure Report in Appendix B.

Table 3-5 – Summary of Pollution Incidents and Prosecutions within 250m of the site.

Location	Details	
60m NE	Incident Date: 15/10/2014 Incident Identification: 1287019 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
172m NE	Incident Date: 18/07/2002 Incident Identification: 92569 Pollutant: Inorganic Chemicals/Products Pollutant Description: Cement	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
217m SW	Incident Date: 28/05/2003 Incident Identification: 161389 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
230m SW	Incident Date: 12/07/2016 Incident Identification: 1603860 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)

3.4 RADON

The BRE document 211 (Scivyer, 2015) mapping coverage for the site area was consulted and indicates that the site is located within an area where no radon protection measures are required for new developments. This statement is supported by the Groundsure Report (Appendix B) which confirms that the site is in a low probability radon area as less than 1% of homes are above the action level. However, the northern and north-western areas of the site are classified as an area with 10-30% of properties affected and as a result full protection me will be required.

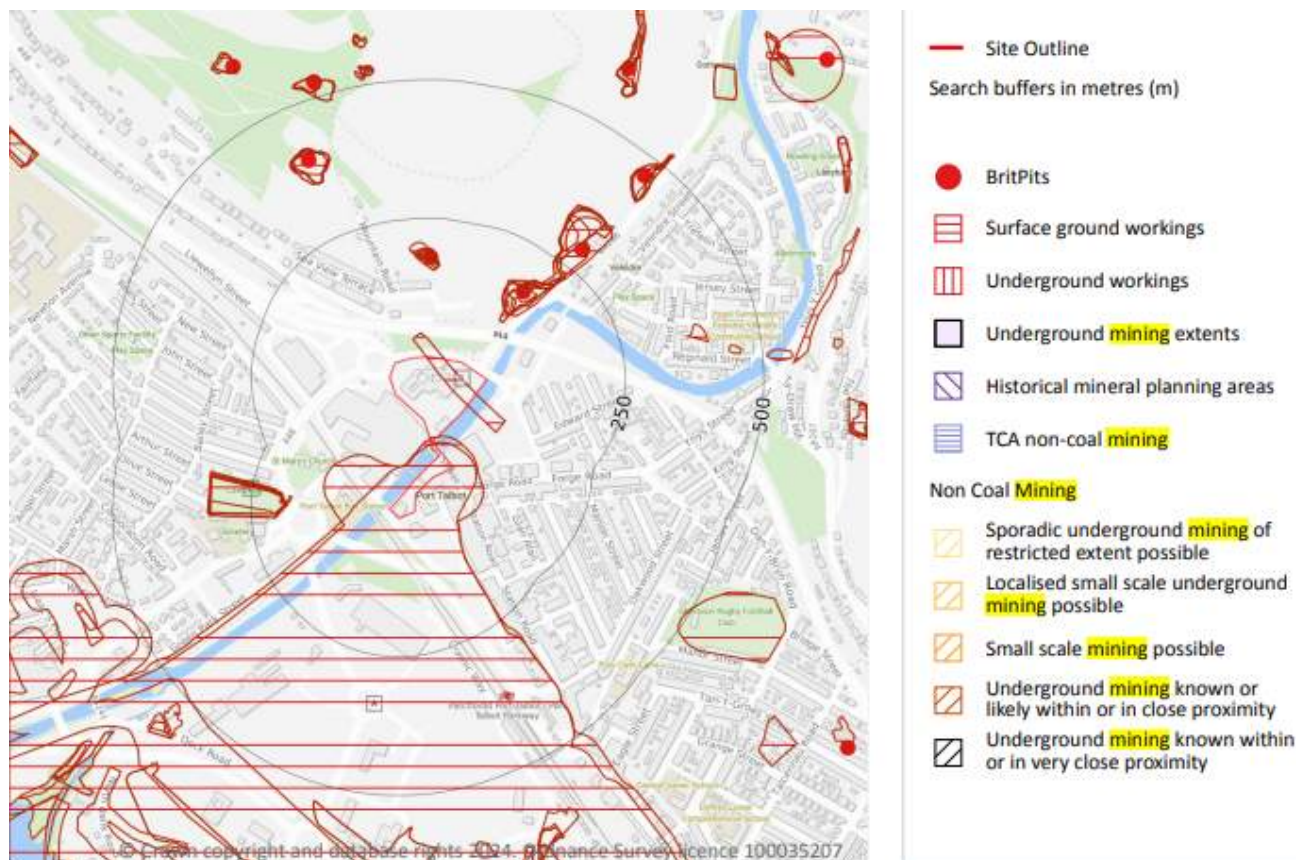
Recent published information by BGS and UK HAS, in 2022, shows the entirety of the site to have changed, where now the site is classified as a high-risk where 10-30% of the properties are estimated to be affected. This has implications for radon protection measures for new developments, where full radon protection measures will be required. Due to this change in classification, it is recommended that a site-specific Radon Report is deemed necessary for the site.

3.5 HISTORICAL MINING

According to the Coal Authority Interactive Viewer (The Coal Authority, 2023) the site is located within a Coal Mining Reporting Area, but not a Development High Risk Area. As such, a site-specific Coal Authority Report has not been obtained for the site and is not required.

3.5.1 Non-Coal Related Mining

Insert 2, below, abstracted from the Groundsure Report, summarises the findings with regards to mining and ground workings on site and within the surrounding area:



The Groundsure Report records the presence of surface ground workings on site relating to an old dock, first mapped in 1947 and cuttings mapped in 1877. The dock and old dock appear to affect the entirety of section B of the site, whilst surface cuttings (numbered 1 on insert 2) appear to intersect the northern part of the site.

3.6 BGS RECORDED MINERAL SITES

The Environmental Database (Groundsure™) and the BGS GeoIndex database records no mineral sites are within 1km of the site.

4.0 UNEXPLODED ORDNANCE

Based on freely available mapping data from Zetica UXO (Zetica UXO, 2008), the site is located within a Low-Risk Area with regards to Unexploded Ordnance (UXO). A 'Low Risk' area is defined by Zetica as:

'Low risk regions are those with a bomb density of up to 10 bombs per 1000 acres. These areas are considered to have a significant but low UXB risk. In general, further action to mitigate the risk is considered prudent, although not essential. Care is required when assessing the risk for specific sites where the risk may be higher because of local wartime activity'.

Due to the site being classified as a low risk a site specific UXO Pre-Desk Study Assessment (PDSA) is not deemed necessary from Zetica UXO.

5.0 SITE HISTORY

5.1 INTRODUCTION

The historical development of the site and surrounding area has been assessed using information available from historical Ordnance Survey (OS) maps within the Groundsure Report for the site which is presented in Appendix B of this report.

In the context of the summary of historical development of the surrounding area, the descriptions are limited to within approximately 250m of the site boundary, unless specified in the following section.

5.2 SITE HISTORY

5.2.1 Detailed Analysis of Site History

The table below provides a detailed account of the review of available OS mapping coverage and historical aerial imagery for the site and general area dating back to 1876.

Table 5-1 – Summary of Historical Data

Map Date & Scale	Within Site Boundary	Surrounding Area
1876 - 1881 1:2,500	The site is occupied by a series of residential houses and commercial premises which include the presence of a police station, Baptist and Methodist Chapel	To the west of the site is a continuation of the terraced properties with open pasture of land known situated beyond Vivian Square. To the south and south-east of the site is a railway line with a signal box with further housing and a town hall. Towards the north and north-east is a series of mixed residential and industrial land uses with Longdon Terrace Felindre Bridge. The Margam Tin Plate Works is located immediately to the east of the site.
1884 1:10,560	No further significant changes.	Developments within the surrounding area of the site, particularly to the south which includes the presence of Mansel Tin Plate Works and Port Talbot Chemical works.
1899 1:2,500	No further significant changes within Section A of the site. Section B shows the presence of a railway branch line intersecting the site.	Continued expansion of residential housing towards the north, with vast expansion to the east of the site. The former Margam Tin Plate Works is now classed as disused.

1914 - 1917 1:2,500 and 1:10,560	No further significant changes	The old Tin Plate Works now detailed as Aberavon station with expansions of the residential housing to the east of the site, comprising of numerous rows of terraced housing. Much of the expansion to the south of the site comes from the emergence of the Port Talbot Steel works with sporadic Iron foundry, gas works and tin plate works.
1939 1:2,500	The branch line feeding Aberavon station no longer intersects the site. The Police Station is now labelled as 'club'.	No further significant changes
1950 - 1951 1:1,2500	The former 'club' now labelled as Aberavon working men's club.	There are only minor changes within the surrounding area with residential housing. The Aberavon railway tracks appear to become redundant.
1964 - 1968 1:2,500	The budling within the centre of the site is now demolished as labelled as a 'car park' with a shelter.	The Aberavon railway is now classed as dismantled. Most of the residential houses located to the west of the site around Vivian Square have now been demolished and replaced with a series of car parks. A highway is located immediately to the north of the site.
1982 1:10,000	The entirety of Section A of the site has been demolished apart from the Chapel and the car park has expanded.	The former steel works located to the south of the site appears to be disused and utilised as an industrial estate.
1988 - 1991 1:2,500	All the former houses and buildings in section A and B have been demolished with a Baptist church now present in Section B. Section is where we see the construction of the 'civic centre'	The area of dismantled railway is now a car park with a large roundabout present. The highway located to the north is now classed as the M4. The residential housing to the immediate south of Section A is classed as the Aberafan Centre.
1991 - 1993 1:1,250	No further significant changes	No further significant changes
1993 - 1995 1:10,000	No further significant changes	No further significant changes
2001 - 2010 1:1,250 1:10,000	No further significant changes	Further residential buildings to the east of the site have been replaced by the expansion of a car park and a large building. The A48 has been constructed in 2001 and appears to travers to the west and south of the site.
2024 1:10,000	No further significant changes	The large building situated to the east of the site now appears to have a fuel station recorded and is noted as Tesco. Port Talbot Park Railway is located to the southeast of the site.

5.2.2 Summary of Site History

The site itself has been already developed as a series of residential properties and commercial buildings from the first available mapping in 1876, with no mapping available prior to this. The site has remained relatively unchanged, until 1964-1968 where we start to see some of the properties being demolished on site, which continues to 1982 where all the properties were demolished. Following this, the civic centre was constructed in 1998 and remained present ever since.

The surrounding area undergoes significant changes, with many of the land uses being classed as industrial in nature. Numerous gas works, tin works and chemical works are located within the surrounding area with Port Talbot steel works being identified within 1914. Further significant changes include expansions in residential properties surrounding the site as well as developments within the south associated with the docks.

6.0 ENVIRONMENTAL DATABASE SEARCH

6.1 INTRODUCTION

Regulatory authority information relevant to the site and its surroundings has been obtained from the undertaking of an environmental database search (Groundsure™). The information is summarised below, and the environmental database records are enclosed in Appendix B. Distances stated are approximate and are taken from the boundary of the site to the database recorded entries.

The following summary is generally limited to locations within 250m of the site boundaries unless it is considered that installations or activities beyond that range could potentially have an impact on the site or be affected by the redevelopment of the site.

6.2 POLLUTION CONTROLS

The Groundsure report does not identify any Pollution Controls within 1km of the site.

6.3 WASTE

A summary of records pertaining to waste disposal, management and transfer facilities are presented in the table below.

Table 6-1- Summary of Waste Facilities within 250m of the Site

Facility Type	Location	Details		
BGS Recorded Landfill		None recorded		
Historical Landfill		None recorded		
Registered Landfill		None recorded		
Licensed Waste Management Facility		None recorded		
Registered Waste Treatment or Disposal Sites	23m S	Kier Infrastructure UK, Kier Compound, Off Station Road, Opposite Riverside Baptist Church, Port Talbot, SA131PQ	Nrw-WME019758 Treating waste exemption Not on a farm	treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising and use of Mulch
Local Authority Recorded Landfill		None recorded		
Active Registered Waste Transfer Stations		None recorded		

6.4 HAZARDOUS SUBSTANCES

The following table outlines records relating to the storage and use of Hazardous Substances within 250m of the site boundary.

Table 6-2 – Summary of Hazardous Substances within 250m of the Site

Type	Location	Details
Control of Major Hazards Sites (COMAH)		None recorded
Explosive Sites		None recorded
Notification of Installations Handling Hazardous Substances (NIHHS)		None recorded

6.5 ENVIRONMENTALLY SENSITIVE AREAS

Table 6-3 – Summary of Environmentally Sensitive Areas

Designation	Location and Name	Details
Nitrate Vulnerable Zone (Surface Waters)		None recorded
Nitrate Vulnerable Zone (Groundwater)		None recorded
Special Protected Areas		None recorded
Sites of Special Scientific Interest		None recorded
Special Areas of Conservation		None recorded
Adopted green belt		None recorded
Green belt		None recorded
Nature Reserve		None recorded

6.6 FLOODING

The absence or presence of flooding potential at the site is summarised in the table below.

Table 6-4 - Summary of Flooding Potential

Designation	On Site	Detail
Flooding at Surface (from Groundwater)	Yes	Moderate risk

Flooding below Ground Level (from Groundwater)	Yes	Moderate risk
Flooding from Surface Waters	Yes/No	1 in 30 year, Greater than 1.0m (within 50m)

On consulting Natural Resources Wales' (NRW) Flood Risk Map Viewer, it is apparent that the site is located within an area where surface water flooding is of a high risk. The areas of the high risk appear to be linked to the River Afan. Given the relatively flat topography of the site, it may be likely that surface water flooding could be a risk on site, particularly given periods of elevated rainfall.

6.7 INDUSTRIAL LAND USE

The following section outlines the surrounding industrial land use within 250m and considered to be relevant to the site and the proposed development.

Table 6-5 - Summary of Industrial Land Use

Land Use	Detail	
Contemporary Trade Directory Entries (on site)	None recorded	
Contemporary Trade Directory Entries (surrounding area)	None recorded	
Fuel Station Entries	89m E	Company: Tesco Prior Street, Port Talbot, Neath Port Talbot, SA13 1YA Status: Open

6.8 SUMMARY OF ENVIRONMENTAL SETTING

According to the Groundsure Report, there are no pollution controls, waste, or hazardous substance locations within the 250m of the site boundary. There are also no historical landfills recorded within 250m of the site. There is a single licensed waste treatment site located with 250m of the site (NE). Whilst the Groundsure Report records four pollution incidents within 250m of the site, the impact to the environment were minor apart from an incident (1603860) 230m southwest which was significant, however, this is deemed to not impact the site.

Furthermore, the Groundsure also highlighted a number of areas of potentially landscaped ground, with surface workings, which underlies the site but also the surrounding areas, which is possibly associated with the former docklands. No other sensitive land uses are recorded within 250m of the site with the nearest designated ancient woodland being located 759m northeast of the site.

As the site is located adjacent to the River Afan, the Groundsure report indicates that there is moderate risk of flooding from the river. The NRW Flood Risk Map indicates some areas of elevated surface water flooding risk in a number of areas on site, with the risk being deemed to be high based on the current site condition.

7.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

Based on the information identified in the preceding sections, the table below summarises the anticipated ground conditions and associated geotechnical assessment for the site, including highlighting the potential constraints for future development. Actual ground conditions may need to be confirmed through ground investigation in due course.

7.1 ANTICIPATED GROUND CONDITIONS

The following ground conditions are anticipated underlying the site:

- Made Ground
- River Tidal Flat Deposits (Clay, Silt and Sand)
- Alluvial Fan Deposits (Sand and Gravel)
- Glacial Till (Diamicton)
- South Wales Middle and Upper Coal Measures Formation

The ground stability hazards highlighted in Table 8 below are sourced from the British Geological Survey and National Geoscience Information Service, and are provided within the Groundsure report included in Appendix B. However, based on the site-specific information provided in preceding sections, a revised hazard potential has also been included within Table 8.

Table 8 - Summary of Flooding Potential

Hazard	Hazard Potential	
	Groundsure	Revised
Shrinking or Swelling Clay	Very low	Low
Running Sand	Very low	Low to Moderate
Dissolution Features	Negligible	Negligible
Collapsible Ground	Negligible to Very low	Low to Moderate.
Compressible Ground	Very low	Low to Moderate
Landslide	Very low	Low to Moderate

7.1.1 Shrinking and Swelling Clay

Given the anticipated ground conditions, mainly the potentially high clay content of the River Tidal deposits, the potential for clays with a high swelling potential is considered to be low.

7.1.2 Running Sands

Given the anticipated ground conditions, the potential for running sands to be present is considered to be low to moderate.

7.1.3 Dissolution Features

As limestone or calcareous rich bedrock is not anticipated to underlie the site at shallow depths, there is little potential for dissolution features to be present beneath the site. Therefore, the hazard potential for dissolution features has been classified as a no hazard.

7.1.4 Collapsible Ground

Based on the information provided within previous sections, the site is not affected by any coal mining activities, however surface ground workings are recorded on site, and as such the potential is classified as low to moderate.

7.1.5 Compressible Ground

The site has been extensively re-worked and previously levelled to create the existing level and further re-profiling is anticipated during any future development. Consideration will be required to the compressibility of superficial materials on site as part of the development phase.

7.2 SLOPE STABILITY

The site was noted to be predominantly flat during the site walkover and as such no issues in relation to slope stability are anticipated. Retaining walls are present in the wider development site, however the structural integrity of these features is not considered herein.

7.3 ENABLING WORKS

7.3.1 Anticipated Cut and Fill

The site is predominantly flat and as such no significant cut and fill is considered likely to facilitate the proposed development.

7.3.2 Ground Improvement

Given the nature of the site and anticipated ground conditions, ground improvement may be required to enable the proposed development.

7.4 ANTICIPATED FOUNDATION REQUIREMENTS

7.4.1 Foundations

Based on the complex nature of the development, a ground investigation will be required to confirm a suitable founding stratum. Suitable founding strata are likely to be identified within competent layers of the weathered bedrock or overlying superficial deposits.

7.4.2 Pavements

Based on the assumed ground conditions, ground improvement may be required prior to the construction of pavements. However, ground improvement may be required prior to the construction of pavements, depending on the thickness, composition and CBR value of any Made Ground soils which may be present.

7.5 TEMPORARY WORKS

7.5.1 Excavations

Due to the anticipated ground conditions, which are expected to be granular and non-cohesive in nature, excavations may exhibit some degree of instability and may require battering or site protection to facilitate the proposed development.

7.5.2 Groundwater

Shallow groundwater is likely to be encountered at shallow depths and dewatering of excavations is likely to be required, especially in the winter months. Due to the high fine-grained content of the anticipated shallow site soils and low flow of seepages, it is likely that dewatering of excavations could be conducted by simple sump pumping arrangements.

7.5.3 Inground Obstructions

Due to the previous developments on the site, inground obstructions are anticipated across the site, these may require excavation prior to the development.

7.6 DRAINAGE

The shallow Superficial soils underlying the site are anticipated to exhibit low permeability, with the underlying Made Ground being variable in permeability rates. Soakaways or infiltration features may a suitable option for designing the sustainable drainage aspects of the development.

7.7 POTENTIAL CONSTRAINTS

Within the context of this geotechnical assessment and based on the information above, the following potential constraints have been identified with respect to the proposed development.

- Potential presence of Made Ground of unknown depth and composition.
- Potential for inground obstructions. • Shallow groundwater.
- Excavation instability
- Collapsible ground associated with a potentially previous landscaped ground;

It should, however, be noted that the actual ground conditions will need to be confirmed through intrusive investigation and laboratory testing in due course to inform foundation design.

8.0 CONCEPTUAL SITE MODEL & PRELIMINARY GROUND CONTAMINATION RISK ASSESSMENT

8.1 OVERVIEW

The information presented in the previous sections of this report have been collated and evaluated to establish an initial qualitative risk assessment for the site. A conceptual model of the site has been generated based on information derived from this Phase 1 Geo-environmental Assessment, supplemented by information attained during the Tetra Tech site walkover.

The site has been considered with regard to current UK legislation and guidance, namely Part 2A of the Environmental Protection Act 1990 and the Contaminated Land (England) Regulations 2006, as amended, and in accordance with current UK good practice guidelines (for example BS10175:2011).

In general, ground contamination can occur through several causes, particularly from historical operations and activities. Contamination can result from either on-site sources or from on-site migration from off-site sources, leading to long term liabilities under recent legislation for any site owner.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- Source, i.e. a substance that is capable of causing pollution or harm;
- Pathway, i.e. a route by which the contaminant can reach a target; and
- Receptor (target), i.e. something which could be adversely affected by the contaminant.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

8.2 CURRENT SITE USAGE AND PROPOSED DEVELOPMENT

The objective of the ground investigation is to provide information to produce a detailed ground model of the site and parameters of the ground materials. Once a ground model has been produced, this can be used to identify the mechanisms behind any possible subsidence/erosion to aid in the permanent design solution.

The model can then be used to design detailed remedial measures to protect the carriageway from future damage and movements.

Currently the site is used is located in the town centre of Port Tabot and utilised as a Theatre with areas of both soft and landscaped areas. The concern is the currently the underlying ground conditions and the assumption that the existing structures and surrounding area is probably on waste from the nearby steel works and docks.

8.3 CONCEPTUAL SITE MODEL

The key source, pathways and receptor model is outlined below within the context of potential development of the site.

As the proposed development is for a mixed commercial purpose, the following risk assessment is undertaken in the context of a residential with plant uptake end use scenario to provide a conservative approach.

8.3.1 Potential Sources of Contamination

The main potential sources of contamination on the site are associated with existing features as well as historical land uses on the site as summarised below.

On site Sources

- Made Ground associated with former development on the site;
- Made Ground associated with previous cut and fill development;
- Ground gas generation associated with made ground deposits beneath the site;
- Potential fuel/lubrication spillages associated with cars and moving vehicles.

Off Site Sources

- Ground gas associated with multiple records of landscaped ground within 250m of the site.
- Historical nearby industrial sources.

Table 8-1 -- Potential Sources of Contamination

Potential Hazard	Associated Contaminants	Does hazard form a plausible pollutant linkage?
Made Ground associated with: Previous developments (including former dockland area)	Heavy metals, hydrocarbons, PAH	Yes – made ground previously identified in the wider site.
	Asbestos containing materials	Yes – possibility for ACM to be present associated with former developments.
	Ground gas - CO ₂ , CH ₄ , Low O ₂	Yes - potential for land gas generation within made ground.
Fuel / lubrication spillages associated with trains and buses.	Hydrocarbons – TPH, PAH, BTEX	Yes – forms highly plausible linkage due to length of usage of site as a theatre and frequency of vehicles.
Off Site Sources		
Historical nearby industrial uses	Heavy Metals, VOCs, pH. Hydrocarbons	Yes - but likelihood of presence or migration of contamination thought to be low due to scale of features.
Electrical sub-stations and gas governor station	PCBs	No – age of adjacent ESS is 1968 and the gas governor station is dated to 1993, however these are located within a secure compound and unlikely to be disturbed during the development process. Immobility of PCBs indicate any contamination will be highly localised.

8.3.2 Potential Contaminant Pathways

The following contaminant pathways are considered to potentially be active based on the current site use and proposed development:

Human Exposure Pathways

- Direct dermal contact or ingestion of soils, or inhalation of dust and/or vapours (i.e. human interaction with surface and sub-surface materials).

Environmental Pathways

- Leaching and horizontal or vertical migration through the unsaturated ground, either through permeable sub-surface materials and/or preferential pathways;
- Lateral and vertical migration of groundwater through permeable sub-surface materials and/or preferential pathways;
- Leaching to surface water run-off/drainage;
- The migration and accumulation of gases or vapours through permeable sub-surface materials and/or preferential pathways.

8.3.3 Potential Receptors at Risk

The following potential receptors have been identified:

Human Health

- Current site users (commercial);
- Future site users (commercial);
- Site workers during the redevelopment of the site;
- Adjacent site users (residential/commercial)

Wider Environment

- Secondary Undifferentiated and Secondary A aquifer within superficial deposits;
- Secondary A aquifer within bedrock deposits;
- Surface waters (River Afan);
- Plant uptake; and
- Building Infrastructure and supply pipes.
- Adjacent Properties

8.4 GROUND CONDITIONS RISK ASSESSMENT

The source, pathway, receptor linkages identified in the previous section are outlined and a qualitative risk assessment shown in the following tables.

The risk assessment considers the site within an area context and assesses potential risks to identified receptors in relation to the existing site setting and the proposed development. CIRIA C552 has been used to define the risk rating presented in the Qualitative Risk Assessment matrix, the methodology for which is presented in Appendix E.

Table 8-2 – CIRIA C552 Qualitative Risk Assessment

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix E.						
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Potential risk management requirements
General contamination associated with Made Ground and re-worked materials on site	Direct dermal contact or ingestion of soils, or inhalation of dust or vapours	Current site users	Medium	Unlikely (due to limited interaction)	Low Risk	Due to the nature of the site, current interaction on site is limited. Ground investigation will be required to assess the presence of contamination within the near surface soils and the suitability of the materials for retention on site. Consideration will need to be given to the anticipated reprofiling of the site, whereby deeper soils may be placed within the top 1m of the soil profile. Additional risks to construction workers can be controlled through the use of appropriate PPE and good on-site hygiene practices.
		Future site users (residential)		Likely	Moderate Risk	
		Construction workers		Likely	Moderate Risk	
	Leaching and horizontal or vertical migration	Building Infrastructure and supply pipes.	Medium	Low	Low to Moderate Risk	Risks to the wider environment are defined by the potential for contaminants to become mobilised into shallow groundwaters, with a reduced risk rating with regards to surface waters due to the distance to the nearest surface waters. Site investigation will be required to determine the extent and composition of made ground.
		Surface Water Groundwater: Secondary A Aquifer South Wales Middle and Upper Coal Measures Formation Bedrock) and				

		Alluvial Fan Deposits				Despite the previous investigations and work undertaken on the site, no assessment has been made of the potential for the Made Ground deposits to impact local controlled waters, as such, further ground investigation will be required to assess the potential for mobile contamination to be present on the site.
		Secondary Undifferentiated Aquifer associated with Glacial Till and Tidal Flat Deposits				
Asbestos containing materials (ACMs) within Made Ground (including significant depth of Colliery Spoil)	Inhalation of fibres	Current site users (commercial)	Medium	Unlikely (due to limited site access)	Low Risk	The potential for ACM to be present within the made ground cannot be discounted, either entrained within the made ground deposits. Ground investigation, including the screening for asbestos fibres will be required to support any future planning application. Risks to construction workers will need to be controlled through the use of appropriate PPE/RPE and good on-site hygiene practices.
		Future site users (commercial)		Low	Moderate Risk	
		Site workers during the redevelopment of the site		Likely	Moderate Risk	
Ground Gas generation from Made Ground, and off-site infilled ground.	The migration and accumulation of gases or vapours through permeable sub-surface materials and/ or preferential pathways.	Current site users (commercial)	Severe	Likely	Moderate Risk	The site is located in an area of historical development with railway sidings and industrial land use. A Ground investigation, including the installation of gas monitoring boreholes will be required to facilitate a CIRIA 662 compliant risk assessment for the site. The potential presence of made ground indicates the potential for ground gas generation on the site.
		Future site users (commercial)				
		Building infrastructure				

Mobile contamination associated with off-site sources	Leaching and horizontal or vertical migration through the unsaturated ground	Groundwater: Secondary A Aquifer within superficial deposits and bedrock deposits	Medium	Low Likelihood	Low to moderate risk	Migration of contaminants within groundwater from off-site sources cannot be discounted however based on the anticipated groundwater flow directions and understanding of the historical development of the wider area this is not considered to pose a significant risk to groundwater below the site.
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9.0 CONCLUSIONS AND RECOMMENDATIONS

9.1 CONCLUSIONS

9.1.1 Ground Contamination

Based on the information provided above, potentially significant thickness of Made Ground and re-worked strata are anticipated on the site associated with former docklands to the south and east of the site and the creation of the relevant development site. As such there is the potential for contaminants to be present within the near surface materials, due to presence surface workings, which may pose a theoretical risk to future site users, the presence of such material would need to be confirmed through ground investigation. If the site is too likely to require significant areas of cut and fill within the context of any future development, deeper Made Ground / re-worked materials may also require assessment in the event that the final design involves this material being placed within the top 1m of the final soil profile.

Given the previous history and works undertaken on the site and the potential reprofiling works, the potential for asbestos containing materials to be present within the Made Ground and demolition material cannot be discounted. Associated risks to human receptors (site users and constructors) have therefore been highlighted and screening of near soil samples will be required to confirm the risk assessment process prior to any future development on the site.

Additional risks to site construction workers would need to be managed through the use of PPE/RPE and the adoption of good hygiene practices on site.

Recent published information by BGS and UK HAS, in 2022, shows the site to be in bands of elevated radon potential, with significant changes across the site. The entire site has changed with the maximum radon potential of 10-30%. This has implications for radon protection measures for new developments, where full radon protection measures may be required. The information now classifies the site as a 'high risk' and site-specific Radon Report is deemed necessary for the site to confirm the level of protection required.

Analysis of available UXO data confirmed a detailed UXO risk assessment is not required for the site as the site is classified as a 'low risk'.

In terms of the risk posed to the wider environment (the underlying undifferentiated, Secondary A aquifers and the River Afan) the risks are considered to be of a low to moderate order of magnitude, largely based on the unknown nature of the made ground materials on the site and the assumption that groundwater is present in the shallow strata beneath the site.

9.1.2 Geotechnical

The site is underlain by superficial River Tidal Flat Deposits, Glacial Till Deposits or Alluvium Deposits which comprise of sand and gravel, underlain in turn by the bedrock South Wales Middle and Upper Coal Measures Formation, comprising sandstone, siltstone and mudstone. The superficial Deposits are likely to be groundwater bearing.

The superficial Deposits tend to provide fairly good founding conditions for traditional shallow foundations. Piling down to the South Wales Middle and Upper Coal Measure Formation is another

possible foundation option for the site. The site is not considered to be 'high risk' with respect to any of the BGS geohazard ratings.

Due to the long history of usage of the site and its location in a highly industrialised area, Made Ground is likely to be present across the site. The extent, thickness and composition of the Made Ground, in addition to in ground obstructions from previous phases of development, are likely to form the main geotechnical constraints on the site.

9.2 RECOMMENDATIONS

9.2.1 Potential Constraints

Prior to development proceeding, ground investigation will be required to facilitate the following:

- Investigation, logging and sampling of general ground conditions (superficial deposits and made ground soils) to assess the variability of soils and assess the depth to competent strata and/ or bedrock;
- Installation of land gas and groundwater monitoring wells;
- Geotechnical testing of soils (in situ and laboratory);
- Chemical laboratory testing of soils, soil derived leachate and groundwater chemistry for a range of contaminants including heavy metals, polycyclic aromatic hydrocarbons (PAHs), speciated hydrocarbons and PCBs.
- Return visits to monitor land gas (in line with CIRIA 665 guidance) and groundwater;
- An interpretive land quality assessment including development of a refined conceptual site model (based on site specific data) and a qualitative risk assessment (compliant with UK CLR guidance and CIRIA 552 methodology) within the context of a commercial land use scenario;
- An interpretive geotechnical assessment of ground properties with respect to the proposed development of the site, including assessment of likely solutions for foundations, floor slabs and hard surface areas, feasibility of soakaway drainage, sulphate chemical attack and other salient matters such as potential requirements for ground stabilisation.

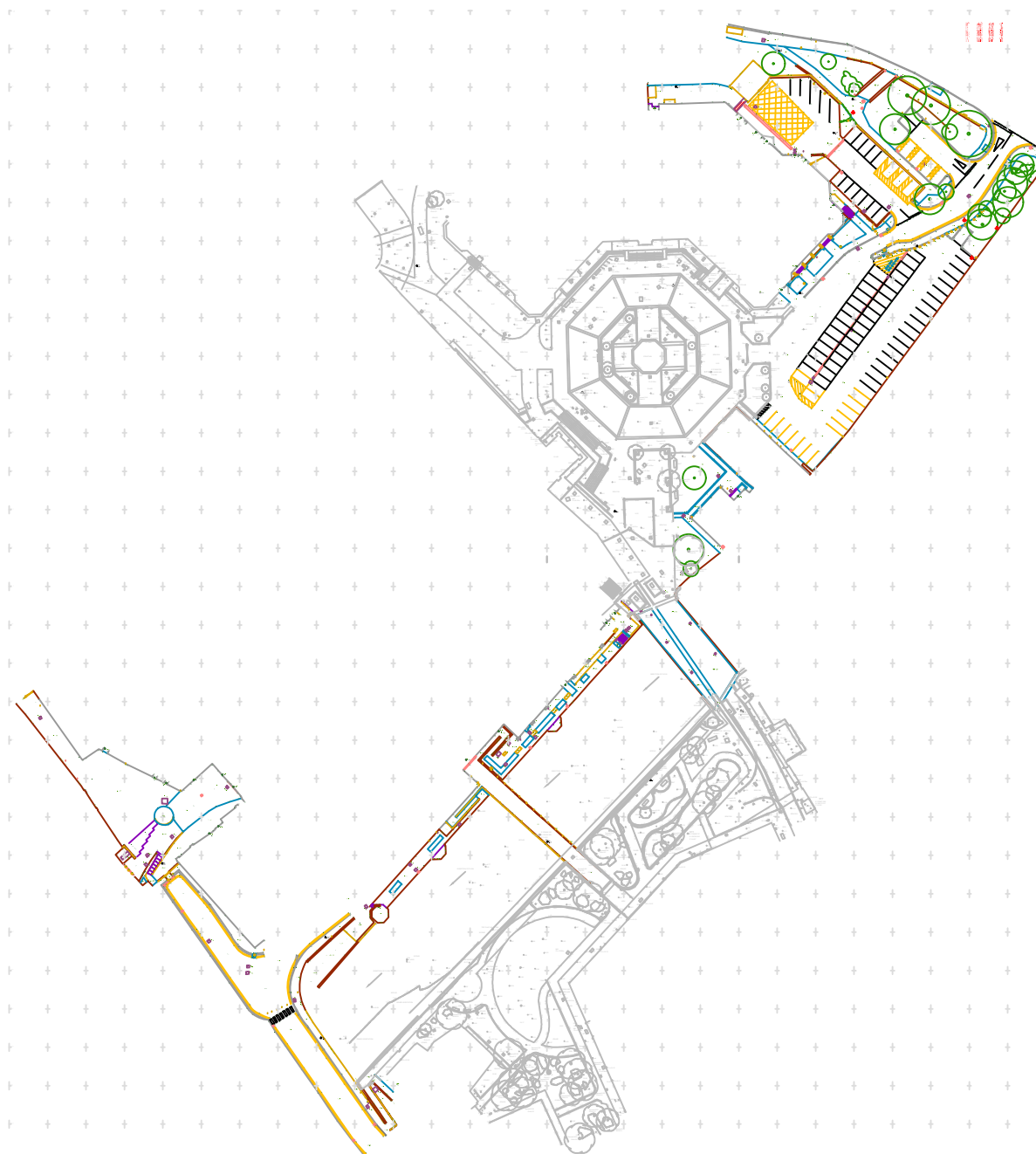
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FIGURES

Figure 1 – Site Location Plan

Figure 2 – Site Layout Plan



Coordinate System

This survey has been oriented to the Ordnance Survey (OS) National Grid and Datum using GPS observations and the OS Active Network.

A true OS coordinate was established near to the centre of the site. This survey has been oriented to this point. Further OS coordinates were established to create a true OS bearing for angle orientation.

No scale factor has been applied to this survey. The coordinates shown

	Nutzen
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1. Dimensions should not be scaled. All dimensions should be verified on site prior to construction.
2. All dimension and levels are in metres unless otherwise stated.
3. Some detail may have been obscured by parked vehicles, stored materials, overgrown vegetation, and leaf litter.
4. All data shall remain Copyright of Geosila Surveyors unless formally agreed otherwise.
5. The surveyed boundary features may not be legal boundaries.
6. Geosila Surveyors cannot accept any responsibility for any damage to structural systems or other services which may be contained in the data/files supplied.

Key to Abbreviations

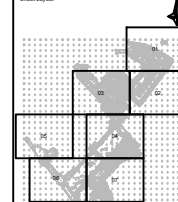
[illegible]

Lingross & Symbols

LineTypes & Symbols

	Basics		Banking
	Buildings		Flow Direction
	Building Overhead		Gate
	Change of Surface		Survey Station
	Fences		Tree
	Kerbs		
	Overhead Cables		
	Ridges & Gaves		
	Steps		
	Walls		
	Vegetation		
	Tree Canopy		
	Combined Water		
	Foul Water		

Sheet Layout



A	22.03.24	CU	Survey updated.
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Title: **Topographical Survey**

Project: Princess Theatre

Client: **Morgan Sindall**

Drawn: CU	Checked: DR
Date: 18-03-2024	Scale: 1:100 @ A0
Drawing Number: 3348-T Overview	Rev: A

Drawing Number:	3348-T Overview	Rev.	A
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APPENDIX A: REPORT CONDITIONS

APPENDIX A – REPORT CONDITIONS

GEO-ENVIRONMENTAL DESK TOP REVIEW

This report is produced solely for the benefit of Morgan Sindall and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a study of readily accessible referenced historical records. Some of the opinions are based on unconfirmed data and information and are presented in good faith without exhaustive clarification. Where ground conditions are discussed but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to detailed activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, we are unable to give categorical assurances that they will be accepted by Authorities or Funds etc. without question, as such bodies may have unpublished, often more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Tetra Tech. In time improved practices or amended guidance may necessitate a re-assessment. The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites.

APPENDIX B: GROUNDSURE REPORT

PRINCESS ROYAL THEATRE, PORT TALBOT CIVIC CENTRE, ACCESS TO PORT TALBOT CIVIC CENTRE, PORT TALBOT, NEATH PORT TALBOT, SA13 1PJ

Order Details

Date: 12/04/2024
Your ref: 784-B046183 Princess Theatre (PO 7015226)
Our Ref: GS-7RP-CTZ-J25-UOP

Site Details

Location: 276532 190225
Area: 1.9 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

[p.14 >](#) groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	24	15	38	61	-
21 >	1.2 >	Historical tanks >	0	2	15	54	-
23 >	1.3 >	Historical energy features >	0	2	7	21	-
25	1.4	Historical petrol stations	0	0	0	0	-
25 >	1.5 >	Historical garages >	0	1	7	16	-
26	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
27 >	2.1 >	Historical industrial land uses >	12	19	47	70	-
33 >	2.2 >	Historical tanks >	0	3	21	85	-
37 >	2.3 >	Historical energy features >	0	3	10	27	-
39	2.4	Historical petrol stations	0	0	0	0	-
39 >	2.5 >	Historical garages >	0	2	9	37	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
42	3.1	Active or recent landfill	0	0	0	0	-
42	3.2	Historical landfill (BGS records)	0	0	0	0	-
43	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
43	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
43 >	3.5 >	Historical waste sites >	0	0	0	8	-
44 >	3.6 >	Licensed waste sites >	0	0	0	30	-
52 >	3.7 >	Waste exemptions >	0	2	0	17	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
55 >	4.1 >	Recent industrial land uses >	0	4	13	-	-
57 >	4.2 >	Current or recent petrol stations >	0	0	1	0	-
57	4.3	Electricity cables	0	0	0	0	-
57	4.4	Gas pipelines	0	0	0	0	-
57	4.5	Sites determined as Contaminated Land	0	0	0	0	-



57	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
58	4.7	Regulated explosive sites	0	0	0	0	-
58	4.8	Hazardous substance storage/usage	0	0	0	0	-
58	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
58	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
58 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	2	0	-
59	4.12	Radioactive Substance Authorisations	0	0	0	0	-
59 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	2	1	-
60	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
60	4.15	Pollutant release to public sewer	0	0	0	0	-
60	4.16	List 1 Dangerous Substances	0	0	0	0	-
60	4.17	List 2 Dangerous Substances	0	0	0	0	-
61 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	4	15	-
63	4.19	Pollution inventory substances	0	0	0	0	-
63	4.20	Pollution inventory waste transfers	0	0	0	0	-
63	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
64 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
66 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
68 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
69	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
69	5.5	Groundwater vulnerability- local information	None (within 0m)				
71 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	1
72 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	1	25
77 >	5.8 >	<u>Potable abstractions ></u>	0	0	0	0	1
78	5.9	Source Protection Zones	0	0	0	0	-
78	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
79 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	1	4	4	-	-



80 >	6.2 >	Surface water features >	1	4	5	-	-
81 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
81 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
81 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
83 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
84	7.2	Historical Flood Events	0	0	0	-	-
84 >	7.3 >	Flood Defences >	2	3	8	-	-
85 >	7.4 >	Areas Benefiting from Flood Defences >	2	12	37	-	-
87	7.5	Flood Storage Areas	0	0	0	-	-
88 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
89 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
90 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
92 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
93	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
94	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
94	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
94	10.4	Special Protection Areas (SPA)	0	0	0	0	0
94	10.5	National Nature Reserves (NNR)	0	0	0	0	0
95	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
95 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	21
96	10.8	Biosphere Reserves	0	0	0	0	0
96	10.9	Forest Parks	0	0	0	0	0
96	10.10	Marine Conservation Zones	0	0	0	0	0
97	10.11	Green Belt	0	0	0	0	0
97	10.12	Proposed Ramsar sites	0	0	0	0	0

97	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
97	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
97	10.15	Nitrate Sensitive Areas	0	0	0	0	0
98	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
99	10.17	SSSI Impact Risk Zones	0	-	-	-	-
99	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
100	11.1	World Heritage Sites	0	0	0	-	-
101	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
101	11.3	National Parks	0	0	0	-	-
101 >	11.4 >	Listed Buildings >	4	0	6	-	-
102	11.5	Conservation Areas	0	0	0	-	-
103	11.6	Scheduled Ancient Monuments	0	0	0	-	-
103	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
104 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
105 >	12.2 >	Open Access Land >	0	0	2	-	-
105	12.3	Tree Felling Licences	0	0	0	-	-
105	12.4	Environmental Stewardship Schemes	0	0	0	-	-
106	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
107	13.1	Priority Habitat Inventory	0	0	0	-	-
107	13.2	Habitat Networks	0	0	0	-	-
107	13.3	Open Mosaic Habitat	0	0	0	-	-
107	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
108 >	14.1 >	10k Availability >	Identified (within 500m)				
109 >	14.2 >	Artificial and made ground (10k) >	2	1	5	2	-
111 >	14.3 >	Superficial geology (10k) >	6	1	5	1	-

112 >	14.4 >	Landslip (10k) >	0	0	1	0	-
113 >	14.5 >	Bedrock geology (10k) >	3	2	4	16	-
115 >	14.6 >	Bedrock faults and other linear features (10k) >	2	0	6	12	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
117 >	15.1 >	50k Availability >	Identified (within 500m)				
118 >	15.2 >	Artificial and made ground (50k) >	2	0	2	1	-
119 >	15.3 >	Artificial ground permeability (50k) >	2	1	-	-	-
120 >	15.4 >	Superficial geology (50k) >	3	0	1	1	-
121 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
121 >	15.6 >	Landslip (50k) >	0	0	1	0	-
122	15.7	Landslip permeability (50k)	None (within 50m)				
123 >	15.8 >	Bedrock geology (50k) >	3	1	4	13	-
125 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
125 >	15.10 >	Bedrock faults and other linear features (50k) >	2	0	4	10	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
127 >	16.1 >	BGS Boreholes >	1	19	77	-	-
Page	Section	Natural ground subsidence >					
132 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
134 >	17.2 >	Running sands >	Moderate (within 50m)				
136 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
138 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
140 >	17.5 >	Landslides >	Very low (within 50m)				
142 >	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
144 >	18.1 >	BritPits >	0	0	2	3	-
145 >	18.2 >	Surface ground workings >	3	0	22	-	-
147	18.3	Underground workings	0	0	0	0	0
147	18.4	Underground mining extents	0	0	0	0	-
147	18.5	Historical Mineral Planning Areas	0	0	0	0	-



147	18.6	Non-coal mining	0	0	0	0	0
147	18.7	JPB mining areas	None (within 0m)				
148	18.8	The Coal Authority non-coal mining	0	0	0	0	-
148	18.9	Researched mining	0	0	0	0	-
148	18.10	Mining record office plans	0	0	0	0	-
148	18.11	BGS mine plans	0	0	0	0	-
149 >	18.12 >	Coal mining >	Identified (within 0m)				
149	18.13	Brine areas	None (within 0m)				
149	18.14	Gypsum areas	None (within 0m)				
149	18.15	Tin mining	None (within 0m)				
149	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
150	19.1	Natural cavities	0	0	0	0	-
150	19.2	Mining cavities	0	0	0	0	0
150	19.3	Reported recent incidents	0	0	0	0	-
150	19.4	Historical incidents	0	0	0	0	-
151	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
152 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
154 >	21.1 >	BGS Estimated Background Soil Chemistry >	7	2	-	-	-
155 >	21.2 >	BGS Estimated Urban Soil Chemistry >	8	6	-	-	-
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	2	-	-
157 >	22.4 >	Historical railway and tunnel features >	10	25	24	-	-
159	22.5	Royal Mail tunnels	0	0	0	-	-



160 >	22.6 >	Historical railways >	1	0	1	-	-
160 >	22.7 >	Railways >	0	10	15	-	-
161	22.8	Crossrail 1	0	0	0	0	-
161	22.9	Crossrail 2	0	0	0	0	-
161	22.10	HS2	0	0	0	0	-

Recent aerial photograph



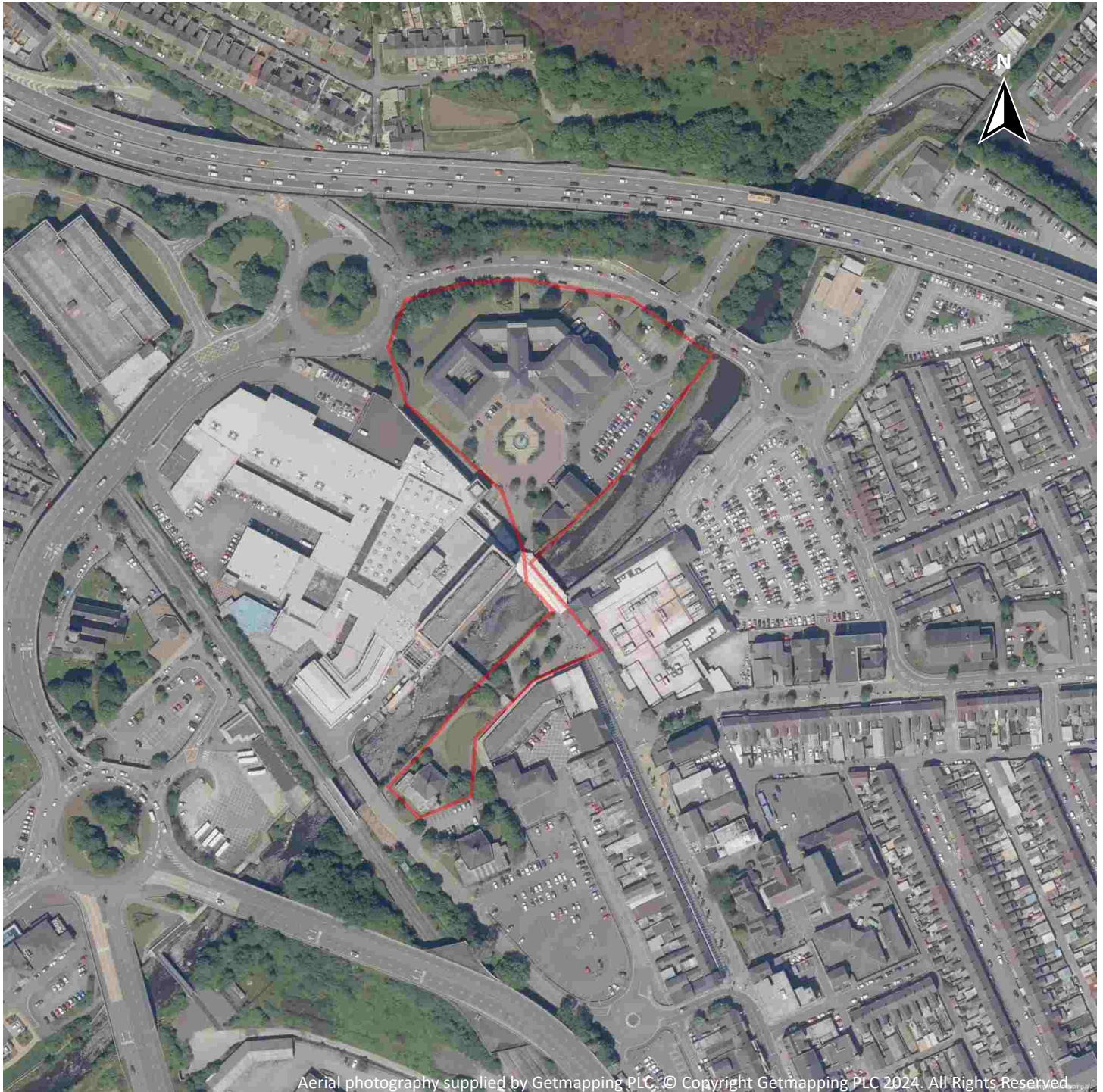
Aerial photography supplied by Getmapping PLC, © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 14/04/2020

Site Area: 1.9ha



Recent site history - 2017 aerial photograph



Capture Date: 26/05/2017

Site Area: 1.9ha



Recent site history - 2014 aerial photograph

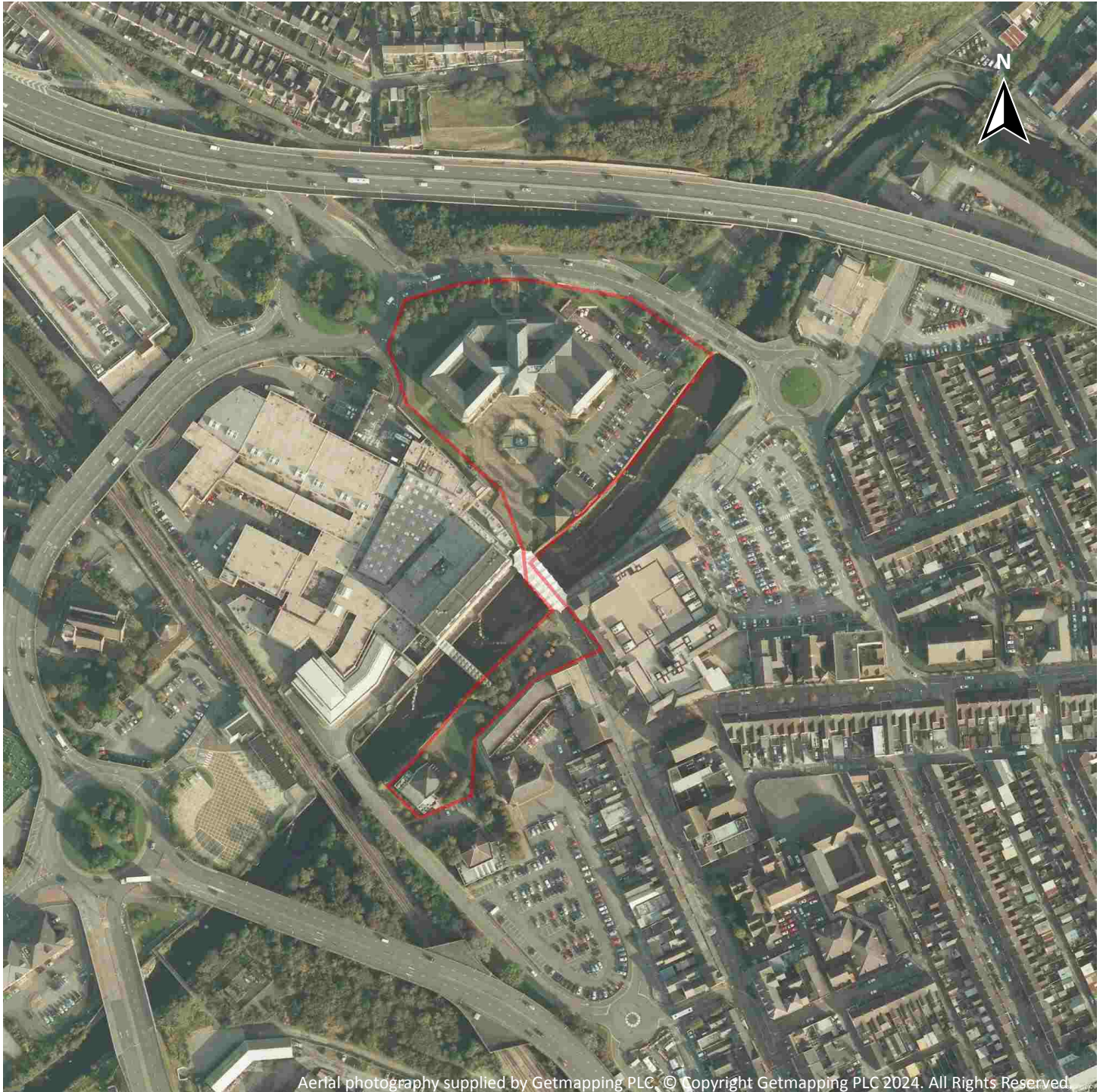


Capture Date: 23/07/2014

Site Area: 1.9ha



Recent site history - 2009 aerial photograph



Capture Date: 13/10/2009

Site Area: 1.9ha



Recent site history - 2000 aerial photograph



Capture Date: 18/06/2000

Site Area: 1.9ha



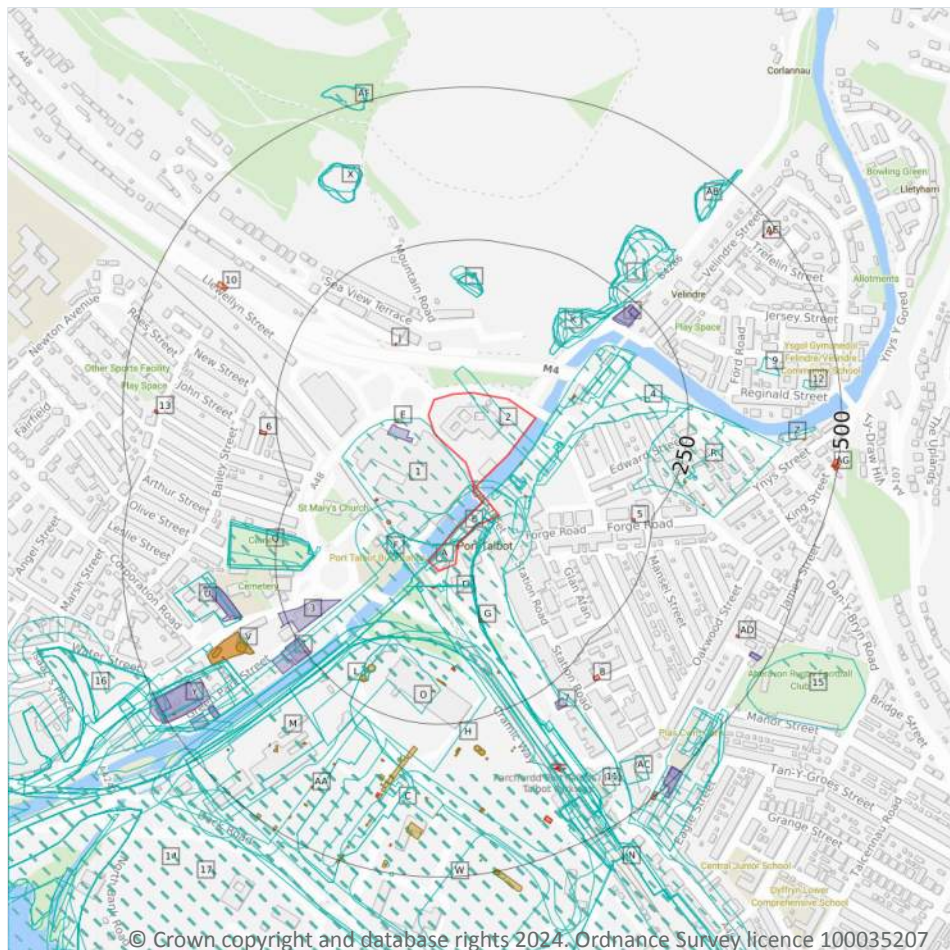
OS MasterMap site plan



Site Area: 1.9ha



1 Past land use



- 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

138

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 15](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Commercial/Industrial	1978	331180



ID	Location	Land use	Dates present	Group ID
2	On site	Cuttings	1877	336809
A	On site	Railway Buildings	1947	319113
B	On site	Railway Building	1957	323577
B	On site	Railway Building	1897	323575
B	On site	Railway Sidings	1957	369990
C	On site	Railway Sidings	1921	339301
C	On site	Railway Sidings	1921	339302
C	On site	Railway Sidings	1914	339303
C	On site	Railway Sidings	1921	339304
C	On site	Railway Sidings	1921	339292
C	On site	Railway Sidings	1921	339293
C	On site	Railway Sidings	1914	339294
C	On site	Railway Sidings	1914	339295
C	On site	Railway Sidings	1914	339296
C	On site	Railway Sidings	1921	339297
C	On site	Railway Sidings	1921	339298
C	On site	Railway Sidings	1914	339299
C	On site	Railway Sidings	1914	339300
C	On site	Railway Sidings	1914	339723
C	On site	Railway Sidings	1947	363275
C	On site	Dock	1914 - 1921	365006
C	On site	Old Dock	1947	368853
D	On site	Railway Sidings	1897	367883
B	8m S	Railway Buildings	1897	319114
B	9m S	Railway Building	1957	323574
A	20m S	Railway Building	1897	323576
B	22m E	Railway Sidings	1914 - 1947	367884
C	24m S	Railway Sidings	1962 - 1969	344615



ID	Location	Land use	Dates present	Group ID
C	24m S	Railway Sidings	1947	368145
B	27m E	Railway Sidings	1897	377317
B	27m SE	Railway Station	1897 - 1921	368293
B	29m SE	Railway Station	1957	346027
B	30m SE	Railway Station	1947	372028
A	40m S	Railway Building	1897	348914
A	40m S	Railway Building	1947	372464
B	43m SE	Railway Building	1914 - 1921	366574
F	50m SW	Bus Station	1995	363503
F	50m SW	Bus Station	1978	373903
B	51m E	Railway Buildings	1957	319115
B	52m E	Police Station	1897	332702
B	56m E	Railway Building	1914 - 1921	380114
B	80m NE	Railway Buildings	1897	319111
B	98m NE	Railway Building	1914 - 1921	351868
H	100m S	Railway Sidings	1979	343807
I	100m NE	Unspecified Quarry	1978	345104
I	100m NE	Unspecified Quarry	1995	354688
C	101m S	Industrial Estate	1991	323037
C	111m S	Unspecified Works	1965	376034
C	115m S	Steel Works	1947	349499
C	116m S	Steel Works	1914 - 1921	371804
K	118m NE	Unspecified Old Quarries	1957	329287
I	120m NE	Unspecified Quarries	1921 - 1947	341749
I	120m NE	Unspecified Quarries	1914	375635
K	125m NE	Unspecified Quarries	1897	342663
L	129m SW	Iron Foundry	1897	338096
M	129m SW	Railway Sidings	1897	344340



ID	Location	Land use	Dates present	Group ID
N	131m S	Railway Sidings	1991	357464
O	135m S	Unspecified Depot	1979	321587
B	145m NE	Railway Building	1897	323579
M	153m SW	Unspecified Works	1979	342355
P	156m N	Unspecified Pit	1957 - 1978	360573
P	156m N	Unspecified Pit	1995	372834
P	160m N	Unspecified Pit	1947	355966
P	166m N	Unspecified Quarry	1897	325648
P	169m N	Unspecified Old Quarry	1914 - 1921	368275
Q	178m SW	Cemetery	1897	368390
4	181m E	Railway Building	1921	323580
Q	185m SW	Cemetery	1914 - 1947	349890
L	187m SW	Unspecified Tanks	1979	348199
L	187m SW	Unspecified Tanks	1991	351306
Q	187m SW	Cemetery	1957	372921
Q	188m SW	Cemetery	1978	356885
Q	188m SW	Cemetery	1995	370998
R	193m E	Railway Sidings	1897	341012
R	196m E	Disused Tin Plate Works	1897	320589
I	243m NE	Unspecified Old Quarries	1957	329286
I	253m NE	Unspecified Quarries	1897	358247
R	267m E	Unspecified Tank	1897	320087
R	275m E	Unspecified Tank	1897	320086
C	307m S	Unspecified Tank	1914 - 1921	356186
M	308m SW	Tin Plate Works	1897	321981
U	320m SW	Unspecified Commercial/Industrial	1914	331179
U	320m SW	Sawmill	1897	339201
V	324m SW	Unspecified Tank	1897 - 1921	379090



ID	Location	Land use	Dates present	Group ID
W	329m S	Unspecified Commercial/Industrial	1965	331178
N	330m S	Railway Building	1965	323578
C	347m S	Unspecified Works	1979	320954
X	351m NW	Unspecified Old Quarry	1914 - 1947	352170
X	352m NW	Unspecified Ground Workings	1978	344697
X	352m NW	Unspecified Ground Workings	1995	363223
X	353m NW	Unspecified Old Quarry	1957	342805
N	353m S	Railway Station	1965	376820
Y	360m SW	Unspecified Commercial/Industrial	1947	331181
Y	360m SW	Railway Sidings	1947	355831
Y	360m SW	Disused Tin Plate Works	1897	320588
N	361m S	Railway Station	1979	341515
X	366m NW	Unspecified Quarry	1897	325647
Y	370m SW	Unspecified Works	1965	320924
9	371m E	Unspecified Pit	1877	335800
Y	372m SW	Unspecified Depot	1991	321588
Y	386m SW	Railway Sidings	1897 - 1914	359240
Z	400m E	Railway Buildings	1897	319112
11	413m S	Police Station	1947	332701
AB	418m NE	Unspecified Old Quarries	1957	373217
AC	421m SE	Police Station	1991	365064
AC	421m SE	Police Station	1979	380220
AB	421m NE	Unspecified Old Quarries	1921 - 1947	347681
AB	421m NE	Unspecified Old Quarries	1914	353417
AB	423m NE	Unspecified Quarry	1978	325649
AB	423m NE	Unspecified Ground Workings	1995	333227
Y	429m SW	Railway Sidings	1965	377410
N	433m S	Railway Building	1897	323584



ID	Location	Land use	Dates present	Group ID
W	437m S	Unspecified Disused Works	1979	326425
12	440m E	Cuttings	1877	336810
AC	447m SE	Railway Sidings	1914 - 1921	356692
N	459m S	Railway Building	1947	323586
AC	462m SE	Railway Building	1921	323601
AC	464m SE	Sawmill	1897	339202
N	464m S	Railway Station	1991	365629
AC	471m SE	Railway Building	1921	323602
N	471m S	Railway Station	1947	357582
AC	478m SE	Railway Building	1921	323581
AC	481m SE	Railway Sidings	1947	366564
AC	483m SE	Railway Sidings	1897	364163
C	485m S	Unspecified Tank	1914	320089
AF	488m N	Unspecified Old Quarries	1947	379912
AF	489m N	Unspecified Old Quarries	1957	372064
14	490m SW	Old Dock	1914	346704
15	493m SE	Unspecified Pit	1965	335799
AC	494m SE	Railway Building	1921	323600
AC	494m SE	Railway Building	1921	323582
N	495m S	Railway Building	1914	323587
W	497m S	Unspecified Tanks	1965	328418
16	497m SW	Tin Plate Works	1914 - 1921	360819
C	498m S	Unspecified Tank	1914 - 1921	348428
17	499m SW	Timber Yard	1947	331035
AC	499m SE	Railway Building	1921	323583

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

71

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	24m E	Unspecified Tank	1917	38523
E	50m W	Unspecified Tank	1988 - 1993	42679
B	52m SE	Unspecified Tank	1968	40293
B	52m SE	Unspecified Tank	1967	43728
B	67m NE	Unspecified Tank	1917 - 1939	43841
B	71m NE	Unspecified Tank	1950	38325
G	99m S	Unspecified Tank	1968	40196
G	99m S	Unspecified Tank	1962	43123
G	99m S	Unspecified Tank	1950	44580
G	99m S	Unspecified Tank	1968	41995
G	99m S	Unspecified Tank	1951	42606
O	176m S	Tanks	1979	39668
O	180m S	Tanks	1971 - 1979	43159
L	187m SW	Unspecified Tank	1979 - 1991	41779
D	189m S	Unspecified Tank	1950 - 1951	40386
O	194m S	Unspecified Tank	1951	43880
L	209m SW	Unspecified Tank	1979 - 1991	41088
R	263m E	Unspecified Tank	1876	38518
C	289m S	Unspecified Tank	1917 - 1939	40932
H	290m S	Unspecified Tank	1950	41180
H	291m S	Unspecified Tank	1951	42578



ID	Location	Land use	Dates present	Group ID
H	292m S	Tanks	1962	39664
H	292m S	Unspecified Tank	1950 - 1951	41577
H	298m S	Unspecified Tank	1939	38525
H	300m S	Unspecified Tank	1950 - 1951	40560
R	308m E	Unspecified Tank	1876	38517
C	308m S	Unspecified Tank	1939	43641
C	312m S	Unspecified Tank	1917	38159
H	313m S	Unspecified Tank	1950	40477
H	313m S	Unspecified Tank	1951	40666
H	315m S	Unspecified Tank	1917	38529
H	316m S	Unspecified Tank	1939	38530
C	321m S	Unspecified Tank	1951	40195
V	322m SW	Gas Works	1881 - 1899	44544
V	329m SW	Gasometer	1899	39890
C	342m S	Unspecified Tank	1951	44179
C	345m S	Unspecified Tank	1951	40347
M	355m SW	Tanks	1951	40632
C	355m S	Tanks	1951	42580
C	357m SW	Unspecified Tank	1979 - 1991	43318
C	360m S	Unspecified Tank	1939	38156
C	363m S	Unspecified Tank	1939	38157
V	367m SW	Gasometers	1881	39181
C	370m S	Unspecified Tank	1951	40101
M	388m SW	Unspecified Tank	1939	38160
H	393m S	Tanks	1991 - 1996	41217
M	393m SW	Unspecified Tank	1917	38163
H	394m S	Unspecified Tank	1988	38524
M	394m SW	Unspecified Tank	1917	38162



ID	Location	Land use	Dates present	Group ID
C	397m S	Unspecified Tank	1917	38158
AA	408m SW	Tanks	1979	39669
C	413m S	Unspecified Tank	1917 - 1951	42961
C	421m S	Tanks	1979	39675
C	428m S	Tanks	1979	39674
AA	438m SW	Tanks	1971 - 1979	43095
Z	439m E	Unspecified Tank	1949 - 1952	41166
M	448m SW	Tanks	1951	40399
C	452m S	Unspecified Tank	1951	42207
M	461m SW	Unspecified Tank	1951	43769
AA	468m SW	Unspecified Tank	1979	38155
C	473m S	Unspecified Tank	1979	38153
W	477m S	Unspecified Tank	1939	38526
C	481m S	Unspecified Tank	1951 - 1968	42253
Y	484m SW	Unspecified Tank	1967 - 1971	42830
C	487m S	Unspecified Tank	1917 - 1939	41019
C	488m S	Tanks	1979	39671
AA	494m SW	Unspecified Tank	1951	40070
AA	494m SW	Unspecified Tank	1951	40056
W	497m S	Tanks	1968	40383
W	498m S	Unspecified Tank	1962	38528
C	499m S	Tanks	1979	39672

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

30

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	25m S	Gas Governor	1991 - 1993	21346
A	25m S	Gas Governor	1988	21022
F	88m SW	Electricity Substation	1968	19320
J	109m NW	Electricity Substation	1988	20427
J	110m NW	Electricity Substation	1993	23078
F	128m SW	Electricity Substation	1988 - 1993	21818
O	158m S	Electricity Substation	1979 - 1991	21866
O	158m S	Electricity Transformer	1971	19803
5	218m SE	Electricity Substation	1993 - 1999	22062
6	266m W	Electricity Substation	1988 - 1993	21375
8	291m SE	Electricity Substation	1996	19321
V	322m SW	Gas Works	1881 - 1899	23085
V	329m SW	Gasometer	1899	20030
V	367m SW	Gasometers	1881	19719
C	372m S	Electricity Substation	1979	19285
C	375m S	Electricity Substation	1991	19286
C	376m S	Electricity Substation	1971	19288
10	384m NW	Electricity Substation	1950	19330
AD	435m SE	Electricity Substation	1988	19322
N	437m S	Electricity Substation	1996	21842
N	437m S	Electricity Substation	1988 - 1991	21767
13	442m W	Electricity Substation	1988 - 1993	20266
AE	475m NE	Electricity Transformer	1968	19804
AE	486m NE	Electricity Transformer	1968	19805
AE	486m NE	Electricity Substation	1992	19329
AG	490m E	Electricity Substation	1991	19326



ID	Location	Land use	Dates present	Group ID
AG	491m E	Electricity Substation	1952	19325
AC	493m SE	Electricity Substation	1950 - 1951	21821
AC	494m SE	Electricity Substation	1991	22951
AG	495m E	Electricity Substation	1949 - 1952	23135

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	24
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
E	36m W	Garage	1967 - 1968	7369
3	157m SW	Garage	1979	6667
S	205m NE	Garage	1988 - 1992	7385
S	207m NE	Garage	1968	6858
S	227m NE	Garage	1993 - 1999	7560
S	229m NE	Garage	1967	6849
T	244m SW	Garage	1979	6896

ID	Location	Land use	Dates present	Group ID
T	244m SW	Garage	1991	7204
7	279m S	Garage	1968 - 1996	8007
T	279m SW	Garage	1951 - 1957	7609
U	318m SW	Garage	1951 - 1979	7975
U	318m SW	Garage	1968	7331
U	319m SW	Garage	1991	7003
Y	419m SW	Repair Works	1967 - 1968	7874
Y	424m SW	Garage	1979 - 1991	7645
Y	425m SW	Garage	1967 - 1971	7428
Y	438m SW	Repair Works	1971	7066
Y	446m SW	Garage	1979 - 1991	7763
AD	468m SE	Garage	1996	6878
AD	469m SE	Garage	1988 - 1991	7486
Y	483m SW	Garage	1979 - 1991	7666
AC	484m SE	Garage	1996	7162
AC	485m SE	Garage	1950 - 1968	7950
AC	485m SE	Garage	1988 - 1991	7862

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

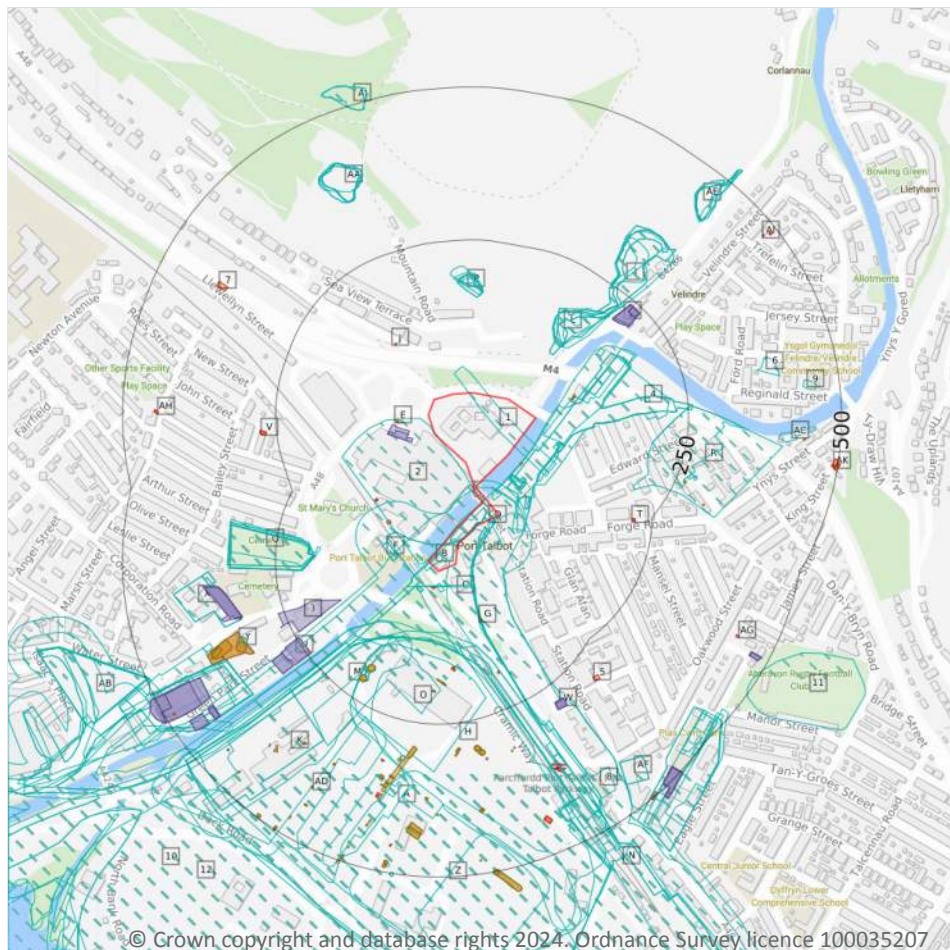
0

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

148

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 27](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Cuttings	1877	336809
2	On site	Unspecified Commercial/Industrial	1978	331180
A	On site	Railway Sidings	1947	363275



ID	Location	Land Use	Date	Group ID
A	On site	Old Dock	1947	368853
A	On site	Dock	1921	365006
A	On site	Railway Sidings	1914	339723
A	On site	Railway Sidings	1921	339292
B	On site	Railway Buildings	1947	319113
C	On site	Railway Sidings	1897	367883
D	On site	Railway Building	1897	323575
D	On site	Railway Sidings	1957	369990
D	On site	Railway Building	1957	323577
D	8m S	Railway Buildings	1897	319114
D	9m S	Railway Building	1957	323574
B	20m S	Railway Building	1897	323576
D	22m E	Railway Sidings	1947	367884
A	24m S	Railway Sidings	1965	344615
D	25m SE	Railway Sidings	1921	367884
D	27m E	Railway Sidings	1897	377317
D	27m SE	Railway Station	1897	368293
D	27m SE	Railway Station	1914	368293
D	27m SE	Railway Station	1921	368293
D	29m SE	Railway Station	1957	346027
D	30m SE	Railway Station	1947	372028
D	30m SE	Railway Sidings	1914	367884
B	40m S	Railway Building	1947	372464
B	40m S	Railway Building	1897	348914
D	43m SE	Railway Building	1914	366574
D	44m SE	Railway Building	1921	366574
F	50m SW	Bus Station	1978	373903
F	50m SW	Bus Station	1995	363503



ID	Location	Land Use	Date	Group ID
D	51m E	Railway Buildings	1957	319115
D	52m E	Police Station	1897	332702
D	56m E	Railway Building	1914	380114
D	56m E	Railway Building	1921	380114
D	80m NE	Railway Buildings	1897	319111
D	98m NE	Railway Building	1914	351868
D	98m NE	Railway Building	1921	351868
H	100m S	Railway Sidings	1979	343807
I	100m NE	Unspecified Quarry	1978	345104
I	100m NE	Unspecified Quarry	1995	354688
A	101m S	Industrial Estate	1991	323037
H	111m S	Unspecified Works	1965	376034
K	114m SW	Unspecified Works	1965	376034
A	115m S	Steel Works	1947	349499
A	116m S	Steel Works	1914	371804
A	116m S	Steel Works	1921	371804
L	118m NE	Unspecified Old Quarries	1957	329287
I	120m NE	Unspecified Quarries	1947	341749
I	120m NE	Unspecified Quarries	1914	375635
I	120m NE	Unspecified Quarries	1921	341749
L	125m NE	Unspecified Quarries	1897	342663
K	129m SW	Railway Sidings	1897	344340
M	129m SW	Iron Foundry	1897	338096
N	131m S	Railway Sidings	1991	357464
O	135m S	Unspecified Depot	1979	321587
D	145m NE	Railway Building	1897	323579
K	153m SW	Unspecified Works	1979	342355
P	156m N	Unspecified Pit	1957	360573



ID	Location	Land Use	Date	Group ID
P	156m N	Unspecified Pit	1995	372834
P	160m N	Unspecified Pit	1947	355966
P	166m N	Unspecified Quarry	1897	325648
P	169m N	Unspecified Old Quarry	1914	368275
P	171m N	Unspecified Old Quarry	1921	368275
P	175m N	Unspecified Pit	1978	360573
Q	178m SW	Cemetery	1897	368390
4	181m E	Railway Building	1921	323580
Q	185m SW	Cemetery	1947	349890
Q	185m SW	Cemetery	1914	349890
Q	185m SW	Cemetery	1921	349890
M	187m SW	Unspecified Tanks	1991	351306
M	187m SW	Unspecified Tanks	1979	348199
Q	187m SW	Cemetery	1957	372921
Q	188m SW	Cemetery	1978	356885
Q	188m SW	Cemetery	1995	370998
R	193m E	Railway Sidings	1897	341012
R	196m E	Disused Tin Plate Works	1897	320589
I	243m NE	Unspecified Old Quarries	1957	329286
I	253m NE	Unspecified Quarries	1897	358247
R	267m E	Unspecified Tank	1897	320087
R	275m E	Unspecified Tank	1897	320086
A	307m S	Unspecified Tank	1914	356186
A	307m S	Unspecified Tank	1921	356186
K	308m SW	Tin Plate Works	1897	321981
X	320m SW	Sawmill	1897	339201
X	320m SW	Unspecified Commercial/Industrial	1914	331179
Y	324m SW	Unspecified Tank	1897	379090



ID	Location	Land Use	Date	Group ID
Y	324m SW	Unspecified Tank	1914	379090
Y	324m SW	Unspecified Tank	1921	379090
Z	329m S	Unspecified Commercial/Industrial	1965	331178
N	330m S	Railway Building	1965	323578
A	347m S	Unspecified Works	1979	320954
AA	351m NW	Unspecified Old Quarry	1947	352170
AA	351m NW	Unspecified Old Quarry	1914	352170
AA	351m NW	Unspecified Old Quarry	1921	352170
AA	352m NW	Unspecified Ground Workings	1978	344697
AA	352m NW	Unspecified Ground Workings	1995	363223
AA	353m NW	Unspecified Old Quarry	1957	342805
N	353m S	Railway Station	1965	376820
AB	360m SW	Railway Sidings	1947	355831
AB	360m SW	Unspecified Commercial/Industrial	1947	331181
AB	360m SW	Disused Tin Plate Works	1897	320588
N	361m S	Railway Station	1979	341515
AA	366m NW	Unspecified Quarry	1897	325647
AB	370m SW	Unspecified Works	1965	320924
6	371m E	Unspecified Pit	1877	335800
AB	372m SW	Unspecified Depot	1991	321588
AB	386m SW	Railway Sidings	1897	359240
AC	400m E	Railway Buildings	1897	319112
8	413m S	Police Station	1947	332701
AE	418m NE	Unspecified Old Quarries	1957	373217
AF	421m SE	Police Station	1991	365064
AF	421m SE	Police Station	1979	380220
AE	421m NE	Unspecified Old Quarries	1947	347681
AE	421m NE	Unspecified Old Quarries	1914	353417



ID	Location	Land Use	Date	Group ID
AE	421m NE	Unspecified Old Quarries	1921	347681
AE	423m NE	Unspecified Quarry	1978	325649
AE	423m NE	Unspecified Ground Workings	1995	333227
AB	429m SW	Railway Sidings	1965	377410
N	433m S	Railway Building	1897	323584
Z	437m S	Unspecified Disused Works	1979	326425
9	440m E	Cuttings	1877	336810
AF	447m SE	Railway Sidings	1914	356692
AF	447m SE	Railway Sidings	1921	356692
N	459m S	Railway Building	1947	323586
AF	462m SE	Railway Building	1921	323601
AF	464m SE	Sawmill	1897	339202
N	464m S	Railway Station	1991	365629
AF	471m SE	Railway Building	1921	323602
N	471m S	Railway Station	1947	357582
AF	478m SE	Railway Building	1921	323581
AF	481m SE	Railway Sidings	1947	366564
AF	483m SE	Railway Sidings	1897	364163
A	485m S	Unspecified Tank	1914	320089
AJ	488m N	Unspecified Old Quarries	1947	379912
AJ	489m N	Unspecified Old Quarries	1957	372064
10	490m SW	Old Dock	1914	346704
11	493m SE	Unspecified Pit	1965	335799
AF	494m SE	Railway Building	1921	323600
AF	494m SE	Railway Building	1921	323582
N	495m S	Railway Building	1914	323587
Z	497m S	Unspecified Tanks	1965	328418
AL	497m SW	Tin Plate Works	1914	360819



ID	Location	Land Use	Date	Group ID
AL	497m SW	Tin Plate Works	1921	360819
A	498m S	Unspecified Tank	1914	348428
A	498m S	Unspecified Tank	1921	348428
12	499m SW	Timber Yard	1947	331035
AF	499m SE	Railway Building	1921	323583

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	109
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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 27 >](#)

ID	Location	Land Use	Date	Group ID
D	24m E	Unspecified Tank	1917	38523
E	50m W	Unspecified Tank	1993	42679
E	50m W	Unspecified Tank	1988	42679
D	52m SE	Unspecified Tank	1968	40293
D	52m SE	Unspecified Tank	1967	43728
D	67m NE	Unspecified Tank	1917	43841
D	67m NE	Unspecified Tank	1939	43841
D	71m NE	Unspecified Tank	1950	38325
G	99m S	Unspecified Tank	1950	44580
G	99m S	Unspecified Tank	1968	40196
G	99m S	Unspecified Tank	1962	43123
G	99m S	Unspecified Tank	1951	42606
G	99m S	Unspecified Tank	1968	41995
O	176m S	Tanks	1979	39668
O	180m S	Tanks	1979	43159



ID	Location	Land Use	Date	Group ID
O	181m S	Tanks	1971	43159
M	187m SW	Unspecified Tank	1979	41779
M	187m SW	Unspecified Tank	1991	41779
C	189m S	Unspecified Tank	1951	40386
C	189m S	Unspecified Tank	1950	40386
O	194m S	Unspecified Tank	1951	43880
O	194m S	Unspecified Tank	1951	43880
M	209m SW	Unspecified Tank	1979	41088
M	209m SW	Unspecified Tank	1991	41088
R	263m E	Unspecified Tank	1876	38518
A	289m S	Unspecified Tank	1939	40932
A	289m S	Unspecified Tank	1917	40932
H	290m S	Unspecified Tank	1950	41180
H	291m S	Unspecified Tank	1951	42578
H	292m S	Tanks	1962	39664
H	292m S	Unspecified Tank	1950	41577
H	292m S	Unspecified Tank	1951	41577
H	298m S	Unspecified Tank	1939	38525
H	300m S	Unspecified Tank	1950	40560
H	301m S	Unspecified Tank	1951	40560
R	308m E	Unspecified Tank	1876	38517
A	308m S	Unspecified Tank	1939	43641
A	312m S	Unspecified Tank	1917	38159
H	313m S	Unspecified Tank	1950	40477
H	313m S	Unspecified Tank	1951	40666
H	315m S	Unspecified Tank	1917	38529
H	316m S	Unspecified Tank	1939	38530
A	321m S	Unspecified Tank	1951	40195



ID	Location	Land Use	Date	Group ID
A	321m S	Unspecified Tank	1951	40195
Y	322m SW	Gas Works	1899	44544
Y	329m SW	Gasometer	1899	39890
A	342m S	Unspecified Tank	1951	44179
A	342m S	Unspecified Tank	1951	44179
A	345m S	Unspecified Tank	1951	40347
A	345m S	Unspecified Tank	1951	40347
Y	350m SW	Gas Works	1881	44544
K	355m SW	Tanks	1951	40632
A	355m S	Tanks	1951	42580
K	355m SW	Tanks	1951	40632
A	356m S	Tanks	1951	42580
A	357m SW	Unspecified Tank	1979	43318
A	357m SW	Unspecified Tank	1991	43318
A	360m S	Unspecified Tank	1939	38156
A	363m S	Unspecified Tank	1939	38157
Y	367m SW	Gasometers	1881	39181
A	370m S	Unspecified Tank	1951	40101
A	370m S	Unspecified Tank	1951	40101
K	388m SW	Unspecified Tank	1939	38160
H	393m S	Tanks	1991	41217
K	393m SW	Unspecified Tank	1917	38163
H	393m S	Tanks	1996	41217
H	394m S	Unspecified Tank	1988	38524
K	394m SW	Unspecified Tank	1917	38162
A	397m S	Unspecified Tank	1917	38158
AD	408m SW	Tanks	1979	39669
A	413m S	Unspecified Tank	1951	42961



ID	Location	Land Use	Date	Group ID
A	413m S	Unspecified Tank	1951	42961
A	420m S	Unspecified Tank	1917	42961
A	420m S	Unspecified Tank	1939	42961
A	421m S	Tanks	1979	39675
A	428m S	Tanks	1979	39674
AD	438m SW	Tanks	1971	43095
AD	439m SW	Tanks	1979	43095
AC	439m E	Unspecified Tank	1949	41166
AC	439m E	Unspecified Tank	1952	41166
K	448m SW	Tanks	1951	40399
K	449m SW	Tanks	1951	40399
A	452m S	Unspecified Tank	1951	42207
A	453m S	Unspecified Tank	1951	42207
K	461m SW	Unspecified Tank	1951	43769
K	461m SW	Unspecified Tank	1951	43769
AD	468m SW	Unspecified Tank	1979	38155
A	473m S	Unspecified Tank	1979	38153
Z	477m S	Unspecified Tank	1939	38526
A	481m S	Unspecified Tank	1967	42253
A	481m S	Unspecified Tank	1968	42253
A	481m S	Unspecified Tank	1964	42253
A	481m S	Unspecified Tank	1957	42253
A	481m S	Unspecified Tank	1951	42253
A	481m S	Unspecified Tank	1951	42253
AB	484m SW	Unspecified Tank	1967	42830
AB	484m SW	Unspecified Tank	1971	42830
AB	484m SW	Unspecified Tank	1968	42830
A	487m S	Unspecified Tank	1917	41019

ID	Location	Land Use	Date	Group ID
A	488m S	Unspecified Tank	1939	41019
A	488m S	Tanks	1979	39671
AD	494m SW	Unspecified Tank	1951	40070
AD	494m SW	Unspecified Tank	1951	40070
AD	494m SW	Unspecified Tank	1951	40056
AD	494m SW	Unspecified Tank	1951	40056
Z	497m S	Tanks	1968	40383
Z	497m S	Tanks	1968	40383
Z	498m S	Unspecified Tank	1962	38528
A	499m S	Tanks	1979	39672

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

40

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 27 >](#)

ID	Location	Land Use	Date	Group ID
B	25m S	Gas Governor	1993	21346
B	25m S	Gas Governor	1988	21022
B	27m S	Gas Governor	1991	21346
F	88m SW	Electricity Substation	1968	19320
J	109m NW	Electricity Substation	1988	20427
J	110m NW	Electricity Substation	1993	23078
F	128m SW	Electricity Substation	1993	21818
F	129m SW	Electricity Substation	1988	21818
O	158m S	Electricity Substation	1979	21866
O	158m S	Electricity Substation	1991	21866



ID	Location	Land Use	Date	Group ID
O	158m S	Electricity Transformer	1971	19803
T	218m SE	Electricity Substation	1993	22062
T	218m SE	Electricity Substation	1999	22062
V	266m W	Electricity Substation	1993	21375
V	266m W	Electricity Substation	1988	21375
5	291m SE	Electricity Substation	1996	19321
Y	322m SW	Gas Works	1899	23085
Y	329m SW	Gasometer	1899	20030
Y	350m SW	Gas Works	1881	23085
Y	367m SW	Gasometers	1881	19719
A	372m S	Electricity Substation	1979	19285
A	375m S	Electricity Substation	1991	19286
A	376m S	Electricity Substation	1971	19288
7	384m NW	Electricity Substation	1950	19330
AG	435m SE	Electricity Substation	1988	19322
N	437m S	Electricity Substation	1996	21842
N	437m S	Electricity Substation	1988	21767
N	437m S	Electricity Substation	1991	21767
AH	442m W	Electricity Substation	1988	20266
AH	442m W	Electricity Substation	1993	20266
AI	475m NE	Electricity Transformer	1968	19804
AI	486m NE	Electricity Transformer	1968	19805
AI	486m NE	Electricity Substation	1992	19329
AK	490m E	Electricity Substation	1991	19326
AK	491m E	Electricity Substation	1952	19325
AF	493m SE	Electricity Substation	1950	21821
AF	494m SE	Electricity Substation	1951	21821
AF	494m SE	Electricity Substation	1991	22951



ID	Location	Land Use	Date	Group ID
AK	495m E	Electricity Substation	1952	23135
AK	499m E	Electricity Substation	1949	23135

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

48

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 27 >](#)

ID	Location	Land Use	Date	Group ID
E	36m W	Garage	1968	7369
E	41m W	Garage	1967	7369
3	157m SW	Garage	1979	6667
S	205m NE	Garage	1988	7385
S	205m NE	Garage	1992	7385
S	207m NE	Garage	1968	6858
S	227m NE	Garage	1999	7560
S	227m NE	Garage	1993	7560
S	229m NE	Garage	1967	6849
U	244m SW	Garage	1979	6896
U	244m SW	Garage	1991	7204



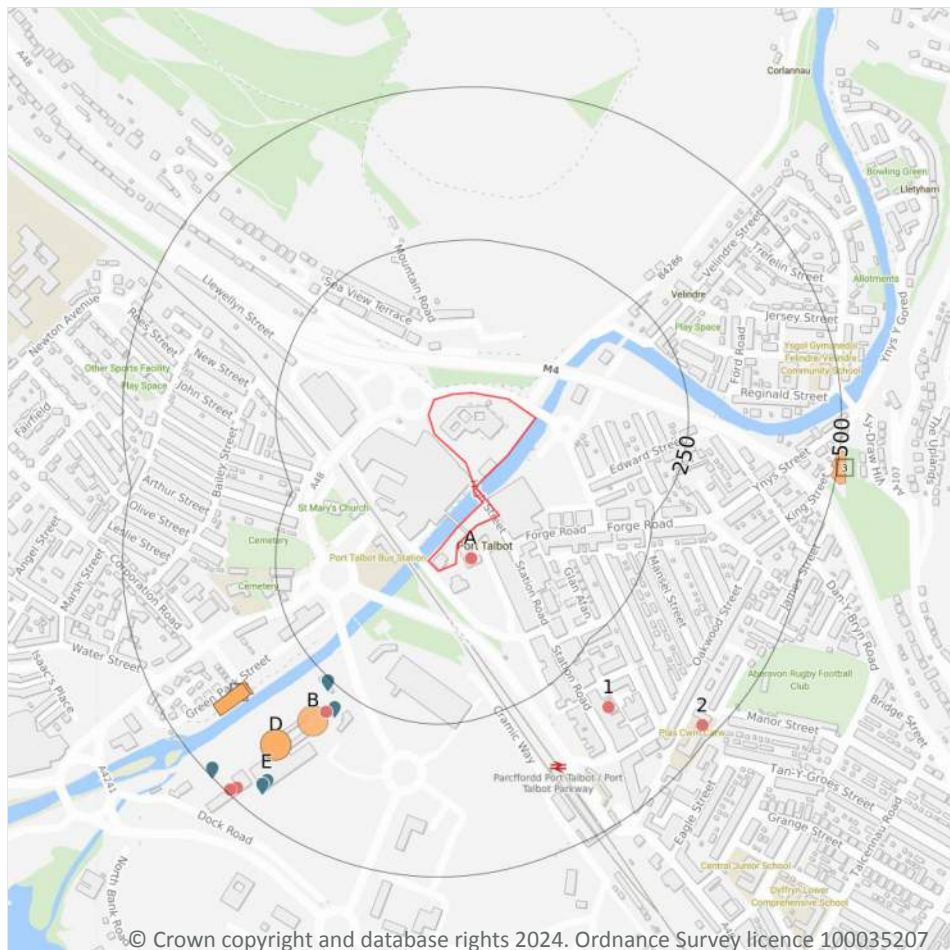
ID	Location	Land Use	Date	Group ID
W	279m S	Garage	1968	8007
W	279m S	Garage	1968	8007
U	279m SW	Garage	1951	7609
U	279m SW	Garage	1957	7609
W	279m S	Garage	1996	8007
W	280m S	Garage	1988	8007
W	280m S	Garage	1991	8007
X	318m SW	Garage	1964	7975
X	318m SW	Garage	1957	7975
X	318m SW	Garage	1967	7975
X	318m SW	Garage	1971	7975
X	318m SW	Garage	1951	7975
X	318m SW	Garage	1968	7331
X	318m SW	Garage	1979	7975
X	319m SW	Garage	1991	7003
AB	419m SW	Repair Works	1967	7874
AB	419m SW	Repair Works	1968	7874
AB	424m SW	Garage	1979	7645
AB	424m SW	Garage	1991	7645
AB	425m SW	Garage	1967	7428
AB	425m SW	Garage	1971	7428
AB	425m SW	Garage	1968	7428
AB	438m SW	Repair Works	1971	7066
AB	446m SW	Garage	1979	7763
AB	446m SW	Garage	1991	7763
AG	468m SE	Garage	1996	6878
AG	469m SE	Garage	1988	7486
AG	469m SE	Garage	1991	7486

ID	Location	Land Use	Date	Group ID
AB	483m SW	Garage	1979	7666
AB	483m SW	Garage	1991	7666
AF	484m SE	Garage	1996	7162
AF	485m SE	Garage	1950	7950
AF	485m SE	Garage	1962	7950
AF	485m SE	Garage	1968	7950
AF	485m SE	Garage	1968	7950
AF	485m SE	Garage	1988	7862
AF	485m SE	Garage	1991	7862

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical waste sites
- 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**0**

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

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

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

3.5 Historical waste sites

Records within 500m**8**

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

Features are displayed on the Waste and landfill map on [page 42 >](#)

ID	Location	Address	Further Details	Date
B	294m SW	Site Address: Byass Works, Docks Road, PORT TALBOT, West Glamorgan, SA13 1RS	Type of Site: Waste Transfer Station (Cou) Planning application reference: P/97/0530 Description: Change of use of building to a waste transfer station with office. An application (ref: P/97/0530) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 15th May 1997. Data source: Historic Planning Application Data Type: Point	-
C	358m SW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1970
C	358m SW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979

ID	Location	Address	Further Details	Date
C	363m SW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1968
C	363m SW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1967
D	364m SW	Site Address: Byass Works, Former Kancoat Premises, PORT TALBOT, West Glamorgan, SA13 1RS	Type of Site: Recycling Centre (C/U) Planning application reference: 95/9946 Description: C/u from industrial. An application (ref: 95/9946) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 28th March 1995. Data source: Historic Planning Application Data Type: Point	-
D	364m SW	Site Address: Old Bypass Works, PORT TALBOT, West Glamorgan	Type of Site: Recycling Centre (Extension) Planning application reference: 95/9975 Description: Single storey rest room and store. An application (ref: 95/9975) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 21st April 1995. Data source: Historic Planning Application Data Type: Point	-
3	489m E	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1991

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

3.6 Licensed waste sites

Records within 500m	30
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 42](#) >



ID	Location	Details		
B	256m SW	Site Name: C. P. Harvey (Scrap) Limited Site Address: Old Byass Works, The Docks, Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAR001 EPR reference: PP3298FX/V006 Operator: C. P. Harvey (Scrap) Limited Waste Management licence No: 34040 Annual Tonnage: 150	Issue Date: 30/01/1994 Effective Date: - Modified: 26/06/2015 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
B	257m SW	Site Name: - Site Address: - Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PP3298FX EPR reference: - Operator: - Waste Management licence No: 34040 Annual Tonnage: 75000	Issue Date: 01/09/2016 Effective Date: 01/09/2016 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	257m SW	Site Name: C P Harvey Plant Hire Ltd Site Address: Old Byass Works, Cramic Way, Port Talbot, N P T, SA13 1RU Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAR001 EPR reference: EA/EPR/PP3298FX/A001 Operator: C P Harvey Recycling Ltd Waste Management licence No: 34040 Annual Tonnage: 30000	Issue Date: 30/01/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	257m SW	Site Name: C P Harvey Plant Hire Ltd Site Address: Old Byass Works, Cramic Way, Port Talbot, N P T, SA13 1RU Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAR001 EPR reference: PP3298FX/A001 Operator: C P Harvey Recycling Ltd Waste Management licence No: 34040 Annual Tonnage: 30000	Issue Date: 30/01/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
B	257m SW	Site Name: - Site Address: C. P. Harvey (Scrap) Limited, The Docks, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PP3298FX EPR reference: - Operator: C. P. Harvey (Scrap) Limited Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 30/01/1994 Effective Date: 30/01/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	257m SW	Site Name: - Site Address: Old Byass Works, The Docks, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PP3298FX EPR reference: - Operator: Cuddy Recycling Ltd Waste Management licence No: 34040 Annual Tonnage: 75000	Issue Date: 01/09/2016 Effective Date: 01/09/2016 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	257m SW	Site Name: - Site Address: Old Byass Works, The Docks, Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: - Environmental Permitting Regulations (Waste) Licence Number: PP3298FX EPR reference: - Operator: Cuddy Recycling Ltd Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 01/09/2016 Effective Date: 01/09/2016 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	257m SW	Site Name: - Site Address: Old Byass Works, The Docks, Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: - Environmental Permitting Regulations (Waste) Licence Number: PP3298FX EPR reference: - Operator: Cuddy Recycling Ltd Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 01/09/2016 Effective Date: 01/09/2016 Modified: - Surrendered Date: - Expiry Date: 01/05/2020 Cancelled Date: - Status: Expired



ID	Location	Details		
B	283m SW	Site Name: C P Harvey Plant Hire Ltd Site Address: Old Bypass Works, Cramic Way, Port Talbot, SA13 1RF Correspondence Address: Alexandra House, 1, Alexandra Road, Swansea, SA1 5ED	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAR001 EPR reference: - Operator: C P Harvey Recycling Ltd Waste Management licence No: 34040 Annual Tonnage: 0	Issue Date: 30/01/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	445m SW	Site Name: - Site Address: Byass Works, Byass Works, Neath Port Talbot, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AB3895CN EPR reference: - Operator: A W D Group Ltd Waste Management licence No: 0 Annual Tonnage: 75000	Issue Date: 04/06/2018 Effective Date: 04/06/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	445m SW	Site Name: - Site Address: Byass Works, Byass Works, The Docks, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: AB3895CN EPR reference: - Operator: A W D Group Ltd Waste Management licence No: - Annual Tonnage: 24999	Issue Date: 26/01/2023 Effective Date: 26/01/2023 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	445m SW	Site Name: - Site Address: Byass Works, Byass Works, The Docks, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: - Environmental Permitting Regulations (Waste) Licence Number: AB3895CN EPR reference: - Operator: A W D Group Ltd Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 24/09/2021 Effective Date: 24/09/2021 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
E	445m SW	Site Name: - Site Address: Byass Works, Byass Works, The Docks, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: - Environmental Permitting Regulations (Waste) Licence Number: AB3895CN EPR reference: - Operator: A W D Group Ltd Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 18/09/2018 Effective Date: 18/09/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	453m SW	Site Name: Port Talbot Recovery Centre Site Address: Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: EGA006 EPR reference: LB3933DA/V002 Operator: Egan Metal Recycling Limited Waste Management licence No: 34283 Annual Tonnage: 0	Issue Date: 25/08/2006 Effective Date: 23/11/2012 Modified: 04/04/2013 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
E	455m SW	Site Name: Paper Dragon Site Address: Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 342083 EPR reference: EA/EPR/JP3898FC/T002 Operator: The Recycling Company Limited Waste Management licence No: 34283 Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: 14/02/2007 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
E	455m SW	Site Name: Paper Dragon Site Address: Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS Correspondence Address: Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DRA001 EPR reference: - Operator: Draig Recycling Ltd Waste Management licence No: 34283 Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
E	455m SW	Site Name: Port Talbot Recovery Centre Site Address: Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EGA006 EPR reference: EA/EPR/LB3933DA/V002 Operator: Egan Metal Recycling Limited Waste Management licence No: 34283 Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: 23/11/2012 Modified: 04/04/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
E	455m SW	Site Name: - Site Address: Port Talbot Recovery Centre, Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: LB3933DA EPR reference: - Operator: - Waste Management licence No: 34283 Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: 25/08/2006 Modified: - Surrendered Date: - Expiry Date: 14/11/2015 Cancelled Date: - Status: Expired
E	455m SW	Site Name: - Site Address: Port Talbot Recovery Centre, Former Byass Works, Docks Road, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: LB3933DA EPR reference: - Operator: Egan Metal Recycling Limited Waste Management licence No: 0 Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: 25/08/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
E	455m SW	Site Name: - Site Address: Port Talbot Recovery Centre, Former Byass Works, Docks Road, N P T, Port Talbot, Neath Port Talbot, SA13 1RS Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: LB3933DA EPR reference: - Operator: Egan Metal Recycling Limited Waste Management licence No: 34283 Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: 25/08/2006 Modified: - Surrendered Date: - Expiry Date: 14/11/2015 Cancelled Date: - Status: Expired



ID	Location	Details		
E	455m SW	Site Name: - Site Address: Port Talbot Recovery Centre, Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: LB3933DA EPR reference: - Operator: Egan Metal Recycling Limited Waste Management licence No: - Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: 25/08/2006 Modified: - Surrendered Date: - Expiry Date: 14/11/2015 Cancelled Date: - Status: Expired
E	455m SW	Site Name: - Site Address: Port Talbot Recovery Centre, Former Byass Works, Docks Road, Port Talbot, N P T, SA13 1RS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: LB3933DA EPR reference: - Operator: Egan Metal Recycling Limited Waste Management licence No: - Annual Tonnage: 24999	Issue Date: 25/08/2006 Effective Date: 25/08/2006 Modified: - Surrendered Date: - Expiry Date: 14/11/2015 Cancelled Date: - Status: Expired
E	493m SW	Site Name: Jem Recycling 1 Port Talbot Skips Site Address: Byass Works, Docks Road, Port Talbot, SA13 1ER Correspondence Address: Byass Works, Docks Road, Port Talbot, SA13 1ER	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JEM003 EPR reference: - Operator: Jem Recycling Ltd Waste Management licence No: 34168 Annual Tonnage: 0	Issue Date: 30/03/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: 01/04/2000 Cancelled Date: - Status: Expired
E	493m SW	Site Name: Jem Recycyling 1 Phase 2 Site Address: Old Byass Works, Docks Road, Port Talbot, SA13 1ER Correspondence Address: Martin Harry, Old Byass Works, Docks Road, Port Talbot, SA13 1ER	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEM001 EPR reference: - Operator: Jem Recycling Ltd Waste Management licence No: 34154 Annual Tonnage: 0	Issue Date: 01/04/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: 01/04/2000 Cancelled Date: - Status: Expired



ID	Location	Details		
E	493m SW	Site Name: Jem Recycling 1 Port Talbot Skips Site Address: Old Byass Works, Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEM003 EPR reference: CP3898FU/A001 Operator: Jem Recycling Ltd Waste Management licence No: 34168 Annual Tonnage: 25000	Issue Date: 30/03/1994 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 2.00004e+016 Cancelled Date: 0 Status: Expired
E	493m SW	Site Name: Jem Recycling 2 Adjoining 1 Site Address: Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEM002 EPR reference: EA/EPR/HP3398FP/A001 Operator: Jem Recycling Ltd Waste Management licence No: 34142 Annual Tonnage: 19274	Issue Date: 24/12/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: 01/04/2000 Cancelled Date: - Status: Expired
E	493m SW	Site Name: Jem Recycling 1 Port Talbot Skips Site Address: Old Byass Works, Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEM003 EPR reference: EA/EPR/CP3898FU/A001 Operator: Jem Recycling Ltd Waste Management licence No: 34168 Annual Tonnage: 25000	Issue Date: 30/03/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: 01/04/2000 Cancelled Date: - Status: Expired

ID	Location	Details		
E	493m SW	Site Name: Jem Recycling 1 Phase 2 Site Address: Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEM001 EPR reference: EA/EPR/FP3998FH/A001 Operator: Jem Recycling Ltd Waste Management licence No: 34154 Annual Tonnage: 5932	Issue Date: 01/04/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: 01/04/2000 Cancelled Date: - Status: Expired
E	493m SW	Site Name: Jem Recycling 1 Phase 2 Site Address: Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEM001 EPR reference: FP3998FH/A001 Operator: Jem Recycling Ltd Waste Management licence No: 34154 Annual Tonnage: 5932	Issue Date: 01/04/1998 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 2.00004e+016 Cancelled Date: 0 Status: Expired
E	493m SW	Site Name: Jem Recycling 2 Adjoining 1 Site Address: Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JEM002 EPR reference: HP3398FP/A001 Operator: Jem Recycling Ltd Waste Management licence No: 34142 Annual Tonnage: 19274	Issue Date: 24/12/1996 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 2.00004e+016 Cancelled Date: 0 Status: Expired

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

3.7 Waste exemptions

Records within 500m	19
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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 42](#) >



ID	Location	Site	Reference	Category	Sub-Category	Description
A	23m S	Kier Infrastructure UK, Kier Compound, Off Station Road, Opposite Riverside Baptist Church, Port Talbot, SA131PQ	NRW-WME019758	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	23m S	Kier Infrastructure UK, Kier Compound, Off Station Road, Opposite Riverside Baptist Church, Port Talbot, SA131PQ	NRW-WME019758	Using waste exemption	Not on a farm	Use of mulch
B	296m SW	The old Byass works, Longs industrial est, The docks, Port Talbot, SA13 1RS	WEX116522	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	296m SW	The old Byass works, Longs industrial est, The docks, Port Talbot, SA13 1RS	WEX116522	Using waste exemption	Not on a farm	Use of waste in construction
B	296m SW	AWD GROUP LTD, Former Byass Works, Docks Way, sa131rs	NRW-WME028231	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	296m SW	AWD GROUP LTD, Former Byass Works, Docks Way, sa131rs	NRW-WME028231	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	296m SW	AWD GROUP LTD, Former byass works, Docks Road, Port Talbot, Castell-nedd Port Talbot, SA131RS	NRW-WME028232	Using waste exemption	Not on a farm	Use of waste in construction
B	296m SW	The old Byass works, Longs industrial est, The docks, Port Talbot, SA13 1RS	WEX116522	Treating waste exemption	Not on a farm	Sorting mixed waste
B	296m SW	The old Byass works, Longs industrial est, The docks, Port Talbot, SA13 1RS	WEX116522	Treating waste exemption	Not on a farm	Manual treatment of waste
B	296m SW	AWD GROUP LTD, Former Byass Works, Docks Way, sa131rs	NRW-WME028231	Treating waste exemption	Not on a farm	Manual treatment of waste
B	296m SW	AWD GROUP LTD, Former byass works, Docks Road, Port Talbot, Castell-nedd Port Talbot, SA131RS	NRW-WME028232	Treating waste exemption	Not on a farm	Sorting mixed waste

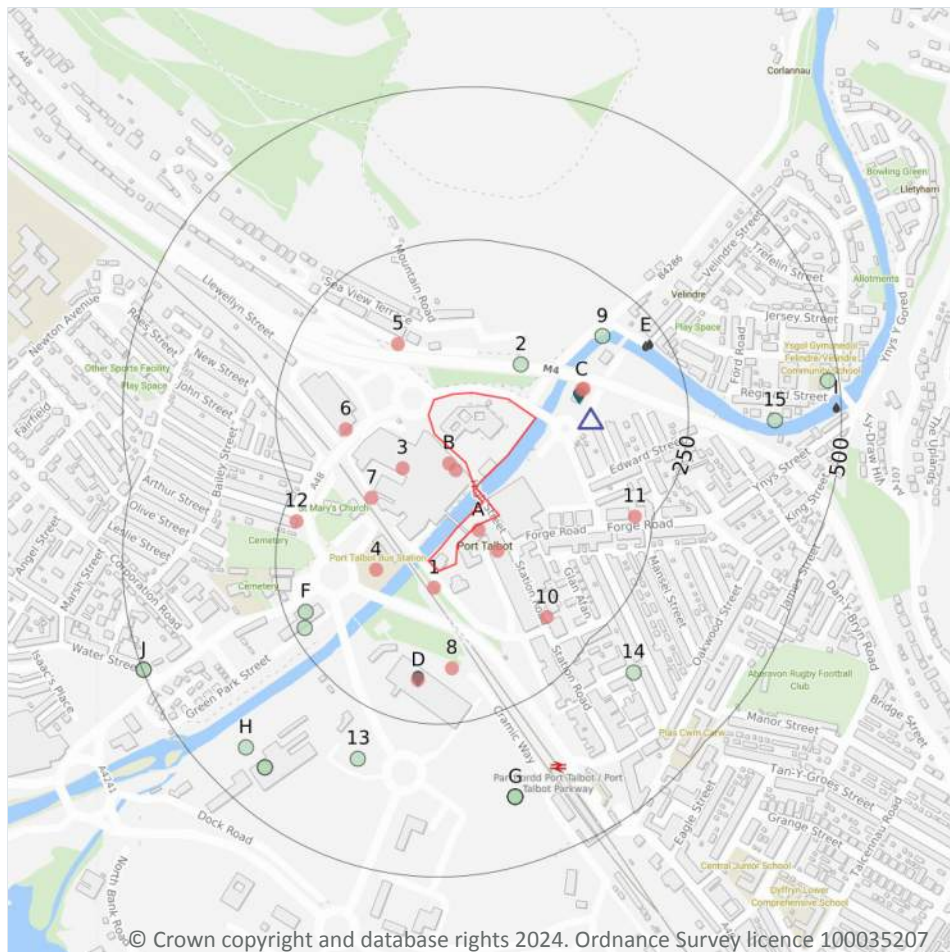


ID	Location	Site	Reference	Category	Sub-Category	Description
B	296m SW	AWD GROUP LTD, Former byass works, Docks Road, Port Talbot, Castell-nedd Port Talbot, SA131RS	NRW-WME028232	Treating waste exemption	Not on a farm	Recovery of scrap metal
1	343m SE	Morganstone Ltd, Former Port talbot Police Station, Station Road, Port Talbot, Port Talbot, SA131JB	NRW-WME030934	Using waste exemption	Not on a farm	Use of waste in construction
2	478m SE	OAKWOOD LANE, PORT TALBOT, SA13 1DF	WEX165558	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
E	485m SW	AWD GROUP LTD, A W D Group Ltd, Byass Works, Dock Road, The Docks, Port Talbot, Castell-nedd Port Talbot, SA13 1RS	NRW-WME064792	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	485m SW	AWD GROUP LTD, A W D Group Ltd, Byass Works, Dock Road, The Docks, Port Talbot, Castell-nedd Port Talbot, SA13 1RS	NRW-WME064792	Storing waste exemption	Not on a farm	Storage of waste in secure containers
E	485m SW	AWD GROUP LTD, A W D Group Ltd, Byass Works, Dock Road, The Docks, Port Talbot, Castell-nedd Port Talbot, SA13 1RS	NRW-WME064792	Treating waste exemption	Not on a farm	Manual treatment of waste
E	495m SW	AWD GROUP LTD, A W D Group Ltd, Byass Works, Dock Road, The Docks, Port Talbot, Castell-nedd Port Talbot, SA13 1RS	NRW-WME065361	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
E	495m SW	AWD GROUP LTD, A W D Group Ltd, Byass Works, Dock Road, The Docks, Port Talbot, Castell-nedd Port Talbot, SA13 1RS	NRW-WME065361	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

17

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Company	Address	Activity	Category
A	7m S	Specsavers Hearcare	31a, Riverside, Port Talbot, West Glamorgan, SA13 1PH	Disability and Mobility Equipment	Consumer Products
B	19m SW	Mobile Buddy	Kiosk 10a, Aberafan Shopping Centre, Port Talbot, West Glamorgan, SA13 1PB	Electrical Equipment Repair and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
B	20m SW	Boots Hearing Care	Oriel, Station Road, Port Talbot, West Glamorgan, SA13 1JT	Disability and Mobility Equipment	Consumer Products
1	28m S	Gas Governor Station	West Glamorgan, SA13	Gas Features	Infrastructure and Facilities
A	52m S	Afan Atom	127, Station Road, Port Talbot, West Glamorgan, SA13 1NR	Electrical Equipment Repair and Servicing	Repair and Servicing
3	76m W	Mobile Buddy	K9, Aberafan Centre, North Mall, Town Centre, Port Talbot, West Glamorgan, SA13 1PB	Disability and Mobility Equipment	Consumer Products
4	87m SW	Bus Station	West Glamorgan, SA13	Bus and Coach Stations, Depots and Companies	Public Transport, Stations and Infrastructure
C	88m NE	Tesco Petrol Station	-, Prior Street, Port Talbot, West Glamorgan, SA13 1YA	Petrol and Fuel Stations	Road and Rail
C	92m NE	Tesco Port Talbot East Bank	Prior Street, -, Port Talbot, West Glamorgan, SA13 1YA	Vehicle Cleaning Services	Personal, Consumer and Other Services
5	109m NW	Electricity Sub Station	West Glamorgan, SA12	Electrical Features	Infrastructure and Facilities
6	137m W	Shopmobility	Unit 43, Aberafan Shopping Centre, Port Talbot, West Glamorgan, SA13 1PB	Disability and Mobility Equipment	Consumer Products
7	138m SW	Electricity Sub Station	West Glamorgan, SA12	Electrical Features	Infrastructure and Facilities
8	160m S	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
10	173m SE	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
D	181m S	Hybrisan Ltd	Unit 2 Cramic House, Cramic Way, Port Talbot, West Glamorgan, SA13 1RU	Air and Water Filtration	Industrial Products
11	222m SE	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
12	225m W	Total Computers	1, Castle Street, Aberavon, West Glamorgan, SA12 6DR	Electrical Equipment Repair and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 55](#) >

ID	Location	Company	Address	LPG	Status
C	89m E	TESCO	Prior Street, Port Talbot, Neath Port Talbot, SA13 1YA	No	Open

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**0**

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

This data is sourced from the Health and Safety Executive.



4.7 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**0**

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

This data is sourced from Local Authority records.

4.9 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**2**

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 55](#) >

ID	Location	Address	Details	
C	78m NE	Tesco Stores Limited, Prior Street, Port Talbot, SA13 1YA	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No enforcements issued Date of enforcement: No enforcements issued Comment: No enforcements issued
D	180m S	Rhino Engineering Limited, Cramic House, Cramic Way, Port Talbot, SA13 1RU	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies 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
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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	3
----------------------------	----------

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 55 >](#)

ID	Location	Address	Details	
E	215m NE	CSO 136 AFAN STREET VELINDRE AFAN, CSO 136, AFAN STREET, VELINDRE, AFAN	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BP0304101 Permit Version: 1 Receiving Water: THE AFON AFAN	Status: Effective Issue date: 29/01/2003 Effective Date: 29/01/2003 Revocation Date: -
E	222m NE	Afan St CSO, End of Afan St, Port Talbot, Port Talbot, SA13 1AX	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BP0304101 Permit Version: 0 Receiving Water: AFON AFAN	Status: Effective Issue date: 21/08/2019 Effective Date: 21/08/2019 Revocation Date: -

ID	Location	Address	Details	
I	491m E	O/S 54 YNYS STREET, PORT TALBOT, NEATH PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0322001 Permit Version: 1 Receiving Water: RIVER AFAN	Status: Effective Issue date: 07/03/2005 Effective Date: 31/03/2009 Revocation Date: -

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
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 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
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Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

19

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 55](#) >

ID	Location	Details	
2	60m NE	Incident Date: 15/10/2014 Incident Identification: 1287019 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	172m NE	Incident Date: 18/07/2002 Incident Identification: 92569 Pollutant: Inorganic Chemicals/Products Pollutant Description: Cement	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	217m SW	Incident Date: 28/05/2003 Incident Identification: 161389 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
F	230m SW	Incident Date: 12/07/2016 Incident Identification: 1603860 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
13	333m S	Incident Date: 13/11/2002 Incident Identification: 126446 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	337m SE	Incident Date: 01/04/2002 Incident Identification: 68016 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	389m S	Incident Date: 10/12/2003 Incident Identification: 195725 Pollutant: Oils and Fuel Specific Waste Materials Pollutant Description: Smoke Gas and Fuel Oils Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
G	389m S	Incident Date: 12/10/2003 Incident Identification: 195725 Pollutant: Atmospheric Pollutants and Effects:Oils and Fuel:Specific Waste Materials Pollutant Description: Smoke:Gas and Fuel Oils:Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)



ID	Location	Details	
G	389m S	Incident Date: 10/12/2003 Incident Identification: 195725 Pollutant: Atmospheric Pollutants and Effects : Oils and Fuel : Specific Waste Materials Pollutant Description: Smoke :Gas and Fuel Oils :Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
G	389m S	Incident Date: 12/10/2003 Incident Identification: 195725 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
G	389m S	Incident Date: 12/10/2003 Incident Identification: 195725 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
G	389m S	Incident Date: 12/10/2003 Incident Identification: 195725 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
15	390m E	Incident Date: 07/04/2014 Incident Identification: 1224994 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	426m SW	Incident Date: 27/02/2014 Incident Identification: 1212608 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
H	427m SW	Incident Date: 22/11/2016 Incident Identification: 1607007 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
H	427m SW	Incident Date: 22/11/2016 Incident Identification: 1607007 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
I	481m E	Incident Date: 23/01/2015 Incident Identification: 1308557 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -
J	498m SW	Incident Date: 28/08/2016 Incident Identification: 1700078 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: Category 4 (No Impact) Air Impact: No Details



ID	Location	Details	
J	498m SW	Incident Date: 28/08/2016 Incident Identification: 1700078 Pollutant: Oils and Fuels Pollutant Description: Lubricating Oils	Water Impact: No Details Land Impact: Category 4 (No Impact) Air Impact: No Details

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

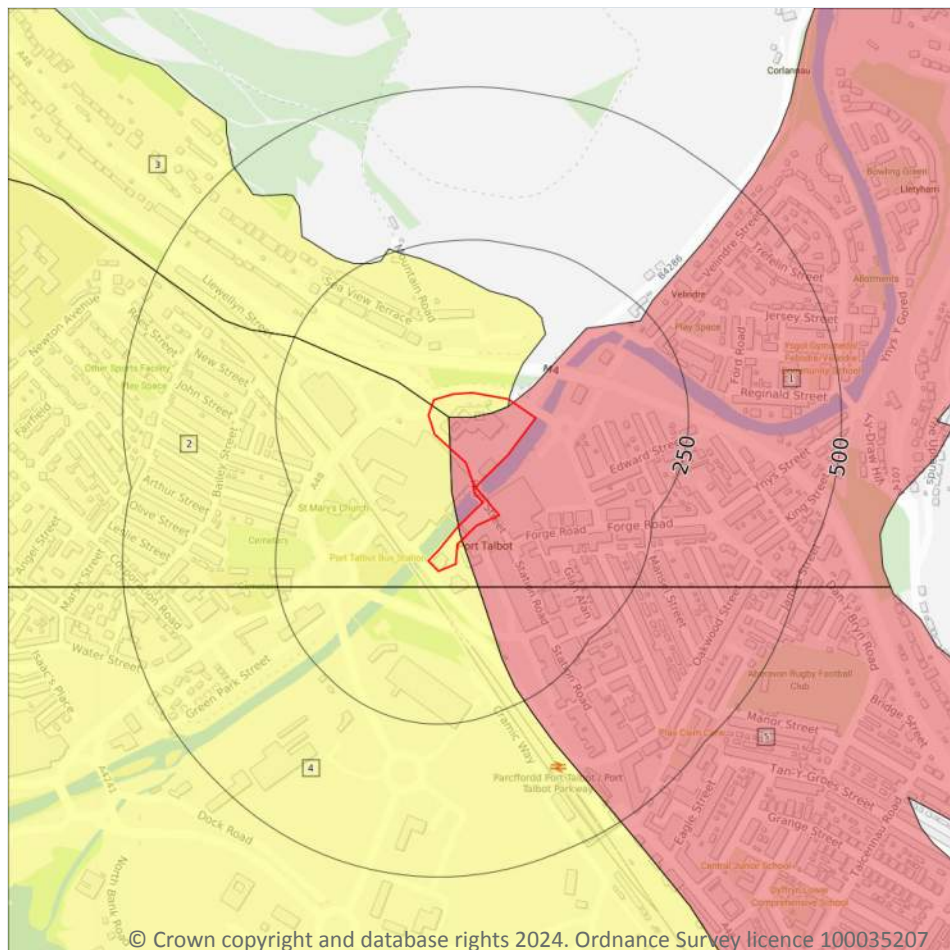
0

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



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

5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 64](#) >

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

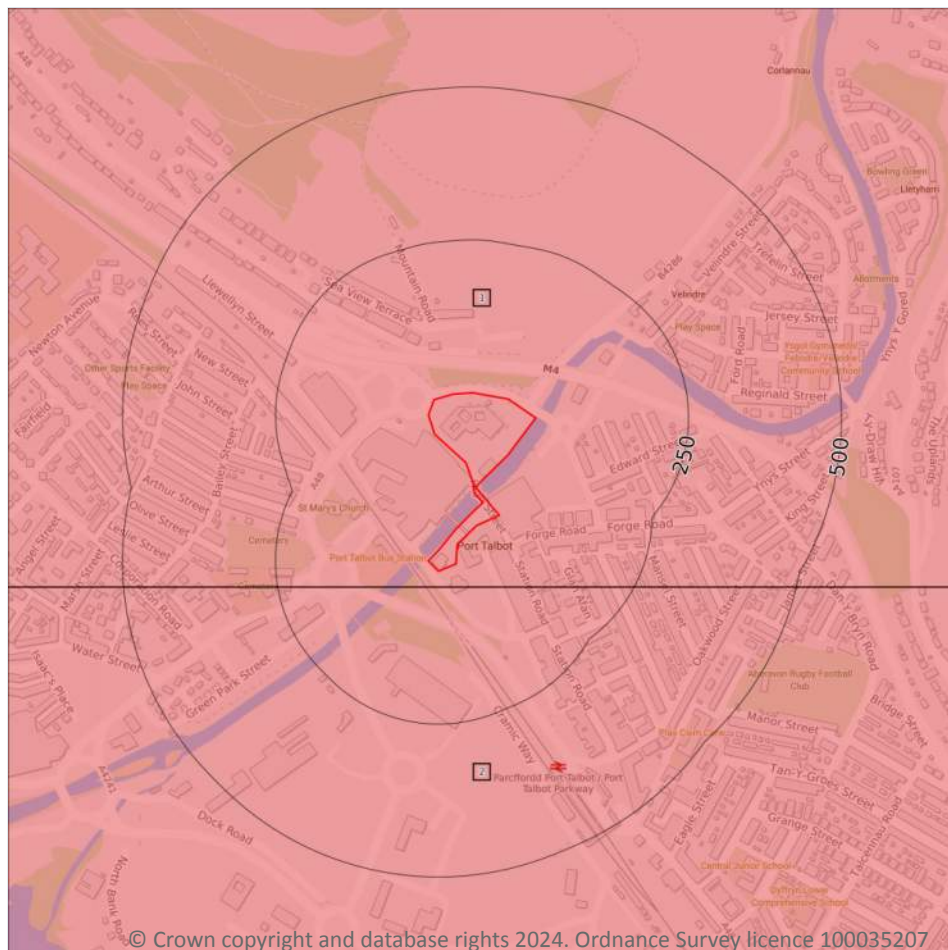


ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	26m 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
5	53m S	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.



Bedrock aquifer



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

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5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 66](#) >

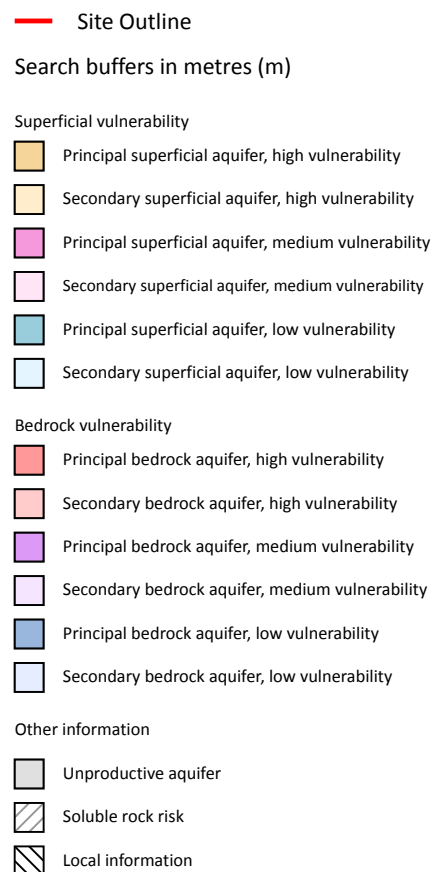
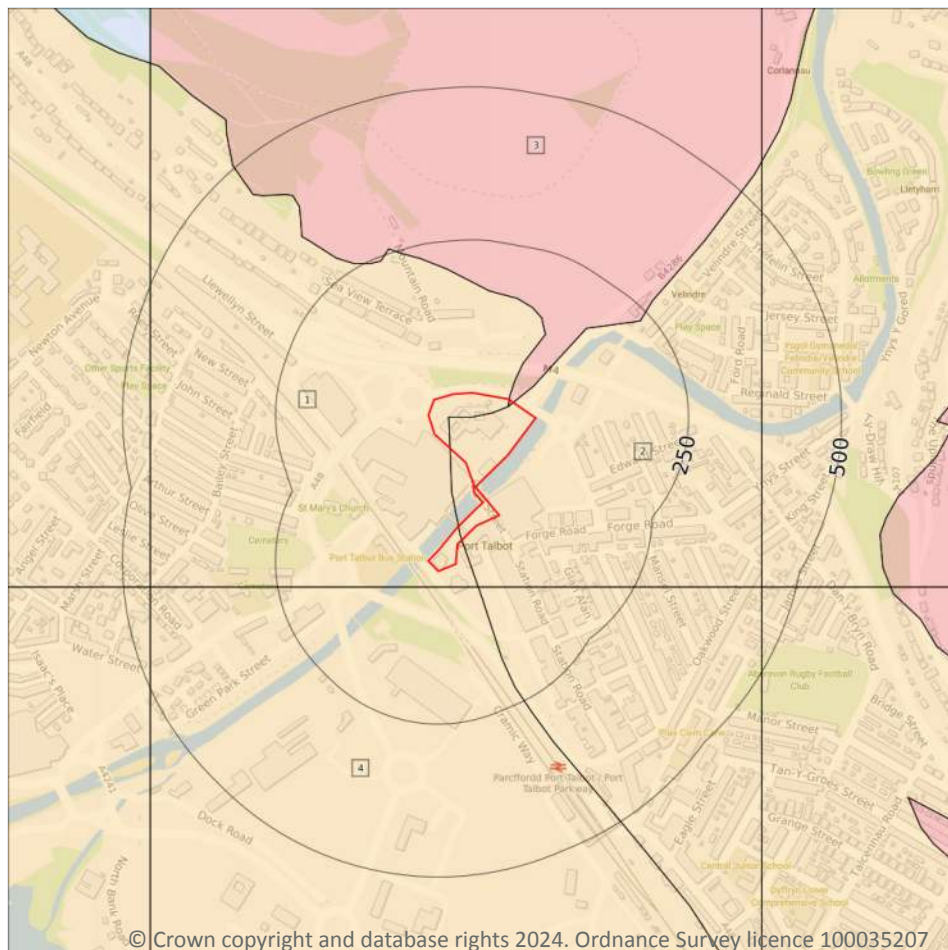
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	26m S	Secondary 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



5.3 Groundwater vulnerability

Records within 50m

4

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 68](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	26m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

0

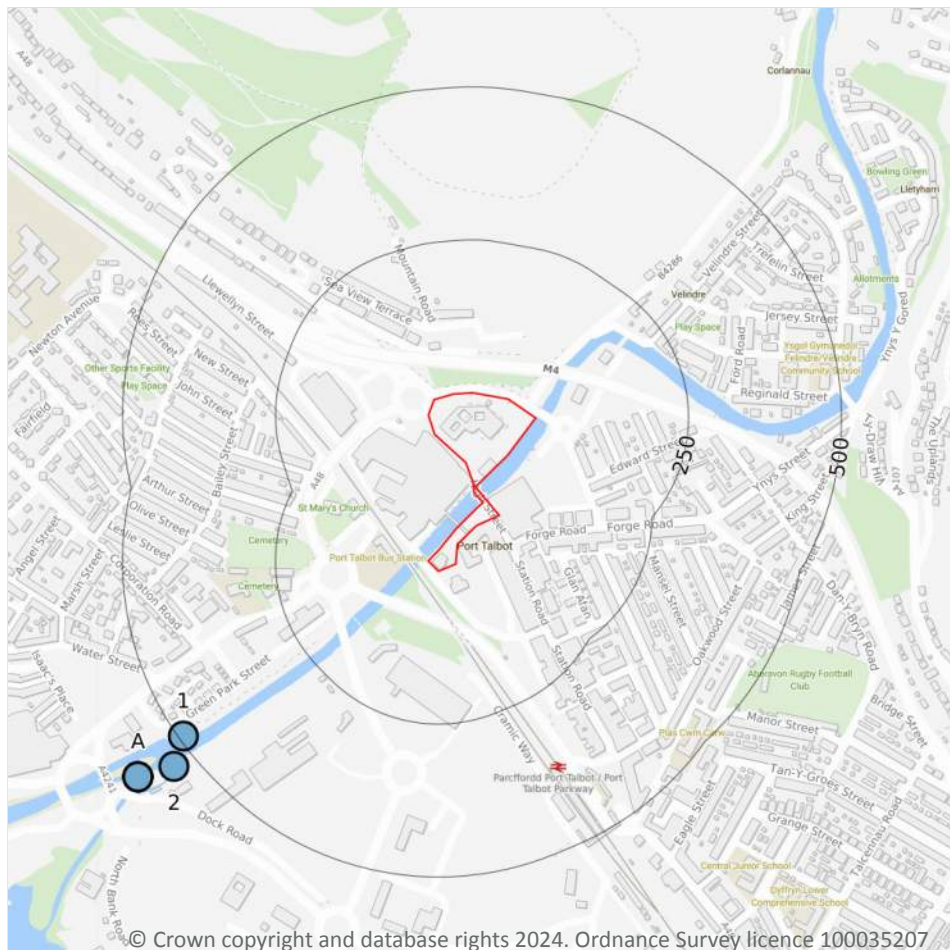
This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506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



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



Abstractions and Source Protection Zones



- 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
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

1

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 71](#) >

ID	Location	Details	
-	1677m N	Status: Historical Licence No: 21/58/61/0043 Details: Water Bottling Direct Source: EAW Groundwater Point: UNNAMED SPRING Data Type: Point Name: Ms Powell & Mr Spackman Easting: 277170 Northing: 191880	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 20/11/2004 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	26
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 71 >](#)

ID	Location	Details	
1	492m SW	Status: Active Licence No: WA/058/0061/007 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 276054 Northing: 189756	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/05/2012 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
2	534m SW	Status: Historical Licence No: WA/058/0061/0060 Details: Transfer between Sources (Post Water Act 2003) - Very Low Direct Source: Green Park Weir Point: - Data Type: Point Name: - Easting: 276039 Northing: 189707	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/09/2022 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
A	591m SW	Status: Historical Licence No: 21/58/61/0009 Details: Process Water Direct Source: EAW Surface Water Point: RIVER AFAN TO PORT TALBOT DOCKS Data Type: Point Name: Tata Steel UK Limited Easting: 275980 Northing: 189690	Annual Volume (m ³): 14933610 Max Daily Volume (m ³): 40914 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
A	591m SW	Status: Historical Licence No: 21/58/61/0009 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: RIVER AFAN TO PORT TALBOT DOCKS Data Type: Point Name: Tata Steel UK Limited Easting: 275980 Northing: 189690	Annual Volume (m ³): 14933610 Max Daily Volume (m ³): 40914 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
A	591m SW	Status: Historical Licence No: 21/58/61/0009 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 275980 Northing: 189690	Annual Volume (m ³): 14933610 Max Daily Volume (m ³): 40912.8 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	591m SW	Status: Historical Licence No: 21/58/61/0009 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 275980 Northing: 189690	Annual Volume (m ³): 14933610 Max Daily Volume (m ³): 40912.8 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	591m SW	Status: Active Licence No: 21/58/61/0009 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 275980 Northing: 189690	Annual Volume (m ³): 14933610 Max Daily Volume (m ³): 40914 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
A	591m SW	Status: Active Licence No: 21/58/61/0009 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 275980 Northing: 189690	Annual Volume (m ³): 14933610 Max Daily Volume (m ³): 40914 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1171m S	Status: Historical Licence No: 21/58/61/0042 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276230 Northing: 188880	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 397.44 Original Application No: - Original Start Date: 01/05/2014 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1171m S	Status: Historical Licence No: 21/58/61/0042 Details: Dust Suppression Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS PORT TALBOT Data Type: Point Name: Civil and Marine Ltd Easting: 276230 Northing: 188880	Annual Volume (m ³): 5000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 15/04/2002 Expiry Date: 14/04/2017 Issue No: 4 Version Start Date: 21/05/2010 Version End Date: -
-	1171m S	Status: Historical Licence No: 21/58/61/0042 Details: Process Water Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS PORT TALBOT Data Type: Point Name: Civil and Marine Ltd Easting: 276230 Northing: 188880	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 15/04/2002 Expiry Date: 31/03/2029 Issue No: 5 Version Start Date: 01/05/2014 Version End Date: -
-	1171m S	Status: Active Licence No: 21/58/61/0042 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276230 Northing: 188880	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 01/05/2014 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
-	1188m S	Status: Historical Licence No: 21/58/61/0042 Details: Dust Suppression Direct Source: EAW Surface Water Point: CIVIL & MARINE SLAG CEMENT LTD QUAY AT PORT TALBOT DOCKS Data Type: Point Name: Civil and Marine Ltd Easting: 276240 Northing: 188860	Annual Volume (m ³): 5000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 15/04/2002 Expiry Date: 14/04/2017 Issue No: 3 Version Start Date: 12/09/2008 Version End Date: -
-	1199m S	Status: Historical Licence No: WA/058/0061/004 Details: Dust Suppression Direct Source: EAW Surface Water Point: PORT TALBOT DOCK AT MARGAM MOORS Data Type: Point Name: Costain Limited Easting: 276967 Northing: 188933	Annual Volume (m ³): 36800 Max Daily Volume (m ³): 200 Original Application No: - Original Start Date: 05/08/2011 Expiry Date: 31/12/2014 Issue No: 1 Version Start Date: 05/08/2011 Version End Date: -
-	1336m SE	Status: Historical Licence No: 21/58/61/0024 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1336m SE	Status: Historical Licence No: 21/58/61/0024 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1336m SE	Status: Historical Licence No: 21/58/61/0024 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: RIVER FFRWDWYLLT Data Type: Point Name: Tata Steel UK Limited Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.36 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -



ID	Location	Details	
-	1336m SE	Status: Historical Licence No: 21/58/61/0024 Details: Process Water Direct Source: EAW Surface Water Point: RIVER FFRWDWYLLT Data Type: Point Name: Tata Steel UK Limited Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.36 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
-	1336m SE	Status: Active Licence No: 21/58/61/0024 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.36 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1336m SE	Status: Active Licence No: 21/58/61/0024 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.4 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1495m S	Status: Historical Licence No: 21/58/61/0012 Details: Non Evaporative Cooling - Low Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1495m S	Status: Historical Licence No: 21/58/61/0012 Details: Non-Evaporative Cooling Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS Data Type: Point Name: Tata Steel UK Limited Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): 590980 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -



ID	Location	Details	
-	1495m S	Status: Historical Licence No: 21/58/61/0012 Details: Process Water Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS Data Type: Point Name: Tata Steel UK Limited Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): 590980 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
-	1495m S	Status: Historical Licence No: 21/58/61/0012 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1495m S	Status: Active Licence No: 21/58/61/0012 Details: Non Evaporative Cooling - Low Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): 590980 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1495m S	Status: Active Licence No: 21/58/61/0012 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): 590980 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

1

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 71 >](#)



ID	Location	Details	
-	1677m N	Status: Historical Licence No: 21/58/61/0043 Details: Water Bottling Direct Source: EAW Groundwater Point: UNNAMED SPRING Data Type: Point Name: Ms Powell & Mr Spackman Easting: 277170 Northing: 191880	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 20/11/2004 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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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.

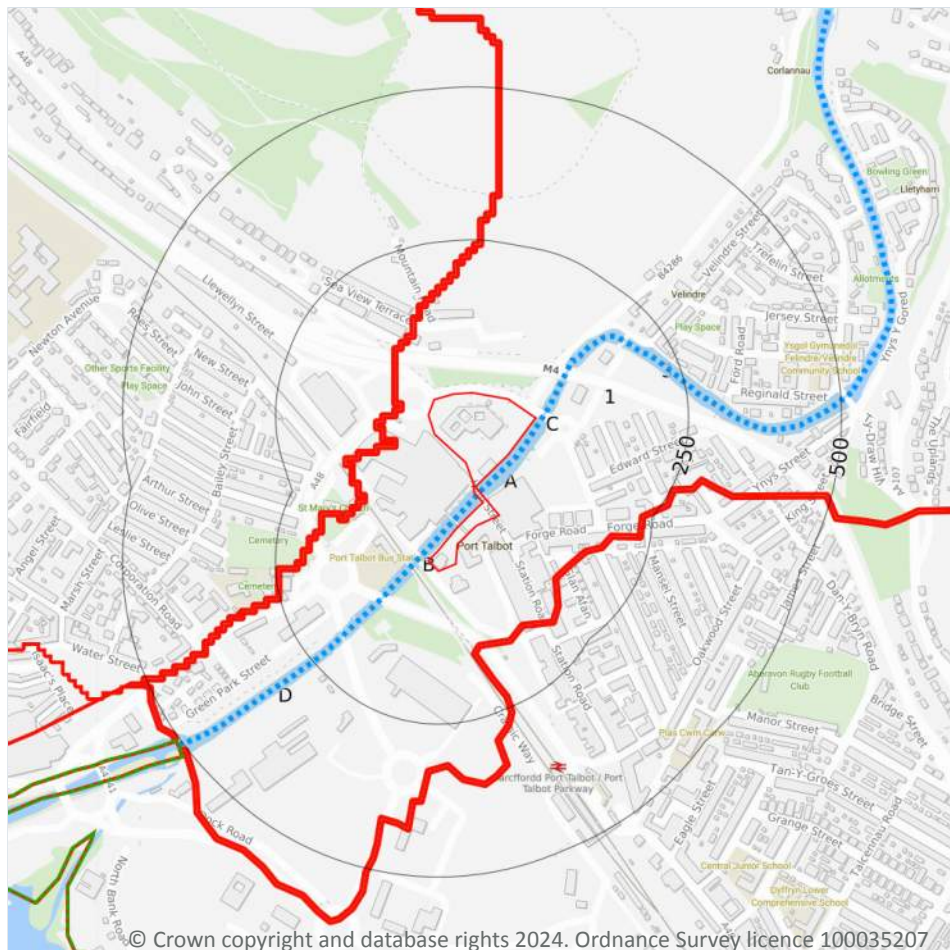
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

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

6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

9

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 79](#) >

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)	Afon Afan



ID	Location	Type of water feature	Ground level	Permanence	Name
C	9m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Afan
B	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Afan
B	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Afan
3	20m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Afan
B	82m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Afan
B	82m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	152m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Afan
D	154m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Afan

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

10

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 79 >](#)

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site	1
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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 79](#) >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River WB catchment	Afan - confluence with Pelenna to tidal limit	GB110058026110	Afan	Tawe to Cadoxton

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

6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

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

Features are displayed on the Hydrology map on [page 79](#) >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
2	On site	River	Afan - confluence with Pelenna to tidal limit	GB110058026110	Good	Good	Good	2016

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

6.5 WFD Groundwater bodies

Records on site	1
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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 79](#) >

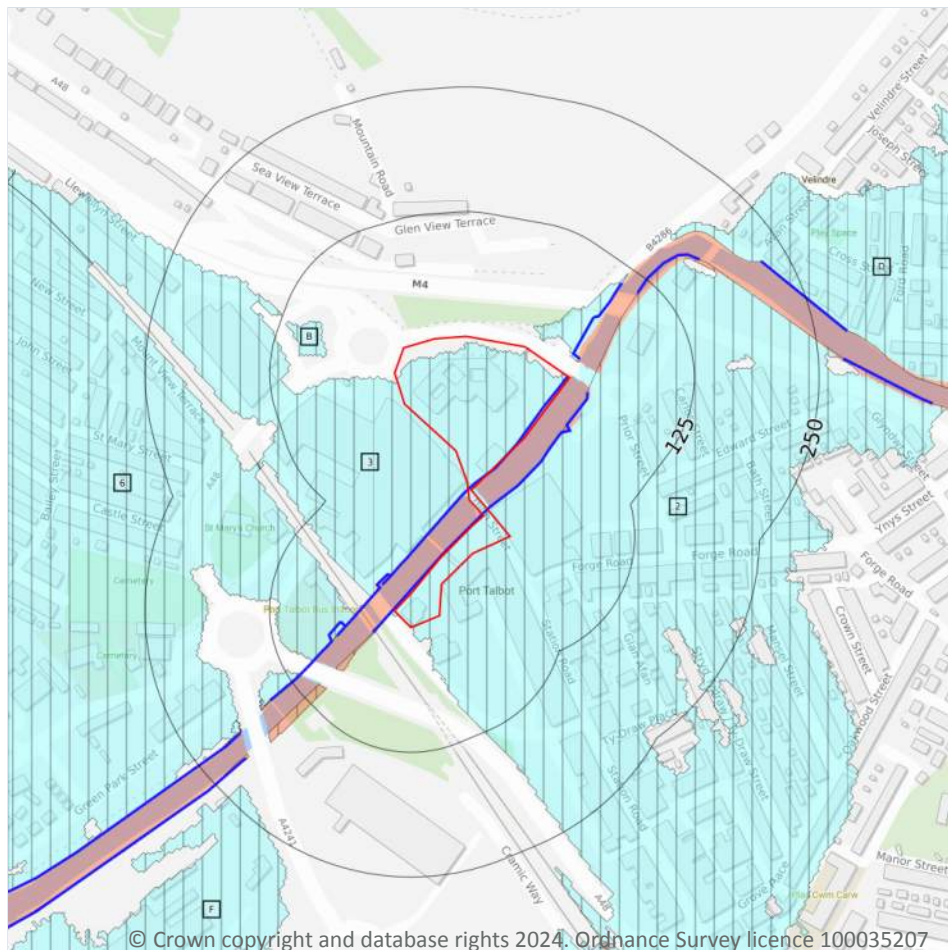


ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Swansea Carboniferous Coal Measures	GB41002G201000	Poor	Poor	Good	2017

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



7 River and coastal flooding



- 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

1008

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 83](#) >



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

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

7.3 Flood Defences

Records within 250m	13
----------------------------	-----------

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.

Features are displayed on the River and coastal flooding map on [page 83](#) >

ID	Location	Update
A	On site	08/11/2022
A	On site	08/11/2022
A	21m NE	08/11/2022
A	26m SW	08/11/2022
A	27m SW	08/11/2022
A	52m SW	08/11/2022
A	52m SW	08/11/2022
A	55m SW	08/11/2022
A	64m NE	08/11/2022
A	109m NE	08/11/2022

ID	Location	Update
A	197m SW	08/11/2022
A	209m SW	08/11/2022
A	224m NE	08/11/2022

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	51
----------------------------	-----------

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 83](#) >

ID	Location	
2	On site	Area benefiting from flood defences
3	On site	Area benefiting from flood defences
A	15m NE	Area benefiting from flood defences
A	24m SW	Area benefiting from flood defences
A	30m SW	Area benefiting from flood defences
A	35m SW	Area benefiting from flood defences
A	37m SW	Area benefiting from flood defences
6	38m SW	Area benefiting from flood defences
A	39m SW	Area benefiting from flood defences
A	41m SW	Area benefiting from flood defences
A	43m SW	Area benefiting from flood defences
A	44m SW	Area benefiting from flood defences
A	46m SW	Area benefiting from flood defences
A	48m SW	Area benefiting from flood defences
A	60m SW	Area benefiting from flood defences
A	62m SW	Area benefiting from flood defences
A	64m SW	Area benefiting from flood defences



ID	Location	
A	66m SW	Area benefiting from flood defences
A	68m SW	Area benefiting from flood defences
A	70m SW	Area benefiting from flood defences
B	71m NW	Area benefiting from flood defences
A	71m SW	Area benefiting from flood defences
A	73m SW	Area benefiting from flood defences
A	75m SW	Area benefiting from flood defences
A	93m SW	Area benefiting from flood defences
A	103m SW	Area benefiting from flood defences
A	115m SW	Area benefiting from flood defences
A	115m SW	Area benefiting from flood defences
A	129m SW	Area benefiting from flood defences
A	140m SW	Area benefiting from flood defences
A	143m SW	Area benefiting from flood defences
A	145m SW	Area benefiting from flood defences
A	147m SW	Area benefiting from flood defences
A	152m SW	Area benefiting from flood defences
A	154m SW	Area benefiting from flood defences
A	156m SW	Area benefiting from flood defences
A	158m SW	Area benefiting from flood defences
D	172m NE	Area benefiting from flood defences
A	191m SW	Area benefiting from flood defences
A	205m SW	Area benefiting from flood defences
A	223m SW	Area benefiting from flood defences
A	226m SW	Area benefiting from flood defences
A	227m SW	Area benefiting from flood defences
A	231m SW	Area benefiting from flood defences
A	232m SW	Area benefiting from flood defences

ID	Location	
F	232m SW	Area benefiting from flood defences
A	234m SW	Area benefiting from flood defences
A	237m SW	Area benefiting from flood defences
A	239m SW	Area benefiting from flood defences
A	242m SW	Area benefiting from flood defences
A	247m SW	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
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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 83](#) >

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.

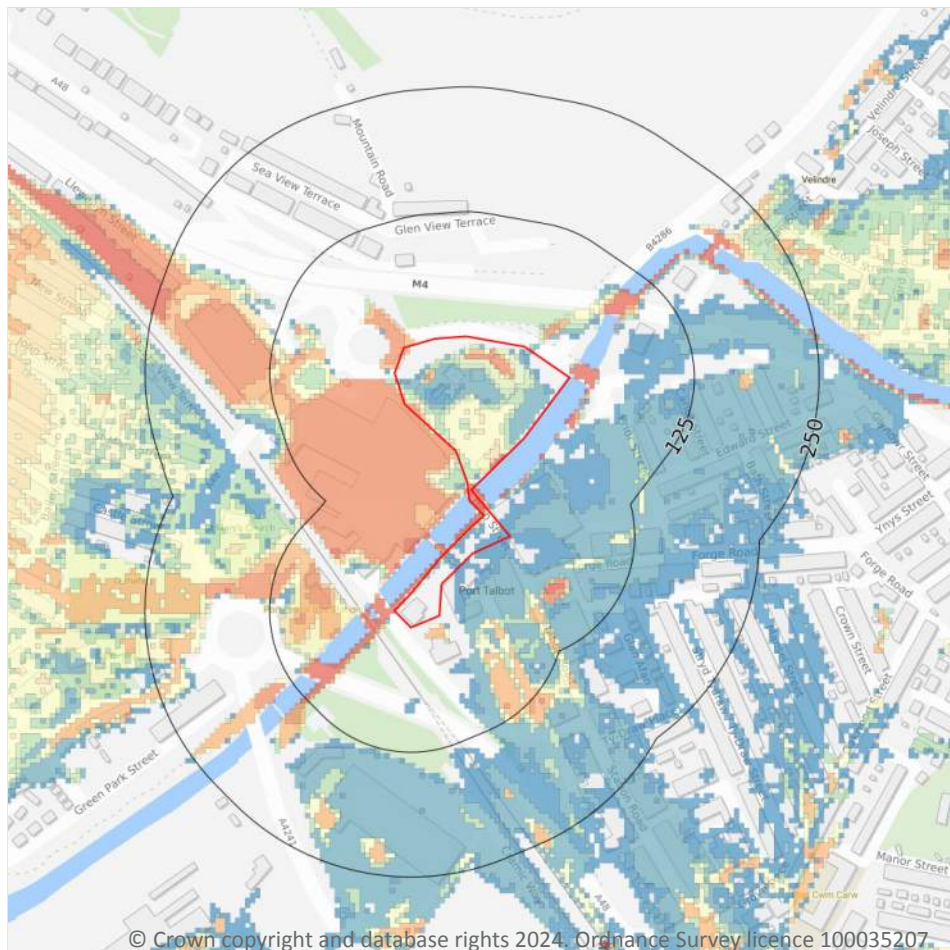
Features are displayed on the River and coastal flooding map on [page 83](#) >

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



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on [page 90](#) >

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.

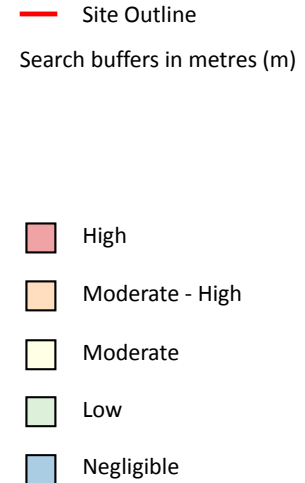
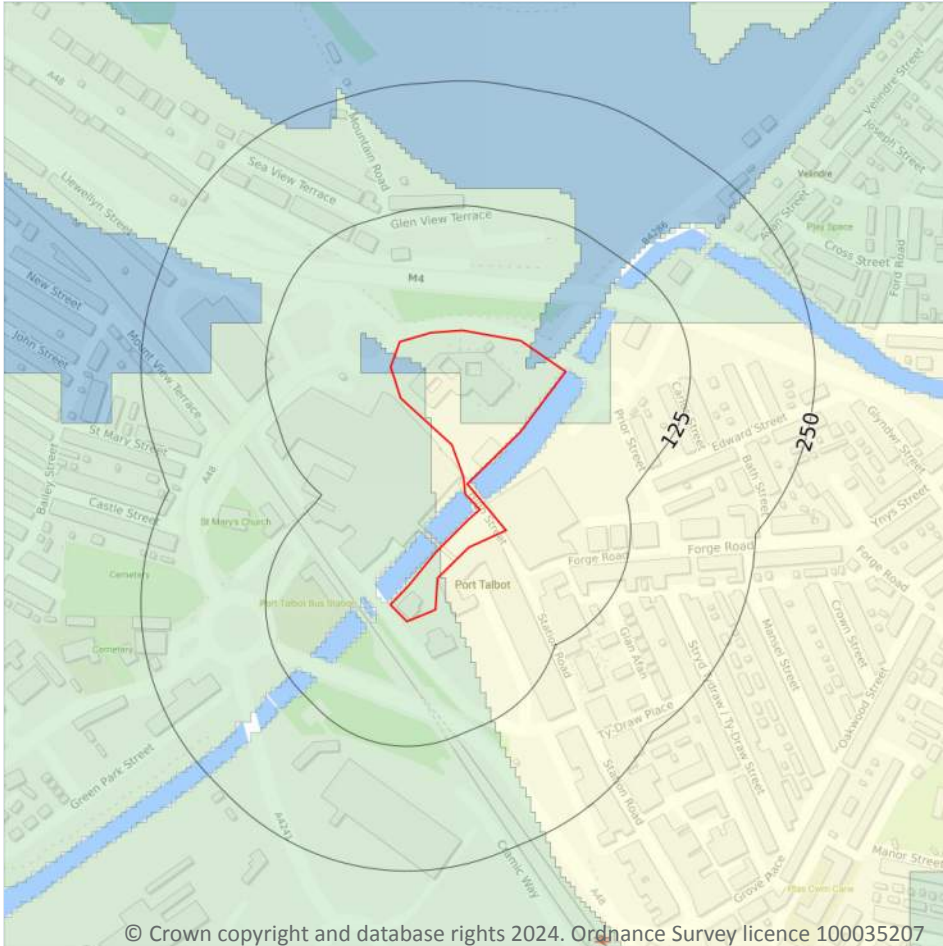
The table below shows the maximum flood depths for a range of return periods for the site.

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



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

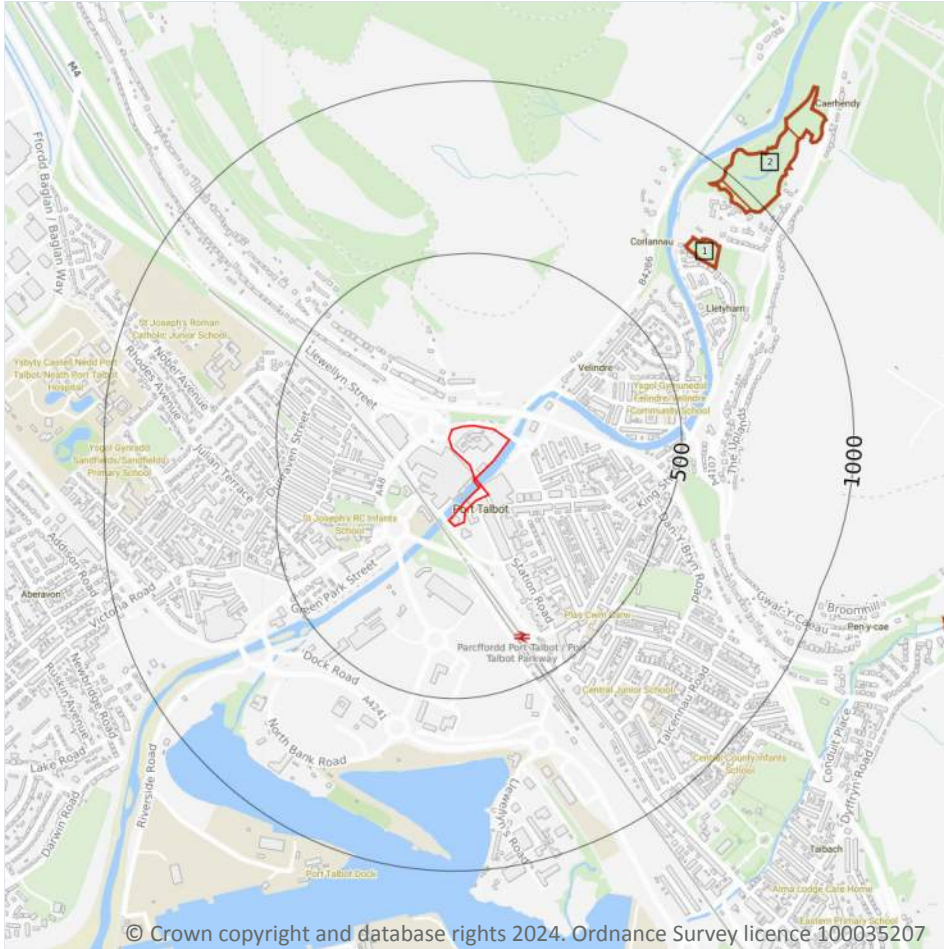
Moderate

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 92 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- 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**21**

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 93](#) >

ID	Location	Name	Woodland Type
1	759m NE	Unknown	Ancient Semi Natural Woodland
2	945m NE	Unknown	Ancient Semi Natural Woodland
3	1364m E	Unknown	Ancient Semi Natural Woodland
-	1526m N	Unknown	Ancient Semi Natural Woodland
-	1537m NE	Unknown	Ancient Semi Natural Woodland
-	1571m E	Unknown	Ancient Semi Natural Woodland
-	1600m N	Unknown	Ancient Semi Natural Woodland
-	1608m N	Unknown	Ancient Semi Natural Woodland
-	1622m E	Unknown	Ancient Semi Natural Woodland
-	1627m N	Unknown	Ancient Semi Natural Woodland
-	1668m NE	Unknown	Ancient Semi Natural Woodland
-	1687m E	Unknown	Ancient Semi Natural Woodland
-	1741m N	Unknown	Ancient Semi Natural Woodland
-	1864m E	Unknown	Ancient Semi Natural Woodland
-	1872m E	Unknown	Plantation on Ancient Woodland Site
-	1894m NE	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
-	1903m NE	Unknown	Plantation on Ancient Woodland Site
-	1930m NW	Unknown	Ancient Semi Natural Woodland
-	1948m E	Unknown	Ancient Semi Natural Woodland
-	1971m NW	Unknown	Ancient Semi Natural Woodland
-	1977m E	Unknown	Plantation on Ancient Woodland Site

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
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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

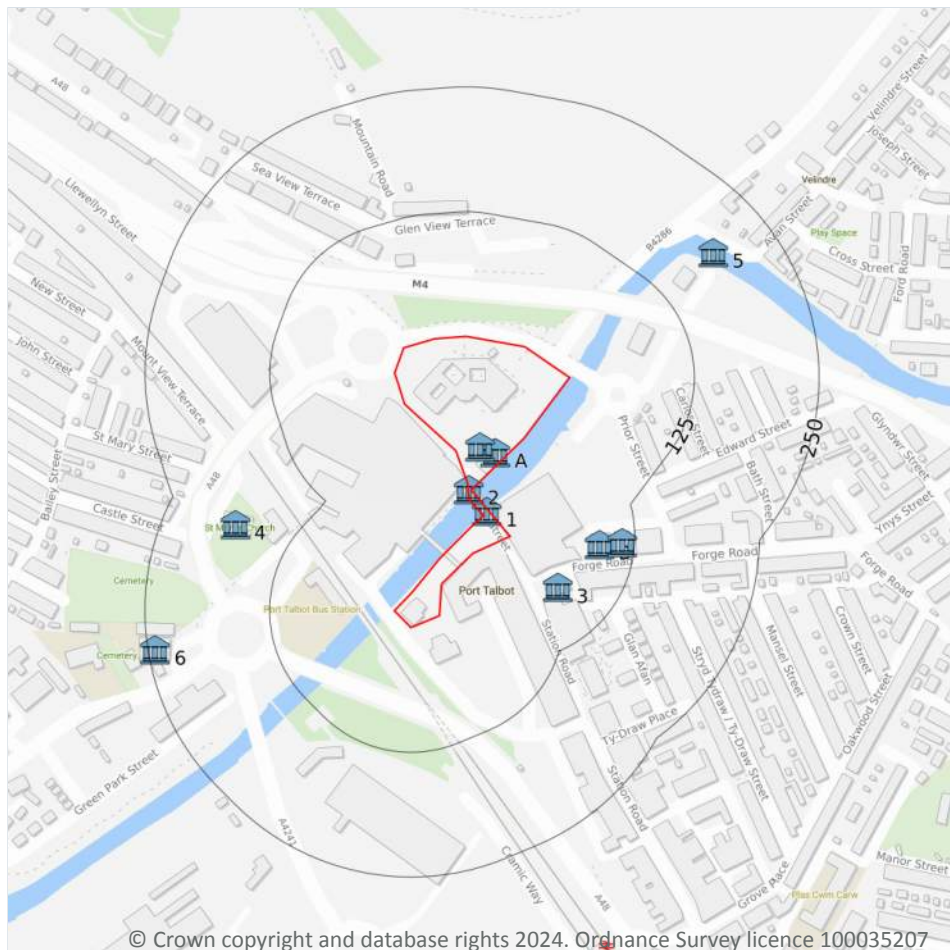
Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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



11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

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

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

11.3 National Parks

Records within 250m**0**

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

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

11.4 Listed Buildings

Records within 250m**10**

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 100 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	On site	Aberavon Bridge (Partly In Aberavon Community), The Bridge Crosses The River Afan And Serves As The Physical Link Between The Shopping Centres Of Aberavon And Port Talbot, The Former A Development Of The 1990s. The Roadway Is Now Pedestrianised.	II	14173	29/08/1979



ID	Location	Name	Grade	Reference Number	Listed date
2	On site	Aberavon Bridge (Partly In Port Talbot Community), The Bridge Crosses The River Afan And Serves As The Physical Link Between The Shopping Centres Of Aberavon And Port Talbot, The Former A Development Of The 1990s. The Roadway Is Now Pedestrianised.	II	22804	29/08/1979
A	On site	Ebenezer Chapel, In A Prominent Position In The Square Between The Shopping Centre And The Civic Centre, And Backing Onto The River Afan.	II*	14174	22/07/1980
A	On site	Forecourt Walls, Railings And Gates To Ebenezer Chapel, Bounding The Forecourt To Ebenezer Chapel And Facing W.	II	22805	31/01/2000
3	70m SE	Bethany Chapel, In A Prominent Position In The Centre Of Port Talbot. The Square Is At The Junction Of Station Road And Forge Road.	II	23252	28/04/2000
B	90m SE	Afan Masonic Temple, The Temple Fronts Forge Road; Tabernacle Chapel Adjoins On Right.	II	23249	28/04/2000
B	113m SE	Tabernacle Chapel, A Narrow Forecourt In Front Of The Chapel Faces The Road And Is Bounded By Stone Gate Piers And Iron Gates And Railings.	II	23251	28/04/2000
4	181m W	Church Of St Mary, Located In A Quadrangular Churchyard, Encircled By The High-Level A48. Just To The S Of Aberavon Shopping Centre.	II	22802	31/01/2000
5	191m NE	Velindre Bridge, Located At The Sw Corner Of The Settlement Of Velindre And Now Carrying A Path Which Runs Parallel With Cwmavon Road.	II	23250	28/04/2000
6	243m SW	Church Of St Joseph, Fronting The Street, Which Continues As A Path To The Aberavon Shopping Centre. The Entrance Is To The E And The Chancel To The W.	II	22803	31/01/2000

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

11.5 Conservation Areas

Records within 250m

0

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

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



11.6 Scheduled Ancient Monuments

Records within 250m**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

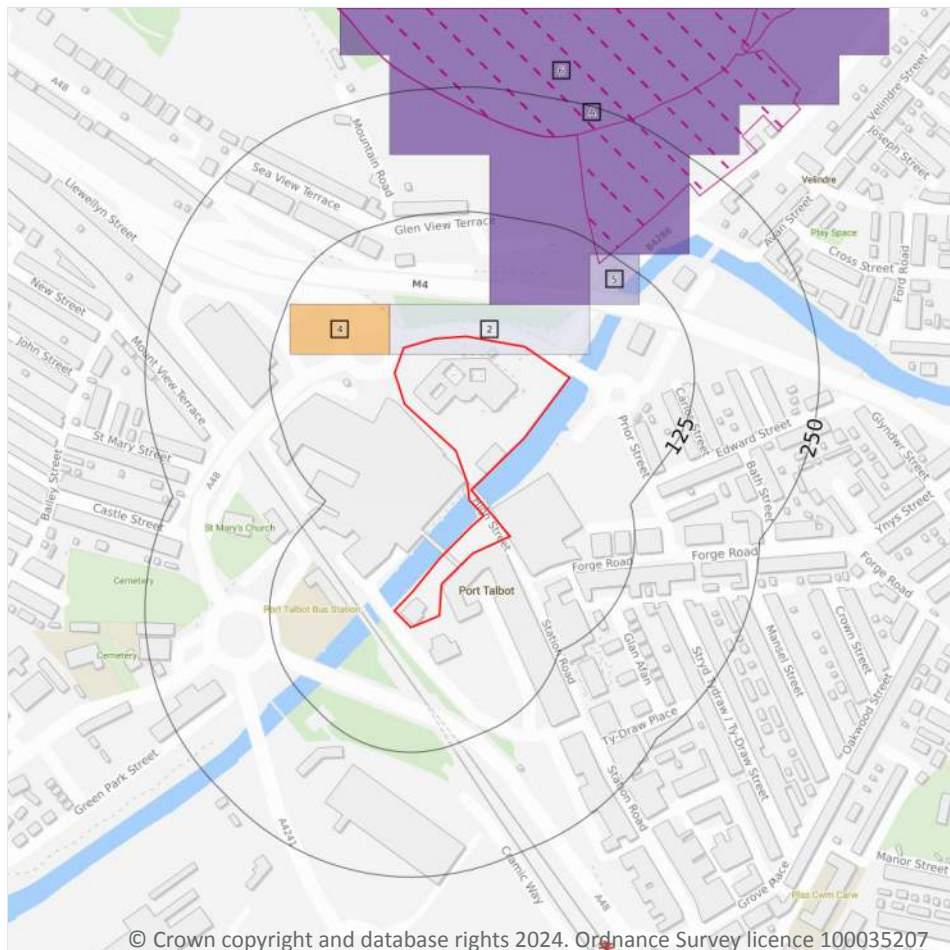
Records within 250m**0**

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



- 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

4

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 104](#) >

ID	Location	Classification	Description
2	On site	Grade 3b	Moderate quality agricultural land
4	11m NW	Grade 2	Good quality agricultural land
A	36m N	Grade 5	Very poor quality agricultural land

ID	Location	Classification	Description
5	72m NE	Grade 4	Poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m	2
----------------------------	----------

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

Features are displayed on the Agricultural designations map on [page 104](#) >

ID	Location	Name	Classification	Other relevant legislation
A	111m NE	-	NRW Public Forest 2014	-
6	211m N	-	Open Access Open Country	-

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

12.3 Tree Felling Licences

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

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

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

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

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.

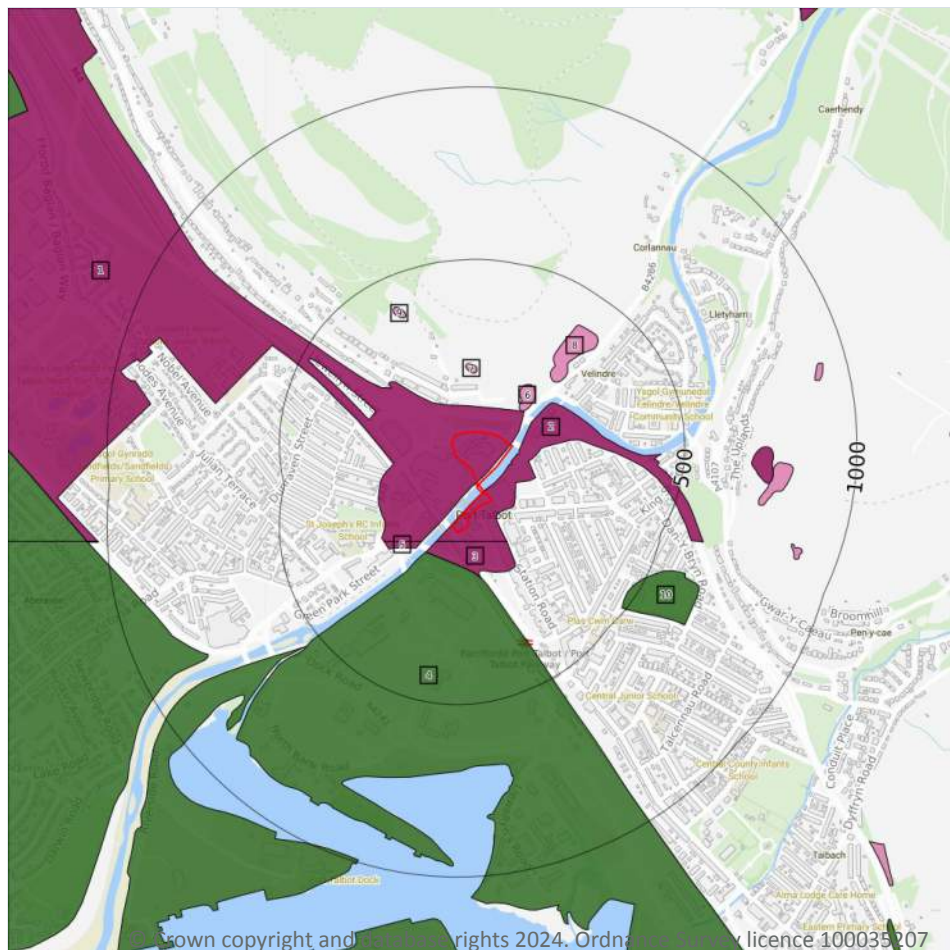
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 108](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SS79SE
2	26m S	Full	Full	Full	Full	SS78NE

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

10

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 109](#) >

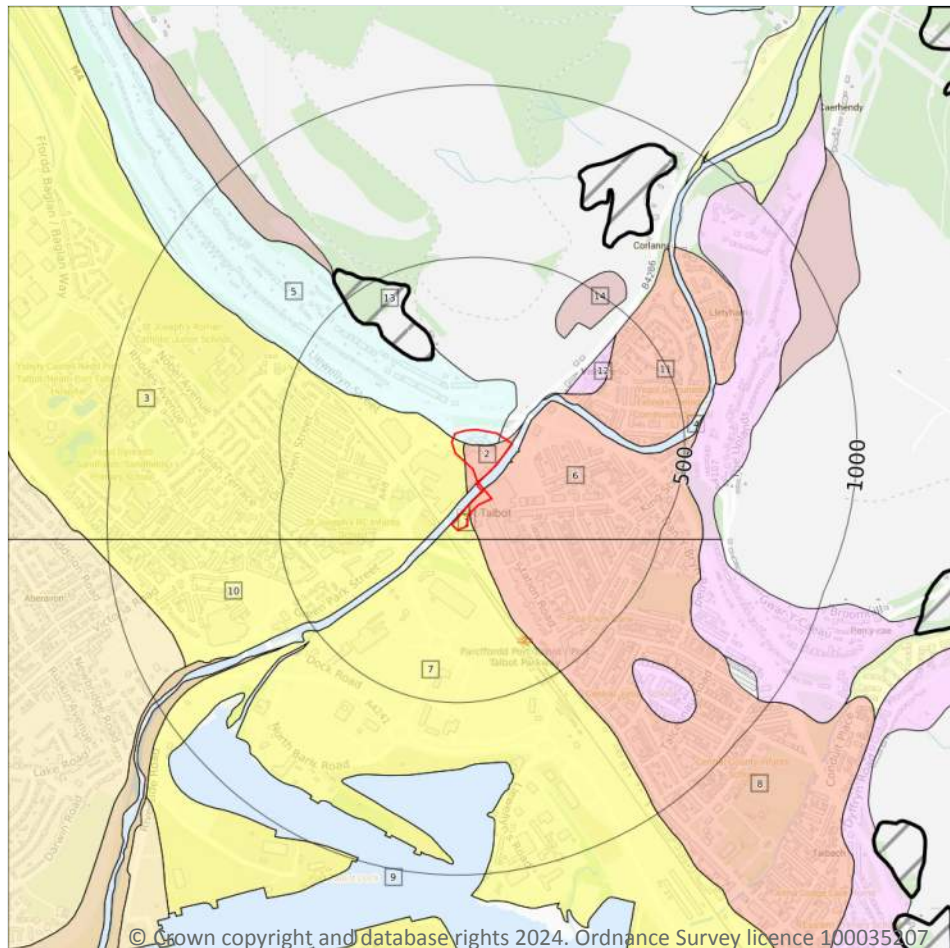
ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	26m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	88m S	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry

ID	Location	LEX Code	Description	Rock description
5	97m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	98m NE	WGR-VOID	Worked Ground (Undivided)	Void
7	170m N	WGR-VOID	Worked Ground (Undivided)	Void
8	222m NE	WGR-VOID	Worked Ground (Undivided)	Void
9	372m NW	WGR-VOID	Worked Ground (Undivided)	Void
10	475m SE	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

13

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 111](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
2	On site	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
3	On site	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand



ID	Location	LEX Code	Description	Rock description
4	On site	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
5	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	On site	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
7	26m S	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
8	50m S	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
9	62m SW	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
10	87m SW	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
11	156m NE	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
12	212m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
14	338m NE	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	1
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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.

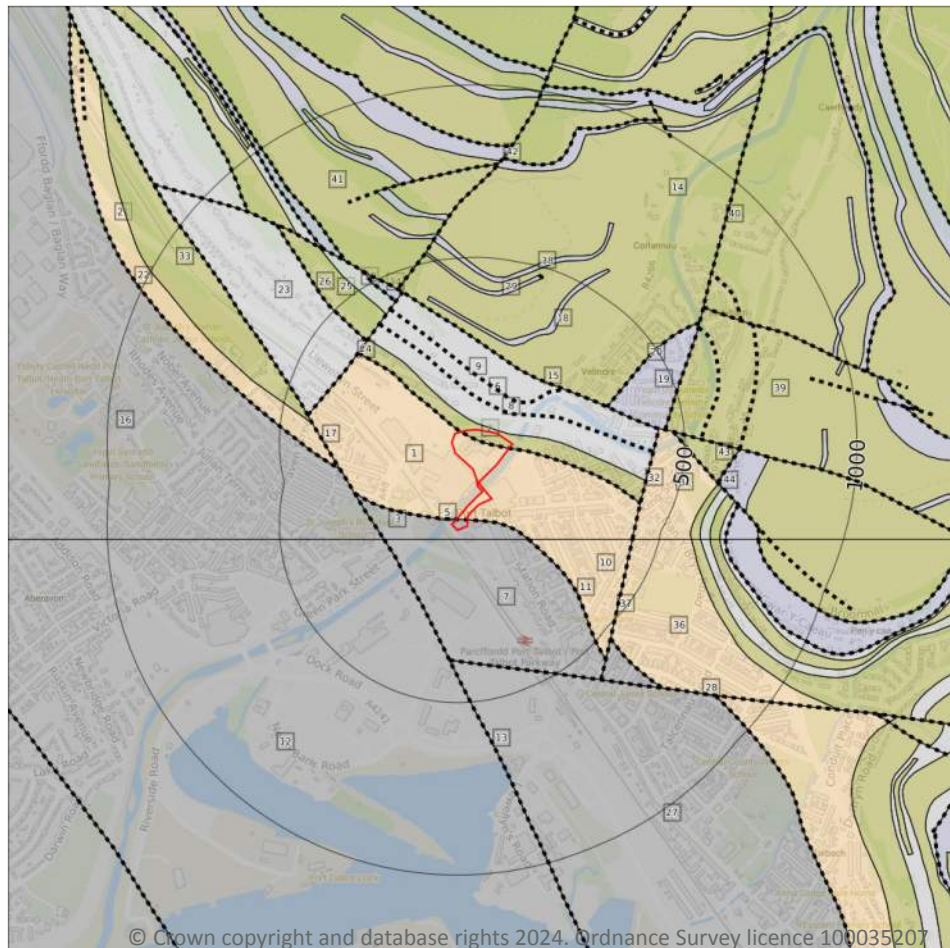
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 111](#) >

ID	Location	LEX Code	Description	Rock description
13	227m NW	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

25

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 113](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
2	On site	LLFB-SDST	Llynfi Member - Sandstone	Bolsovian Sub-age
3	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
6	9m NE	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age
7	26m S	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
10	158m SE	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
12	189m SW	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
14	194m NE	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
16	202m SW	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
18	259m N	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
19	295m NE	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
21	334m W	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
23	365m NW	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age
25	371m NW	LLFB-SDST	Llynfi Member - Sandstone	Bolsovia Sub-age
27	378m S	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
29	393m N	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
30	399m NW	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age
31	402m E	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
33	409m W	LLFB-SDST	Llynfi Member - Sandstone	Bolsovia Sub-age
34	420m NW	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
36	425m SE	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
38	432m N	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
39	446m E	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovia Sub-age



ID	Location	LEX Code	Description	Rock age
41	451m NW	LLFB-SDST	Llynfi Member - Sandstone	Bolsovian Sub-age
43	468m E	LLFB-SDST	Llynfi Member - Sandstone	Bolsovian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	20
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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 113](#) >

ID	Location	Category	Description
4	On site	ROCK	Coal seam, inferred ()
5	On site	FOSSIL_HORIZON	Fossil horizon, marine band (UCGMB (CONJECTURAL))
8	67m NE	ROCK	Coal seam, inferred (WERNDDU (CONJECTURAL))
9	107m NE	ROCK	Coal seam, inferred (FIELD)
11	158m SE	FOSSIL_HORIZON	Fossil horizon, marine band (UCGMB (CONJECTURAL))
13	189m SW	FAULT	Normal fault, inferred
15	194m NE	FAULT	Normal fault, inferred
17	202m SW	FAULT	Normal fault, inferred
20	295m NE	ROCK	Coal seam, inferred (FIELD CONJECTURAL)
22	334m W	FOSSIL_HORIZON	Fossil horizon, marine band ()
24	365m NW	FAULT	Normal fault, inferred
26	371m NW	ROCK	Coal seam, inferred (THIN COAL)
28	378m S	FAULT	Normal fault, inferred
32	402m E	FAULT	Normal fault, inferred
35	420m NW	ROCK	Coal seam, inferred ()
37	425m SE	FAULT	Normal fault, inferred
40	446m E	FAULT	Normal fault, inferred
42	451m NW	FAULT	Normal fault, inferred

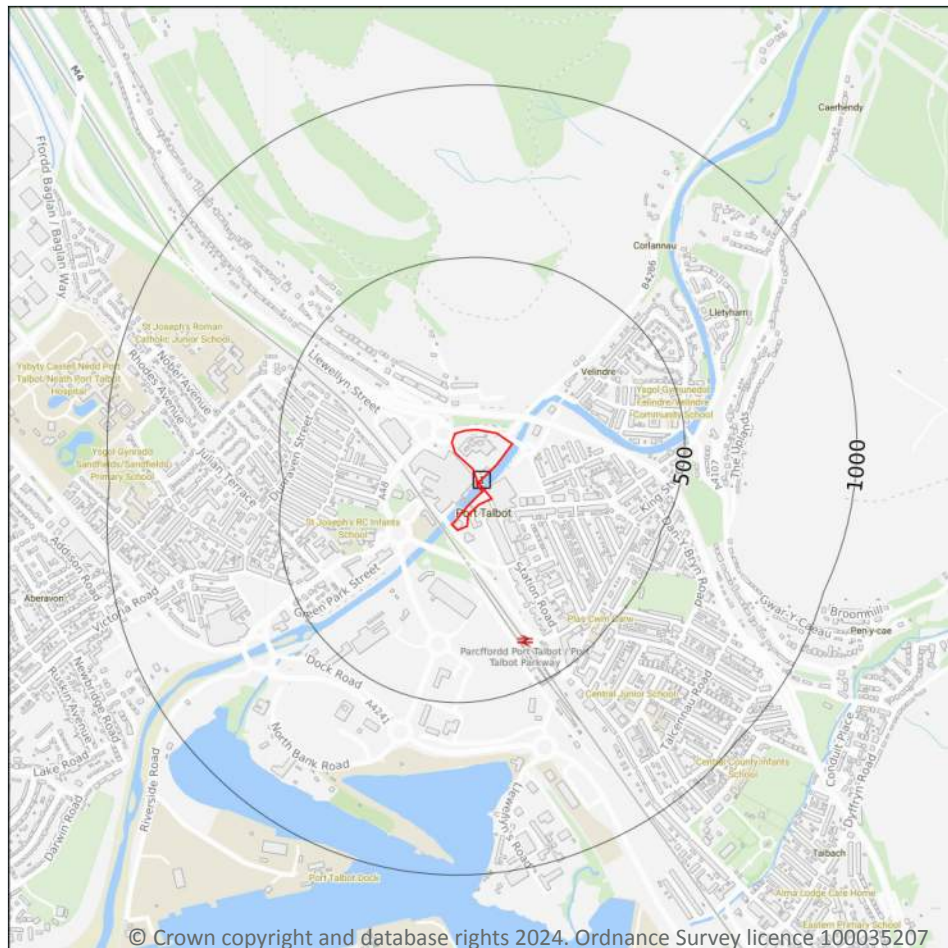


ID	Location	Category	Description
44	468m E	FAULT	Normal fault, inferred
45	470m N	FAULT	Normal fault, inferred

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 117](#) >

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



- 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

5

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 118](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	88m S	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
4	222m NE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

ID	Location	LEX Code	Description	Rock description
5	475m SE	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

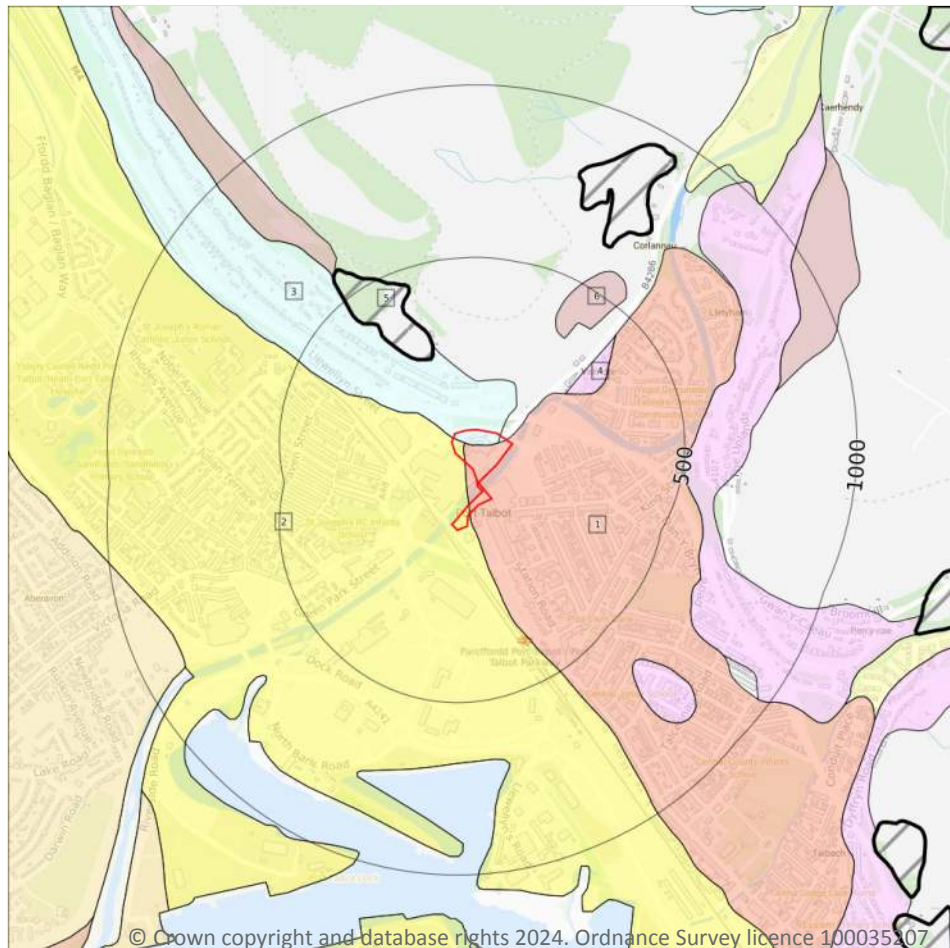
Records within 50m	3
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
26m S	Mixed	Very High	Low

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

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 120 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
2	On site	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
3	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

ID	Location	LEX Code	Description	Rock description
4	212m NE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
6	338m NE	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

4

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	Moderate	Very Low
On site	Intergranular	Very High	High
On site	Mixed	High	Low
26m S	Intergranular	Moderate	Very Low

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 120 >](#)

ID	Location	LEX Code	Description	Rock description
5	227m NW	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

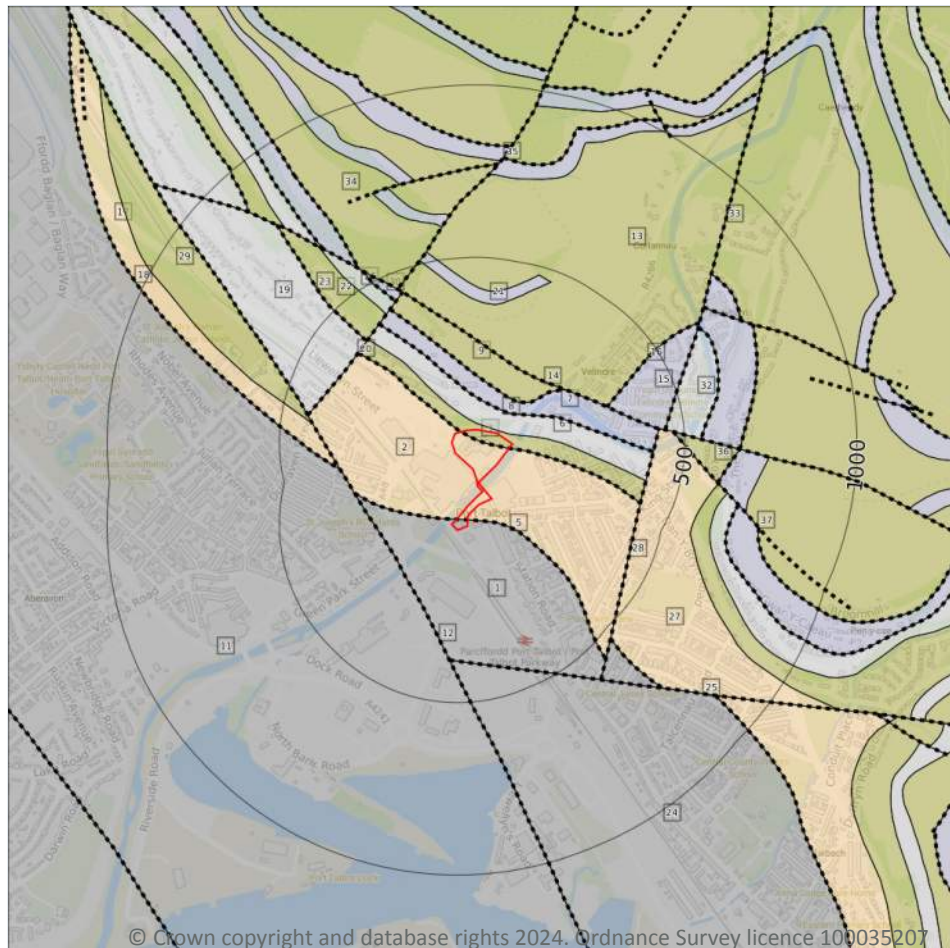
0

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 123 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	SWUCM-MDSS	SOUTH WALES UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	On site	LLFB-SDST	LLYNFI MEMBER - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
6	9m NE	LLFB-MDSS	LLYNFI MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	67m NE	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	107m NE	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN
11	189m SW	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	194m NE	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN
15	295m NE	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	334m W	SWUCM-MDSS	SOUTH WALES UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	365m NW	LLFB-MDSS	LLYNFI MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	366m N	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	371m NW	LLFB-SDST	LLYNFI MEMBER - SANDSTONE	WESTPHALIAN
24	378m S	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26	399m NW	LLFB-MDSS	LLYNFI MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
27	402m E	SWUCM-MDSS	SOUTH WALES UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
29	409m W	LLFB-SDST	LLYNFI MEMBER - SANDSTONE	WESTPHALIAN
30	420m NW	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
32	446m E	LLFB-MDSS	LLYNFI MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
34	451m NW	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN
36	468m E	LLFB-SDST	LLYNFI MEMBER - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

5

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
8m NE	Fracture	Moderate	Low
26m S	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

16

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 123 >](#)

ID	Location	Category	Description
4	On site	ROCK	Coal seam, inferred
5	On site	FOSSIL_HORIZON	Marine band
8	67m NE	ROCK	Coal seam, inferred
10	107m NE	ROCK	Coal seam, inferred
12	189m SW	FAULT	Fault, inferred, displacement unknown
14	194m NE	FAULT	Fault, inferred, displacement unknown
16	295m NE	ROCK	Coal seam, inferred
18	334m W	FOSSIL_HORIZON	Marine band
20	365m NW	FAULT	Fault, inferred, displacement unknown
23	371m NW	ROCK	Coal seam, inferred

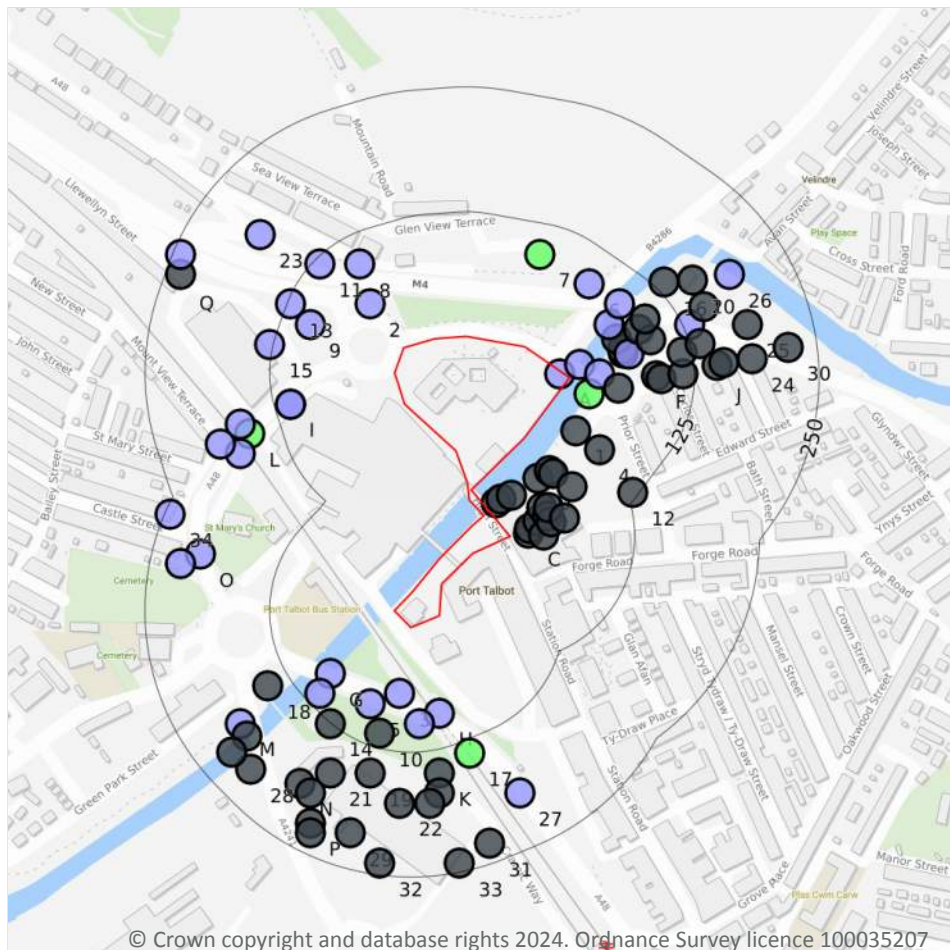


ID	Location	Category	Description
25	378m S	FAULT	Fault, inferred, displacement unknown
28	402m E	FAULT	Fault, inferred, displacement unknown
31	420m NW	ROCK	Coal seam, inferred
33	446m E	FAULT	Fault, inferred, displacement unknown
35	451m NW	FAULT	Fault, inferred, displacement unknown
37	468m E	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

97

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 127 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	276620 190280	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 2	7.62	N	371993 ↗
B	11m S	276557 190151	EAST BANK HIGH STREET PORT TALBOT 1	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	17m NE	276640 190290	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 1	9.05	N	371992 ↗
B	17m S	276561 190155	EAST BANK HIGH STREET PORT TALBOT DH 1	-	Y	N/A
C	19m SE	276589 190121	EAST BANK HIGH STREET PORT TALBOT 3	-	Y	N/A
C	21m SE	276590 190125	EAST BANK HIGH STREET PORT TALBOT DH 3	-	Y	N/A
A	26m E	276650 190260	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 3	10.05	N	371994 ↗
B	28m SE	276572 190159	EAST BANK HIGH STREET PORT TALBOT TP 1	-	Y	N/A
A	30m NE	276660 190280	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 4	7.04	N	371995 ↗
C	32m SE	276598 190133	EAST BANK HIGH STREET PORT TALBOT TP 24	-	Y	N/A
C	34m SE	276604 190119	EAST BANK HIGH STREET PORT TALBOT TP 26	-	Y	N/A
1	37m E	276636 190223	EAST BANK HIGH STREET PORT TALBOT TP 6	-	Y	N/A
D	38m SE	276598 190176	EAST BANK HIGH STREET PORT TALBOT TP 4	-	Y	N/A
D	41m SE	276610 190183	EAST BANK HIGH STREET PORT TALBOT 4	-	Y	N/A
C	43m SE	276602 190146	EAST BANK HIGH STREET PORT TALBOT TP 23	-	Y	N/A
C	43m SE	276608 190138	EAST BANK HIGH STREET PORT TALBOT TP 25	-	Y	N/A
C	44m SE	276612 190132	EAST BANK HIGH STREET PORT TALBOT TP 2	-	Y	N/A
D	46m SE	276614 190180	EAST BANK HIGH STREET PORT TALBOT DH 4	-	Y	N/A
C	48m SE	276609 190146	EAST BANK HIGH STREET PORT TALBOT TP 22	-	Y	N/A
A	50m E	276679 190266	EAST BANK HIGH STREET PORT TALBOT TP 7	-	Y	N/A
2	55m NW	276430 190350	PORT TALBOT BYPASS. 226	9.14	N	371529 ↗
C	58m SE	276625 190136	EAST BANK HIGH STREET PORT TALBOT 2	-	Y	N/A
E	59m NE	276684 190301	EAST BANK HIGH STREET PORT TALBOT 5	-	Y	N/A
E	60m NE	276683 190305	EAST BANK HIGH STREET PORT TALBOT DH 5	-	Y	N/A
E	61m NE	276677 190315	EAST BANK HIGH STREET PORT TALBOT TP 8	-	Y	N/A
E	64m NE	276690 190300	RIVER AFAN PORT TALBOT 4	6.0	N	371799 ↗
E	67m NE	276670 190330	RIVER AFAN PORT TALBOT 5	5.0	N	371800 ↗
3	67m S	276460 189960	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 24	8.19	N	370854 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	67m E	276660 190204	EAST BANK HIGH STREET PORT TALBOT TP 5	-	Y	N/A
D	69m SE	276633 190167	EAST BANK HIGH STREET PORT TALBOT TP 3	-	Y	N/A
E	84m NE	276699 190325	EAST BANK HIGH STREET PORT TALBOT TP 21	-	Y	N/A
5	87m S	276430 189950	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 23	6.43	N	370853 ↗
F	87m E	276717 190278	EAST BANK HIGH STREET PORT TALBOT DH 7	-	Y	N/A
6	88m NE	276650 190370	PORT TALBOT BYPASS. 227	6.1	N	371530 ↗
E	89m NE	276680 190350	PORT TALBOT BYPASS. 228	5.67	N	371531 ↗
E	89m NE	276711 190314	EAST BANK HIGH STREET PORT TALBOT TP 20	-	Y	N/A
G	90m SW	276390 189980	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 21	9.26	N	370851 ↗
H	91m S	276500 189940	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 26	7.64	N	370856 ↗
F	92m E	276722 190275	EAST BANK HIGH STREET PORT TALBOT TP 10	-	Y	N/A
7	94m N	276600 190400	PORT TALBOT. REPORT 19.8.86/F809 (A-E)	25.91	N	371536 ↗
8	95m NW	276420 190390	PORT TALBOT BYPASS. 225	3.04	N	371525 ↗
E	96m NE	276706 190335	EAST BANK HIGH STREET PORT TALBOT DH 8/8A	-	Y	N/A
9	96m NW	276370 190330	PORT TALBOT BYPASS. 222	6.28	N	371528 ↗
H	96m S	276480 189930	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 25	7.95	N	370855 ↗
I	109m W	276350 190250	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 7	7.49	N	371998 ↗
I	109m W	276350 190250	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 8	8.1	N	371999 ↗
10	111m S	276440 189920	CRAMIC WAY PORT TALBOT WS2	-	Y	N/A
G	111m SW	276380 189960	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 22	9.35	N	370852 ↗
F	114m E	276744 190280	EAST BANK HIGH STREET PORT TALBOT TP 19	-	Y	N/A
F	116m E	276743 190302	EAST BANK HIGH STREET PORT TALBOT TP 18	-	Y	N/A
11	119m NW	276380 190390	PORT TALBOT BYPASS. 224	7.84	N	371524 ↗
12	120m E	276693 190161	EAST BANK HIGH STREET PORT TALBOT TP 9	-	Y	N/A
13	122m NW	276350 190350	PORT TALBOT BYPASS. 220	7.92	N	371526 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
14	126m SW	276390 189930	CRAMIC WAY PORT TALBOT WS1	-	Y	N/A
15	128m NW	276330 190310	PORT TALBOT BYPASS. 221	5.79	N	371527 ↗
F	131m NE	276750 190330	PORT TALBOT BYPASS. 229	7.5	N	371532 ↗
16	135m NE	276725 190372	EAST BANK HIGH STREET PORT TALBOT TP 11	-	Y	N/A
F	135m E	276761 190311	EAST BANK HIGH STREET PORT TALBOT TP 12	-	Y	N/A
17	139m S	276530 189900	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 27	13.99	N	370857 ↗
18	147m SW	276328 189968	PORT TALBOT PDR STAGE ONE 24	-	Y	N/A
J	148m E	276778 190289	EAST BANK HIGH STREET PORT TALBOT DH 6	-	Y	N/A
K	149m S	276500 189880	CRAMIC WAY PORT TALBOT 3	-	Y	N/A
19	152m S	276430 189880	CRAMIC WAY PORT TALBOT 2	-	Y	N/A
F	153m NE	276765 190348	EAST BANK HIGH STREET PORT TALBOT TP 15	-	Y	N/A
J	156m E	276785 190292	EAST BANK HIGH STREET PORT TALBOT 6	-	Y	N/A
L	157m W	276310 190220	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 5	10.05	N	371996 ↗
20	157m NE	276753 190374	EAST BANK HIGH STREET PORT TALBOT TP 14	-	Y	N/A
L	163m W	276300 190230	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 6	7.98	N	371997 ↗
21	167m S	276390 189880	CRAMIC WAY PORT TALBOT WS4	-	Y	N/A
K	169m S	276500 189860	CRAMIC WAY PORT TALBOT WS8	-	Y	N/A
L	172m W	276300 190200	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 10	8.18	N	372001 ↗
22	176m S	276460 189850	CRAMIC WAY PORT TALBOT WS7	-	Y	N/A
K	177m S	276490 189850	CRAMIC WAY PORT TALBOT 5	-	Y	N/A
23	183m NW	276320 190420	PORT TALBOT BYPASS. 223	9.14	N	371523 ↗
24	184m E	276813 190295	EAST BANK HIGH STREET PORT TALBOT TP 13	-	Y	N/A
25	186m E	276808 190330	EAST BANK HIGH STREET PORT TALBOT TP 16	-	Y	N/A
L	188m W	276280 190210	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 9	8.25	N	372000 ↗
26	191m NE	276790 190380	RIVER AFAN PORT TALBOT 6	5.0	N	371801 ↗
M	191m SW	276300 189930	RIVER AFAN PORT TALBOT 3	8.0	N	370832 ↗

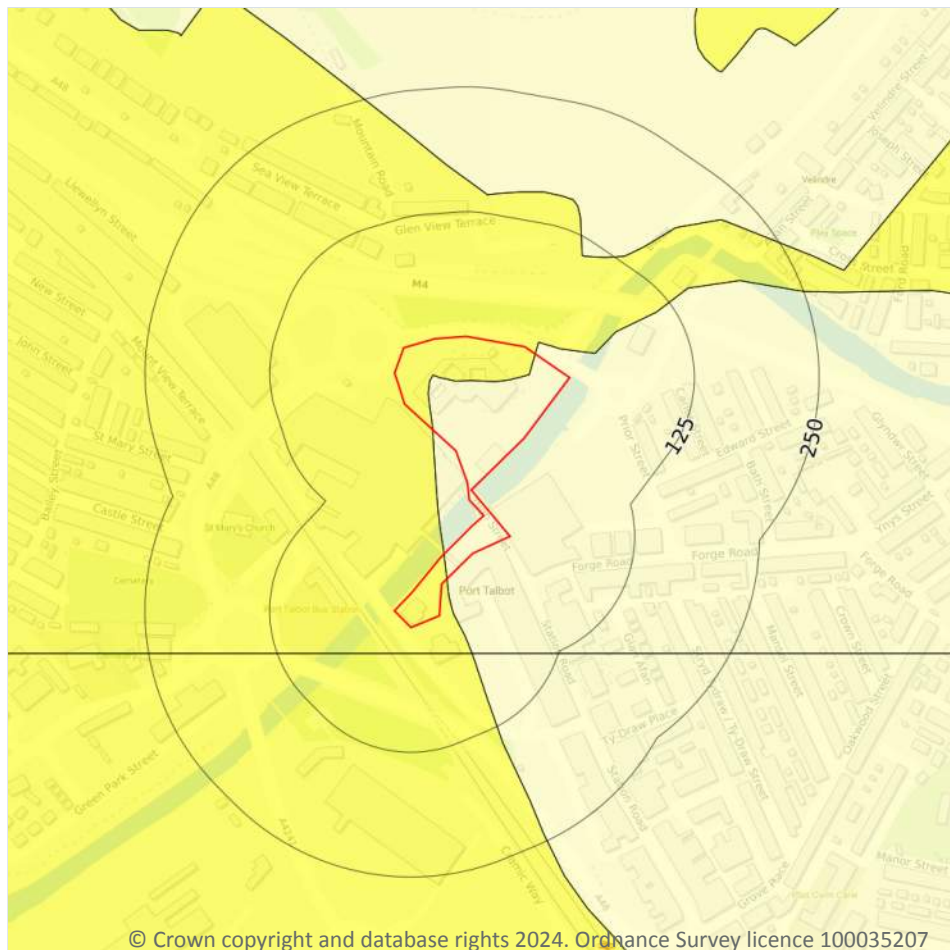


ID	Location	Grid reference	Name	Length	Confidential	Web link
N	192m SW	276360 189870	CRAMIC WAY PORT TALBOT WS3	-	Y	N/A
M	194m SW	276307 189917	PORT TALBOT PDR STAGE ONE 23	-	Y	N/A
N	195m SW	276370 189860	CRAMIC WAY PORT TALBOT 1	-	Y	N/A
27	195m S	276580 189860	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 28	4.66	N	370858 ↗
O	203m SW	276260 190100	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 12	8.08	N	372003 ↗
28	214m SW	276311 189884	PORT TALBOT PDR STAGE ONE 21	-	Y	N/A
29	215m S	276410 189820	CRAMIC WAY PORT TALBOT WS6	-	Y	N/A
M	216m SW	276292 189901	PORT TALBOT PDR STAGE ONE 22	-	Y	N/A
O	220m SW	276240 190090	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 13	7.83	N	372004 ↗
P	221m S	276370 189830	CRAMIC WAY PORT TALBOT WS5	-	Y	N/A
30	221m E	276849 190307	EAST BANK HIGH STREET PORT TALBOT TP 17	-	Y	N/A
P	230m S	276370 189820	CRAMIC WAY PORT TALBOT 4	-	Y	N/A
31	230m S	276550 189810	CRAMIC WAY PORT TALBOT 7	-	Y	N/A
Q	236m NW	276240 190380	PORT TALBOT BY-PASS 208	-	Y	N/A
32	238m S	276440 189790	CRAMIC WAY PORT TALBOT WS9	-	Y	N/A
33	241m S	276520 189790	CRAMIC WAY PORT TALBOT WS12	-	Y	N/A
Q	243m NW	276240 190400	PORT TALBOT BYPASS. 219	5.79	N	371522 ↗
34	245m W	276230 190140	REDEVELOPMENT OF PORT TALBOT TOWN CENTRE BRIDGES 11	8.08	N	372002 ↗

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

3

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 132 >](#)

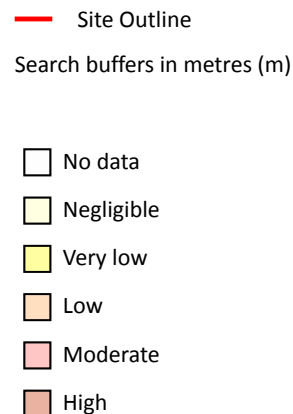
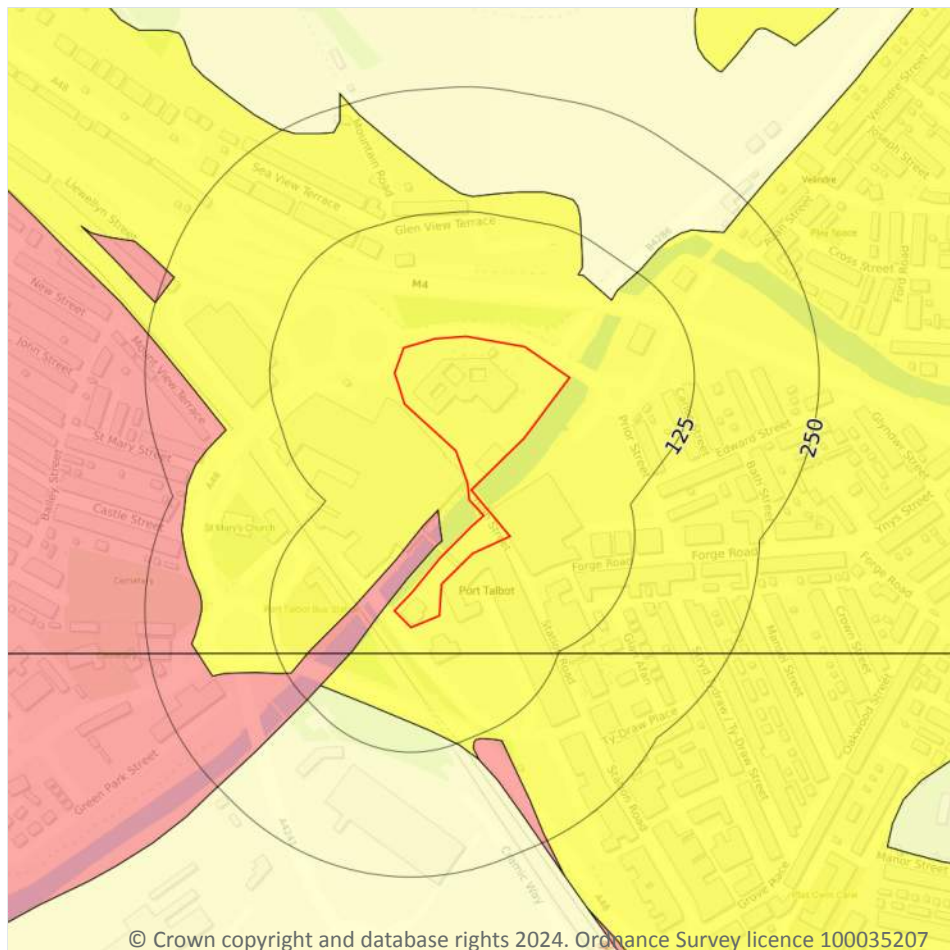
Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
26m S	Very low	Ground conditions predominantly low plasticity.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

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 134 >](#)

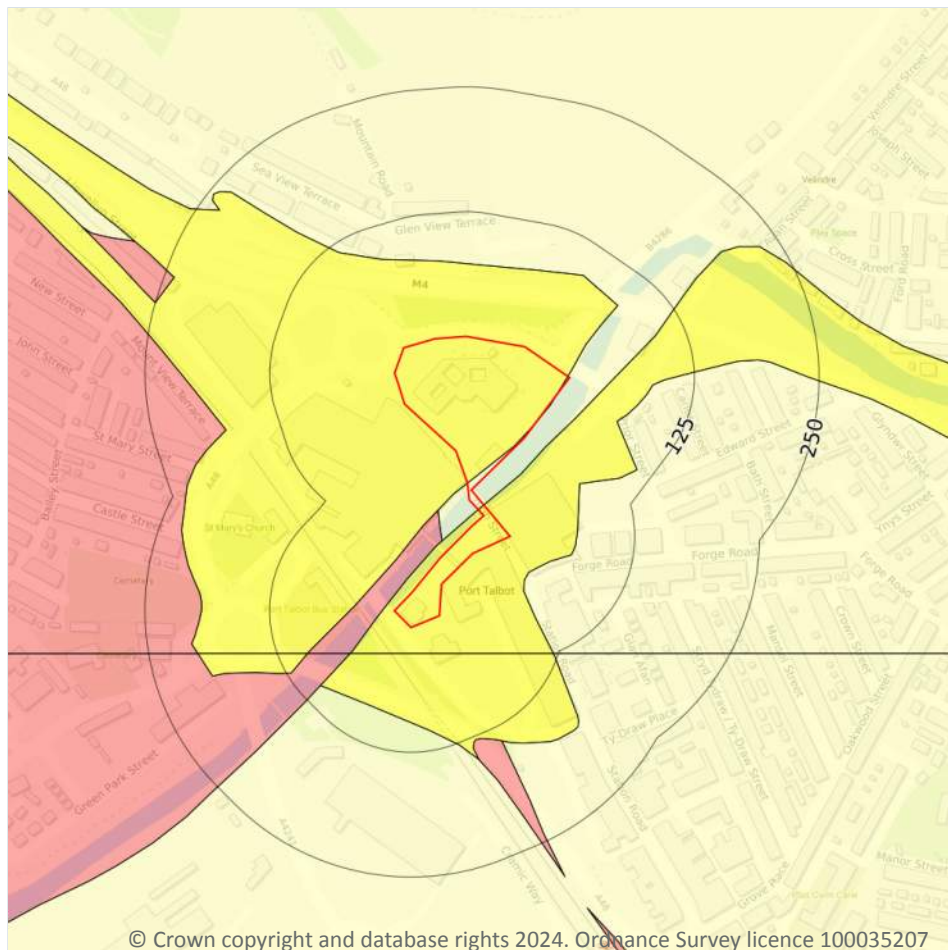
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
10m SW	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.
26m S	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

4

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 136](#) >

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.

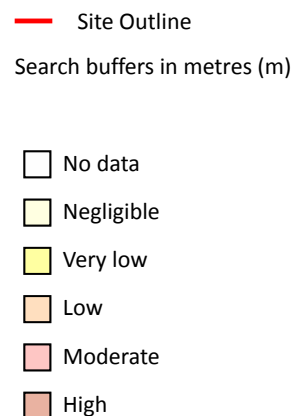
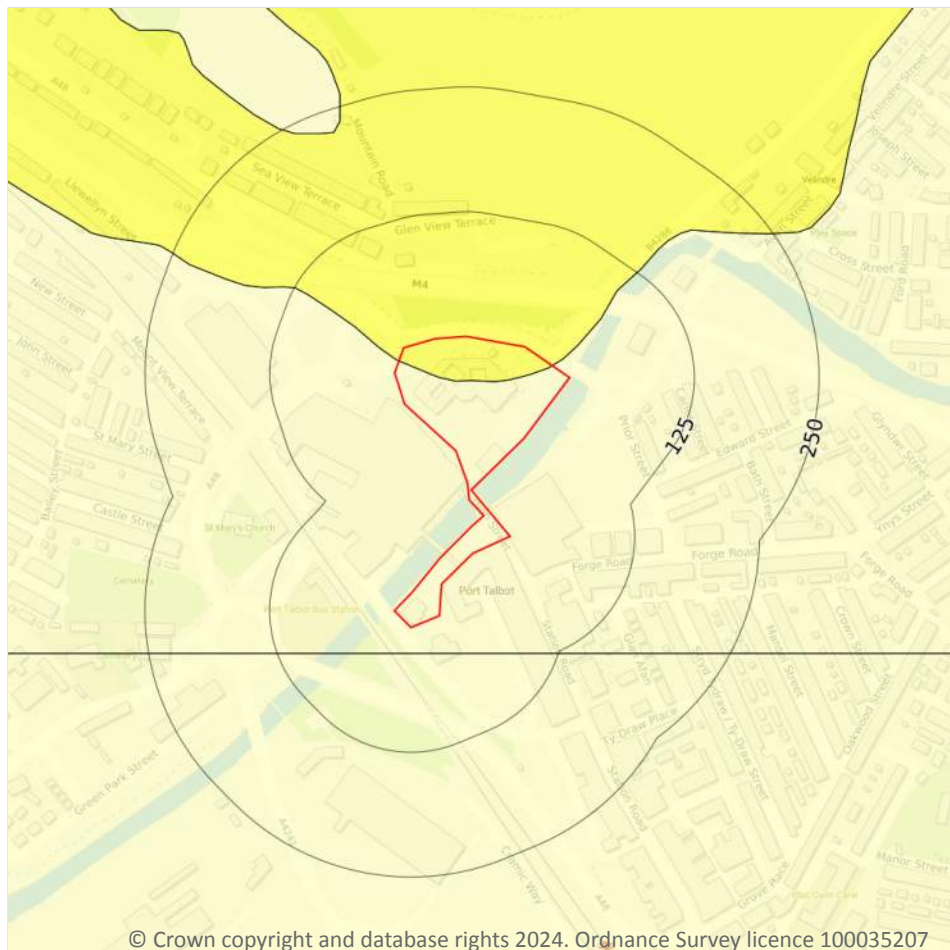


Location	Hazard rating	Details
10m SW	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
26m S	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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17.4 Collapsible deposits

Records within 50m

3

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 138 >](#)

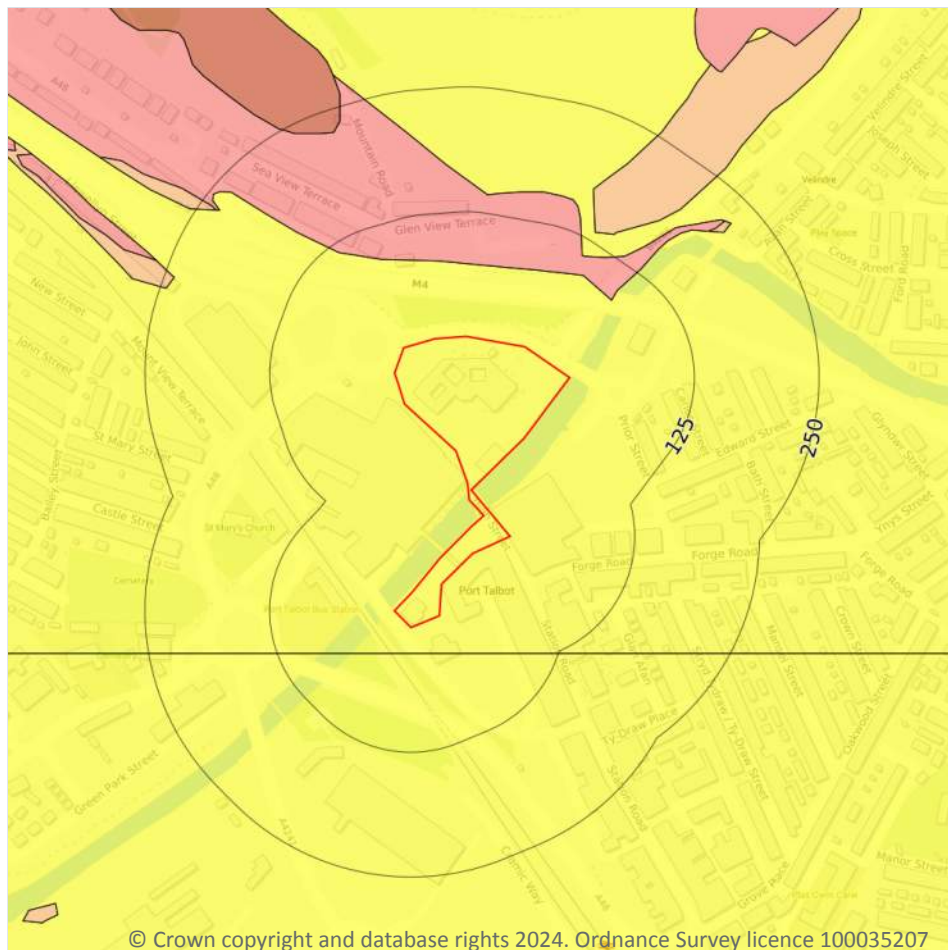
Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
26m S	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

2

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 140](#) >

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.

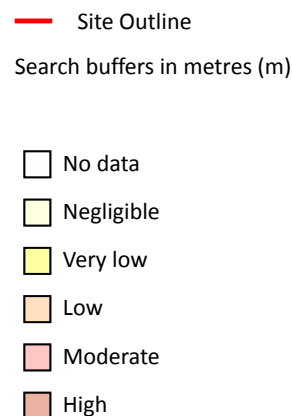
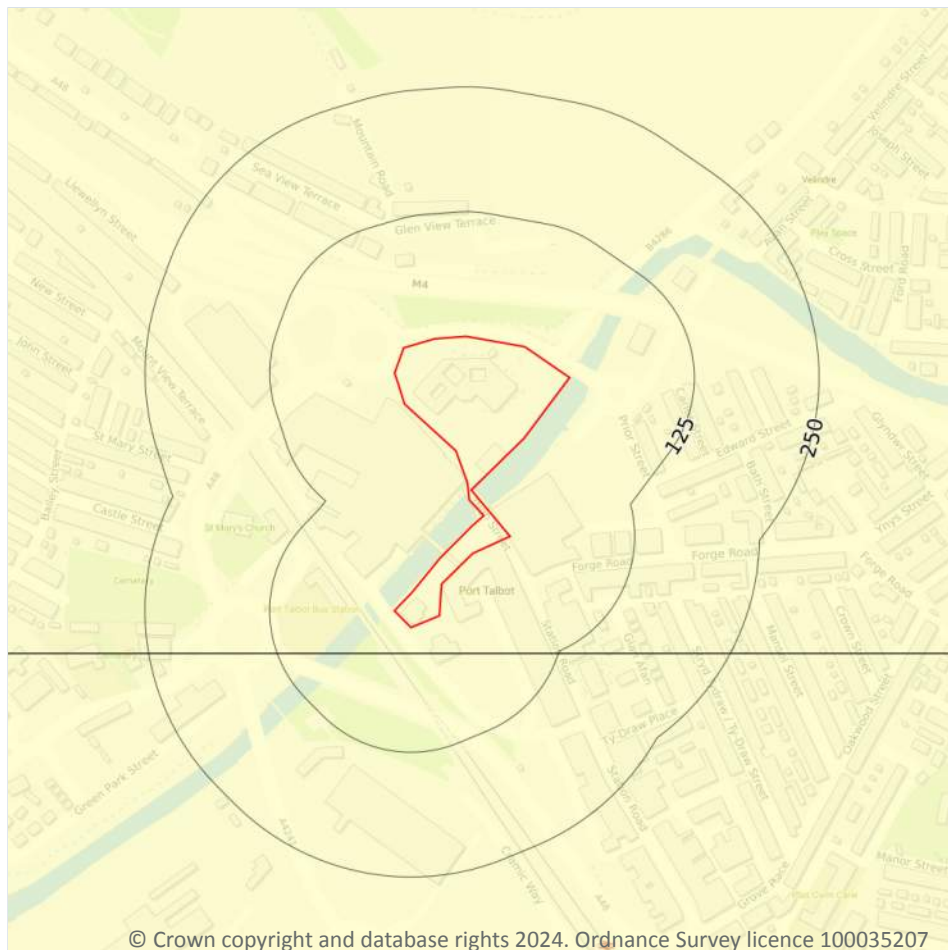


Location	Hazard rating	Details
26m S	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

2

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 142](#) >

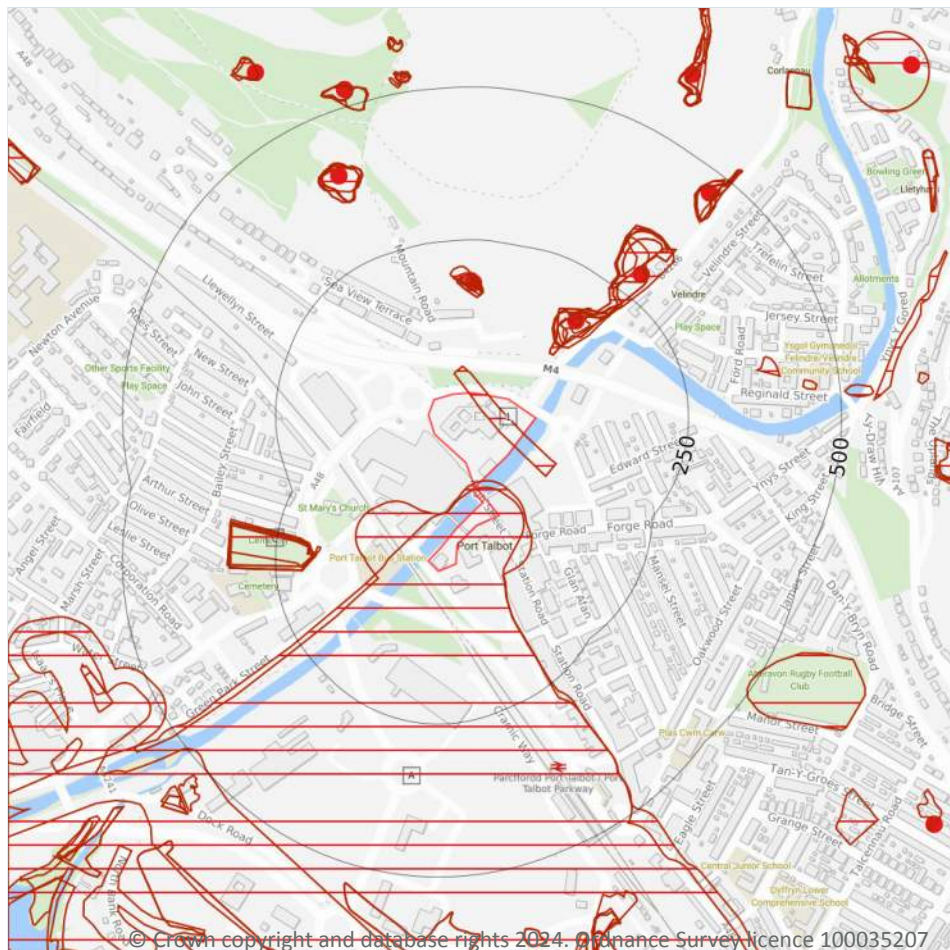
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
26m S	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

5

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 144](#) >

ID	Location	Details	Description
C	167m NE	Name: Velindre Quarries Address: PORT TALBOT, 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
D	180m N	Name: Mount Pleasant Address: PORT TALBOT, 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
B	292m NE	Name: Mount Pleasant Address: PORT TALBOT, 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
F	398m NW	Name: Maes-y-rhedyn Address: PORT TALBOT, 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
G	464m NE	Name: Myrtlehill Address: PORT TALBOT, 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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

25

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

Features are displayed on the Mining and ground workings map on [page 144](#) >



ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Cuttings	1877	1:10560
A	On site	Old Dock	1947	1:10560
A	On site	Dock	1921	1:10560
B	100m NE	Unspecified Quarry	1978	1:10000
B	100m NE	Unspecified Quarry	1995	1:10000
C	118m NE	Unspecified Old Quarries	1957	1:10560
B	120m NE	Unspecified Quarries	1947	1:10560
B	120m NE	Unspecified Quarries	1914	1:10560
B	120m NE	Unspecified Quarries	1921	1:10560
C	125m NE	Unspecified Quarries	1897	1:10560
D	156m N	Unspecified Pit	1957	1:10560
D	156m N	Unspecified Pit	1995	1:10000
D	160m N	Unspecified Pit	1947	1:10560
D	166m N	Unspecified Quarry	1897	1:10560
D	169m N	Unspecified Old Quarry	1914	1:10560
D	171m N	Unspecified Old Quarry	1921	1:10560
D	175m N	Unspecified Pit	1978	1:10000
E	178m SW	Cemetery	1897	1:10560
E	185m SW	Cemetery	1947	1:10560
E	185m SW	Cemetery	1914	1:10560
E	185m SW	Cemetery	1921	1:10560
E	187m SW	Cemetery	1957	1:10560
E	188m SW	Cemetery	1978	1:10000
E	188m SW	Cemetery	1995	1:10000
B	243m NE	Unspecified Old Quarries	1957	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m**0**

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

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m**0**

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m**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.

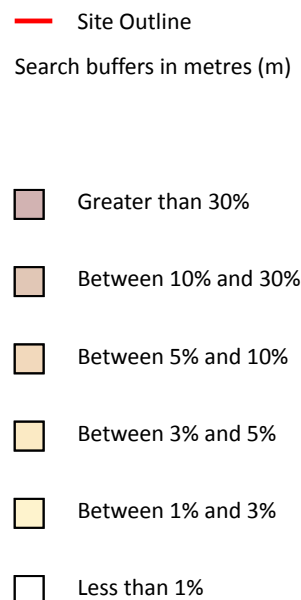
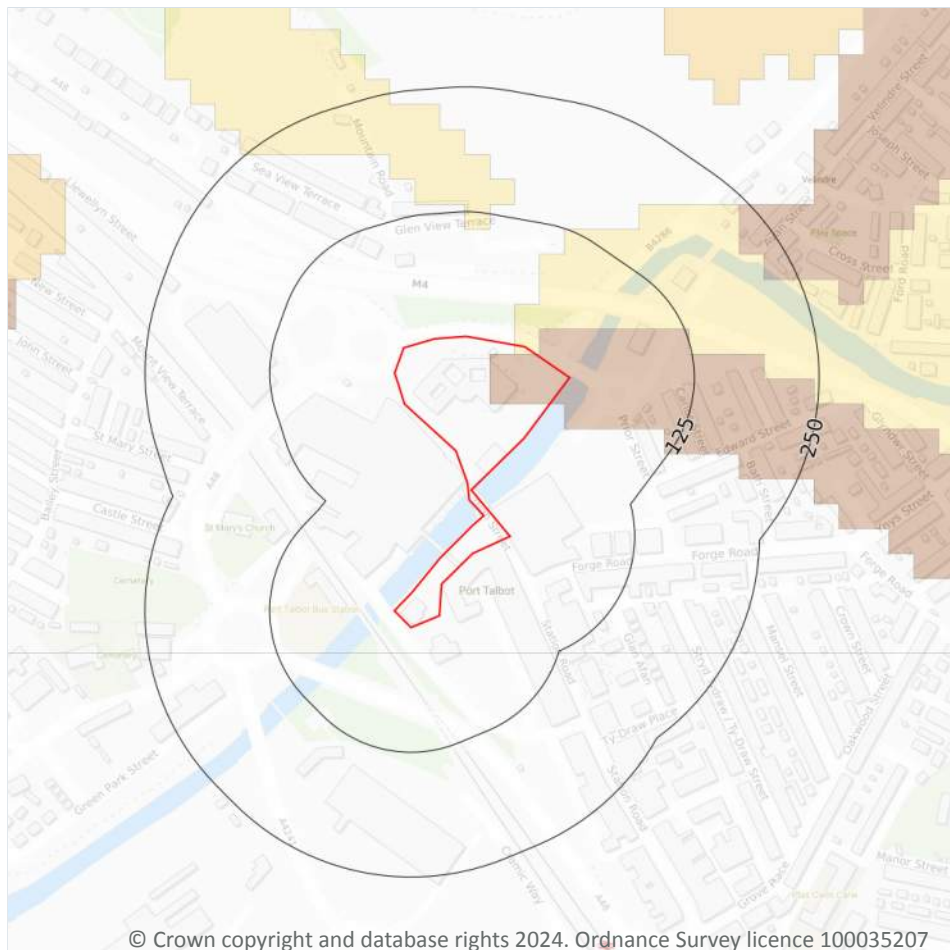
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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



20.1 Radon

Records on site

3

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

Features are displayed on the Radon map on [page 152](#) >

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



Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full
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

9

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
26m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	14
--------------------	----

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

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)
On site	37	6.5	270	185	1.1	77	232	69	91
On site	37	6.5	273	188	1.1	77	230	69	90
On site	37	6.5	220	151	0.9	73	230	63	88
On site	38	6.7	368	253	1.5	84	240	79	96
On site	38	6.7	299	205	1.2	79	230	71	92
On site	38	6.7	282	194	1.2	78	233	70	91
On site	39	6.8	381	262	1.5	85	251	82	97
On site	39	6.8	370	254	1.5	84	244	80	96
2m NE	37	6.5	226	155	1	73	229	64	88
3m S	39	6.8	378	260	1.5	85	248	81	97
22m E	37	6.5	234	161	1	74	229	65	88
26m S	38	6.7	357	245	1.4	83	230	76	95
34m SE	37	6.5	258	177	1.1	76	226	67	89
35m S	37	6.5	311	214	1.3	80	225	72	92

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

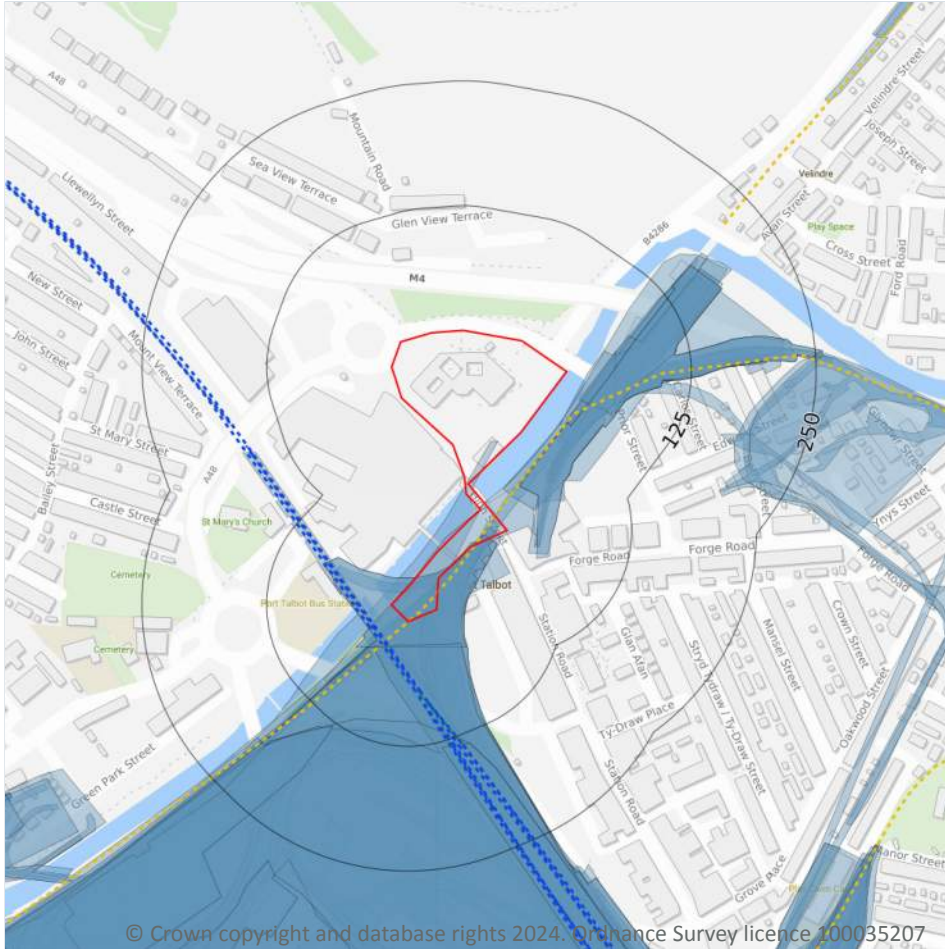
Records within 50m	0
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

2

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on [page 156](#) >

Location	Type
70m S	Railway Tunnel
70m S	Railway Tunnel

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

59

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	Railway Sidings	1899	2500
On site	Tramway Sidings	1881	2500
On site	Railway	1876	-
On site	Railway Sidings	1917	2500
On site	Railway Sidings	1939	2500
On site	Railway Sidings	1947	10560
On site	Railway Sidings	1897	10560
On site	Railway Sidings	1914	10560
On site	Railway Sidings	1921	10560
On site	Railway Sidings	1957	10560
5m S	Railway Sidings	1950	1250
22m E	Railway Sidings	1947	10560



Location	Land Use	Year of mapping	Mapping scale
24m S	Railway Sidings	1965	10560
25m SE	Railway Sidings	1921	10560
27m E	Railway Sidings	1897	10560
27m S	Railway Sidings	1951	2500
29m E	Railway Sidings	1917	2500
29m E	Railway Sidings	1899	2500
30m E	Railway Sidings	1950	1250
30m S	Railway Sidings	1964	1250
30m S	Railway Sidings	1951	1250
30m S	Railway Sidings	1968	2500
30m SE	Railway Sidings	1914	10560
31m S	Disused Railway Sidings	1968	2500
31m S	Railway Sidings	1979	1250
31m S	Railway Sidings	1991	1250
31m S	Disused Railway Sidings	1967	1250
31m S	Disused Railway Sidings	1971	1250
31m SE	Railway Sidings	1899	2500
49m E	Railway Sidings	1917	2500
49m SW	Railway Sidings	1957	1250
49m SW	Railway Sidings	1964	1250
49m SW	Railway Sidings	1951	1250
49m E	Railway Sidings	1899	2500
49m E	Railway Sidings	1939	2500
100m S	Railway Sidings	1979	10000
112m SW	Railway Sidings	1968	2500
113m S	Railway	1876	-
114m S	Railway Sidings	1951	1250
115m S	Railway Sidings	1967	1250



Location	Land Use	Year of mapping	Mapping scale
115m S	Disused Railway Sidings	1968	2500
129m SW	Railway Sidings	1897	10560
130m S	Railway Sidings	1957	1250
131m S	Railway Sidings	1991	10000
131m S	Railway Sidings	1964	1250
141m S	Railway Sidings	1962	1250
161m S	Railway Sidings	1968	1250
161m S	Railway Sidings	1950	1250
161m S	Railway Sidings	1962	1250
166m S	Railway Sidings	1957	1250
166m S	Railway Sidings	1962	1250
166m E	Railway	0	-
183m E	Railway Sidings	1876	2500
193m E	Railway Sidings	1897	10560
204m S	Railway Sidings	1964	1250
212m S	Railway Sidings	1957	1250
222m S	Railway Sidings	1950	1250
223m SW	Railway Sidings	1979	1250
224m SW	Railway Sidings	1971	1250

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

2

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

Features are displayed on the Railway infrastructure and projects map on [page 156](#) >

Location	Description
On site	Dismantled
217m NE	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

25

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
26m SW	South Wales Main Line	rail
27m SW	Prif Linell De Cymru	rail
28m SW	Not given	Multi Track
28m SW	Not given	Multi Track
31m SW	South Wales Main Line	rail
31m SW	Prif Linell De Cymru	rail
34m SW	Prif Linell De Cymru	rail
35m S	Not given	Multi Track
36m SW	Not given	Multi Track
37m SW	Prif Linell De Cymru	rail
70m S	South Wales Main Line	rail
70m S	South Wales Main Line	rail
84m S		rail
92m S		rail



Location	Name	Type
133m S		rail
133m S	South Wales Main Line	rail
134m S	Not given	Multi Track
134m S	Prif Linell De Cymru	rail
135m S	Not given	Multi Track
135m S		rail
160m W	Not given	Multi Track
171m W	Not given	Multi Track
203m S	Not given	Multi Track
214m S	Not given	Multi Track
217m S	Not given	Multi 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> ↗.

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Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1876-1881

Scale: 1:2,500

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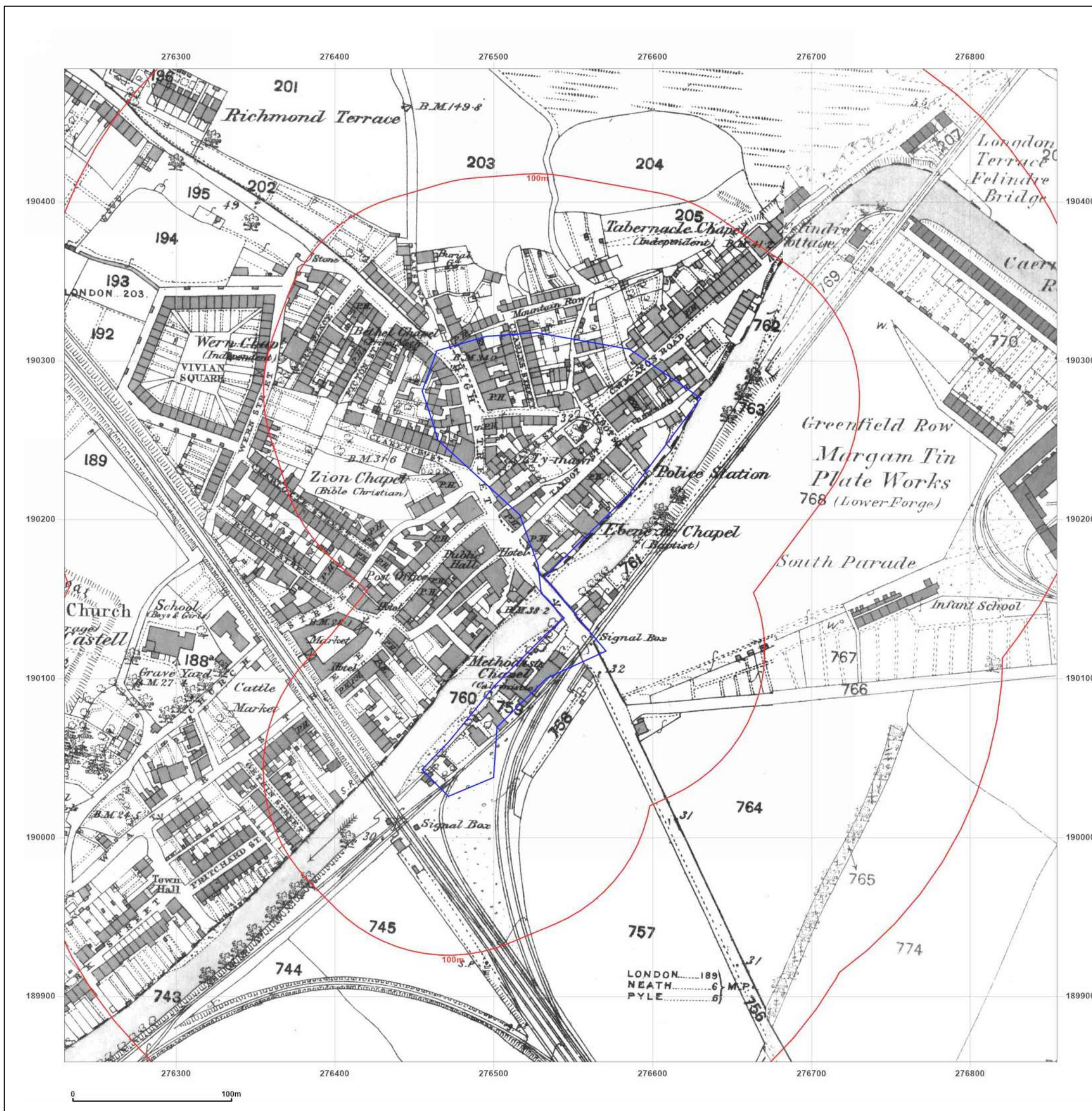


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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1899

Scale: 1:2,500

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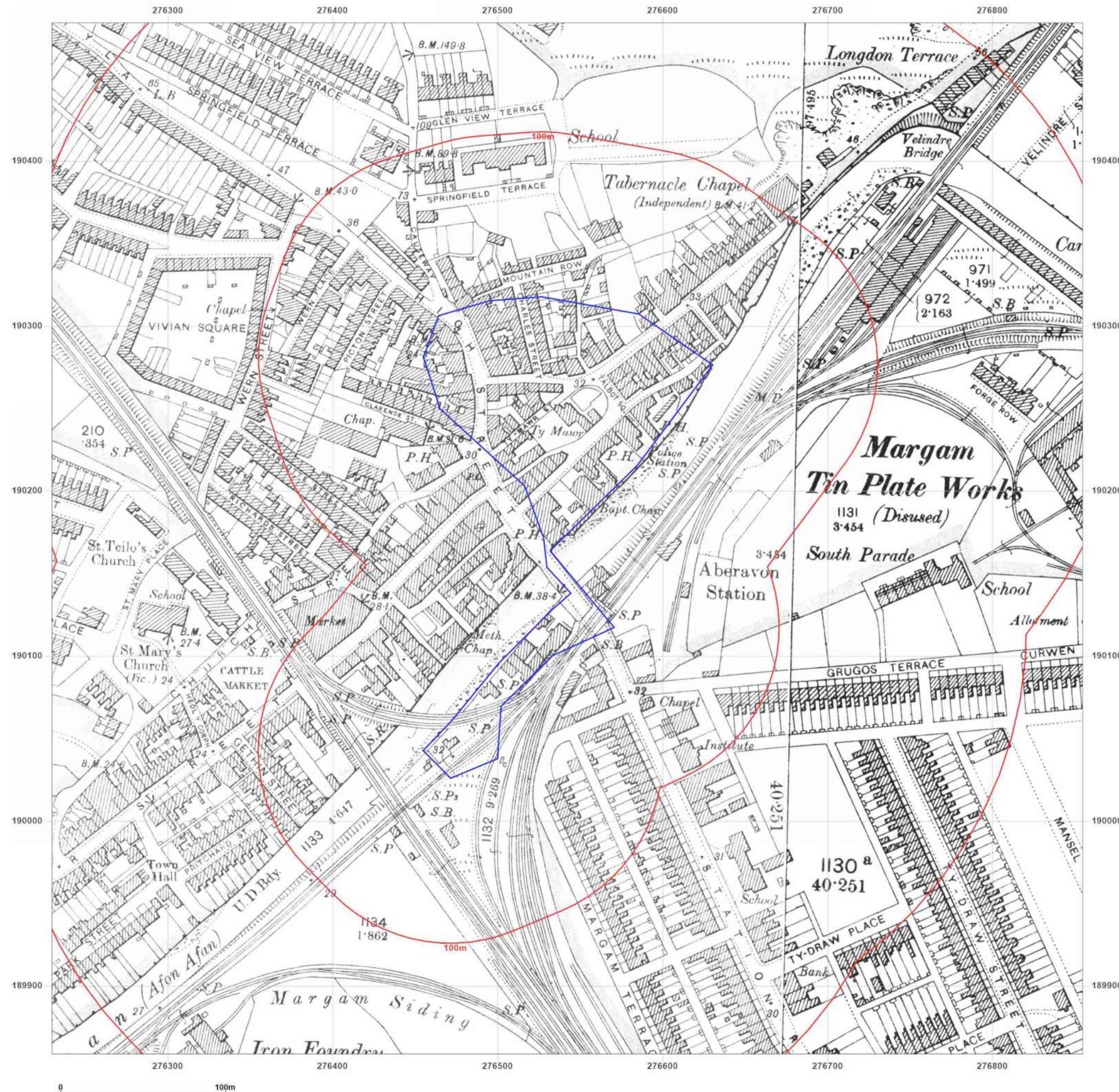


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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1917

Scale: 1:2,500

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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1939

Scale: 1:2,500

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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1950-1951

Scale: 1:1,250

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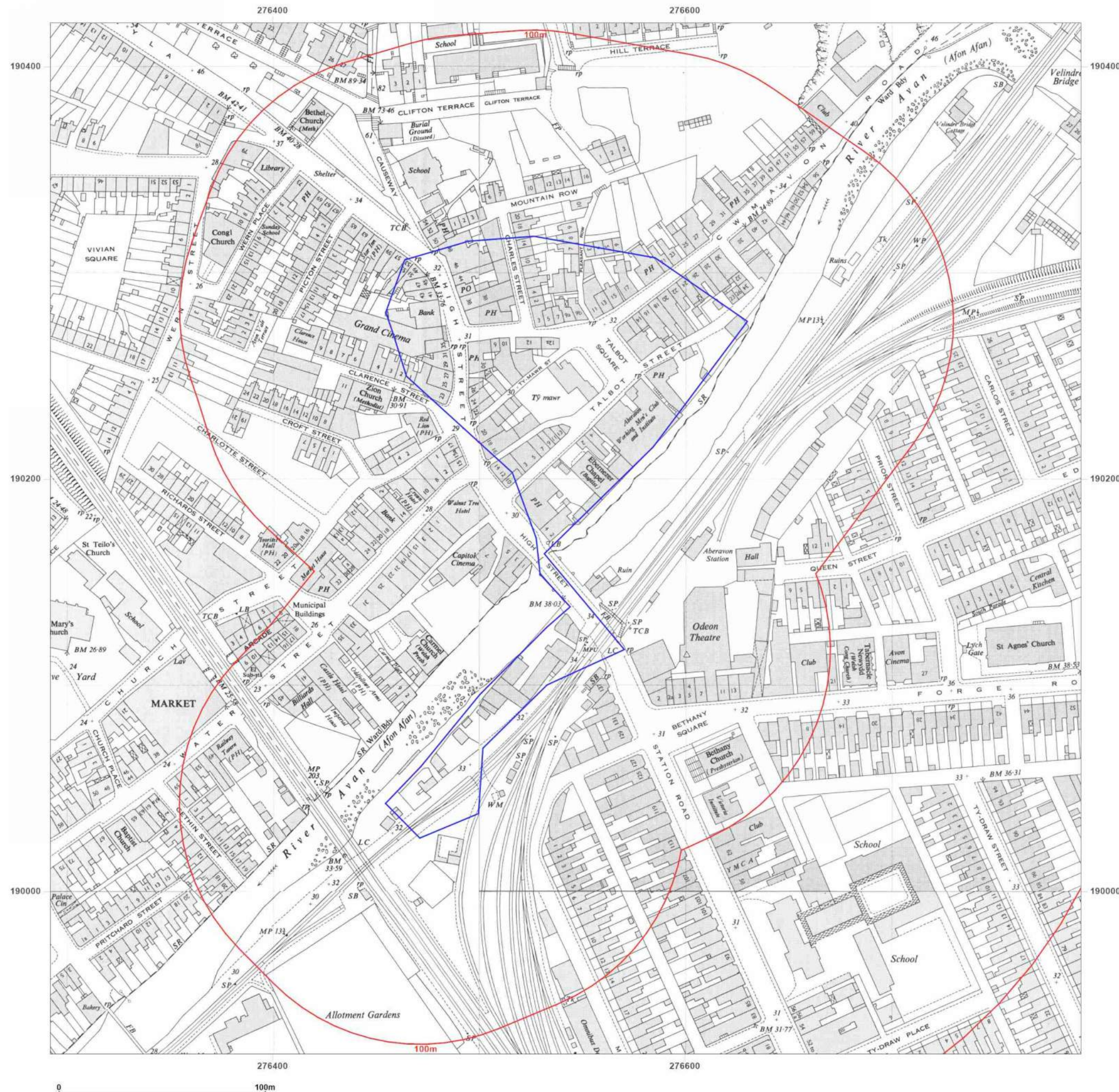


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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1951-1952

Scale: 1:1,250

Printed at: 1:2,000



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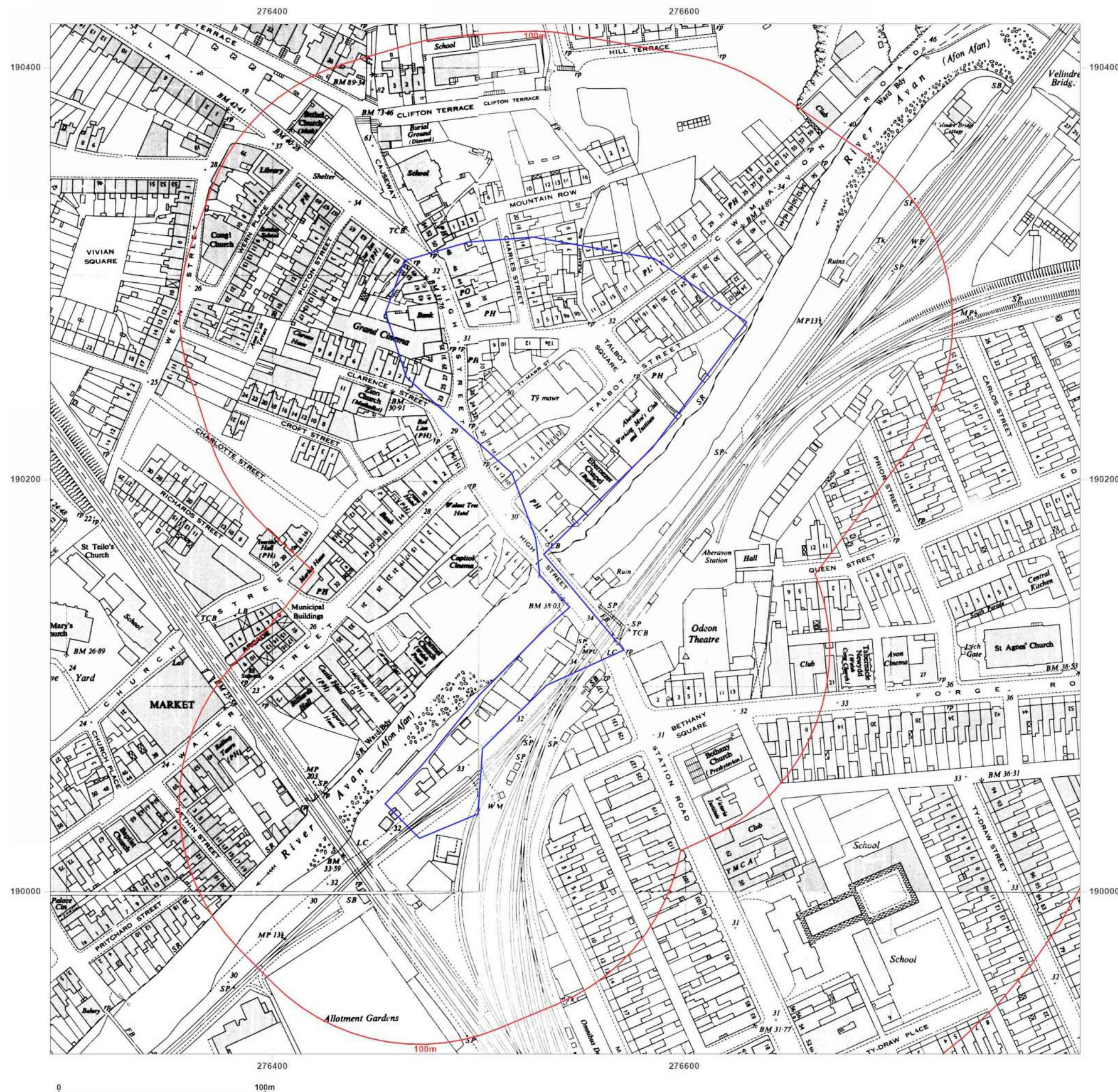


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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1964-1968

Scale: 1:1,250

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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
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Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1968

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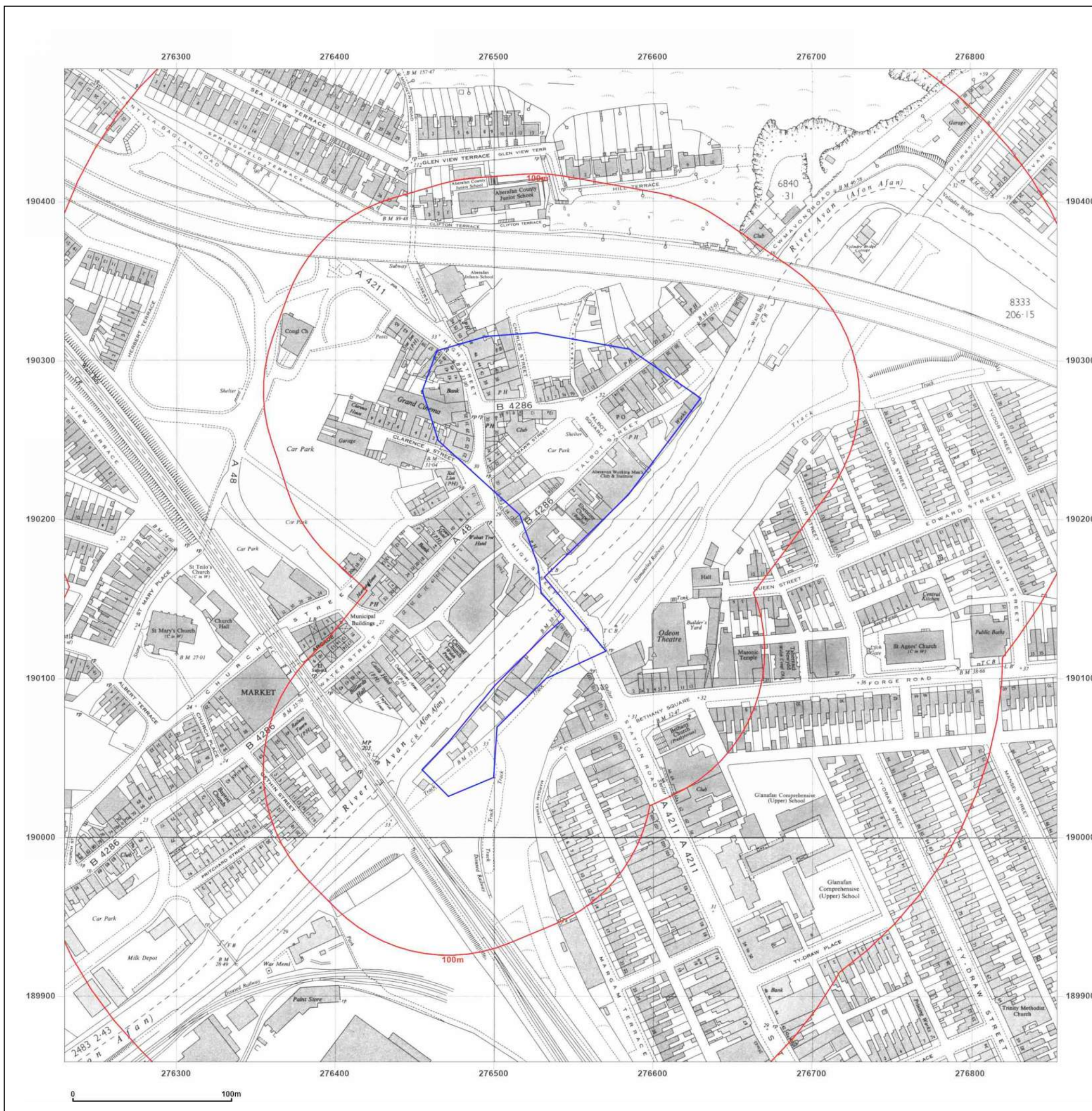


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Grid Ref: 276542, 190171

Map Name: National Grid

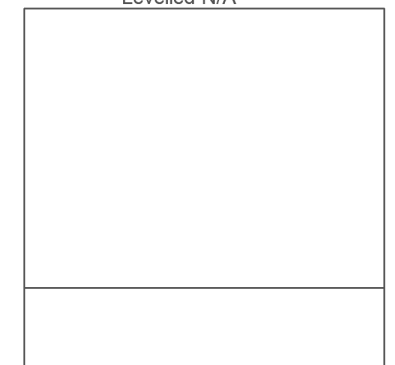
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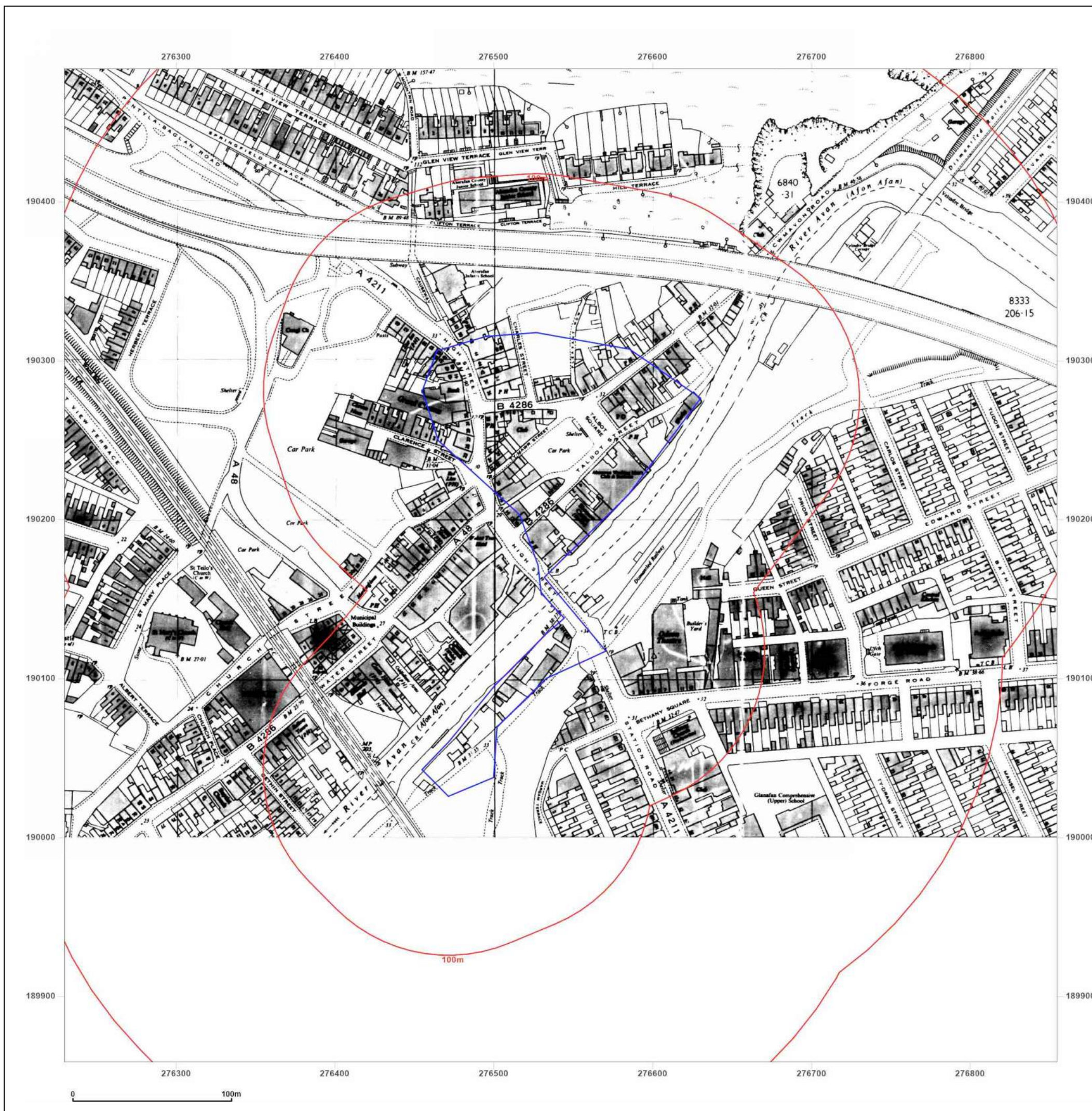


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Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1988-1991

Scale: 1:1,250

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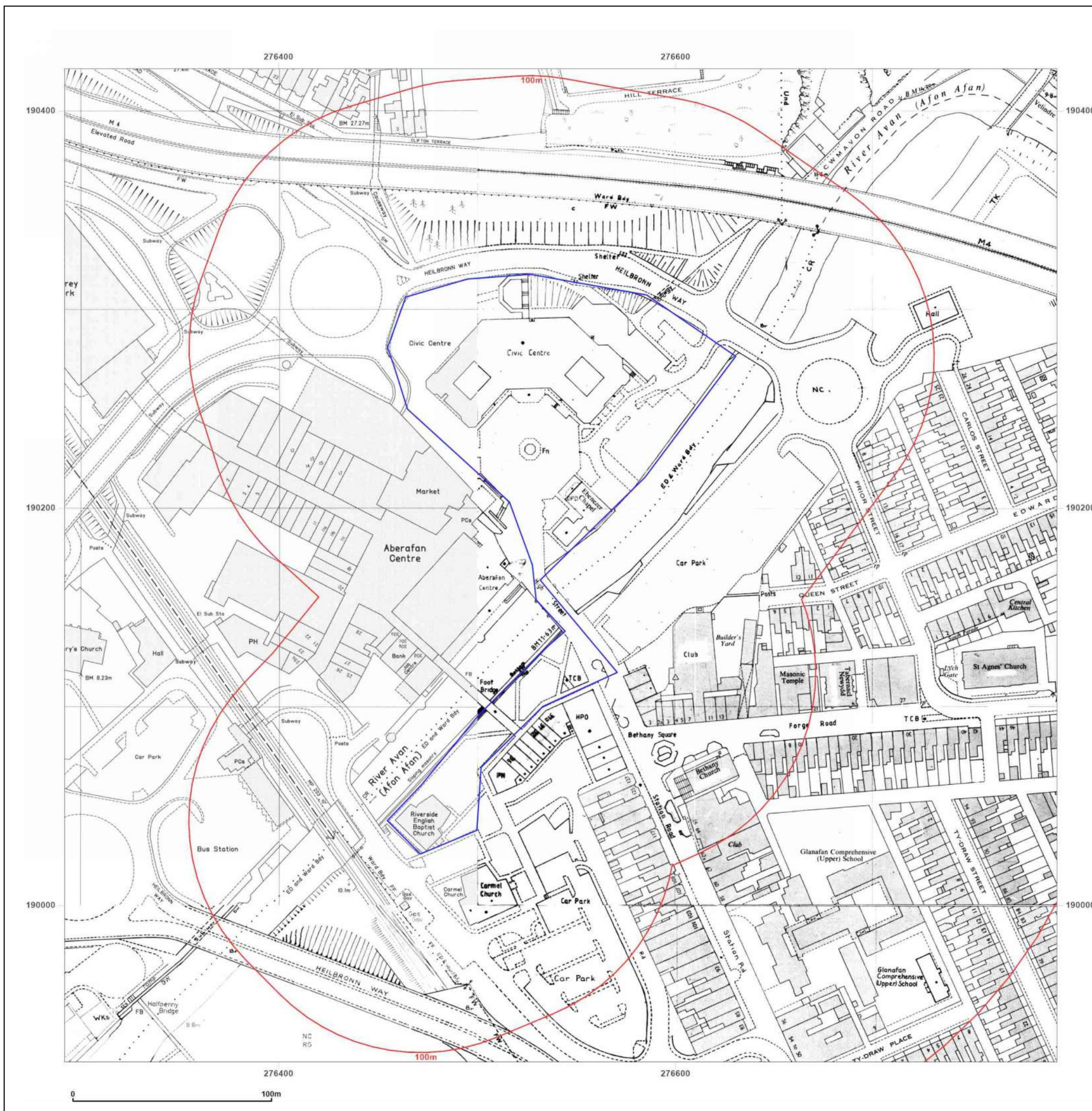


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Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1991-1993

Scale: 1:1,250

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Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

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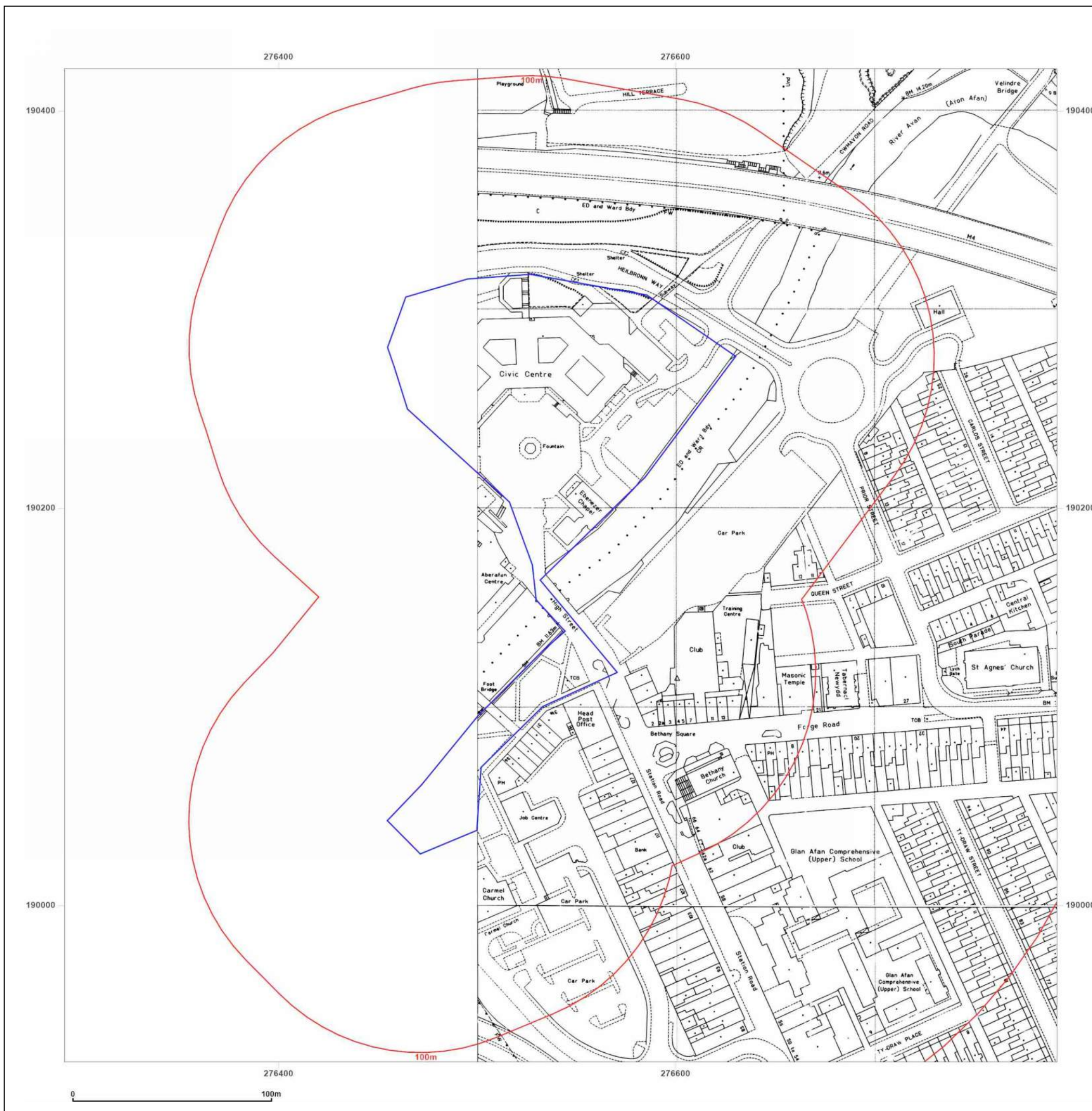


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Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1993

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Grid Ref: 276542, 190171

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Map date: 1993

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1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
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Grid Ref: 276542, 190171

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

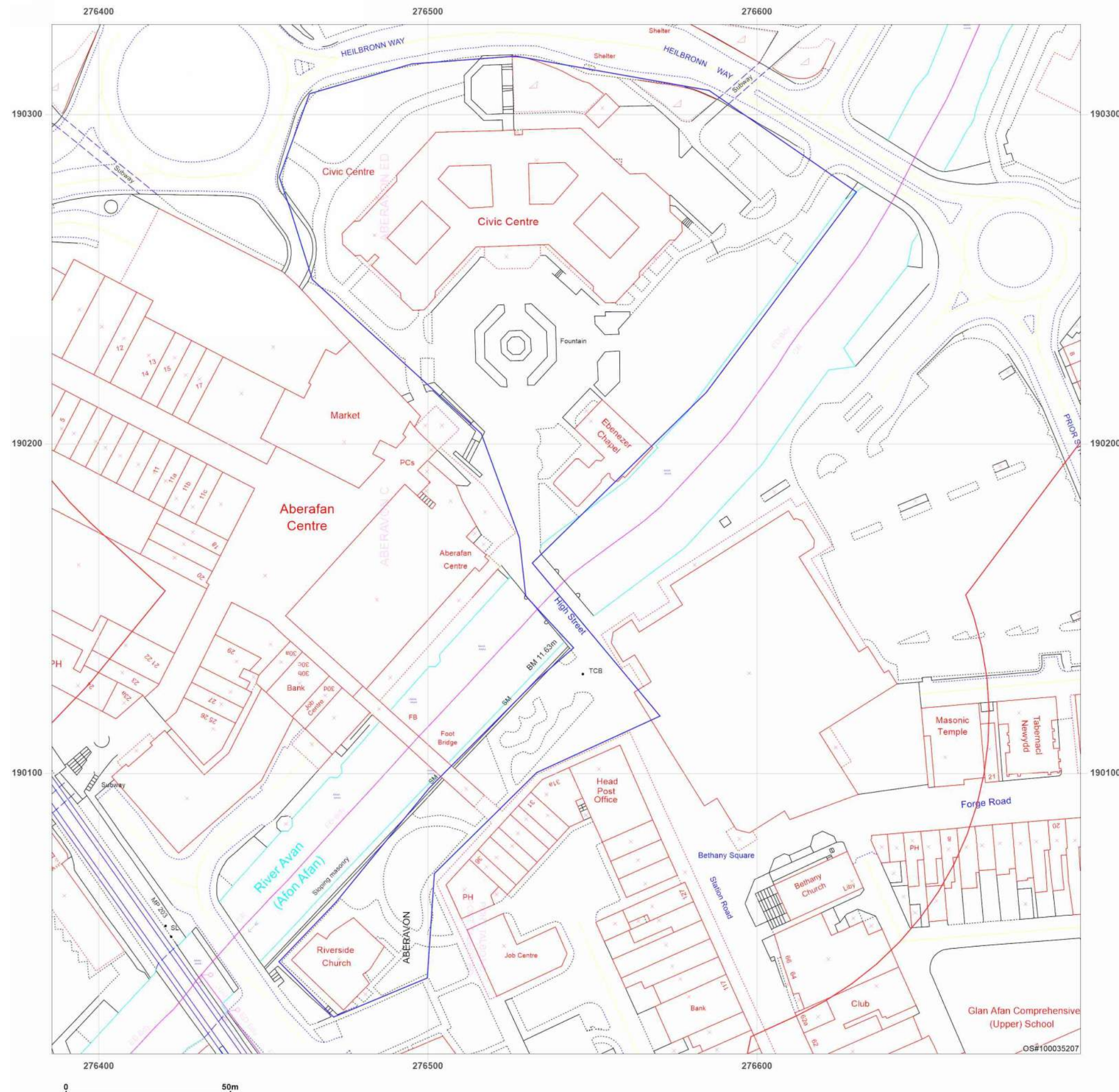


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1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1884

Scale: 1:10,560

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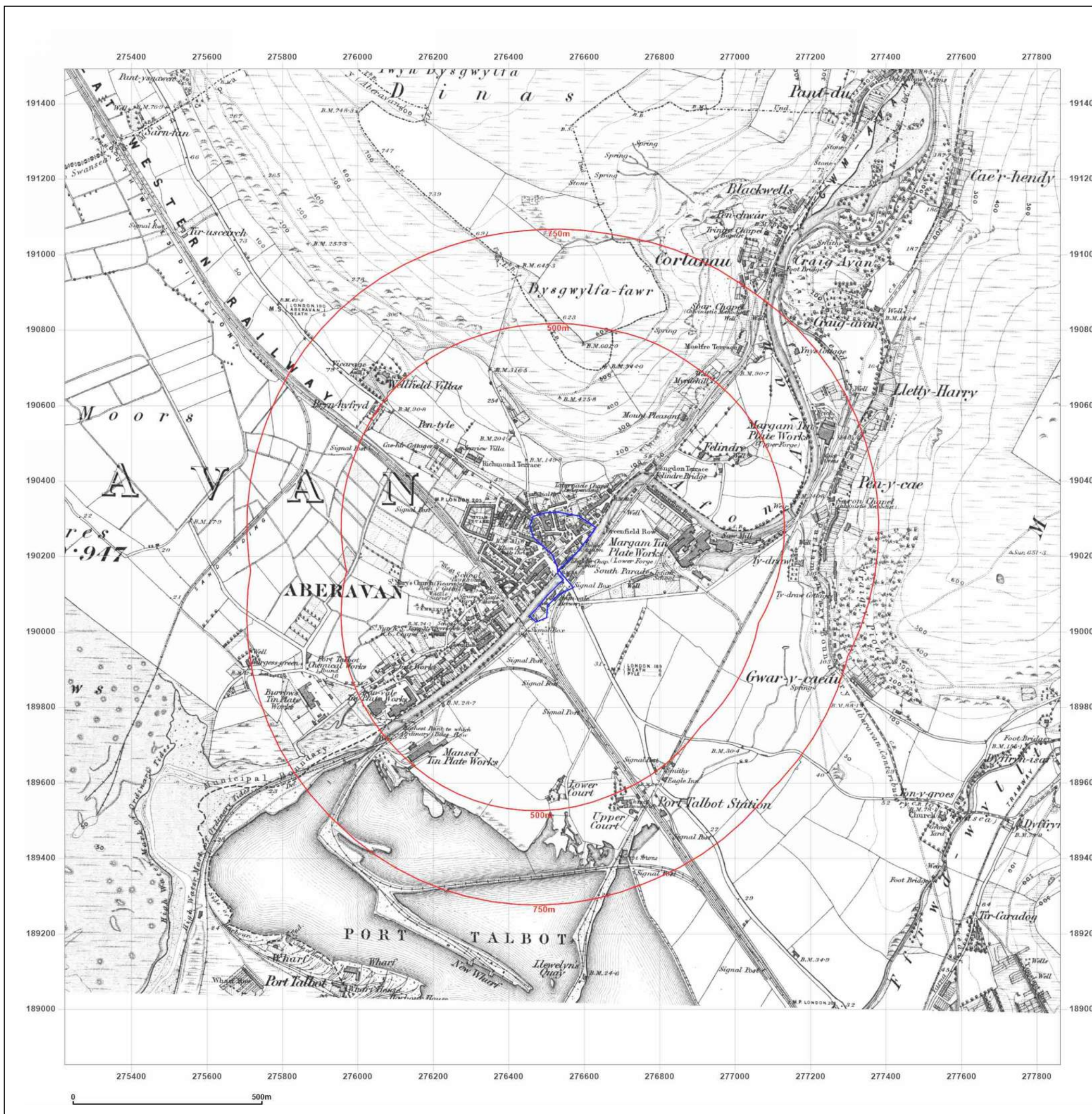


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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
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Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1897-1900

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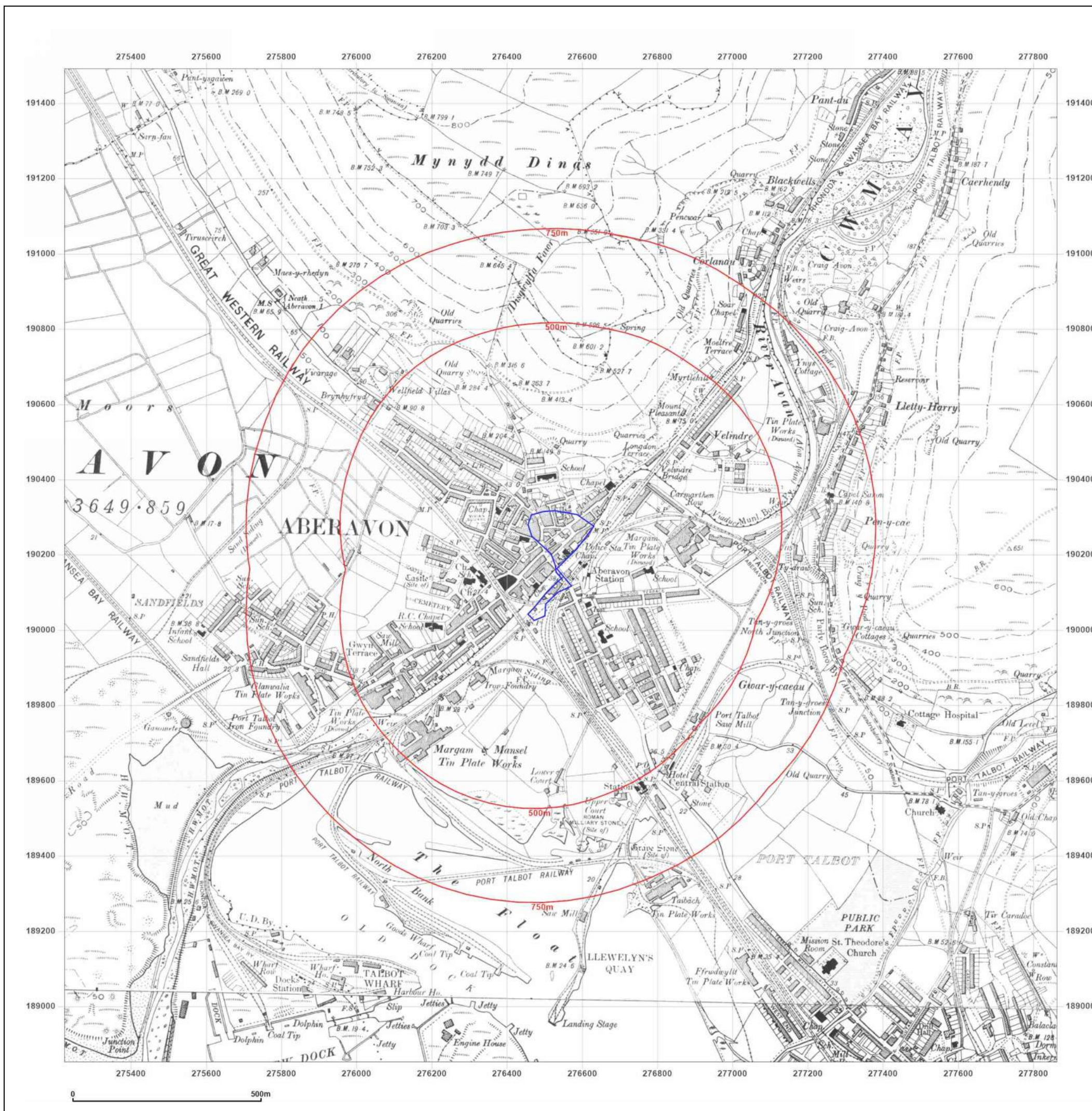


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Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



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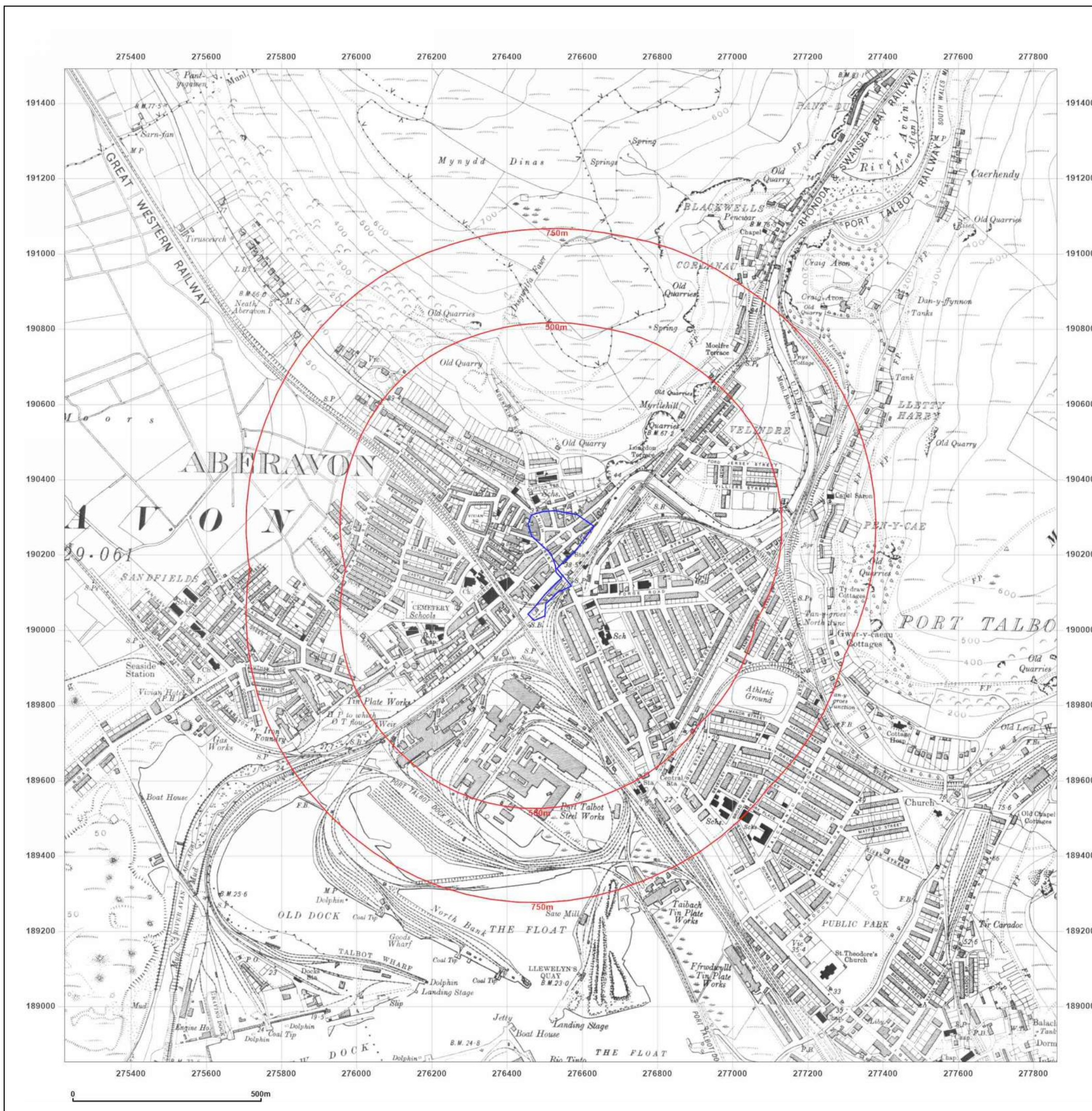


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Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



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1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1947
Edition N/A
Copyright N/A
Levelled 1934

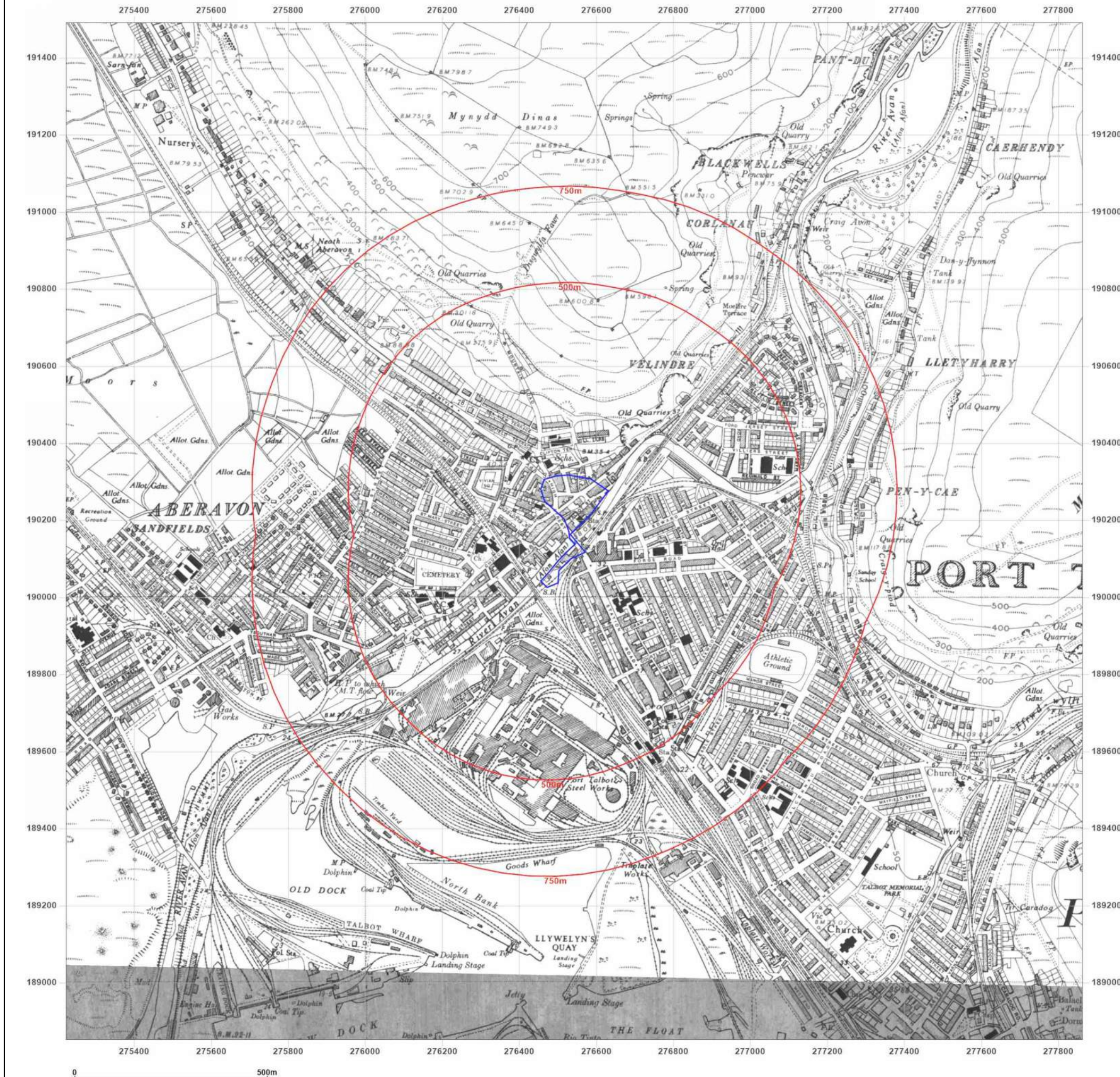


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Site Details:

PRINCESS ROYAL THEATRE,
PORT TALBOT CIVIC CENTRE,
ACCESS TO PORT TALBOT
CIVIC CENTRE, PORT TALBOT,
NEATH PORT TALBOT, SA13
1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: Provisional

Map date: 1957

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Printed at: 1:10,560



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Revised 1957
Edition N/A
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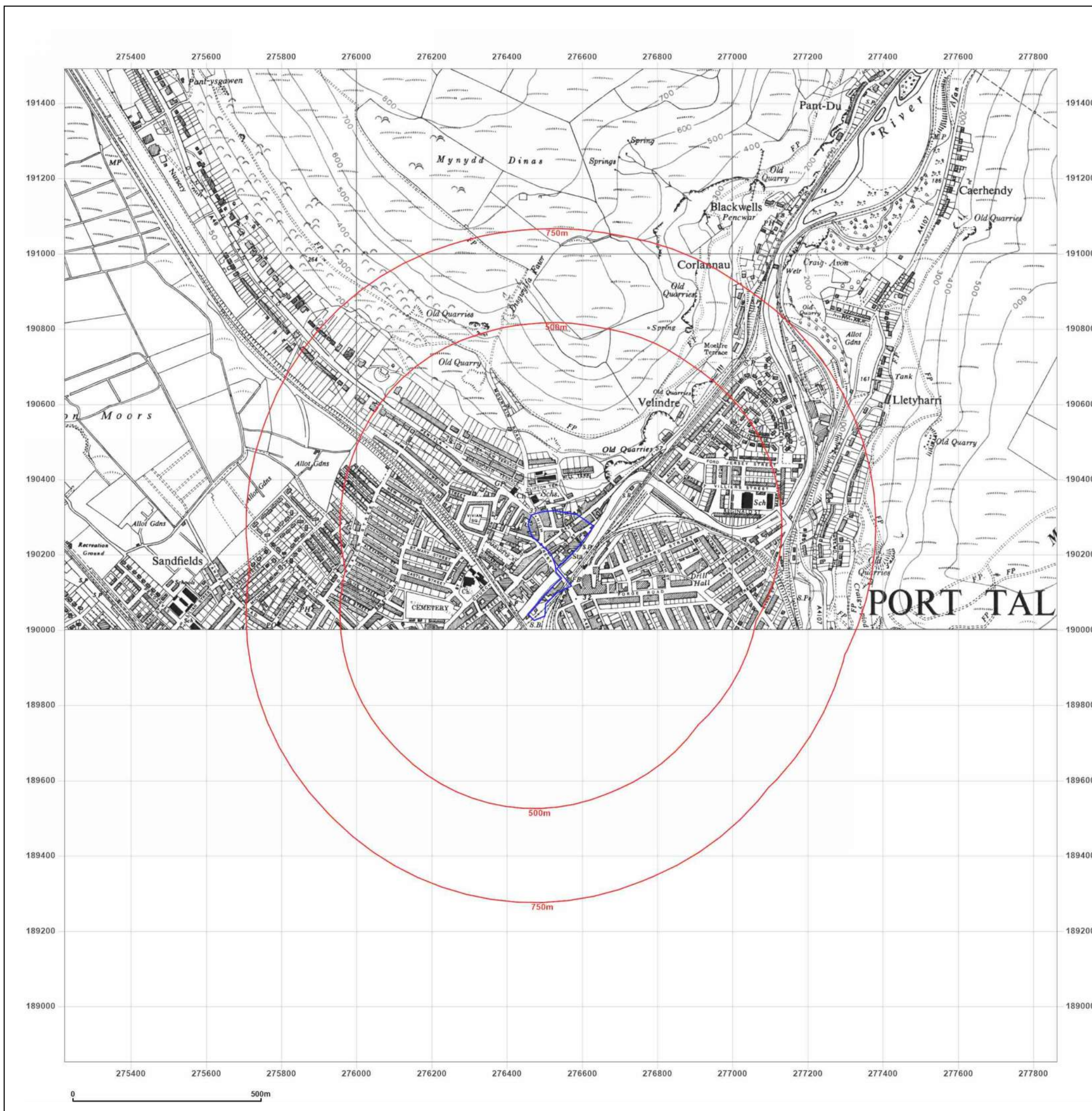


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1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: Provisional

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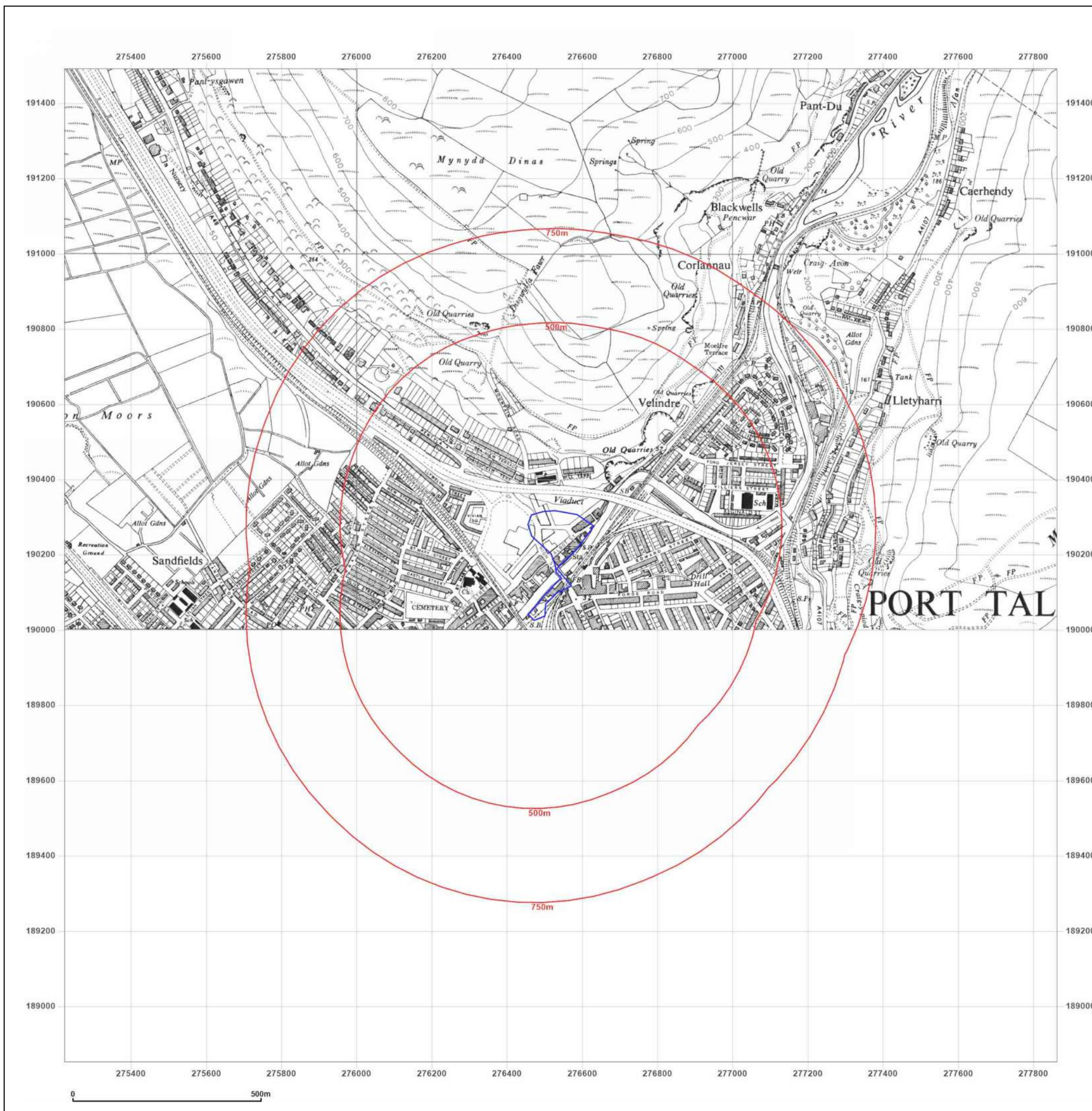


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NEATH PORT TALBOT, SA13
1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: Provisional

Map date: 1965

Scale: 1:10,560

Printed at: 1:10,560



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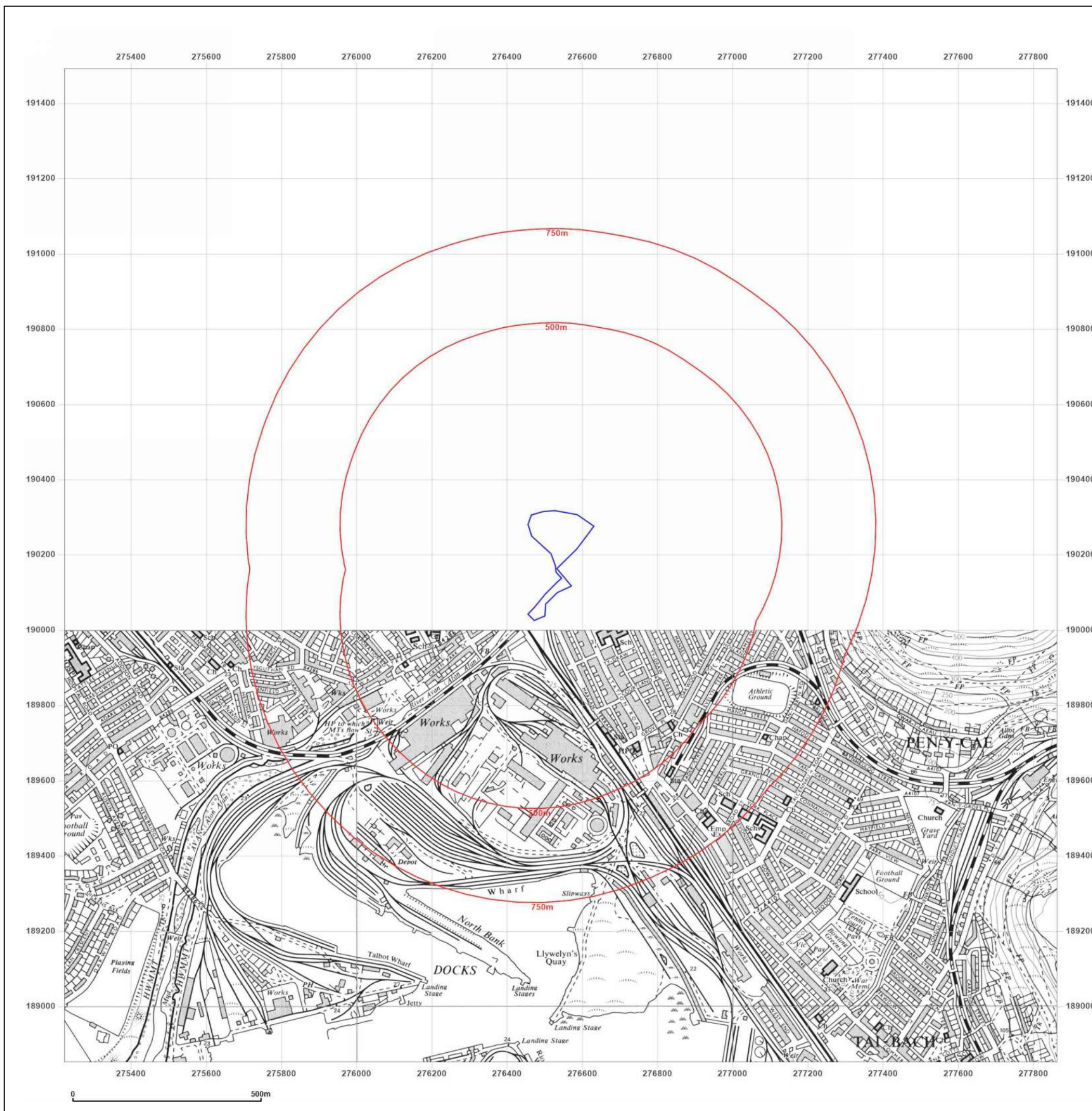


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CIVIC CENTRE, PORT TALBOT,
NEATH PORT TALBOT, SA13
1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1980-1982

Scale: 1:10,000

Printed at: 1:10,000



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Surveyed 1977
Revised 1982
Edition N/A
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Levelled 1978

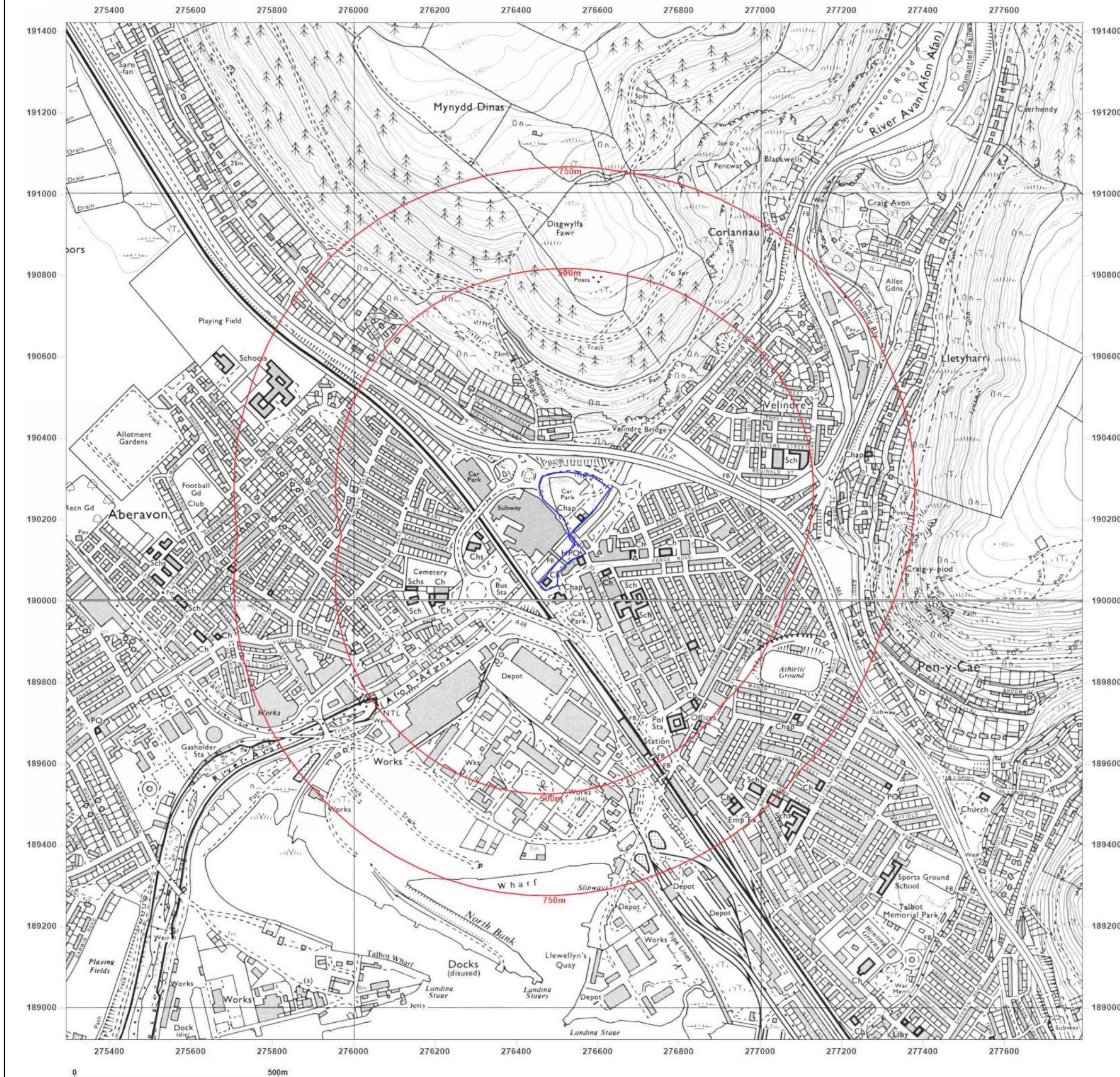


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NEATH PORT TALBOT, SA13
1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 1993-1995

Scale: 1:10,000

Printed at: 1:10,000



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Surveyed 1991
Revised 1991
Edition N/A
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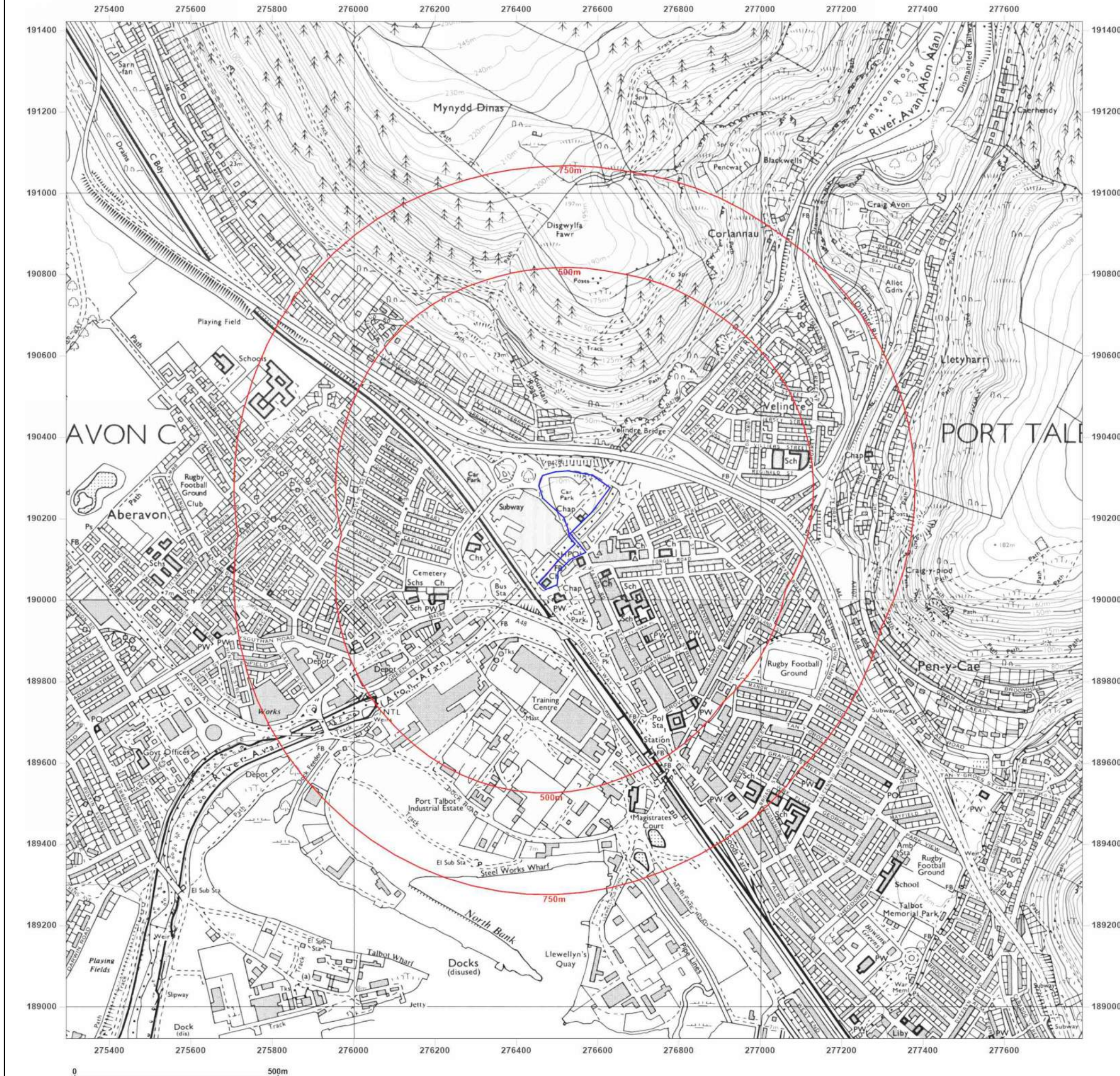


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CIVIC CENTRE, PORT TALBOT,
NEATH PORT TALBOT, SA13
1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001

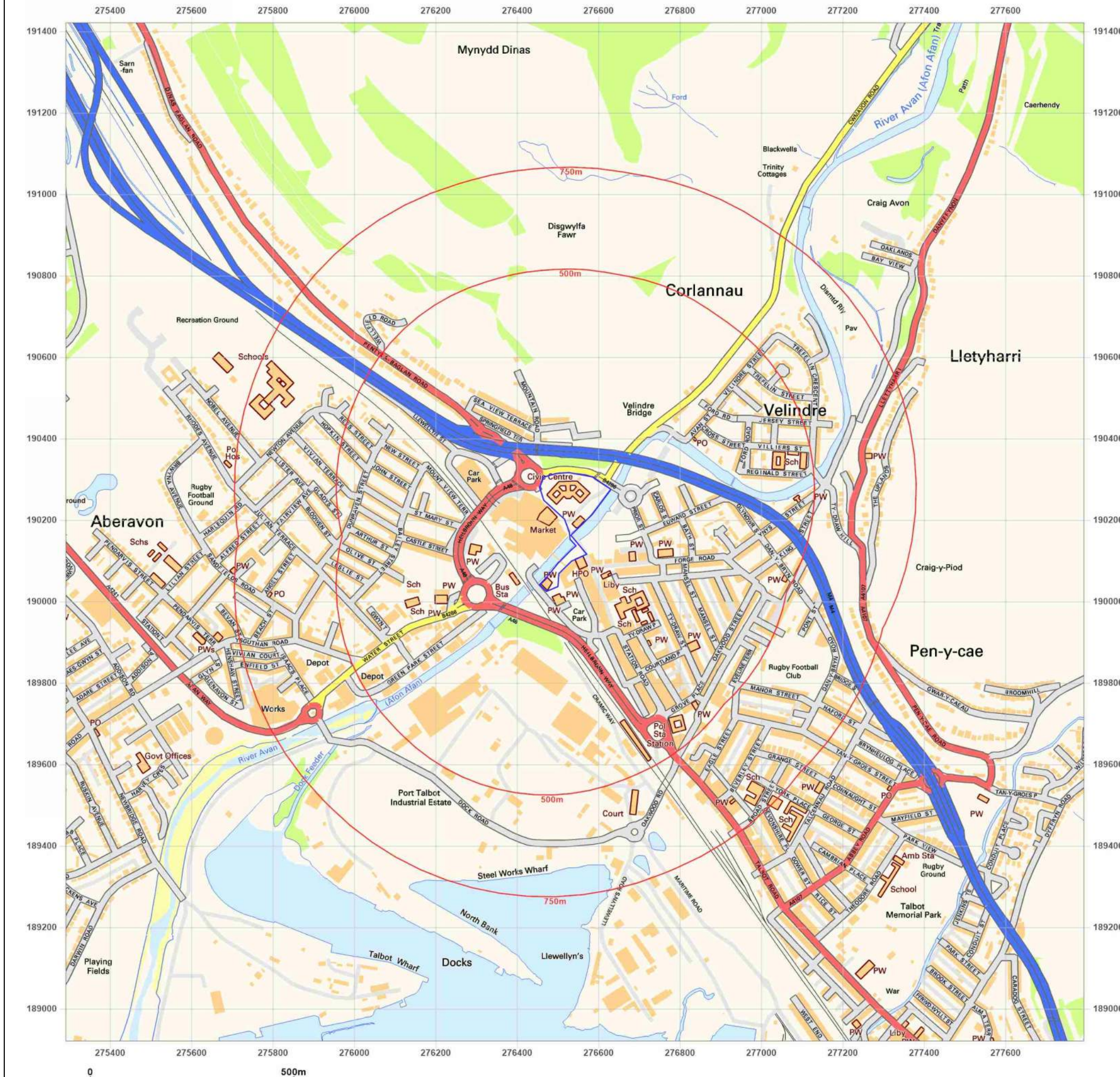


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NEATH PORT TALBOT, SA13
1PJ

Client Ref: 784-B046183 Princess Theatre (PO 7015226)
Report Ref: GS-JE3-8QW-OY3-U1H
Grid Ref: 276542, 190171

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010



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APPENDIX C: HISTORICAL BOREHOLE LOGS

NOT USED

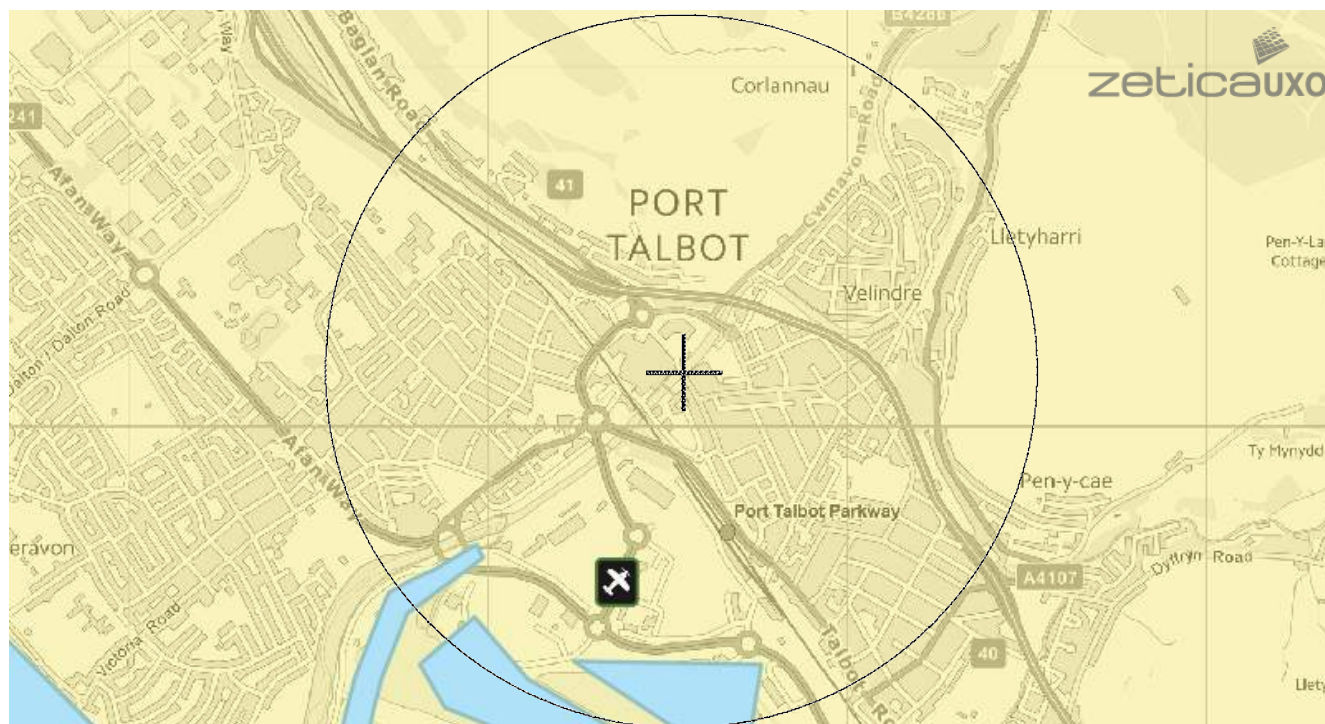
APPENDIX D: SITE SPECIFIC UXO PRE-DESK STUDY ASSESSMENT

UNEXPLODED BOMB RISK MAP



SITE LOCATION

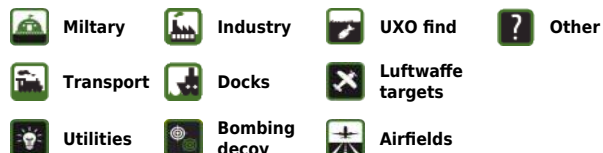
Map Centre: 276509,190158



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to pdsa@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgement. The copyright remains with Zetica Ltd.

APPENDIX E: CIRIA C552 RISK METHODOLOGY

The following tables are derived from CIRIA C552 and have been used to define the risk rating presented in the Qualitative Risk Assessment matrix.

Classification of consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short term risk of pollution (note; Water Resources Act contains no scope for considering significant pollution) of sensitive water resource. Catastrophic damage to building/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Medium	Chronic damage to human health ('significant harm', as defined In DETR, 2000). Pollution of sensitive water resources (note; Water Resources Act contains no scope for considering significant pollution). A significant change in a particular ecosystem, or an organism forming part of such an ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm', as defined In DETR, 2000). Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.

Classification of probability

Classification	Definition
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period that such an event would take place, and is even less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

Matrix of consequence against probability to gain a risk classification

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/Low Risk
	Likely	High Risk	Moderate Risk	Moderate/Low Risk	Low Risk
	Low likelihood	Moderate Risk	Moderate/Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/Low Risk	Low Risk	Very Low Risk	Very Low Risk