

**LAND AT NEATH ABBEY WHARF, SKEWEN,
NEATH, WEST GLAMORGAN, SA10 6BL**



PHASE 1 PRELIMINARY GEO-ENVIRONMENTAL RISK ASSESSMENT

Prepared by

SILKSTONE ENVIRONMENTAL LTD

For

MAX DESIGN CONSULTANCY LTD

On behalf of

MORRIS & CO LTD

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EXECUTIVE (NON-TECHNICAL) SUMMARY

Silkstone Environmental Ltd (SEL) have carried out a Phase 1 Preliminary Geo-Environmental Risk Assessment (Desk Study) on land at Neath Abbey Wharf for Max Design Consultancy Ltd (MDCL) on behalf of Morris & Co Ltd (the client). The client proposes to construct a storage facility for mixed materials in their yard immediately east of their main processing and screening facility.

This section summarises the findings of the report and makes recommendations regarding further work. It should be read in conjunction with the whole report to gain a full understanding of the conclusions reached.

Following a review of current and historic land uses on site and within the surrounding area, the Preliminary Environmental Risk Assessment has derived an overall risk rating of **Low to Moderate**. The risk mainly relates to construction workers from historic and existing potentially contaminative uses, both on site and within the immediate surrounding area and to ground instability from compressible deposits and running sand.

Phase 2 Intrusive Site Investigation

It is recommended that a Phase 2 intrusive site investigation is undertaken to assess onsite ground conditions to inform foundation design and to assess the contamination status with respect to the past land uses. The investigation should include:

- Cable percussive (shell & auger) drilling to provide ground bearing information for the proposed development (Standard Penetration Tests) and to assess the contamination status of underlying soils.
- The recovery of representative soil samples from the window sampling locations, for geotechnical testing where appropriate and contamination analysis. Soils for contamination analysis would normally be tested for a range of metal / metalloids, speciated polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPHs), solvents, phenols, polychlorinated biphenyls (PCBs), soil organic matter, soluble sulphate, sulphide, cyanides, pH and for the presence of asbestos. Any groundwater (if encountered) should also be sampled and tested for a similar range of contaminants. Any groundwater (if encountered) should also be sampled and tested for a similar range of contaminants.

The selection of cable percussive drilling over window sampling is preferred due to the greater depths that can be achieved. The thickness of made ground, through which the drilling should pass is unknown, as is the thickness of the superficial deposits above bedrock which the drilling should also determine.

As part of the site is covered in concrete of indeterminate thickness, concrete coring / breaking equipment should be included during the investigation.

Ground Gas

Whilst several potential sources of ground gas have been identified which would normally require a gas monitoring programme to be completed for new buildings, the form of the proposed storage shelter is understood to be open fronted (and therefore ventilated). As long as the form of the building remains unchanged (ie. is not converted to a fully enclosed building at a later date), gas monitoring is not considered necessary for this development.

This reasoning will also apply to basic radon protection measures which would otherwise be required for new buildings in this area.

Coal Mining Legacy Risk

The Coal Authority has identified potential for future underground coal mining beneath the site, which SEL consider a negligible risk. No other coal mining legacy issues pose a risk to surface stability. Having reviewed the coal mining legacy issues, SEL consider that the site is not at risk from legacy coal mining activities.

Natural Ground Stability Hazards

The Groundsure report indicates that the review area is at moderate risk from compressible deposits, which indicates that compressibility/uneven settlement hazards are probably present on site. The window sampling programme will help determine the degree to which these hazards present a problem to the development.

The report also identifies a moderate risk from running sand. Should this be present on site, constraints may apply to land uses involving excavation.

Flood Risk

Regulators are entitled to require a standalone flood risk assessment for a site in addition to a Phase 1 Preliminary Environmental Risk Assessment Report should they consider it necessary. Although the site is less than 1ha in area and has a low risk of flooding from rivers and the sea and low risk of surface water flooding, the site is located in an area known to have flooded in the past and is 17m from a Flood Zone 3 where there is a higher risk of flooding.

Other Factors

Should the use of plastic pipes and/or services be envisaged as part of the redevelopment works, our advice is that soil sampling requirements can vary between different service providers. For this reason prior to fully commissioning any ground investigation, it is recommended that the client agree any additional sampling requirements that may be required with each service provider.

Prior to intrusive site investigations, records of services should be obtained to accurately locate the existing services on site. Services should be protected in order to prevent damage by drilling or use of excavation equipment.

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KEY REFERENCES

- A Contaminated Land Report (CLR) 11 '*Model Procedures for the Management of Land Contamination*' published by the Environment Agency (September 2004).
- B Guiding Principles for Land Contamination, Environment Agency (March 2010).
- C Town and Country Planning Act 1990.
- D National Planning Policy Framework (July 2018).
- E Revised Statutory Guidance dated April 2012 implementing the contaminated land provisions under Part 2A of the Environmental Protection Act 1990.
- F CIRIA 665 '*Assessing Risks Posed by Hazardous Ground Gases to Buildings*' (2007).
- G BR 211 *Radon, Guidance on protective measures for new buildings (including supplementary advice for extensions, conversions and refurbishment projects)*, BRE, 2015.
- H CIRIA Report C758D, Abandoned mine workings manual, CIRIA, 2019.

1.0 INTRODUCTION

1.1 Brief

Silkstone Environmental Ltd (SEL) has prepared this report for the site at Neath Abbey Wharf following an email instruction received from the Mr Max Jones of Max Design Consultancy Ltd (MDCL) dated 28th April 2020, on behalf of their client Morris & Co Ltd. The client proposes to erect a storage shelter for mixed waste in the yard immediately east of their premises at Skewen, Neath, as shown in Figures 1 & 2, Appendix A.

The stated purpose of this work is to carry out a Phase 1 Preliminary Geo-Environmental Risk Assessment (also known as a Desk Study) for the site, to assess the potential for historic contamination at the site which may adversely impact upon human health and/or the wider environment. Geotechnical issues have also been considered and a review made of the potential for instability at the surface from former coal mining legacy operations. The report has been compiled in general accordance with Refs. A & B as a 'Preliminary Risk Assessment', as defined therein.

This preliminary assessment will highlight the potential requirements for further assessment via an intrusive investigation if considered appropriate. This has been determined based on the following:

- A description of the site showing location and layout.
- A review of the site history including previous surrounding land uses.
- Determination of the environmental setting by reference to geology, mining / quarrying, hydrology, flood risk and hydrogeology, risks associated with hazardous gases (such as radon, landfill gas, mine gas), proximity to infilled ground, permitted industrial processes and other activities such as Control of Major Accident Hazard (COMAH) and explosive sites.
- A site walkover and inspection.
- An assessment of anticipated ground conditions including potential contaminants.
- An assessment of anticipated foundation and engineering issues associated with any redevelopment.
- An inspection of historical and geological maps and information provided by the Local Planning Authority, Natural Resources Wales (NRW), British Geological Survey and the Coal Authority, as appropriate.
- A risk assessment in the context of the proposed residential development of the site based on an appraisal of the potential contamination sources, pathways and receptors in an outline conceptual site model.

Conclusions are given alongside any further recommendations. No other site investigations are known, or have been made available to SEL.

1.2 Legislative and Regulatory Context

If land proposed to be developed is suspected of being contaminated either historically or by its current use, an investigation will be requested by the Local Authority under the Town and Country Planning Act (1990) (Ref. C) and the National Planning Policy Framework (Ref. D) to determine the level of risk and if remediation is necessary or whether there may be grounds for the land to be considered contaminated under Part 2A of the Environmental Protection Act 1990 (Ref. E). Under this regime investigations are carried out to determine if the current condition of the site is suitable for its proposed use.

1.3 Guidance and Information Sources Used Within This Report

This report has been produced in line with relevant guidance and best practice and in particular references A, B, C, D, E, F, G and H. This list includes all of the cited references. It is not exhaustive and comprises only the principal references used in conducting this risk assessment.

1.4 Report Limitations

The conclusions reached in this report are necessarily restricted to those which can be determined from available information and may be subject to amendment in the light of additional information becoming available or to changes in relevant legislation.

This report is strictly confidential to the party to whom it is addressed and may only be relied upon by that party or their other professional advisors, for the specific purpose to which it refers. Any third party using this report does so entirely at their own risk and SEL accepts no responsibility or liability for any costs, claims, damages or expenses (including consequential damages) as a result of this report or any part of its contents being used by any third party.

Except in connection with the specific purpose for which this report has been prepared, neither the whole nor any part of this report, nor any reference thereto, may be included in any published document, circular or statement, nor published in any way, nor disclosed orally to a third party, without the written approval from SEL of the form and context of such publication or disclosure. Such approval is required whether or not SEL are referred to by name and whether or not the report is combined with others.

SEL are unaware of any conflicts of interest in the preparation of this report.

2.0 ENVIRONMENTAL SETTING

2.1 Site Location

The area under consideration is located at Neath Abbey Wharf, approximately 2.5km south west of Neath and 7.5km north east of Swansea, West Glamorgan, as shown on the location plan presented as Figure 1 in Appendix A. The site boundary is also shown on the current and proposed layout plans presented in Figure 2 of Appendix A.

The National Grid Reference (NGR) for the centre of the review area is 272770, 195870. The site is approximately 0.36ha in area and situated at an approximate height of 12 to 13m Above Ordnance Datum (AOD).

2.2 Historical Land Use

Information relating to the historical uses of the site and surrounding area has been determined from a review of the following:

- The large scale (1:1250 and 1:2500) and small scale (1:10,560 and 1:10,000) historical Ordnance Survey maps dating from 1877 to 2020 (Appendix B); and
- A Groundsure environmental data report for the site (Appendix C).

It is important to note that any date referred to in this section refers to the date a feature appears on the map, not necessarily the date the actual feature was first present. Additionally, the marked site boundary may appear to move with respect to successive editions. This is predominantly due to minor variations in the Ordnance Survey (OS) with time.

OS maps record an area of intense industrial activity in the late nineteenth and early-mid twentieth century, which declined in the mid twentieth century and reutilised by industry in the late twentieth century. A summary of the historical mapping is provided in Table 1 and described below.

Within the Site

Earliest mapping (1877) shows rail / tram lines crossing the eastern part of the site located close to or forming part of the wharf for the loading and unloading of materials, presumably coal from local collieries and other goods/materials. The western perimeter of the site is described as salt marsh. By the end of the nineteenth century (1899) a limekiln had been built at the south end of the site and earthworks covered the entire western part of the site. The limekiln had been demolished by 1914. By 1918 the wharf had become disused with a single rail siding remaining on the western part of the site for wharves located to the north and a footpath occupying one of the disused rail lines extending along the eastern part of the site. No other activities are shown on site between 1918 and 1940, and by 1948 the entire site had become disused.

Construction of an industrial estate began in the 1980s / early 90s which included a depot to the immediate west of the review area and scrapyard to the north by 1993. The industrial estate also enclosed the study area which remained undeveloped at this time, but which may have formed part of the area occupied by the depot.

Table 1: Historic Land Uses of the Site and Surrounding Area

Date	Scale	On Site	Surrounding Area
1877	1:10,560	Rail lines running from wharf across E side of site. Salt marsh W perimeter.	Salt marsh immediately (W&S of site). Mooring on the River Neath, serviced by railway lines to load/unload materials (immediately E & 100-500m N). Limekiln (249m NNW & 280m SSW). Coal pits (285m SW & 600m W) with tramway. Crown copper and zinc works (445-750m N/NE). Swansea & Neath valley and Swansea & Rhondda railway lines (W).
1881	1:2,500	No significant change.	No significant change.
1884	1:10,560		
1899	1:2,500	Limekiln S end of site. Earthworks across all of site.	Old gravel pits (20m NW). Cardonnel tin plate works (210m W/SW).
1900	1:10,560	No significant change.	Quarry (483m NW). Cwert-y- bettws colliery (473m W). Briton Ferry chemical works (645m SW).
1914	1:10,560	Limekiln demolished.	No significant change.
1918	1:2,500	Wharf no longer present. Site used as a railway siding.	Marshy ground (25m W). Refuse / spoil heap (adj. NW).
1921	1:10,560	No significant change.	No significant change.
1938	1:10,560		Briton Ferry chemical works closed.
1940	1:2,500		No significant change.
1948	1:10,560	Site disused, no railway line.	Cwert-y- bettws colliery closed. Tramway disused.
1964	1:10,560	No significant change.	No significant change.
1967	1:10,560		Construction of M4 motorway (480m SW).
1970	1:2,500		Marshy ground (125m S). Tin plate works no longer shown.
1971	1:2,500		No significant change.
1978	1:2,500		
1980	1:10,000		Start of construction of Neath Abbey Wharf industrial estate (including depot 73m NW). Extension of new road network (500m NW).
1992	1:10,000	Depot including site enclosed.	No significant change.
1993	1:2,500		Extension of Neath Abbey Wharf industrial estate to the south (depot immediately W).
1995	1:2,500	No significant change.	Earthworks (bund) along outside of S & E boundaries.
1999	Googleearth	Yard area.	Scrap yard (adj. N).
2001	1:10,000	No significant change.	No significant change.
2002	Googleearth	Material stockpiles S & E.	
2003	1:1,250	Two structures north end of site.	
2006	Googleearth	Removal of 2 small structures. Site includes several large skips & crane.	
2009	Googleearth	Material stockpiles NW & SE.	
2010	1:10,000	No significant change.	
2016	Googleearth	Parts of yard overgrown with vegetation.	
2018	Googleearth	Vegetation cleared showing hardstanding with some material stockpiles.	
2020	1:10,000	No significant change.	

Historical imagery shows that the study area comprised hardstanding associated with the depot building in 1999 and included some large skips and intermittent stockpiles of materials subsequently.

In the Surrounding Area

Original maps (1877) show the immediate vicinity to be salt marsh (south and west perimeter) adjacent to the River Neath (approximately 35m east). Industrial activity had already been established adjacent to the site, comprising railway lines to transport materials to/from moorings on the river bank east and north of the study area. The moorings north of the site were formally called Neath Abbey Wharf on the 1900 map and continued to be very active throughout much of the early-mid twentieth century, but were mainly not in use after 1940, although some use continues to the present day.

Limekilns are shown on the 1877 map 249m to the north northwest and 280m to the south southwest. By 1899 lime working was present immediately south of the site, but was no longer active by 1914.

Coal mining was active locally in the late nineteenth century, pits being present on the earliest plans 285m to the south west and 600m to the west. Cwert-y-Bettws colliery 473m west of the site, had become established by 1900 and remained operational until 1948. Other mineral extractive activities are shown on late nineteenth century maps, notably old gravel pits immediately west of the site (1899) and a quarry 483m to the north west (1900).

Other industrial activities described in the locality notably Crown (Emu) copper and zinc works (445-750m N/NW, 1877-1948), Cardonnel tin plate works (210m W/SW, 1899-1980) and Briton Ferry chemical works (645m SW, 1900-1938). Land north of the site had become disused by 1948 and was redeveloped as the Neath Abbey Wharf industrial estate in the 1980s, still being active to the present day.

2.3 Site Description

The review area was visited on Friday 1st May 2020, in dry weather conditions by a SEL representative and a site walkover carried out. A site layout plan and photographic record of the review area is presented in Appendix D. The site is 0.36ha in area, approximately 60m x 90m in dimension and located at the south end of Neath Abbey Wharf industrial estate, immediately east of the client's main building. The site is bounded to the east and south by a vegetated bund and to the north by Sims Metal Management facility. Topography is flat, dipping very gently from a high point of approximately 13m in the north west to a low of 12m in the south east, where surface water run-off collects.

The site is accessed at its north west corner, via a weighbridge area situated adjacent to the north wall of the main facility. The margins of the study area comprise concrete hardstand, with a central area covered in asphalt, which SEL understand will be concreted as part of the development proposals. These surfaces were partially covered with a thin mud slurry, especially in areas where vehicular movements and screening activities were taking place.

Morris & Co Ltd's main facility is located on the western perimeter and is a metal framed, corrugated metal shed approximately 15-18m high, which extends along most of the western boundary of the review area. Metal products, notably used household tin cans are sorted, crushed, encased in metallic mesh bales and stockpiled both within the building and outside in the yard, prior to being transported off site. Access into the main facility was declined due to health and safety reasons.

Incinerated scrap metal, ash and aggregates are processed at a screening facility in the centre/south part of the review area and stockpiled adjacent to it, prior to the product and discard being transported off site. There were 3 main stockpiles at the time of the visit. SEL understand that no incineration occurs on site. The client buys in material and screens it prior to transportation off site.

The northern boundary is mainly laid out for site management with an office and car parking area, although a general storage area is present behind the site office, consisting of disused metal fencing, tiles and other metal products. The eastern boundary appears to be a storage area for redundant scrap metal comprising a small number of disused (parked) cars, skips and a deposit area for miscellaneous unused metal items. The south east corner is the low point of the site where two small ponds are located, which collect surface water run-off.

An area on the southern boundary is used to store containers of a chemical agent, 'Ad blue'. This is used as a diesel engine additive containing a solution of urea in water, which treats exhaust gases and removes pollutants including nitrogen oxides (NO_x), especially nitrogen dioxide (NO₂). Nine containers were present, each containing 1000 litres of the chemical.

The works immediately north of the study area, owned by Simms Metal Management Ltd, is a scrapyards, dock and non-ferrous metal facility, which was closed at the time of the site walkover due to coronavirus restrictions. Of note was a red diesel supply point located adjacent to the northern site boundary.

No odours (other than some diesel vapours from the adjoining fuel point), vegetation dieback, unidentified discoloured ground, or the seepage of ochrous or discoloured liquid were noted. No asbestos was in evidence either on site or on the outer building of the main facility. No overhead services were present.

2.4 Geology

An assessment of the artificial ground, superficial and solid (bedrock) geology relating to the site and past mining has been gained from various sources and is summarised in Table 2 (next page).

According to the Soilscape on line viewer from the Cranfield Soil and AgriFood Institute, supported by DEFRA¹, the natural soils within the site are loamy and clayey floodplain soils with naturally high groundwater (Soilscape 20). However, it should be noted that the past industrial history of the site would indicate natural soils are unlikely to be present in substantial amounts.

The site is covered in artificial ground described as made ground (undivided) and worked ground (undivided, void).

The British Geological Survey (BGS) records Tidal Flat superficial deposits on site, comprising clays, silts and sand. No landslip deposits are recorded within 500m of the review area.

The site is underlain by bedrock of the Upper Carboniferous (Westphalian D) age, which dip at 4° to the north west and lie stratigraphically below the Hughes coal seam, which is outcropped 107m to the north. The majority of the bedrock on site is expected to consist of a thick sandstone (the Brithdir Member). Groundsure records no geological faults, folds or other linear features within 100m of the site, the nearest fault being 168m to the east.

¹ <http://www.landis.org.uk/soilscape/>

Table 2: Geological Summary

Maps / Publications Referenced	British Geological Survey (BGS) 1:50,000 sheet 247 (Swansea), Bedrock and Superficial, dated 2011. BGS Geology of Britain Viewer, BGS lexicon of named rock units and BGS Onshore Geoindex webpages. Groundsure Enviro & Geo Insight Report GS-6750290. Coal Authority CON29M Mining Report No.51002283665001. Coal Authority Interactive Viewer website.
Artificial Ground	Entire site comprised of made ground and worked ground (void).
Superficial Deposits & Landslips	Tidal Flat Deposits on site (clay, silt & sand). No landslip deposits recorded within 500m of site.
Solid Geology (Bedrock)	Upper Carboniferous rocks of Westphalian D age which lie stratigraphically below the Hughes coal seam. Mainly comprises a thick sandstone.
Dip of Solid Strata	4 degrees to NW (recorded in nearby mine workings).
Faults	Nearest geological fault 168m E of site.
Coal Seams / Mining / Natural Cavities	Site not within Coal Authority <i>Development High Risk Area</i> (Figure 3, Appendix A). No recorded shafts/adits on site (Figure 4). No recorded/unrecorded shallow old workings (Figure 5). No surface (opencast) mining of coal. <i>No coal mining legacy issues on the site.</i> Coal Authority Coal Mining Report presented in Appendix E. No non coal underground mining activities within 1km. No natural cavities or mining cavities recorded within 1km. 61 records of surface ground workings within 250m, including 3 on site (unspecified ground workings, wharf) and 24 records within 100m (unspecified ground workings, old gravel pits & refuse heaps). Nearest underground mining 285m distant. No historic boreholes located within 250m of the site.

Foundation strata are reported as having a fracture type permeability, with low to high flow values.

Coal mining legacy issues are described in detail in section 2.6 of this report.

2.5 Background Soil Contamination

The Groundsure environmental report records estimated background soil chemistry with particular reference to concentrations of arsenic, cadmium, copper, nickel and lead, against which SEL have compared levels of concern for human health currently applicable in the UK where commercial / industrial use is considered:

	Estimated On Site	Max (Commercial Use) ²
Arsenic (As)	46-67 mg/kg	640 mg/kg
Cadmium (Cd)	1.7-2.1 mg/kg	190 mg/kg
Chromium (Cr)	81-96 mg/kg	8,600 mg/kg
Nickel (Ni)	57-65 mg/kg	980 mg/kg
Lead (Pb)	344-409 mg/kg	2,330 mg/kg

² From LQM/CIEH Suitable for Use Levels 2015 and DEFRA Category 4 Screening Levels 2014

The above suggests that natural background levels of metals in the area do not appear to be elevated above the threshold value for human health concern for the use proposed. It should however be noted that these are estimated background levels for the area and should not be relied upon as reflecting the actual chemical status of soils on site, which can only be determined by the sampling and chemical analysis of soil samples taken from the site.

2.6 Mining, Coal Mining Legacy Risk and Ground Stability

As the site lies within a Coal Mining Reporting Area, a CON29M Coal Mining Report (CMR) was obtained for the site, a copy of which is provided in Appendix E. The following comments are made regarding mining legacy issues:

- The site does not lie within a Coal Authority designated *Development High Risk Area*.
- The property is “*not within a surface area that could be affected by any past recorded underground coal mining.*”
- There are “*no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.*”
- There are reserves of coal “*which could be worked at some time in the future*”.
- The site has not been subject to past opencast coal mining.

The Coal Authority identifies no risk relating to coal mining subsidence, mine gases or other issues related to past coal mining.

The following table summarises the potential risk associated with coal mining legacy issues for the site and has been compiled based on The Coal Authority document entitled ‘*Risk based approach to development management - Guidance for Developers*’ (Version 4, 2017).

Table 3: Summary of Potential Risks Associated with Coal Mining

Coal Mining Issue	Coal Mining Risk		Risk Assessment
	Yes	No	
Past recorded underground coal mining at greater than 30m deep		✓	Not in an area that could be affected by past underground coal workings
Past shallow recorded underground coal mining (<30m deep)		✓	Not in an area that could be affected by past underground coal workings
Past shallow unrecorded underground coal mining (<30m deep)		✓	
Present underground coal mining		✓	
Future underground coal mining		✓	Although The Coal Authority identifies the potential for future underground coal mining, under current economic, environmental and planning constraints SEL consider this a negligible risk.
Recorded mine entries (shafts/adits)		✓	
Unrecorded mine entries (shafts/adits)		✓	
Coal mining geology (fissures)		✓	
Past opencast (surface) coal mining		✓	
Present/future opencast coal mining		✓	
Coal mining subsidence		✓	
Withdrawal of support		✓	
Record of past mine gas emissions		✓	
Recorded surface hazards related to coal mining		✓	

With respect to the future extraction of coal, based on current economic, planning and governmental factors that affect coal mining in the UK, SEL consider the risk of future coal being extracted beneath the site is negligible.

Having reviewed the coal mining legacy issues, SEL consider the *site is not at risk from legacy coal mining activities*.

Regarding non-coal mining, the site is not located within 1km of an area where non coal mining activities have occurred. Additionally, there are no natural or mining cavities recorded within 1km of the site.

With respect to surface ground workings identified from historical mapping, there are 61 records within 250m of the study area, of which 5 records are on site (unspecified ground workings and unspecified wharf) and 24 are within 100m (unspecified ground workings, old gravel pits, refuse heaps and unspecified heaps).

Nearest underground workings to the site are 285m distant.

With regard to natural ground stability hazards, the Groundsure environmental data report refers to six BGS defined natural ground stability hazard datasets which provide a hazard rating for ground subsidence arising from natural ground conditions. These are detailed below:

Table 4: Natural Ground Stability Hazards

Ground Condition	Hazard Potential
Shrink-Swell Clays	Very Low
Landslides	Very Low to Low
Ground Dissolution of Soluble Rocks	Negligible
Compressible Deposits	Moderate
Collapsible Deposits	Negligible
Running Sand	Moderate

The review area is at moderate risk from compressible deposits, which indicates that compressibility and uneven settlement hazards are probably present on site. Developments should consider specifically the compressibility and variability of ground deposits on site. Moderate running sand risk indicates that constraints may apply to land uses involving excavation.

With respect to past/present railway activity, the site does not lie within 250m of any tunnel, or historic tunnel, underground railway, or near Crossrail 1/2 or HS2 sites.

2.7 Historical Borehole Data

There are no borehole records within 250m of the site.

Table 5: Borehole Records

Borehole Record		
Rock Description	Thickness (m)	Depth to Top (m)
No boreholes within 250m of the site.		

2.8 Hydrogeology

Superficial deposits present on site are designated as a Secondary Undifferentiated Aquifer. In general these layers have previously been designated as both minor and non-aquifers due to the variable characteristics of the rock type, but are not considered significant.

On site bedrock geology has been designated a Secondary (A) Aquifer. Formerly known as minor aquifers, Secondary (A) aquifers are defined as containing layers that are capable of supporting water supplies at a local, rather than strategic scale, and in some cases may form an important source of base flows to rivers.

The Environment Agency/NRW on-line Catchment Data Explorer map shows the site to be located in the Swansea Carboniferous Coal Measures groundwater management area, where the overall quality of bedrock groundwater for 2016 was classified as 'poor'.

With respect to groundwater vulnerability, the superficial deposit aquifer is described as having a high vulnerability with a high recharge potential. The bedrock aquifer is described as having a high vulnerability (well-connected fractures).

The site is not located within 500m of a Groundwater Source Protection Zone (potable water or confined aquifer) which are zones designated in England and Wales by the Environment Agency/Natural Resources Wales (EA/NRW) as major groundwater sources (from wells, boreholes and springs) used for drinking water supply.

There are no licensed groundwater abstractions (including potable abstractions) recorded by NRW within 2km of the site.

Based on the information provided above, groundwater is not considered a highly sensitive receptor at this location.

2.9 Hydrology

The Groundsure Water Network (OS MasterMap) records a watercourse 81m to the east (down dip), the River Neath, which is a tidal river greater than 5m wide. Other watercourses within 240m of the review area include 7 un-named watercourses (132m S, 173m SE, 175m E, 176m SW, 180m E, 189m S, & 222m NW) and the Tennant Canal (145m W).

The EA/NRW on-line Catchment Data Explorer map shows the site to be located within the Neath operational coastal catchment area, from the Tawe to the Cadoxton, which has an overall Ecological and Chemical Cycle 2 category of 'Moderate' (ecological moderate, chemical good, 2016).

There are 4 EA licenced surface water abstractions within 2km of the site, the nearest being 1.57m to the west, a licence for non-evaporative cooling.

There are 3 licenced discharge consents relating to surface waters licensed by NRW within 500m of the site, including 2 sewage discharges into the River Neath (35m W & 437m N) and a trade discharge into the River Neath (204m N). With respect to the nearest discharge consent, this was a consent for treated sewage effluent held by SIMS Group which was revoked in 2007.

There are 25 EA/NIRS Lists 1 & 2 Pollution Incidents within 500m of the site, including 11 incidents within 240m, notably 4 smoke related incidents (11-23m W, all no impact), 4 noise incidents (110-128m N, all minor/no impact), 1 oil related incident (159m N, no impact) and 2 noise incidents (177m N, no impact).

It is considered that the site is located in a sensitive area in terms of surface water resources.

2.10 Flood Risk

Rivers and the Sea

The NRW Development Advice Map showing apparent flood zones within the area, is attached as Appendix F. This shows the site to be located within a Zone B area (Areas known to have flooded in the past') with a Zone C2 area (Areas without significant flood defence infrastructure') located within 50m to the east.

Comparison of the above map with the flood maps provided in the Groundsure environmental data report (Appendix C) suggest that Zone B corresponds to a flood Zone 1 where the highest risk of flooding would be low and Zone C corresponds to a flood Zone 3 located 17m to the east. Zone 3 is where there is a 1 in 100 (1%) or greater chance of flooding each year from rivers and a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

The Groundsure report records no historic flood events (but also see top paragraph), no flood defences, areas benefitting from flood defences and no areas benefitting from flood storage within 250m of the site.

Surface Water (Pluvial)

The web based NRW Surface Water Flood Risk Map does not identify any area within the site at risk from surface water flooding. A small localised low risk area is identified adjoining the western site boundary, where there is a chance of flooding each year of between 1 in 1000 (0.1%) and 1 in 100 (1%).

Groundwater

With respect to groundwater flooding, that is the potential for the water table to rise to above ground level or within underground structures such as basements or cellars, the Groundsure report identifies the site is in an area where the highest risk of flooding is moderate. Concrete foundations (as planned) will inhibit the percolate of groundwater to the surface.

Reservoirs

The web based NRW Reservoir Flood Risk Map shows that the site is not located in an area of risk should a reservoir fail and release the water it holds.

Flood Risk Assessment

Regulators are entitled to require a standalone flood risk assessment for a site in addition to the Phase 1 Preliminary Assessment Report should they consider it necessary.

2.11 Landfills and Licenced Waste Management Facilities

The influencing distance of a gassing landfill is dependent on a number of variables, including the type of waste, geology, hydrogeology, site engineering etc. Therefore, owing to the specific nature of each of these factors, it is not possible to guarantee that a site is not within the influencing distance of a known landfill site. However, it is normal practice to consider a 250 metre consultation zone around the property.

The Groundsure environmental data report (Appendix C) shows that there are two records relating to one active/recent landfill site within 250m of the review area (see Table 6). A review of the Groundsure data report indicates there are no non-operational or historic landfills, nor records of landfills identified from mapping within a 250m radius of the site.

Table 6: Landfill Sites

Site Name, Address & Operator	Location	Accepted Waste Types	First Input Date	Last Input Date
Neath/Port Talbot Waste Management Co.	115m E ¹	Special Waste		Active/ Recent
Neath/Port Talbot Waste Management Co.	118m E ¹	Household, Commercial & Industrial (A4)		Active/ Recent

1. Both locations beyond the River Neath.

With respect to licenced and other waste sites, the review has identified 12 records of historic waste sites from planning records relating to 4 locations within 250m, which include the following:

- Northern boundary – Scrapyard (3 records);
- 87m N – Scrapyard (2 records);
- 92m N – Waste Transfer Station – (6 records); and
- 160m N – Scrapyard.

With regard to licenced waste sites, the review has identified 31 records relating to 6 locations within 250m, the nearest being the client's metal recycling facility on site and immediately west of the study area and the others being located 20m west, 27m west, 122m north, 171m north and 188m north.

There are 8 records within 250m relating to waste exemptions for the using, storing and treatment of waste held by several companies at the same location (Morris & Co [Handling] Ltd, Derwen Plant Ltd and SIMS Group (UK) Ltd) at 118m north.

2.12 Ground Gases

CIRIA Report C665 (Ref. F) identifies the potential sources of hazardous ground gases that may be generated from infilled land and other sources and provides guidance on assessing the risks from these features. It is normal practice within the industry that where potentially infilled land occurs within 250m of a site where development is proposed, the area should be assessed for risk from ground gas.

Groundsure records show that 2 operational/recent landfills (115 & 118m E) within 250m of the study area, although these are located beyond the River Neath.

With respect to potentially infilled land, the Groundsure report identifies a number of activities both on site (unspecified ground workings, railway sidings and a wharf) and close to it old gravel pits (3m W & 45m N), a refuse heap (25m N), unspecified heaps (6m W, 10m W & 18m S) and unspecified ground workings, which may have been infilled.

A review of past coal mining activities has identified no requirement to monitor for potential mine gases.

Having reviewed the factors described above, it is considered that ground gas monitoring will only be required if the proposed development includes enclosed buildings. In this case the proposed development is for a storage shelter which will be enclosed on 3 sides and open (and therefore ventilated) to the front. Gas monitoring is therefore not considered necessary for this development.

Regarding radon gas, reference to the Gov.UK radon maps website³ indicates that the site is located in a Radon Affected Area where the maximum radon potential is 3-5%. Reference to radon guidance report BR 211 (Ref. G) indicates that basic radon protection measures are required for new development in this area, but will not be necessary in this case, due to the open fronted nature of the building.

2.13 Air Quality

Section 82 of the Environment Act 1995 requires every Local Authority to review the air quality within its area and section 83 requires them to designate an Air Quality Management Area (AQMA) where air quality objectives put in place to protect human health and the environment are not being achieved, or are not likely to be achieved.

The revised NPPF (Ref. D) requires AQMAs and Clean Air Zones to be taken into account in planning policies and decisions.

Reference to the on-line interactive map of Air Quality Management Areas managed by DEFRA⁴ shows that the site is located within the Neath Port Talbot AQMA, operated by the Neath Port Talbot County Borough Council, which has declared Particulate Matter (PM₁₀) as a prime pollutant on land between Corus steelworks and the M4. The site is out-with this AQMA zone.

³ <https://www.ukradon.org/information/ukmaps>

⁴ <https://uk-air.defra.gov.uk/aqma/maps>

2.14 Other Potentially Significant Information Relating to the Site

Reference has been made to the Groundsure environmental data report (Appendix C). With regard to *current industrial land uses*, the report identifies 6 locations within 250m, including 2 scrap metal recycling facilities (35m W & 118m N), 2 scrapyards (73m NW & 137m N), an electricity substation (243m N) and moorings on the River Neath for loading/unloading of goods (244m N).

There are no open/closed/obsolete petrol/fuel sites, no National Grid high pressure gas transmission pipelines and no National Grid high voltage underground electricity transmission cables within 250m of the site.

A review of *potentially contaminative historical industrial land use identified from 1:10,000/10,560 scale mapping* has identified 63 records within 240m, including 10 on site records and 17 records between for locations up to 100m. Past on site activities include unspecified ground workings, mineral railway sidings, an unspecified wharf and a limekiln. Notable other activities within 100m of the site include an old gravel pit (3m W), unspecified heaps (6m W) and a refuse heap (25m N). With respect to other past contaminative industrial land uses, there are no historic tanks, historic energy features, historic petrol stations or garages within 500m.

The Groundsure report records no historic military sites within 500m of the review area. Inspection of the Zetica unexploded ordnance risk map website indicates that although Neath Abbey Wharf 144m to the north was a Luftwaffe target, the site itself is located in a zone of low risk from WWII unexploded ordnance.

With respect to *potentially infilled ground*, a number of activities have been identified on site (unspecified ground workings, railway sidings and a wharf) and close to it (old gravel pit [3m W & 45m N], unspecified heaps [6m W, 10m W & 18m S]). All of these activities have the potential to be infilled land.

Regarding *environmental permits, incidents and registers*, there are 2 Part A(2) & Part B activities within 500m of the site, a historic coke & coal licence (21m W) and a roadstone coating licence (299m N). No enforcements have been made to either site.

Otherwise there are no Dangerous/Hazardous COMAH/NIHHS sites, regulated explosive sites, hazardous substance consents and enforcements (storage & usage), historic IPC authorised activities, Part A(1) & IPPC authorised activities, radioactive substance authorisations, pollutant release into surface waters (Red List discharge consents), pollutant release into public sewer, List 1 or List 2 Dangerous Substance sites, pollution inventory substances sites, pollution inventory waste transfers, pollution inventory radioactive waste (Category 3 or 4) sites, or sites determined as Contaminated Land under Part 2A of the Environmental Protection Act (1990) within 500m of the study area.

With respect to *historic railways/tunnels*, 25 records have been identified within 240m, including 9 on-site records of railway sidings, mineral sidings and tramway sidings. Additionally there are 8 records of current rail activities within 240m, the nearest being an active railway line 88m to the west.

With respect to *designated environmentally sensitive areas*, reference has been made to the Groundsure environmental data report (Appendix C) which shows that Crymlyn bog, 1.49km to the west, has Conserved wetland (RAMSAR), National Nature Reserve (NNR), Local Nature Reserve (LNR) and Special Area of Conservation (SAC) status. Additionally there are 6 Sites of Special Scientific Interest (SSSI) within 2km, the nearest being 1.17km to the south and 24 designated Ancient Woodlands (nearest 260m west). No other environmentally sensitive designated sites have been identified within 2km.

With regard to visual and cultural designations, there is a Grade II listed building (Cardonnel tinplate works boiler stack) 207m to the south west. No other sites have been identified within 250m of the study area.

3.0 CONCEPTUAL SITE MODEL AND PRELIMINARY RISK ASSESSMENT

3.1 Potential Pollutant Linkages

To determine the potential for a pollutant linkage to be present, the preliminary risk assessment process involves the identification of potential sources, pathways and receptors. A pollutant linkage can only be present if all three of these factors are involved. In this model there must be a **source** of contamination present (normally a contaminant or pollutant), with a **pathway** representing a route for the contaminant to migrate within the environment towards a **receptor** which may be susceptible to impact from the contamination. A receptor can be a natural feature such as surface or groundwater and humans, but may also include ecological systems and property.

This approach is in accordance with the contaminated land provisions under Part 2A of the Environmental Protection Act 1990. Under the 2014 revised Statutory Guidance implementing these provisions (Ref. E), land is defined as being contaminated if:

- Significant harm is being caused or there is a significant possibility of such harm being caused to human health, or relevant non-human (ecological or property), receptor; and / or
- Significant pollution of controlled waters is being caused, or there is a significant possibility of significant pollution of controlled waters being caused.

The Conceptual Site Model assumes that the redevelopment undertaken will be the construction of a storage facility for mixed scrap metals/aggregates.

3.2 Potential Sources of Contamination

Potential sources of contamination and associated contaminants which may be present on site are shown in Table 7 (next page).

Table 7: Potential Sources of Contamination

Potential Sources	Potential Contaminants
On Site	
Railway sidings (past). Limekiln (past - southern boundary). Wharf (past - eastern boundary). Disturbed, worked & made ground. Marshy ground. Buildings / structures of unspecified use (past – northern end). Building demolition. Screening, processing & storage of scrap metals, incinerated ash & aggregates (current).	Potential localised asbestos fibres. Metals / metalloids including As, B, Cd, Cr, Cu, Ni, Pb, Hg, Zn, Se, Ba, Sb Cyanides. Sulphates/sulphides. Polycyclic aromatic hydrocarbons (PAHs). Petroleum Hydrocarbons (TPHs). Solvents. Phenols Polychlorinated biphenyls (PCBs). Ground gas (principally carbon dioxide and methane).
Off Site	
Railway land (past - adj. E and current – 85m W). Wharf (past - adj. E & NE). Disturbed, worked & made ground. Marshy ground (adj. W & 125m S). Depot (adj. W & 125m N). Screening, processing & storage of scrap metals, incinerated ash & aggregates (current – adj. W). Scrapyard, non-ferrous metal recycling & wharf (current, N perimeter). Waste transfer station (92m N). Old gravel pits (past - 3m W & 45m N). Refuse / spoil heaps (past - adj. NW & 25m N) & unspecified heaps (6m W, 10m W & 18m S). Unspecified ground works (past – adj. W). Tin plate metal works (past - 210m SW). Landfill (115 & 118m E). Red diesel storage & dispensing (current - adj. N).	Asbestos fibres. Metals / metalloids including As, B, Cd, Cr, Cu, Ni, Pb, Hg, Zn, Se, Ba, Sb Sulphates/sulphides. Cyanides. Sulphates/sulphides. PAHs. TPHs. Solvents. Phenols PCBs. Ground gas (principally carbon dioxide and methane).

3.3 Potential Pathways

The potential pathways representing the routes by which contaminants may migrate are listed as follows:

- Ingestion and inhalation of soil / water / dust;
- Dermal contact with soil / water / dust;
- Migration and / or inhalation of gases and vapours;
- Migration / leaching of contaminants through soil / groundwater;
- Volatisation of contaminants to indoor or outdoor air;
- Surface water runoff;
- Service pipes;
- Ground instability / differential settlement.

3.4 Receptors

3.4.1 Human Health

Chronic Risks

The chronic risks to human health take into account those risks to end users of the site (occupants and visitors) and neighbouring occupants.

Acute Risks

Acute risks are considered with respect to construction workers / engineers on site.

NB: During any intrusive ground works appropriate health and safety measures should be adopted to protect site workers from any potential risks associated with contamination in the ground. This should include the use of any personal protective equipment necessary and a general awareness of any possible risks to safety and human health on site.

3.4.2 Controlled Waters

Groundwater

The superficial deposits on site are classified as a Secondary (undifferentiated) Aquifer and bedrock is classified as a Secondary (A) Aquifer (Minor Aquifer). Both aquifers are described as being of high vulnerability. There are no Groundwater Source Protection Zones within 500m of the site. There are no licensed groundwater or potable (drinking) water abstractions recorded within 2km. Groundwater is not considered a highly sensitive receptor.

Surface Water

The nearest watercourse (River Neath) is located 81m east of and slightly down dip of the site. There are no licenced surface water abstractions recorded within 1km of the site, 1 active licenced discharge consents within 500m of the site and 11 recorded Pollution Incidents within 250m of the site (all no/minor impact). It is considered that the site is located in a sensitive area in terms of surface water resources.

3.4.3 Non-Human Receptors

Ecological Systems

The nearest designated ecological receptors are a SSSI (117km S), an Ancient Woodland (260m W) and Crymlyn bog (1.49km W) with RAMSAR, NNR, SAC & LNR status).

Property (buildings / structures / crops / livestock)

Property receptors include the client's existing metal screening and processing facility to the immediate west and Sim's wharf, scrapyard and non-ferrous metal recycling facility adjoining the site to the north.

3.5 Outline Conceptual Site Model

Based on all the information determined from previous sections of this report, the outline Conceptual Site Model (CSM) identifies the potential pollutant linkages which may exist on the site to be as presented in Table 8 (next page).

Table 8: Outline Conceptual Site Model

Potential Pollutant (Source)	Potential Linkage (Pathway)	Receptor
<u>On Site:</u> Railway land. Limekiln. Wharf. Disturbed, worked & made ground. Marshy ground. Buildings / structures of unspecified use. Building demolition. Screening, processing & storage of scrap metals, incinerated ash & aggregates		
<u>Off Site:</u> Railway land. Wharf. Disturbed, worked & made ground. Old gravel pits. Refuse / spoil heaps & unspecified heaps. Unspecified ground works. Marshy ground. Depots. Screening, processing & storage of scrap metals, incinerated ash & aggregates. Scrapyard, non-ferrous metal recycling & wharf. Red diesel storage & dispensing. Waste transfer station. Landfill (115 & 118m E). Tin plate metal works.	Migration and inhalation of gases / vapours. Inhalation of soil, water or dust. Dermal contact with / ingestion of contaminated soil, water, dust. Migration / leaching, runoff and percolation through soils and rock joints. Volatilisation of contaminants to indoor or outdoor air.	Construction workers. Site end users (workers). Neighbouring commercial properties. Groundwater (superficial & bedrock aquifers). River Neath & Tennant Canal. Existing and proposed buildings (on-site/adjacent). Adjoining land and buildings. Grade II listed building 207m SW Ancient woodland 260m W.

3.6 Preliminary Environmental Risk Assessment

This section aims to expand the outline CSM to assess the level of risk for each potential pollutant linkage.

Risk is a combination of the 'probability' (likelihood) of an event occurring and the magnitude of its 'consequence' (severity). Therefore, in order to assess risk, both the probability and the consequence of an event must be taken into account. SEL has adopted guidance provided by CIRIA C552⁵, for use in the production of risk assessments for contaminated land and a simple guide to this process is provided in Appendix G.

⁵ CIRIA C552 *Contaminated land risk assessment. A guide to good practice*, CIRIA 2001

The risk categories that are ultimately determined as the basis for assessing the likelihood of the site being described as contaminated, are provided with their respective definitions in Table 9.

Table 9: Risk Classification Definitions from CIRIA C552

Risk Rating	Definition
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be mild. Investigation is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Pollutant linkages from the outline CSM and resulting risks are considered in Table 10.

Table 10: Preliminary Environmental Risk Assessment

Receptor	Potential Pollutant Linkage	Estimated Degree of Risk to Receptor
Construction Workers	Migration and inhalation of ground gas/vapours (methane & carbon dioxide).	Low
	Inhalation of soil, water or dust.	Low/Moderate*
	Dermal contact with/ ingestion of contaminated soil/water/dust.	Low/Moderate*
	Volatisation of contaminants to indoor or outdoor air.	Low
Site End Users	Migration and inhalation of ground gas/vapours (methane & carbon dioxide).	Low
	Inhalation of soil/water or dust.	Low
	Dermal contact with/ingestion of contaminated soil/water/dust.	Low
	Volatisation of contaminants to indoor or outdoor air.	Low
Neighbouring Occupants	Migration / leaching / runoff.	Low**
	Migration and inhalation of ground gas/vapours	Low
	Inhalation of soil, water or dust.	Low**
	Dermal contact with/ingestion of contaminated soil/water/dust.	Low
Surface Water	Migration / leaching / runoff.	Low**
Groundwater	Migration / leaching / runoff.	Low**
Property (Land & Buildings)	Migration / leaching / runoff.	Low**
	Ground instability.	Low/Moderate
Ecological Systems	Migration / leaching / runoff.	Low*

* Assumes basic PPE is used.

**Assumes good site construction practice, including control of runoff / spillages / dust

In respect of the proposed development of a storage shelter for mixed waste on site, in completing this preliminary qualitative risk assessment, a **Low to Moderate risk** has been attributed.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This report has reviewed the available data for the study area in the context of the proposed redevelopment, comprising the construction of a storage facility for mixed metals, which is understood will be in the form of an open fronted structure as opposed to an enclosed building.

This Phase 1 Preliminary Geo-Environmental Risk Assessment has derived the overall level of risk to human health and the wider environment at the site from on and off-site sources to be **Low to Moderate**. The risk mainly relates to construction workers from historic and existing potentially contaminative uses, both on site and within the immediate surrounding area (see Table 8) and to ground instability from compressible deposits and running sand (see Section 2.6).

It is recommended that a Phase 2 intrusive site investigation is undertaken to assess On-site ground conditions to inform foundation design and to assess the contamination status with respect to its past land uses.

The objectives of the Phase 2 investigation would be to:

- Provide data to inform the design of foundations or ground improvements that may be required.
- Clarify the outline Conceptual Site Model.
- Clarify the Preliminary Environmental Risk Assessment.
- Benchmark the contamination status of the site including controlled waters.
- Provide data for any remedial work that may be required.

Phase 2 Geo-Environmental Site Investigation

The Phase 2 geo-environmental site investigation should include:

- Cable percussive (shell & auger) drilling to provide ground bearing information for the proposed development (Standard Penetration Tests) and to assess the contamination status of underlying soils.
- The recovery of representative soil samples from the window sampling locations, for geotechnical testing where appropriate and contamination analysis. Soils for contamination analysis would normally be tested for a range of metal / metalloids, speciated polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPHs), solvents, phenols, polychlorinated biphenyls (PCBs), soil organic matter, soluble sulphate, sulphide, cyanides, pH and for the presence of asbestos. Any groundwater (if encountered) should also be sampled and tested for a similar range of contaminants. Any groundwater (if encountered) should also be sampled and tested for a similar range of contaminants.

The selection of cable percussive drilling over window sampling is preferred due to the greater depths that can be achieved. The thickness of made ground, through which the drilling should pass is unknown, as is the thickness of the superficial deposits above bedrock which the drilling should also determine.

As part of the site is covered in concrete of indeterminate thickness, concrete coring / breaking equipment should also be provided.

Ground Gas

CIRIA Report C665 (Ref. F) identifies the potential sources of hazardous ground gases that may be generated from infilled land or other sources and provides guidance on assessing the risks from these features. It is normal practice within the industry that where potentially infilled land occurs within 250m of a site, a study area should be assessed for risk from ground gas.

Whilst several potential sources of ground gas have been identified which would normally require a gas monitoring programme to be completed for new buildings, the form of the proposed storage shelter is understood to be open fronted (and therefore ventilated). As long as the form of the building remains unchanged (ie. is not converted to a fully enclosed building at a later date), gas monitoring is not considered necessary for this development.

This reasoning will also apply to basic radon protection measures which would otherwise be required for new buildings in this area.

Coal Mining Legacy Issues

The Coal Authority is a statutory consultee in the planning process and has the right to object to any surface development it considers may be at risk from legacy coal mining issues. The burden of discounting risk is placed on the developer.

The Coal Authority has identified potential for future underground coal mining beneath the site. However, considering the current economic, planning and governmental factors that affect coal mining in the UK, SEL consider the risk of future coal being extracted beneath the site is negligible. No other coal mining legacy issues pose a risk to surface stability.

Having reviewed the coal mining legacy issues, SEL consider that the site is *not at risk from legacy coal mining activities*. Monitoring for mine gases is therefore also not required.

Natural Ground Stability Hazards

The Groundsure report indicates that the review area is at moderate risk from compressible deposits, which means that compressibility/uneven settlement hazards are probably present on site. The proposed drilling programme will help determine the degree to which these hazards present a problem to the development.

The report also identifies a moderate risk from running sand. Should this be present on site, constraints may apply to land uses involving excavation.

Flood Risk

Regulators are entitled to require a standalone flood risk assessment for a site in addition to a Phase 1 Preliminary Environmental Risk Assessment Report should they consider it necessary. Although the site is less than 1ha in area and has a low risk of flooding from rivers and the sea and low risk of surface water flooding, the site is located in an area known to have flooded in the past and is 17m from a Flood Zone 3 where there is a higher risk of flooding.

Other Factors

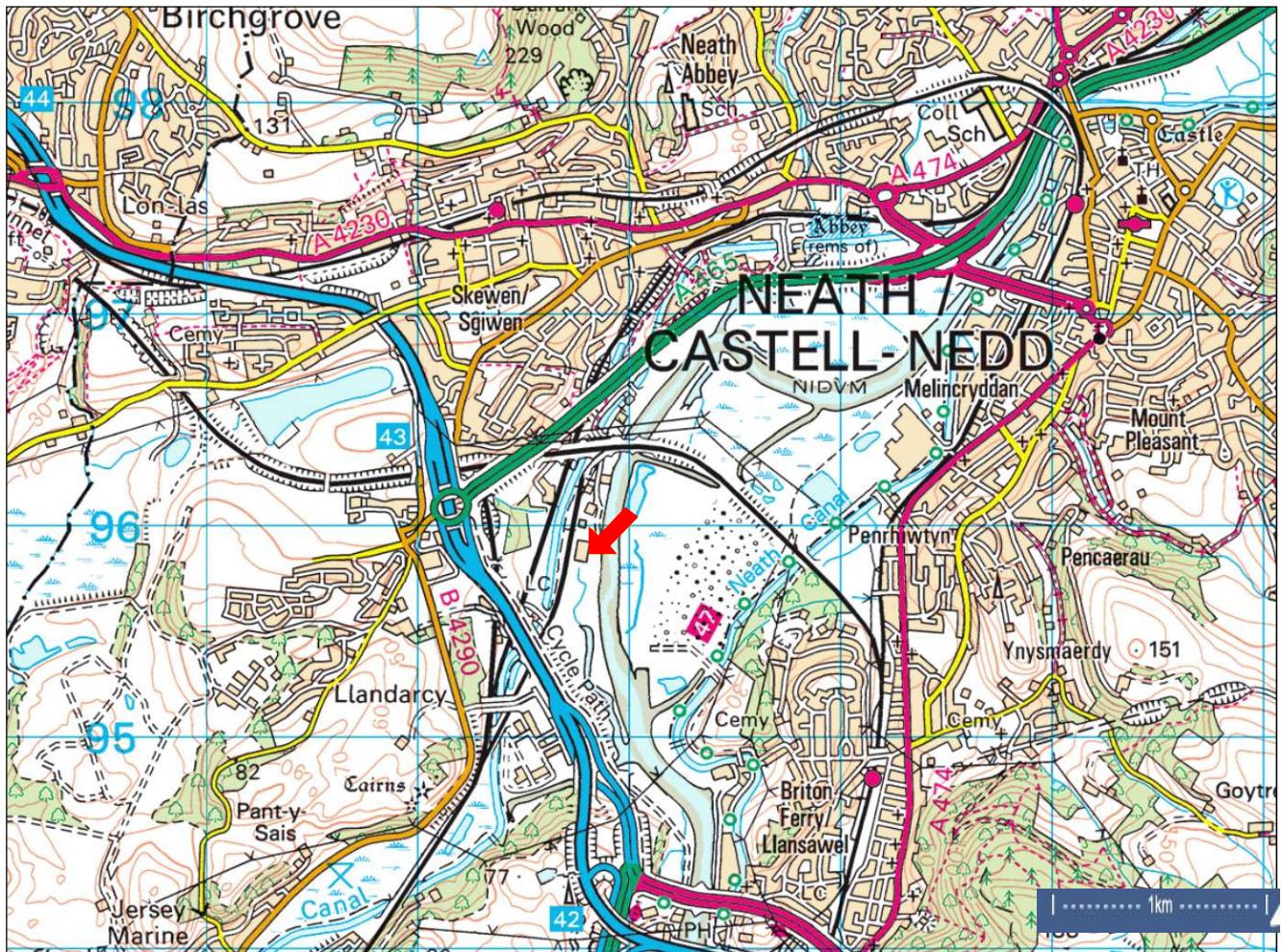
Should the use of plastic pipes and/or services be envisaged as part of the redevelopment works, it should be noted that soil sampling requirements can vary between different service providers. For this reason prior to fully commissioning any ground investigation, it is recommended that the client agree any additional sampling requirements that may be required with each service provider.

Prior to intrusive site investigations, records of services should be obtained to accurately locate the existing services on site. Services should be protected in order to prevent damage by drilling or use of excavation equipment.

APPENDIX A

Figures:

- Figure 1 Location Plan
- Figure 2 Current & Proposed Layout
- Figure 3 Coal Authority Search: Development High Risk Areas
- Figure 4 Coal Authority Search: Recorded Mine Entries
- Figure 5 Coal Authority Search: Recorded Shallow Underground Mine Workings and Probable Shallow Underground Mine Workings
- Figure 6 British Geological Survey Search: Geological Maps (Artificial Ground, Superficial Deposits and Bedrock)
- Figure 7 Ordnance Survey Search: Site History
- Figure 8 Potentially Contaminative Activities



Site Location

Ref No. 20103

Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL

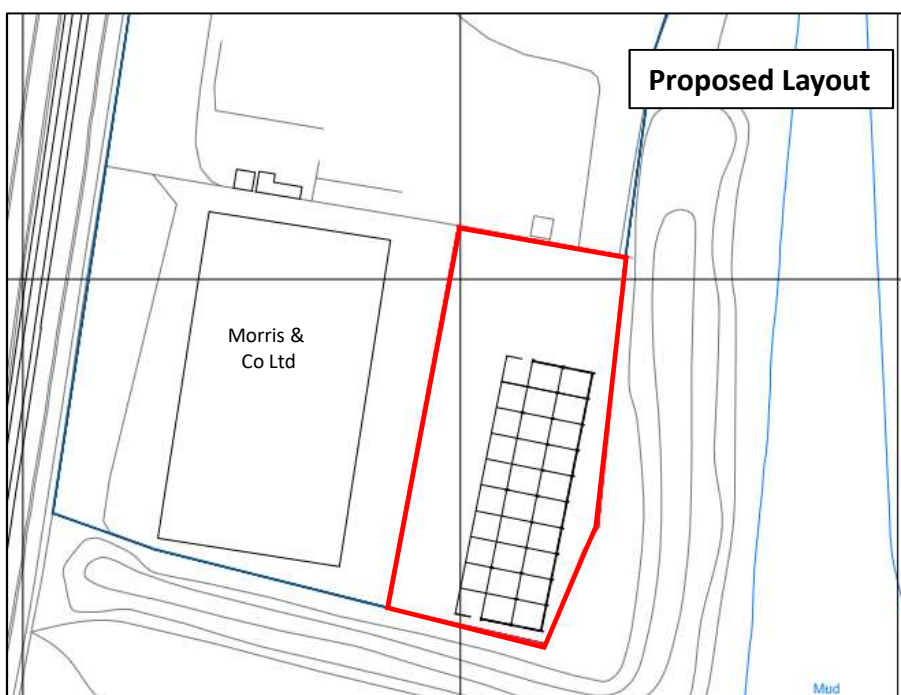
FIGURE 1:

LOCATION PLAN

(NGR 272770, 195870)



The client, Morris & Co Ltd, a salvage and metal processing company, propose to build a storage facility for mixed materials in their scrapyard immediately east of their facility at Neath Abbey Wharf, Skewen, Neath, West Glamorgan.



Ref No. 20103
Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL
FIGURE 2:
CURRENT & PROPOSED
LAYOUT
(NGR 272770, 195870)



 Site Location

 Development High Risk Area

The Coal Authority defines a Development High Risk Area as the part of a coal mining reporting area that has one or more recorded coal mining features which have the potential for instability, or a degree of risk, to the surface from the legacy of coal mining operations.

Ref No. 20103

Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL

FIGURE 3:

COAL AUTHORITY SEARCH

DEVELOPMENT HIGH RISK AREAS

(NGR 272770, 195870)



- ▭ Site Location
- X Recorded Shaft
- X Recorded Adit

Ref No. 20103

Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL

FIGURE 4:

COAL AUTHORITY SEARCH

RECORDED MINE ENTRIES

(NGR 272770, 195870)



Site Location



Recorded Past Shallow Underground
Coal Mining Activity



Probable Shallow Underground
Coal Mining Activity

Probable shallow coal mine workings show the extent of probable shallow coal mine workings for which no records exist, but where it is likely that workable coal at shallow depths has been mined before records were kept.

Ref No. 20103

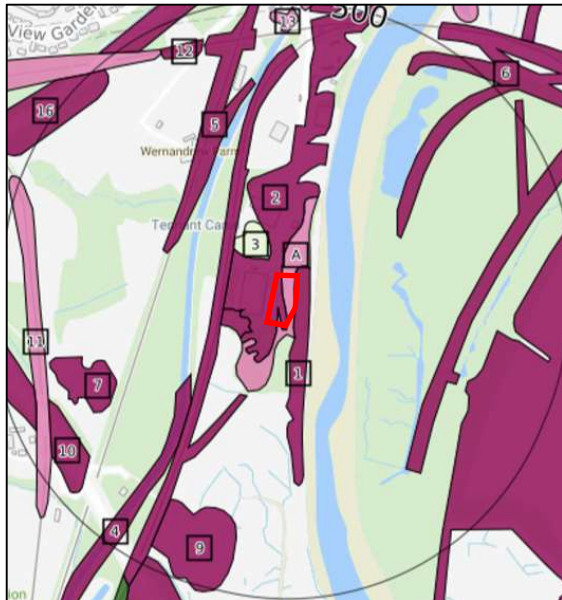
Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL

FIGURE 5:

COAL AUTHORITY SEARCH

RECORDED SHALLOW MINE WORKINGS &
PROBABLE SHALLOW MINE WORKINGS

(NGR 272770, 195870)

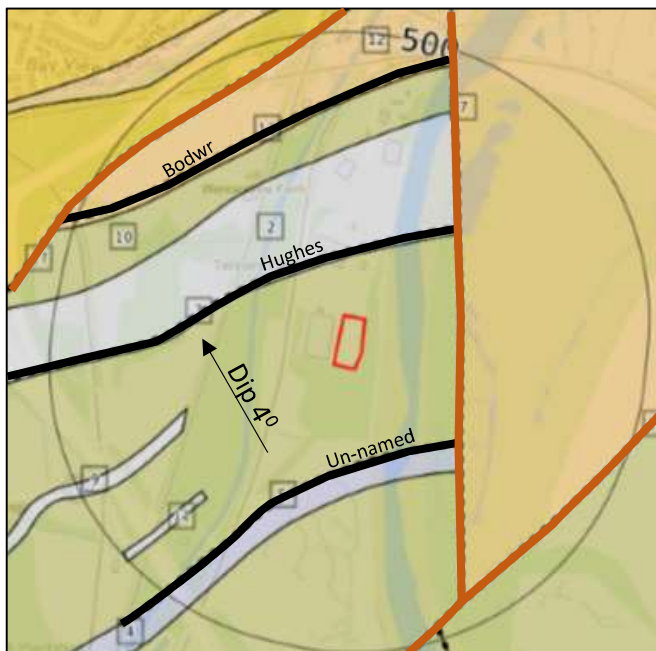
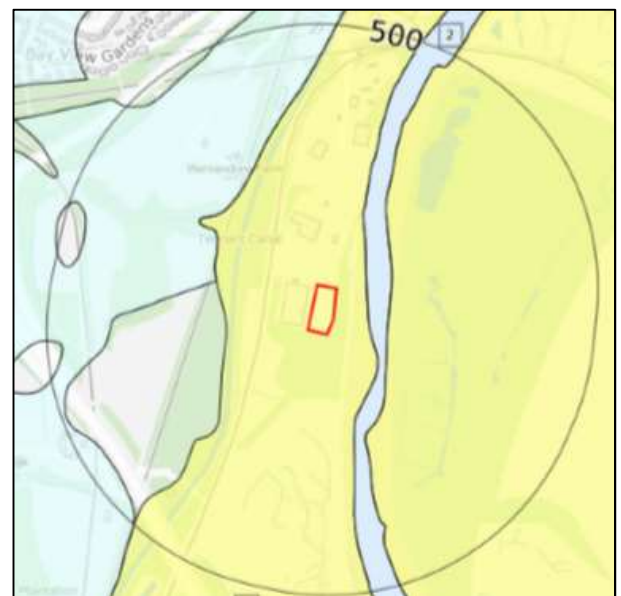


Artificial Ground (Left)

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

Superficial Deposits (Right)

- Tidal Flat Deposits (clay, silt & sand)
- Devensian Diamicton Till Deposits



Bedrock (Above)

- Brithdir Sandstone
- Outcrop of Coal Seam
- Geological Fault

Site Location

Ref No. 20103

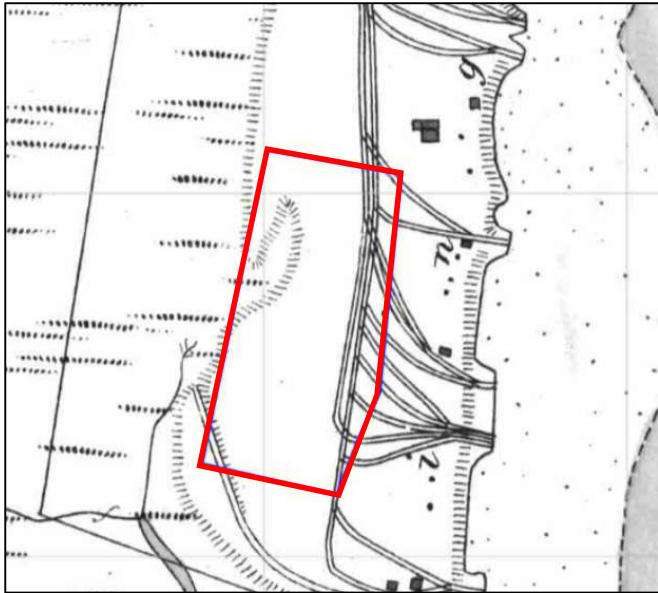
Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL

FIGURE 6:

BRITISH GEOLOGICAL SURVEY SEARCH

GEOLOGICAL MAPS

(NGR 272770, 195870)

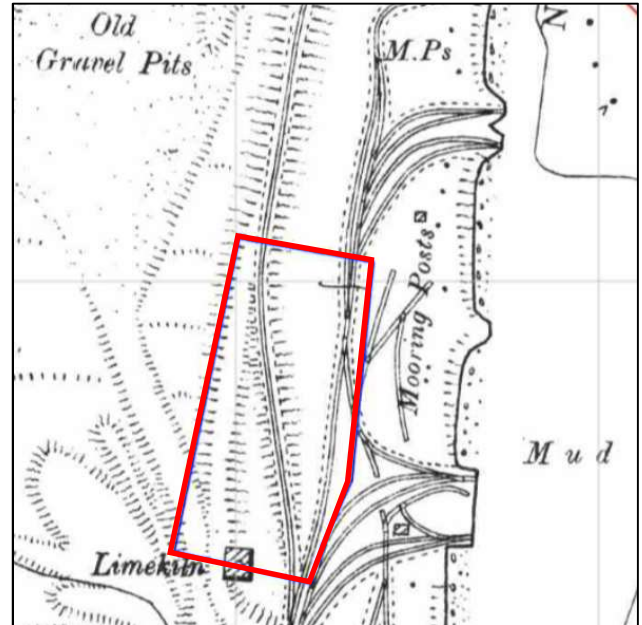


**OS Map
1881
(Left)**

- Rail lines to moorings on River Neath
- Salt marsh to west and south

**OS Map
1899
(Right)**

- Rail lines to moorings on River Neath
- Limekiln south end of site
- Rail lines over all site.
- Old gravel pits to north west

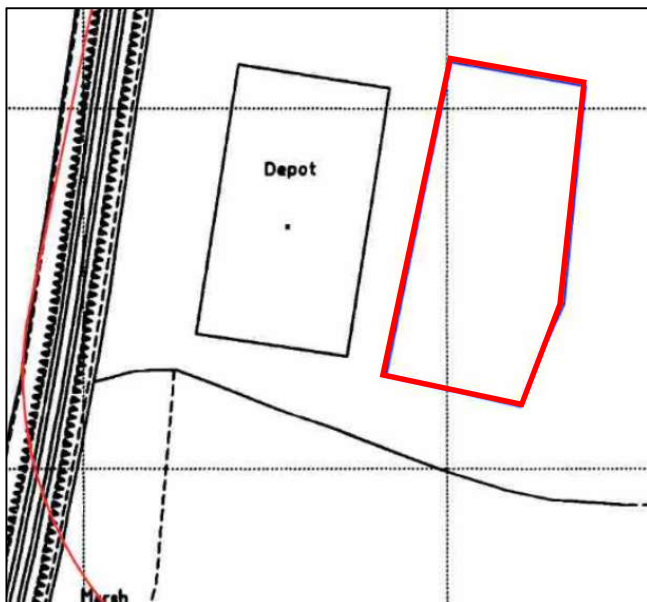


**OS Map
1970
(Left, Top)**

- Industrial activity on site ceased

**OS Map
1970
(Left, Bottom)**

- Site redeveloped as an industrial estate



Ref No. 20103

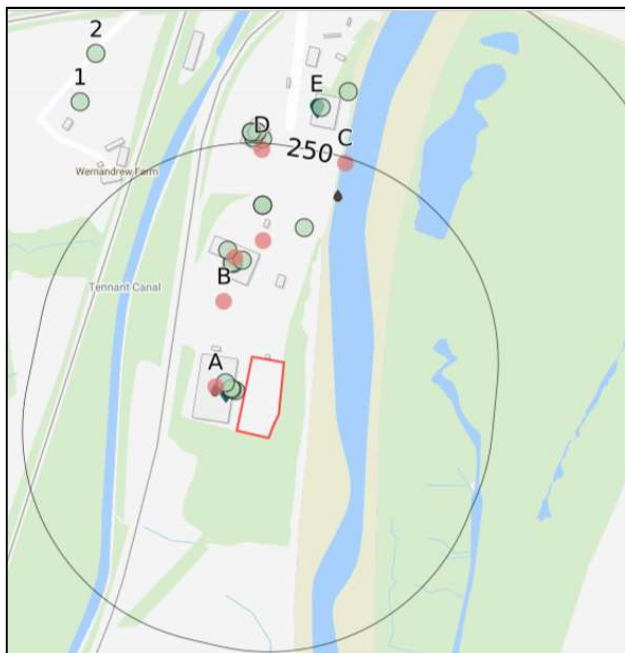
**Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL**

FIGURE 7:

ORDNANCE SURVEY SEARCH

SITE HISTORY

(NGR 272770, 195870)

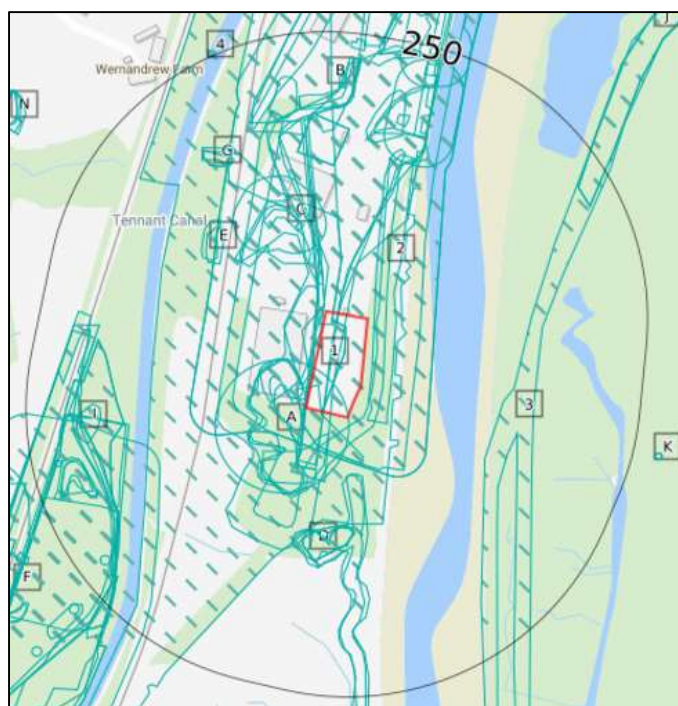


Current Industrial Land Use (Left)

- Recent industrial land uses
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

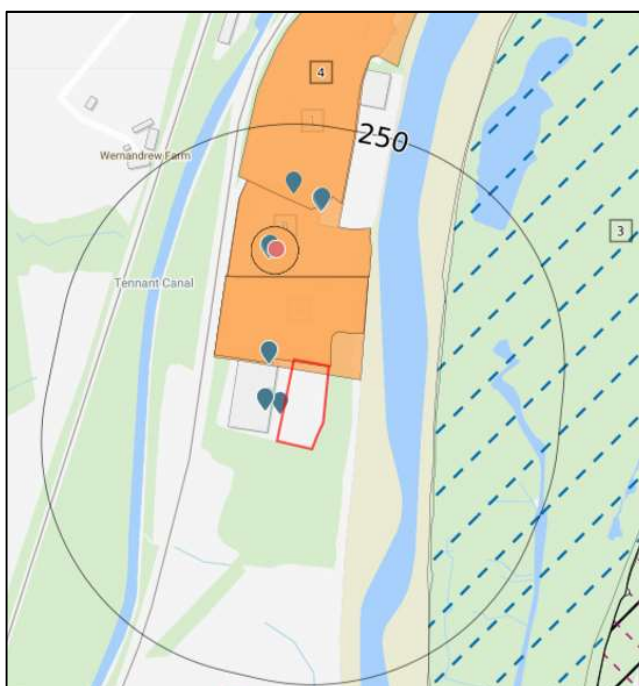
Past Land Use (Right)

- Historical industrial land uses



Waste and Landfill Sites (Below)

- | | |
|--|---|
| Active or recent landfill | Historical waste sites |
| Historical landfill (EA/NRW) | ● Licensed waste sites |
| Historical landfill (LA/OS) | ● Waste exemptions |



Ref No. 20103

Land at Neath Abbey Wharf,
Skewen, Neath, SA10 6BL

FIGURE 8:

POTENTIALLY CONTAMINATIVE ACTIVITIES

(NGR 272770, 195870)

APPENDIX B

Historical Maps

Large Scale Ordnance Survey Maps (1:2500 and 1:1250 scales)

Small Scale Ordnance Survey Maps (1:10,560 and 1:10,000 scales)

Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

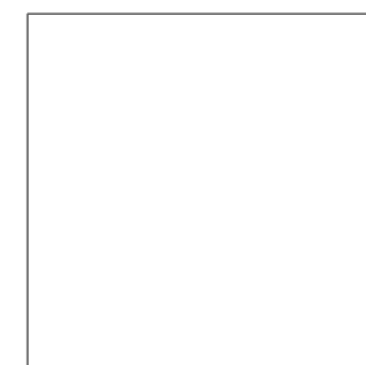
Map date: 1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A



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Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

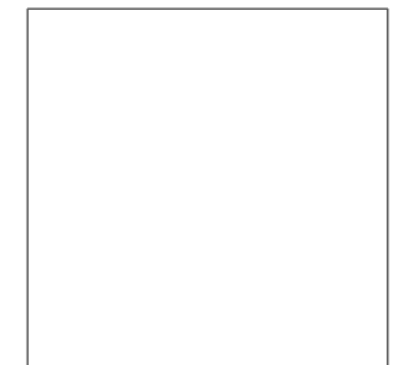
Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1899
 Revised 1899
 Edition N/A
 Copyright N/A
 Levelled N/A

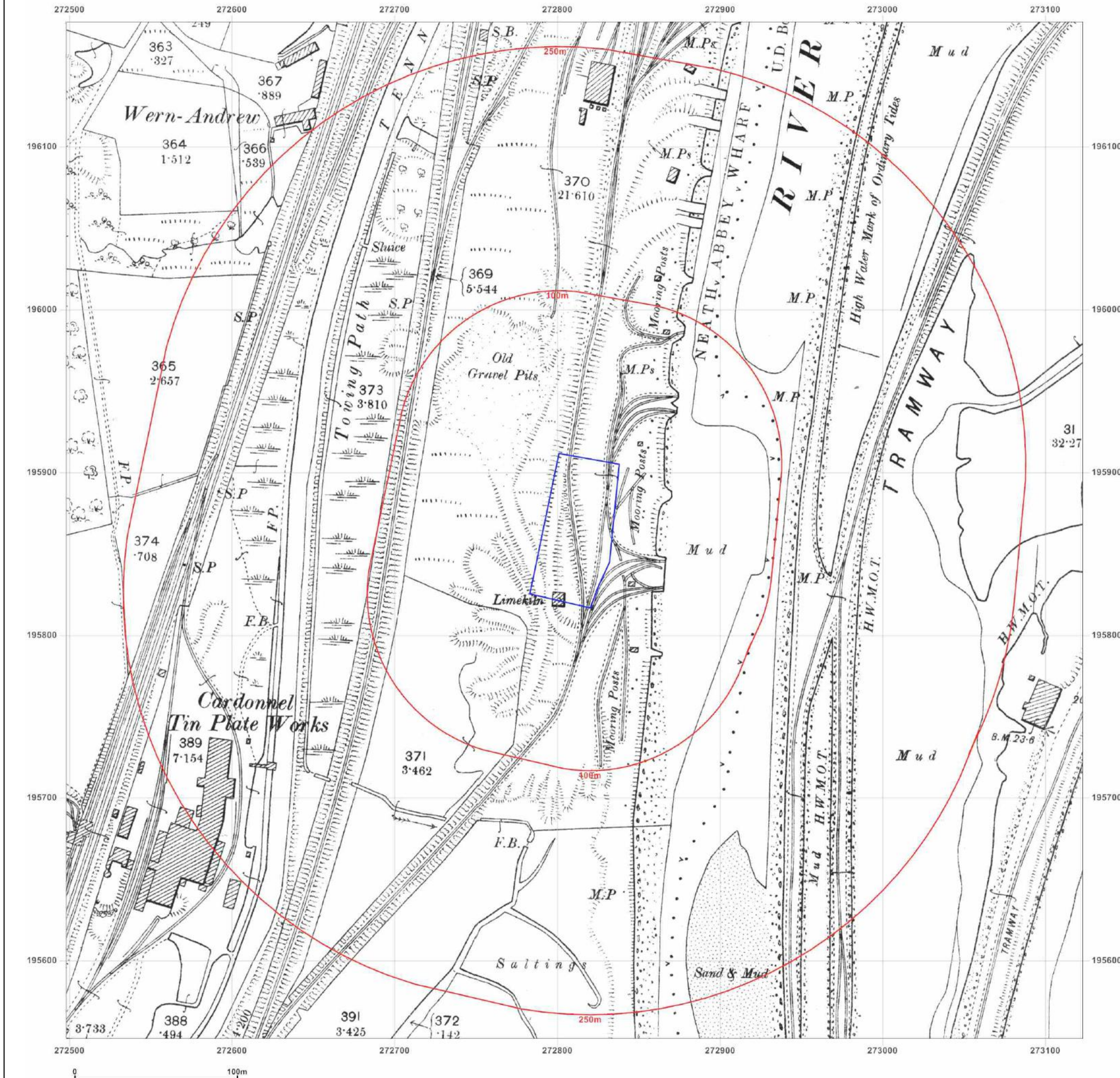


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Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

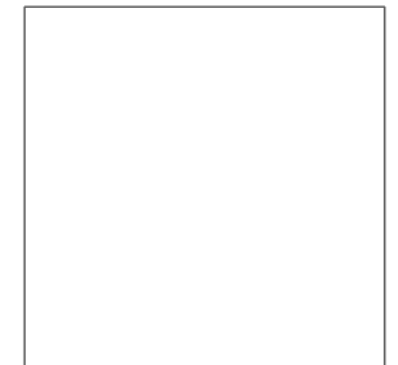
Map date: 1918

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1918
 Revised 1918
 Edition N/A
 Copyright N/A
 Levelled N/A

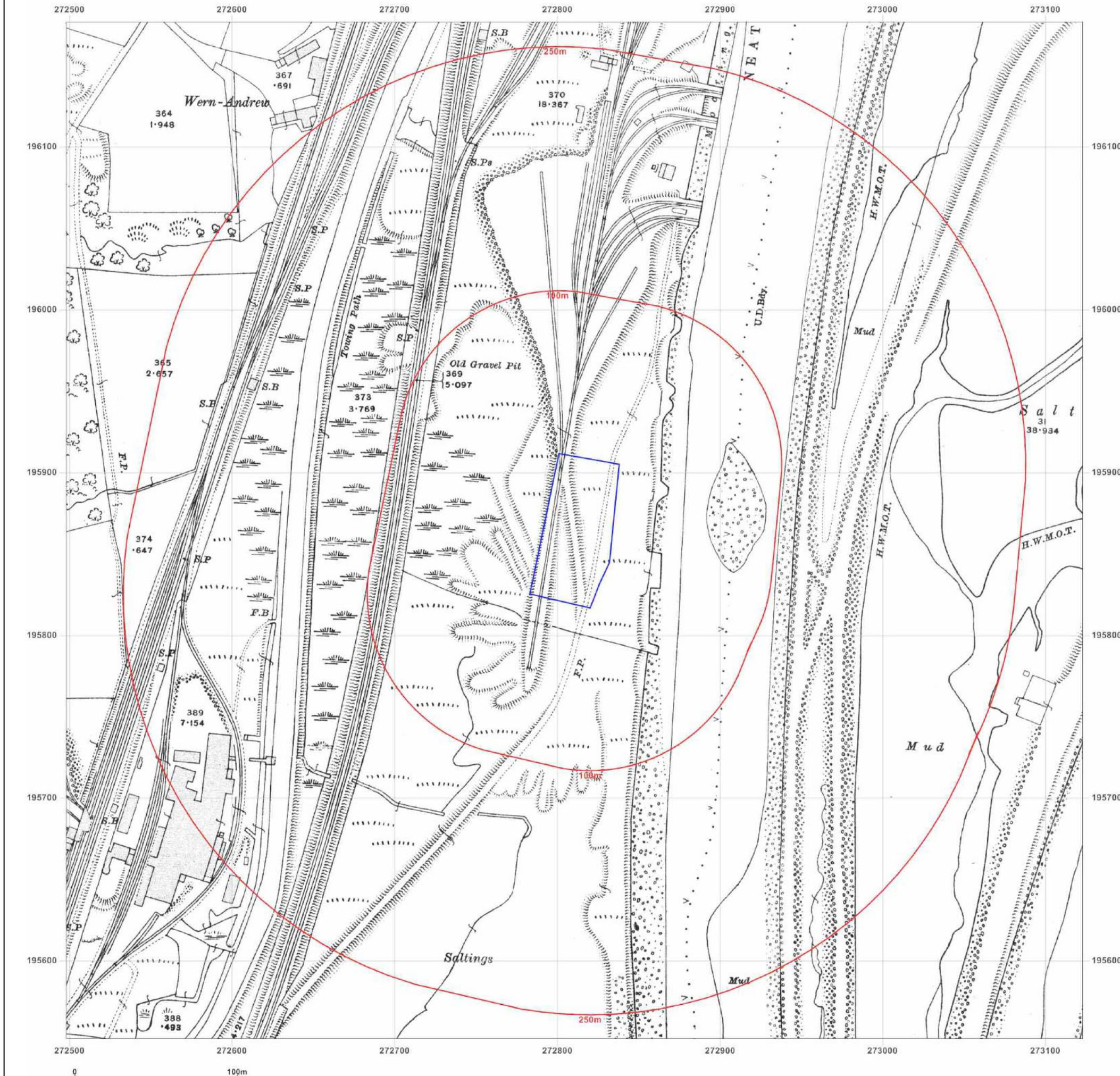


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Site Details:

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 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

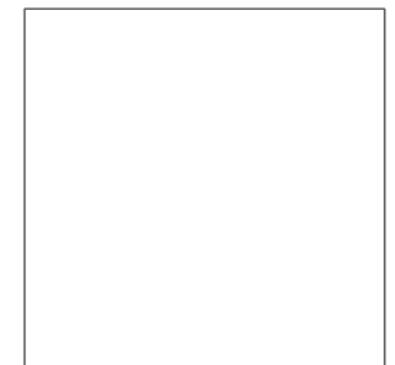
Map date: 1940

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1940
 Revised 1940
 Edition N/A
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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed N/A
 Revised N/A
 Edition N/A
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 Levelled N/A

Surveyed N/A
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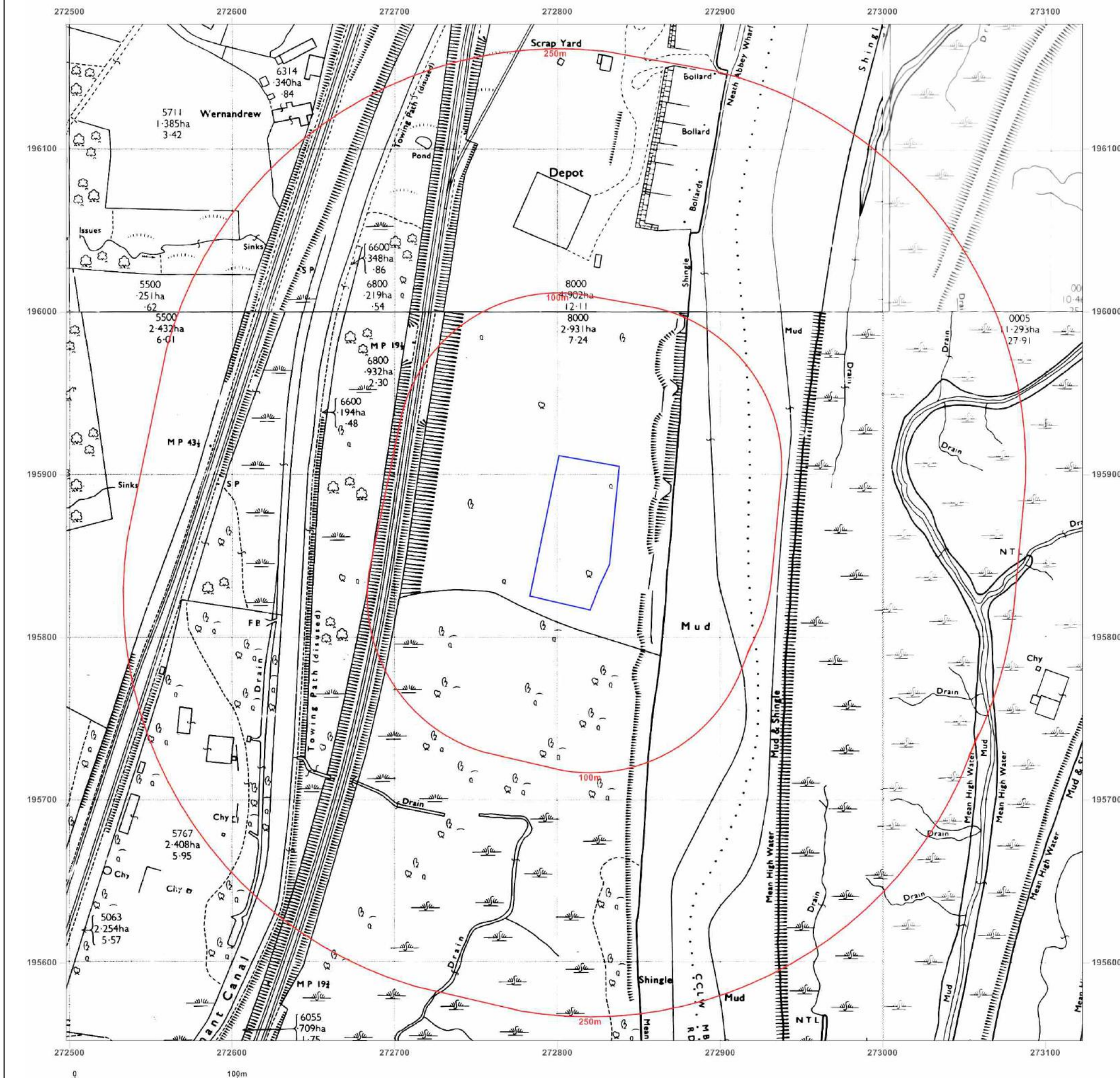


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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1978

Scale: 1:2,500

Printed at: 1:2,500



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

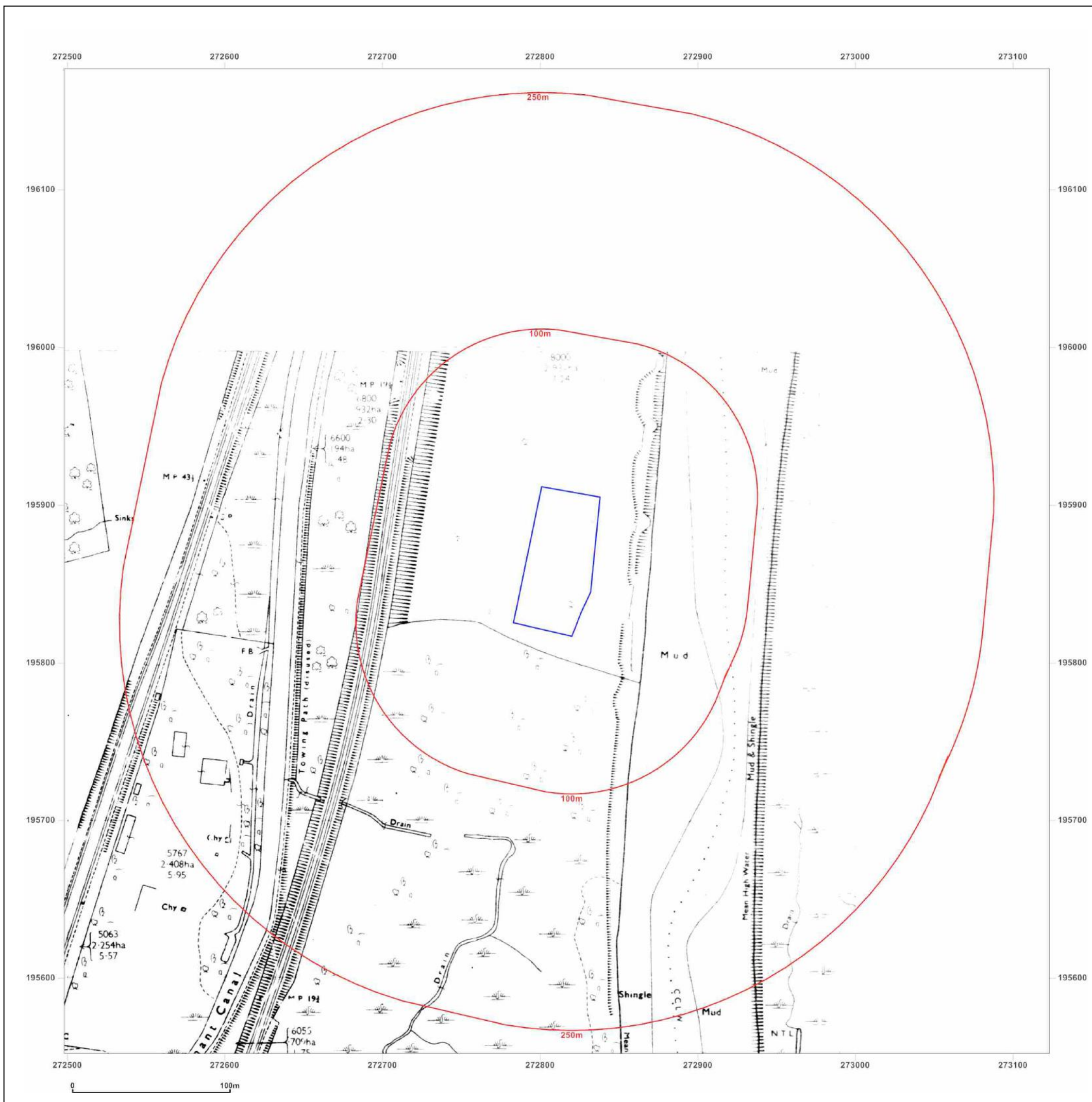


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Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1978

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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 Edition N/A
 Copyright N/A
 Levelled N/A

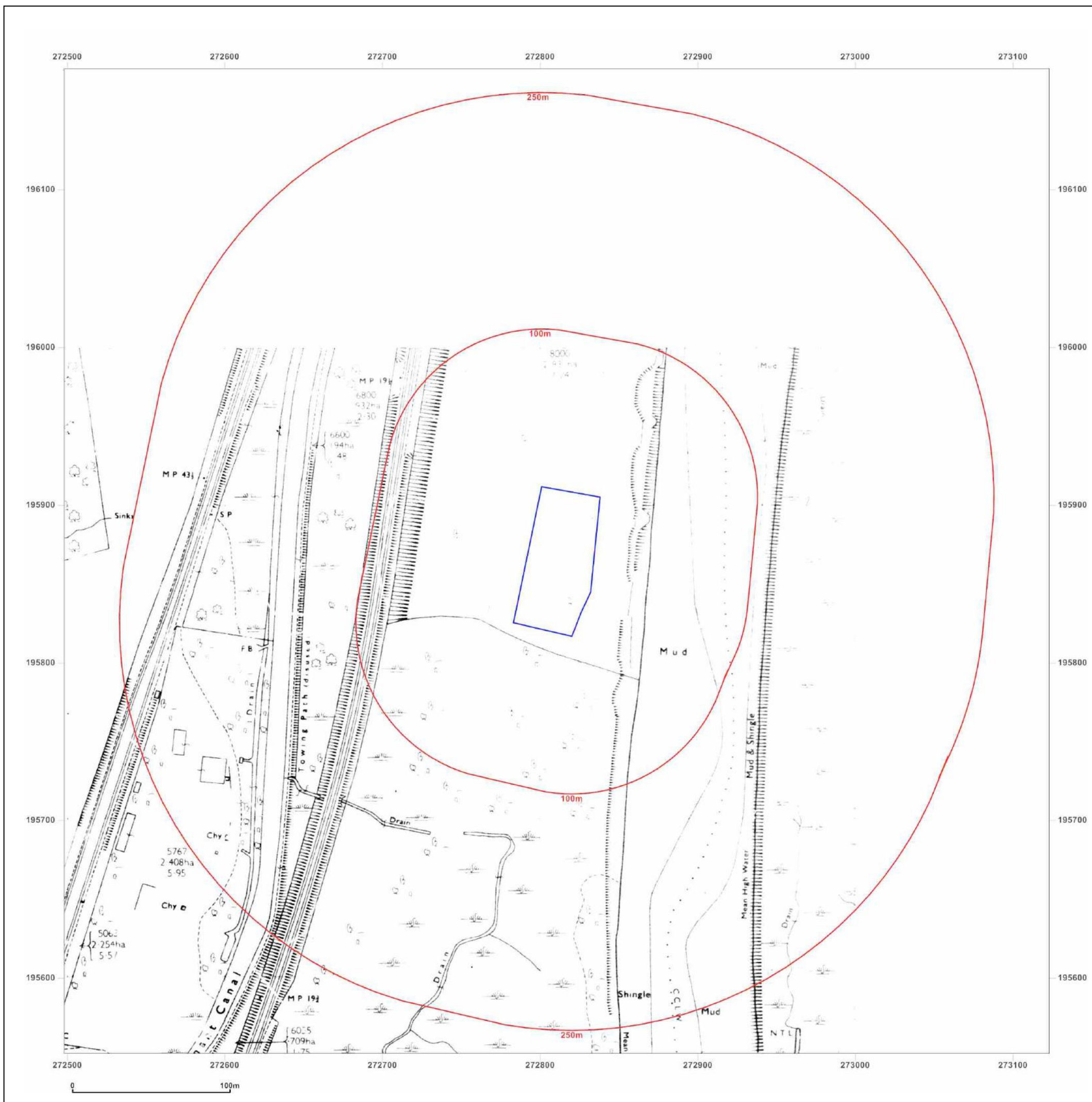


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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1989-1993

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A

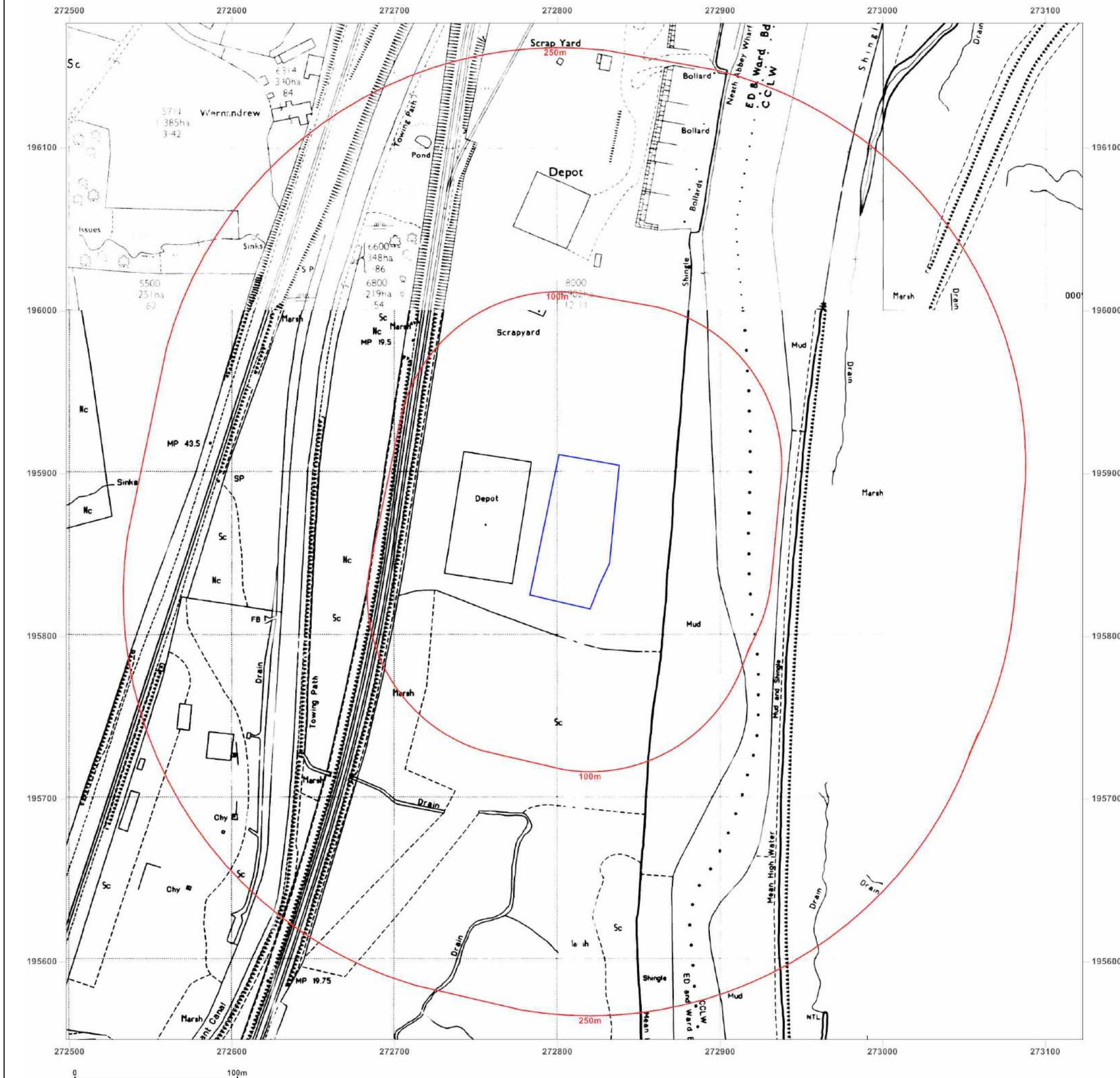


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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1989-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1964
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1964

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A

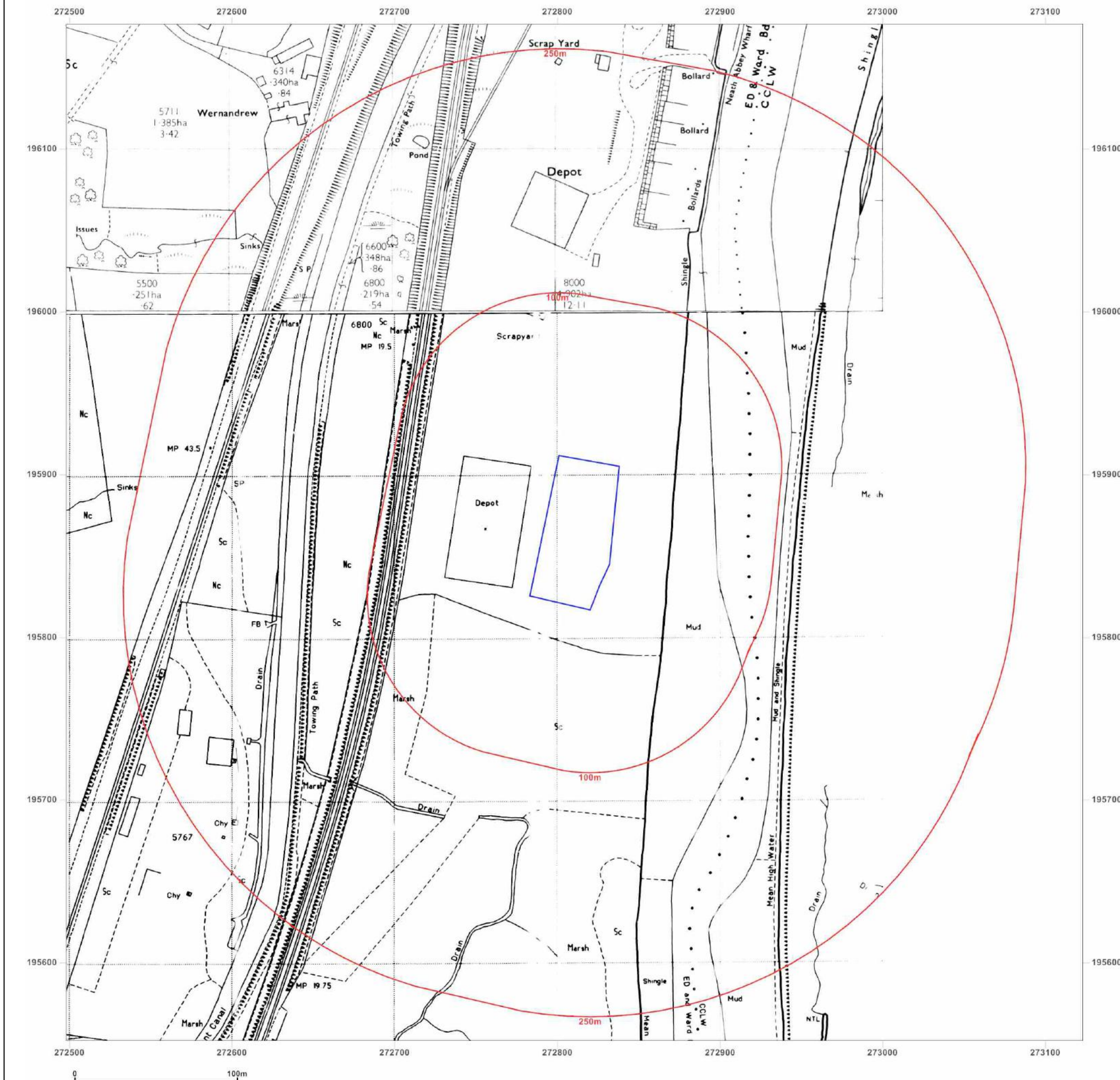


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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
 Revised 1993
 Edition N/A
 Copyright 1993
 Levelled N/A

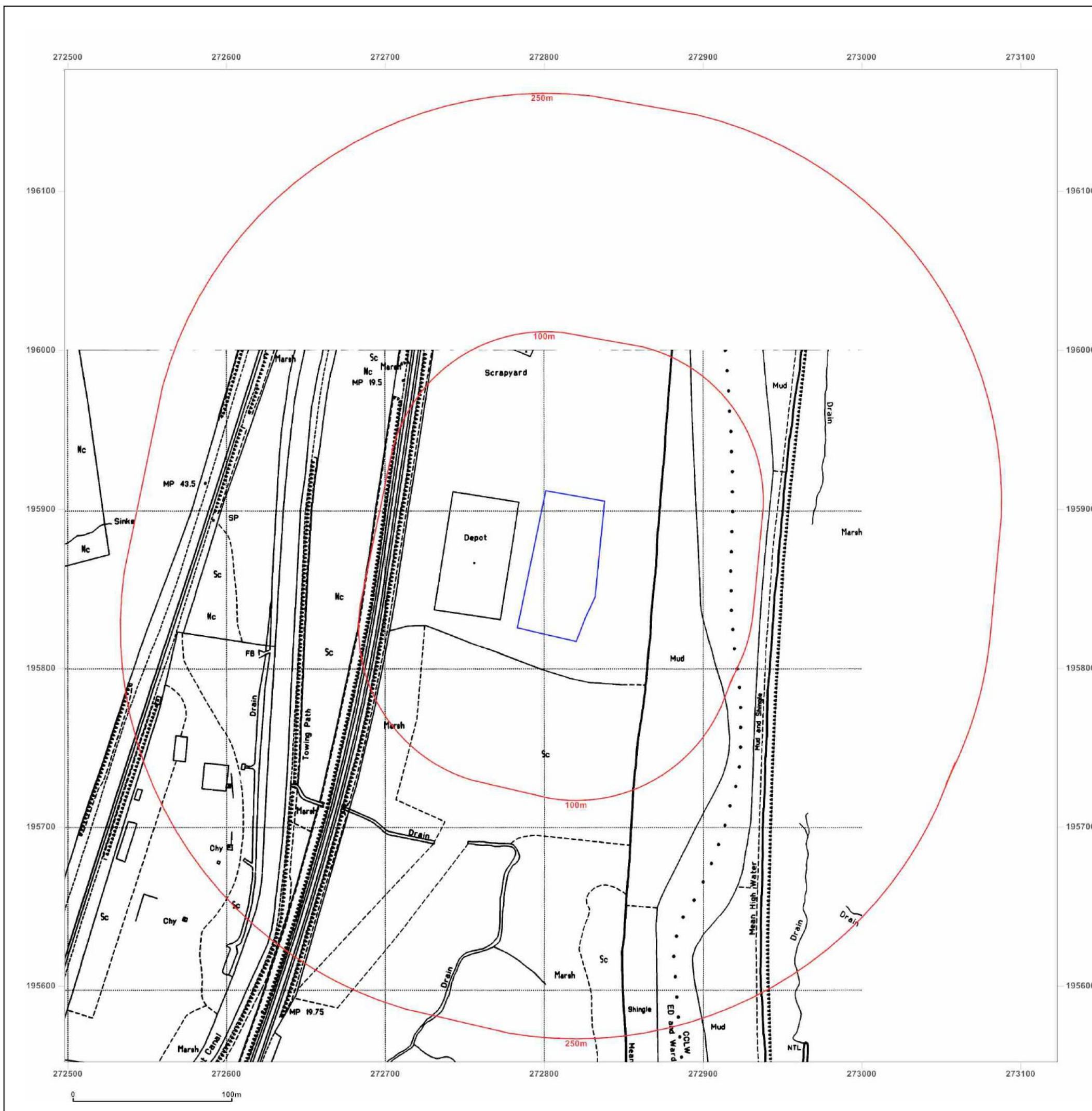


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Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1995

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1995
 Revised 1995
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1995
 Levelled N/A

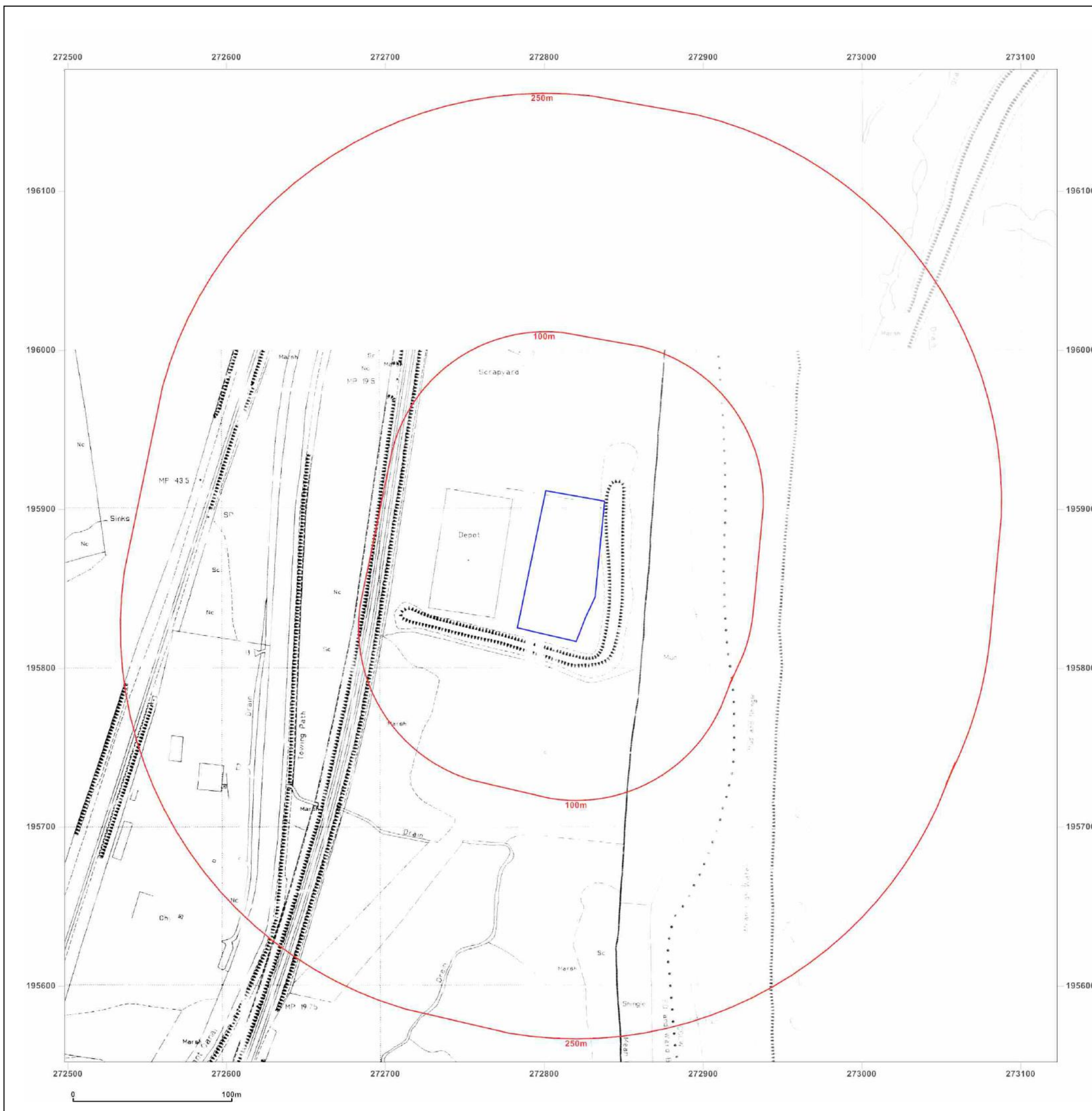


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Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1995

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed N/A
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 Edition N/A
 Copyright N/A
 Levelled N/A

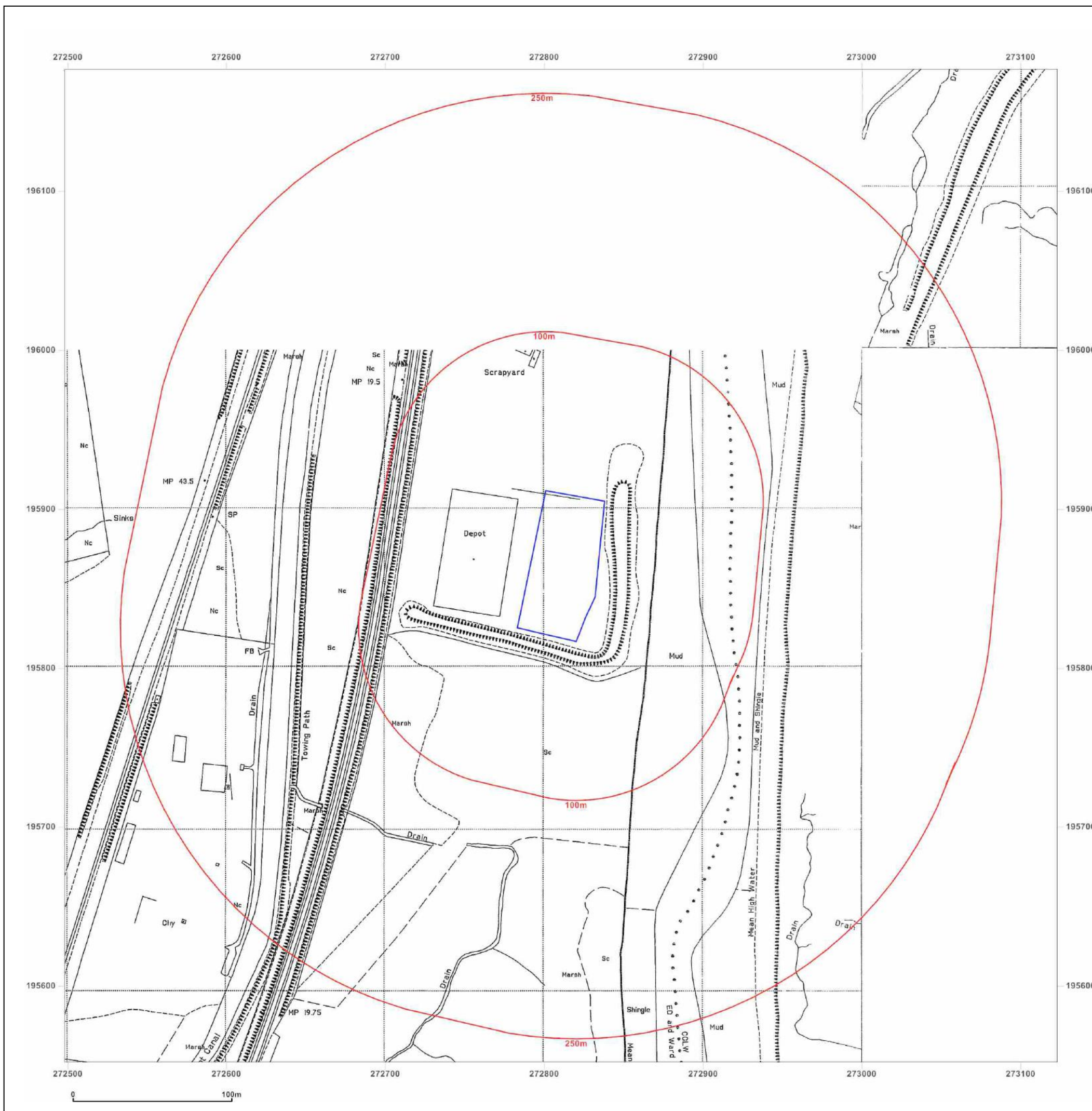


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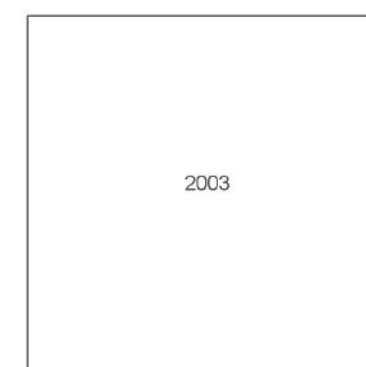
Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

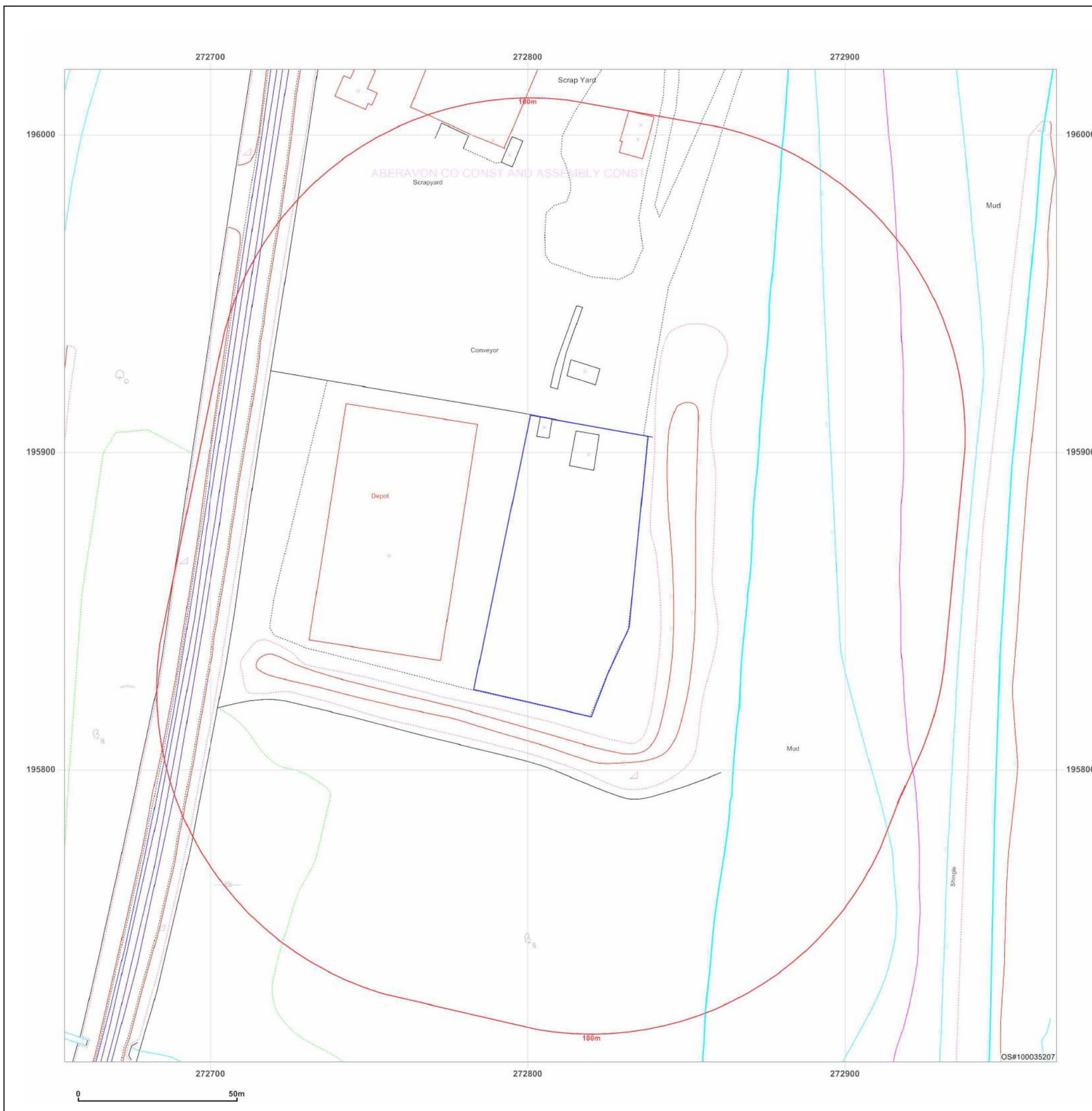


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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

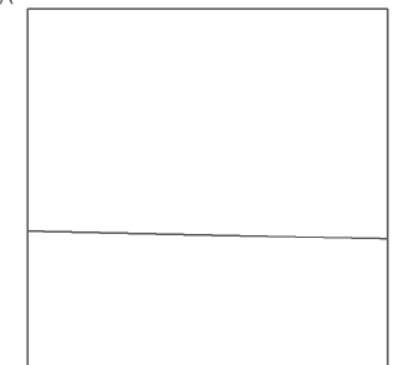
Map date: 1877

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
 Revised 1877
 Edition N/A
 Copyright N/A
 Levelled N/A

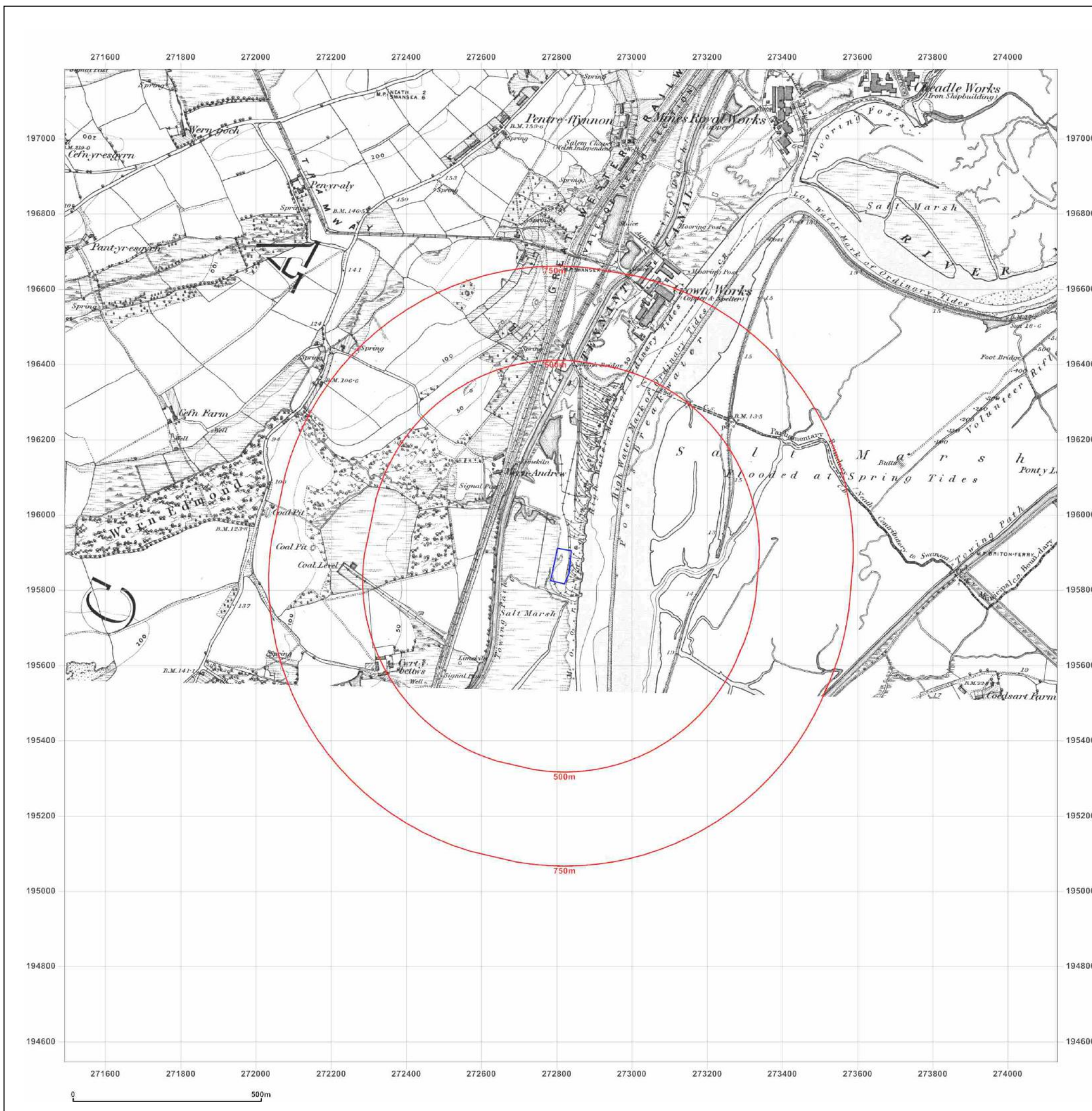


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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1884

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
 Revised N/A
 Edition 1884
 Copyright N/A
 Levelled N/A

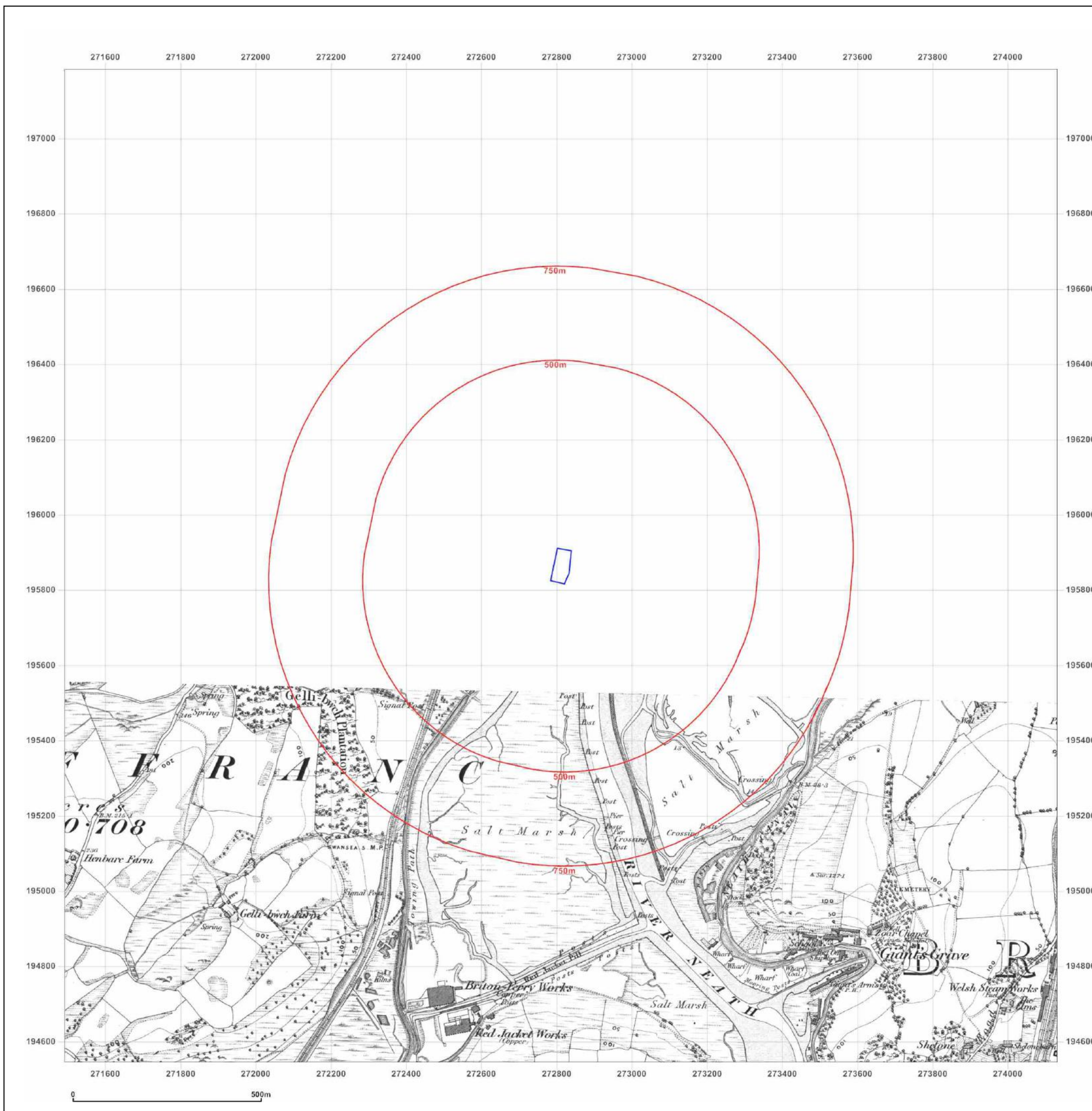


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Site Details:

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 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1897-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
 Revised 1897
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1877
 Revised 1897
 Edition 1900
 Copyright N/A
 Levelled N/A

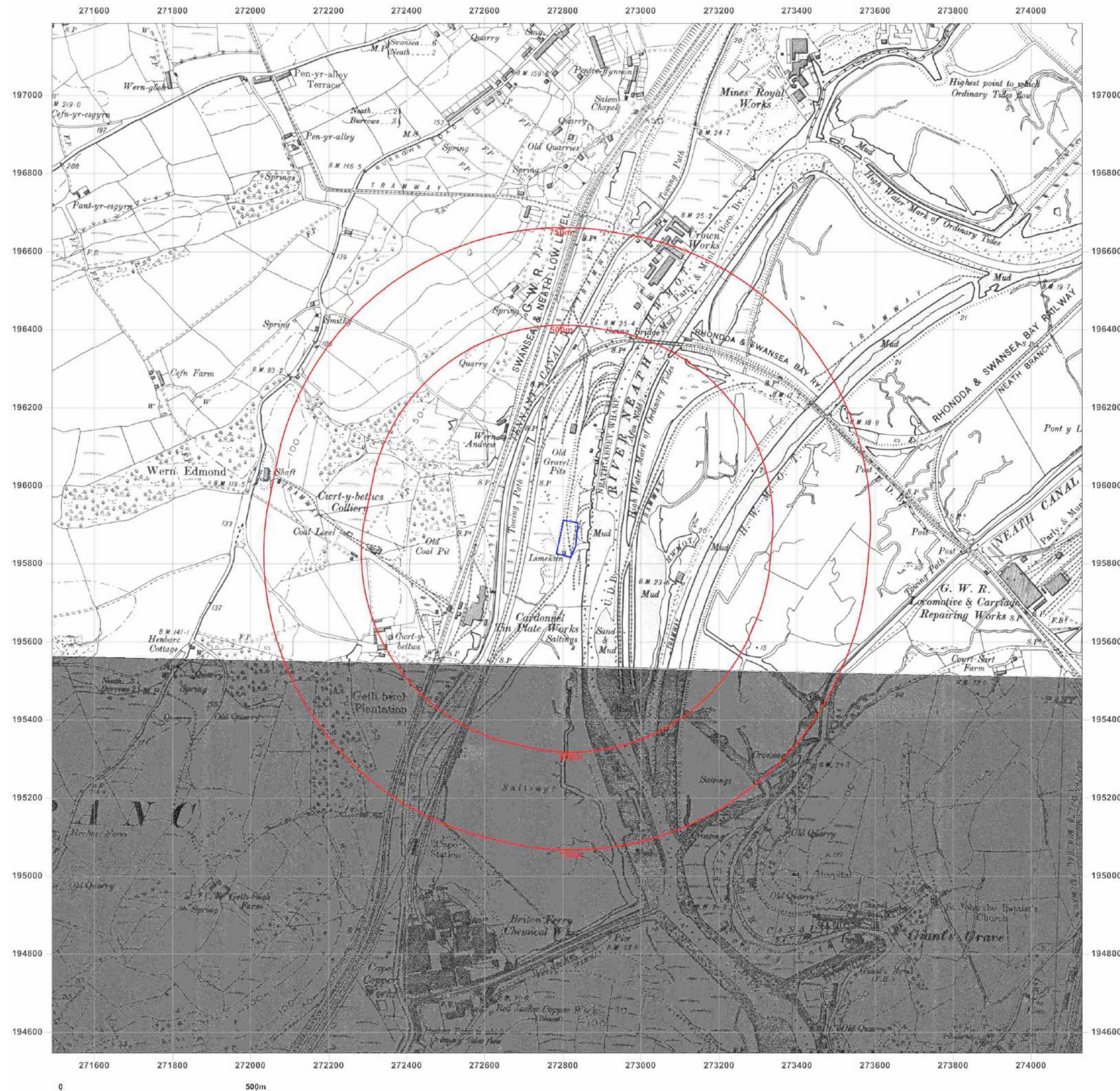


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Site Details:

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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
 Revised 1914
 Edition 1914
 Copyright N/A
 Levelled N/A

Surveyed 1875
 Revised 1914
 Edition N/A
 Copyright N/A
 Levelled N/A

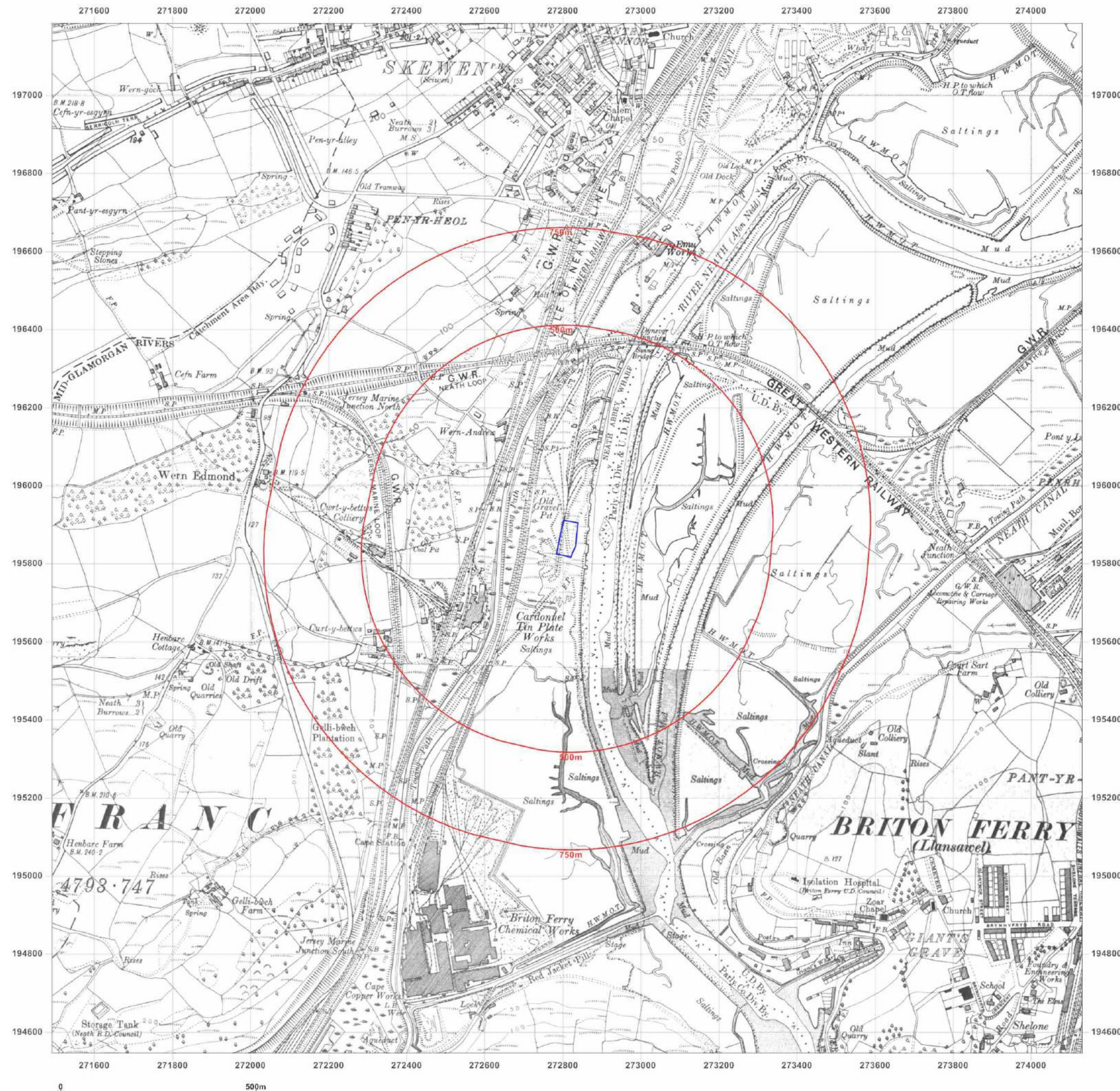


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Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
 Revised 1914
 Edition 1921
 Copyright N/A
 Levelled 1914

Surveyed 1877
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

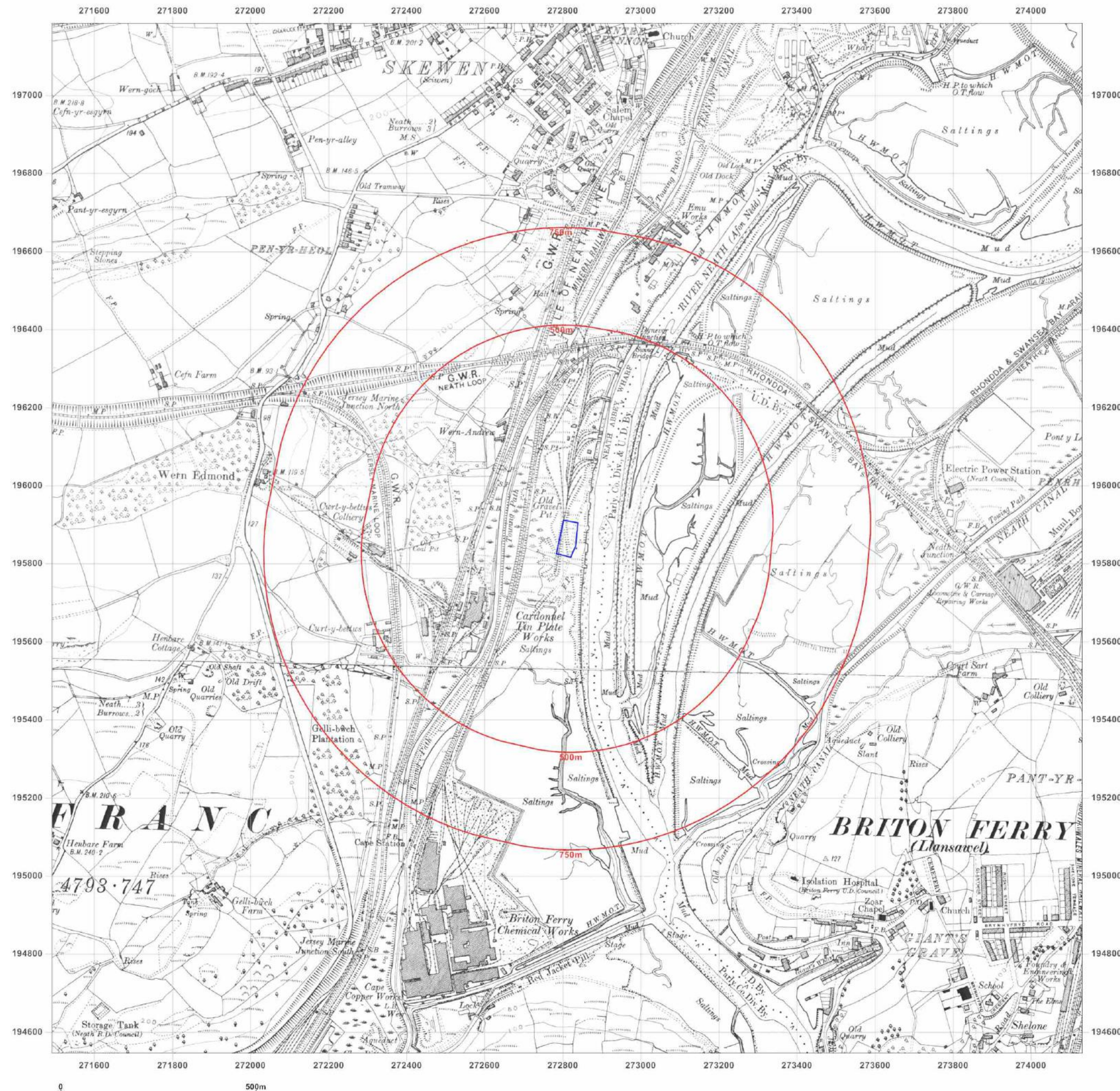


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Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
 Revised 1914
 Edition 1921
 Copyright N/A
 Levelled N/A

Surveyed 1875
 Revised 1914
 Edition 1921
 Copyright N/A
 Levelled N/A

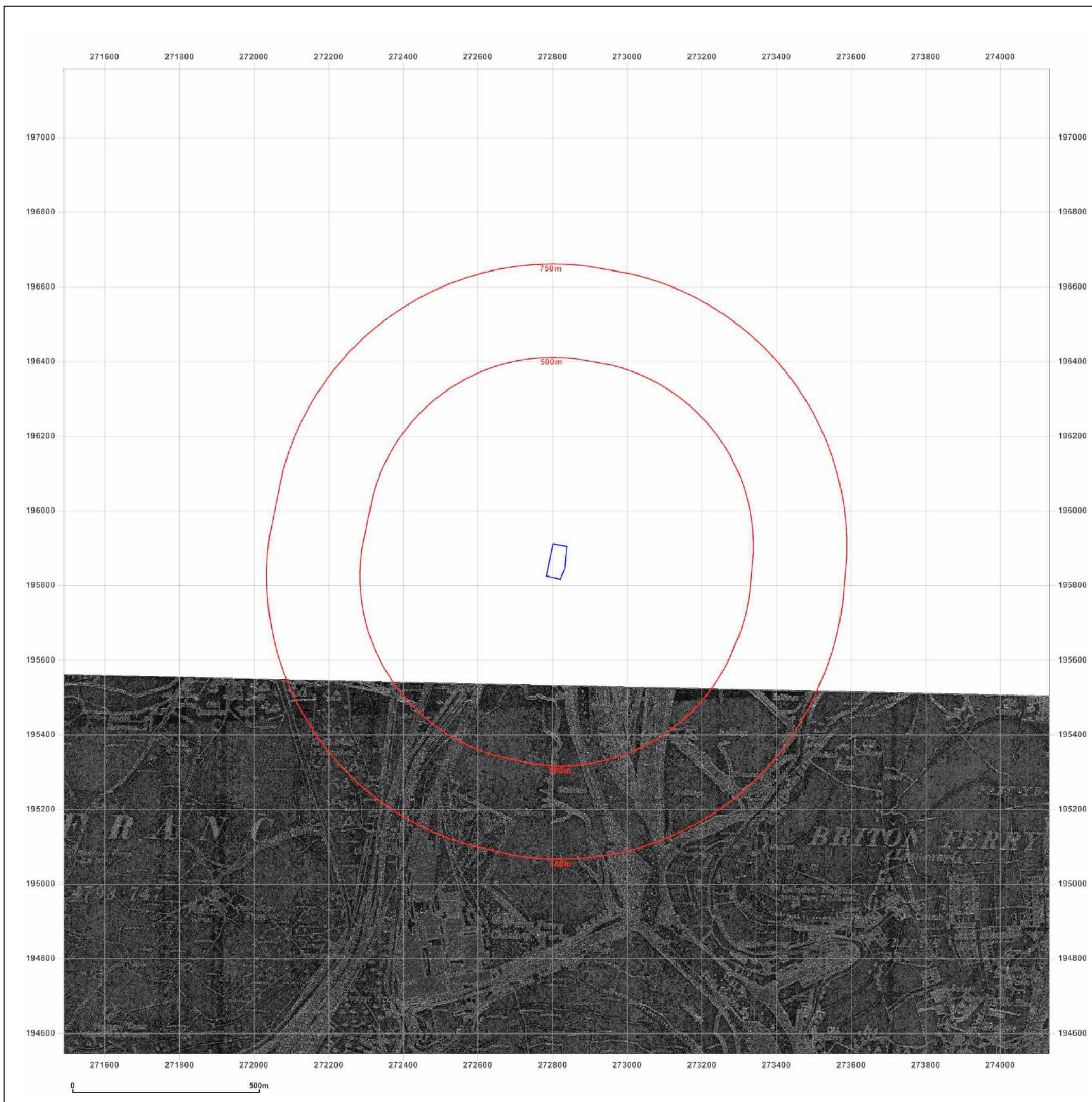


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Site Details:

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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
 Revised 1914
 Edition 1921
 Copyright N/A
 Levelled N/A

Surveyed 1877
 Revised 1914
 Edition 1921
 Copyright N/A
 Levelled 1914

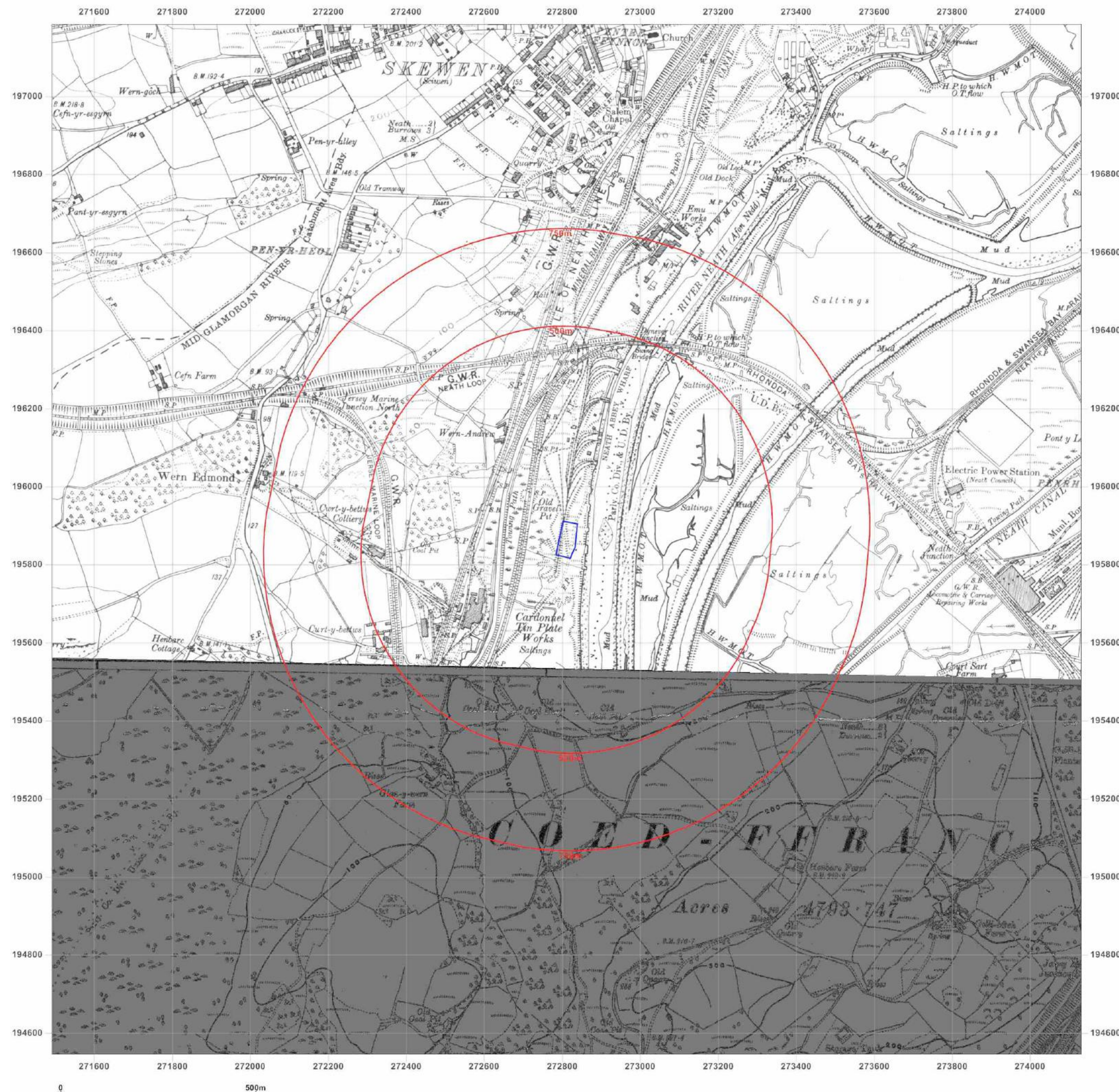


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Site Details:

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 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

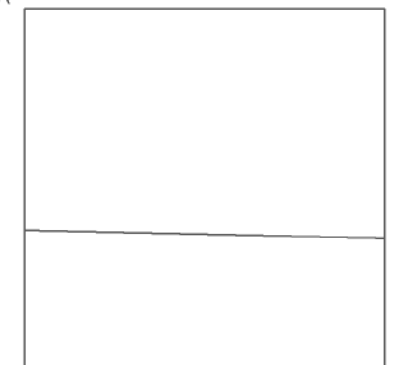
Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

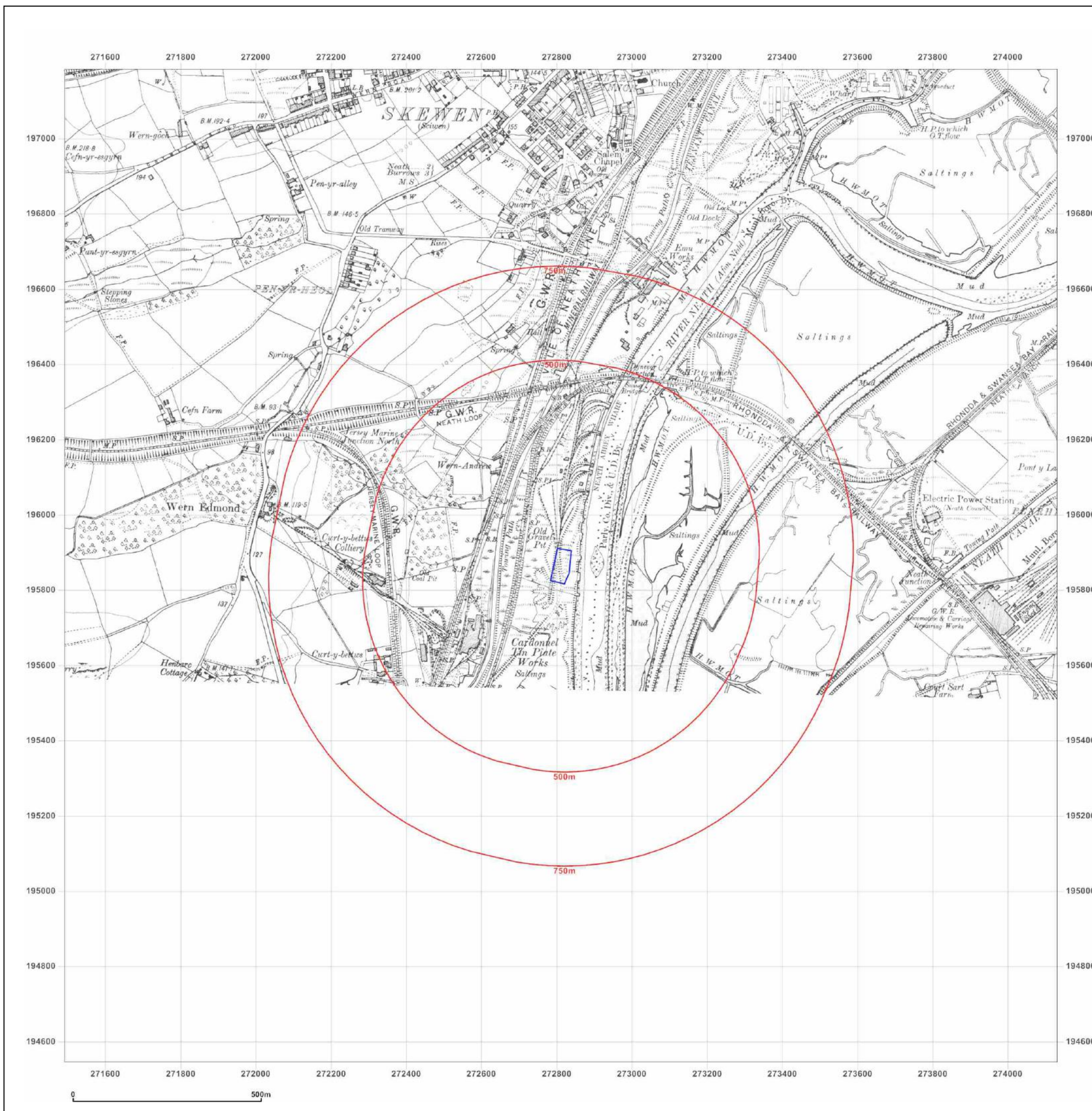


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Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
 Revised 1938
 Edition 1938
 Copyright N/A
 Levelled N/A

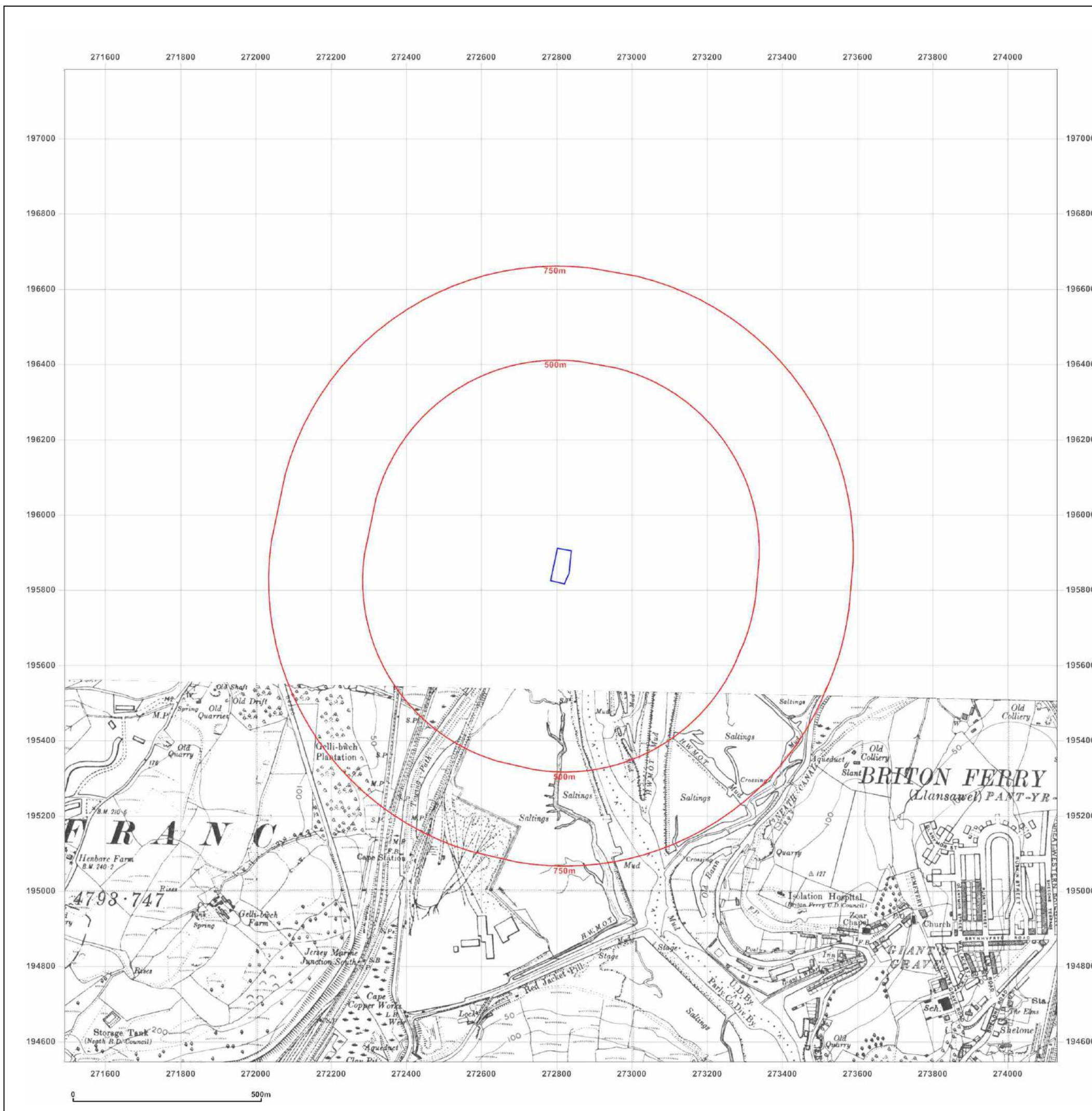


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Site Details:

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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
 Revised 1948
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1875
 Revised 1948
 Edition N/A
 Copyright N/A
 Levelled N/A

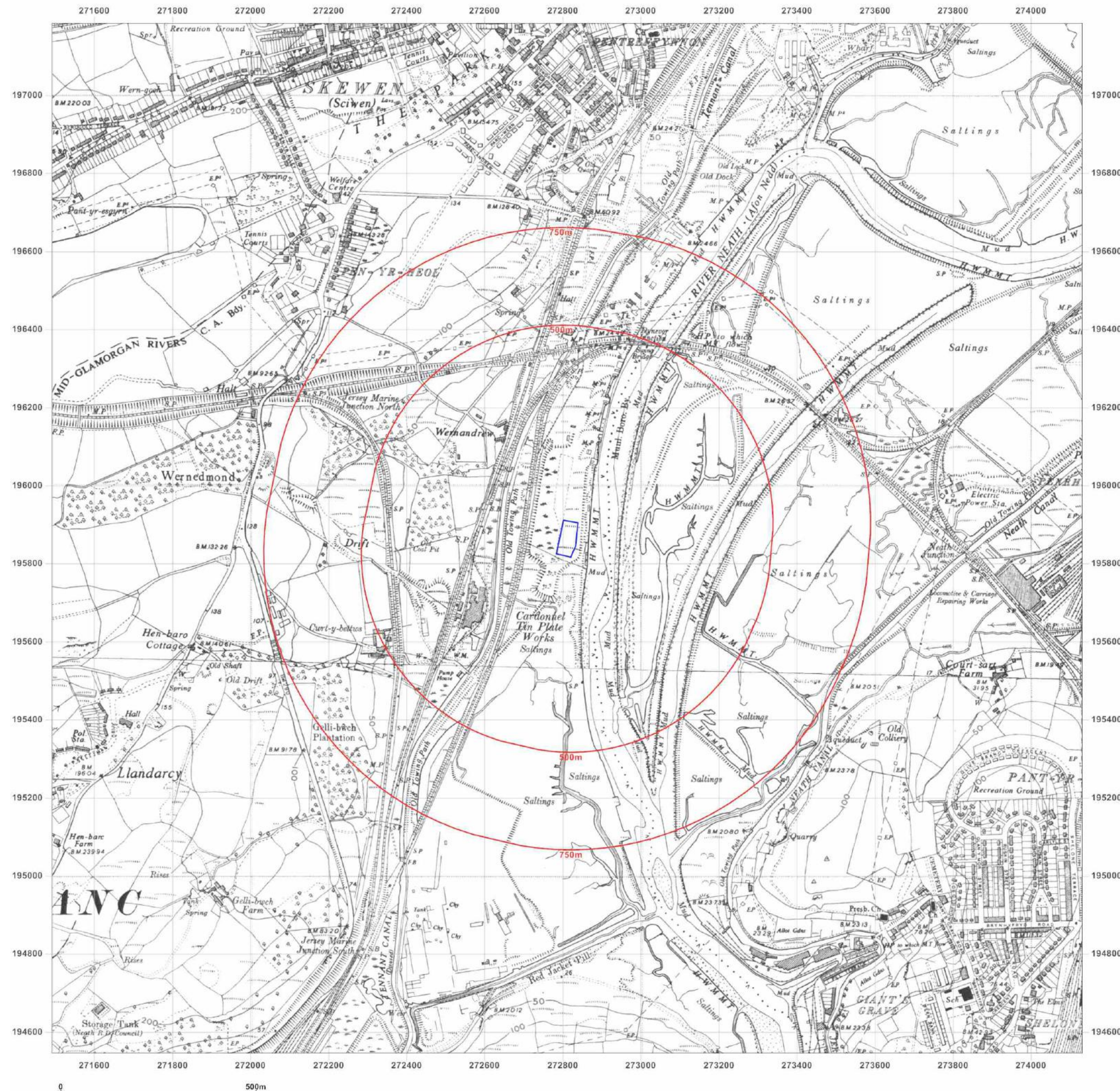


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Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: Provisional

Map date: 1962-1964

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
 Revised 1964
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1962
 Revised 1962
 Edition N/A
 Copyright N/A
 Levelled N/A

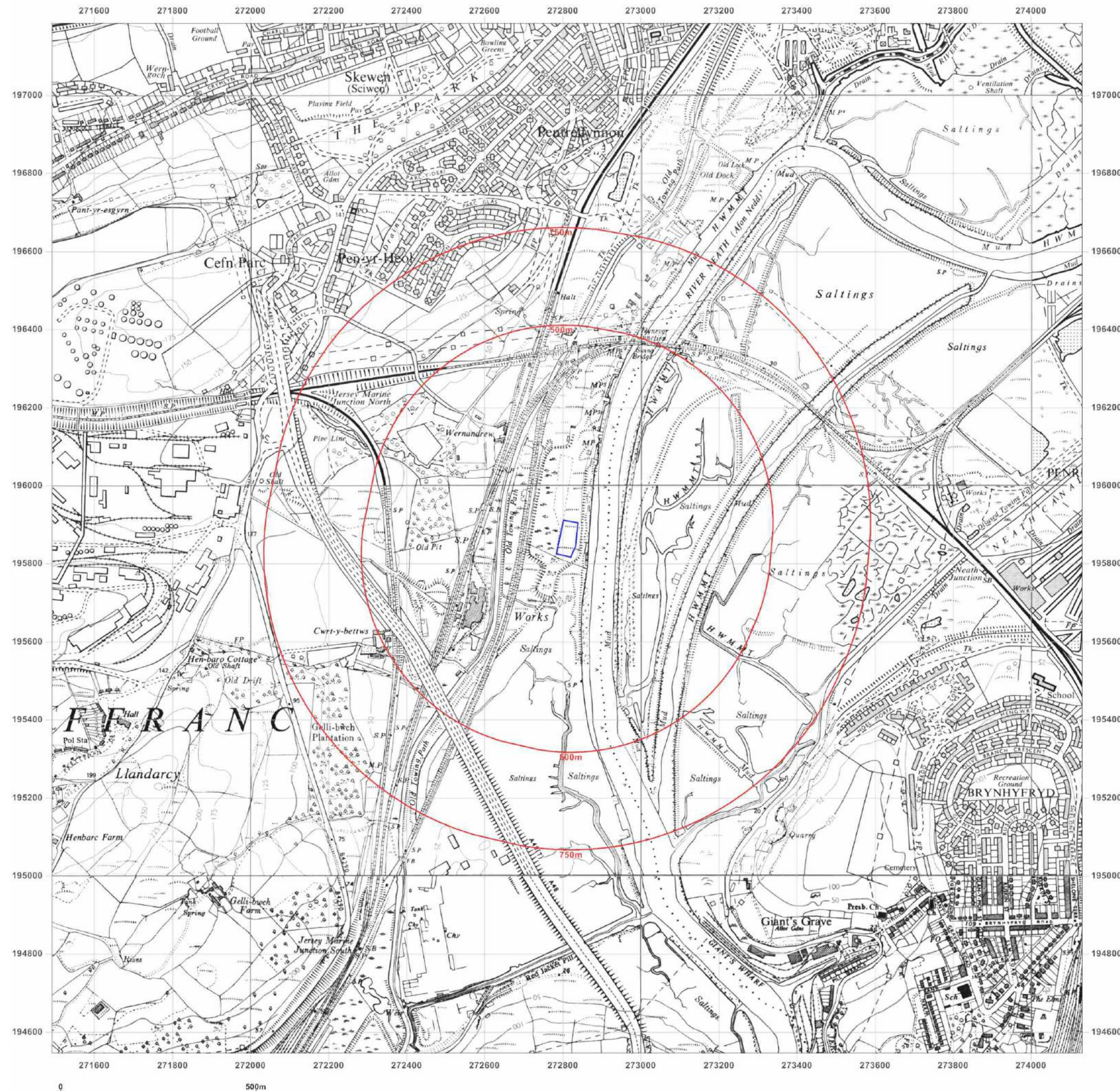


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Production date: 28 April 2020

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Site Details:

MORRIS METALS, NEATH
 ABBEY WHARF, SKEWEN,
 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: Provisional

Map date: 1967

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1962
 Revised 1967
 Edition N/A
 Copyright 1965
 Levelled N/A

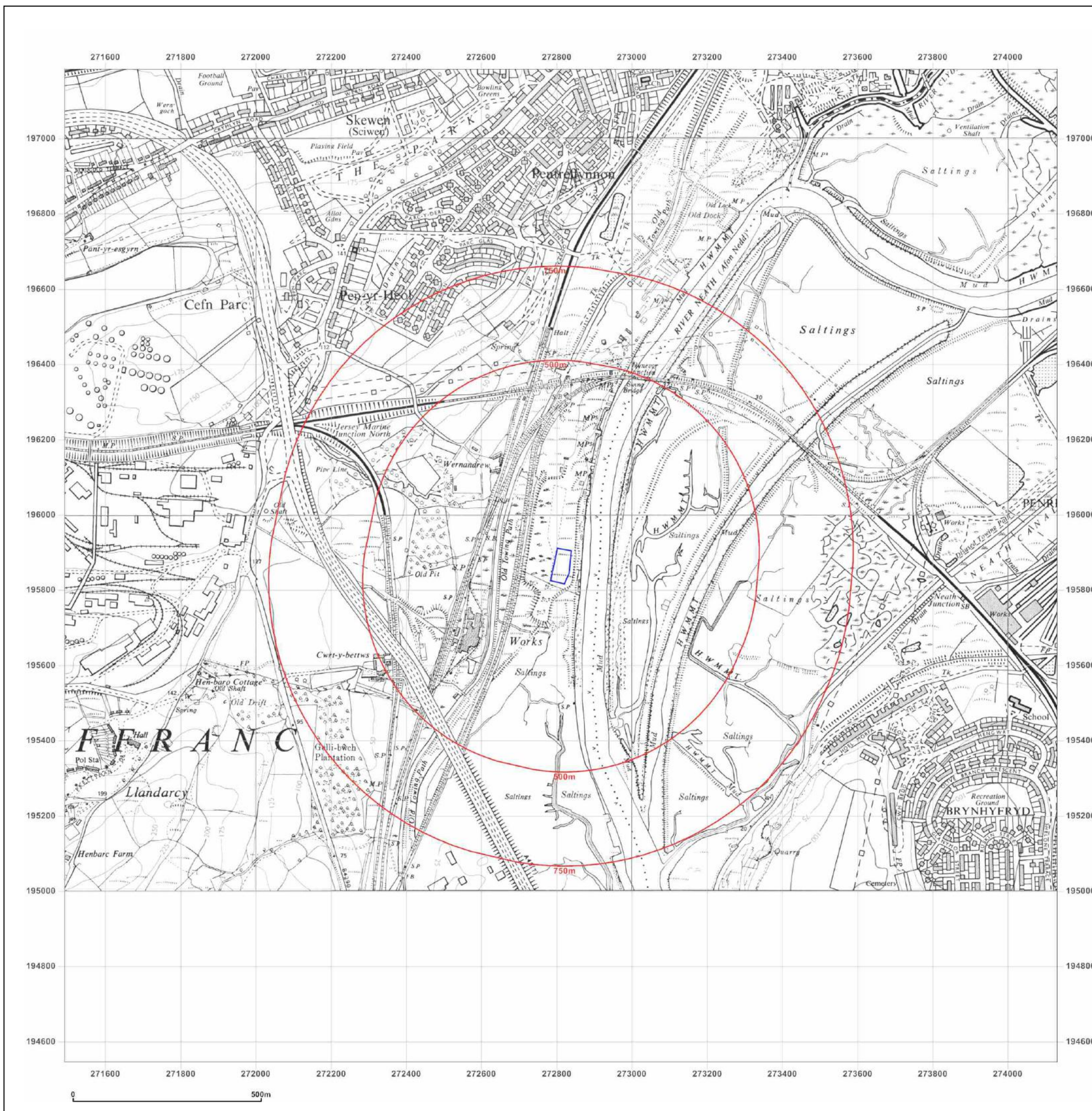


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Site Details:

MORRIS METALS, NEATH
ABBAY WHARF, SKEWEN,
SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1976
Revised 1980
Edition N/A
Copyright 1980
Levelled 1978

Surveyed 1977
Revised 1979
Edition N/A
Copyright 1980
Levelled 1978

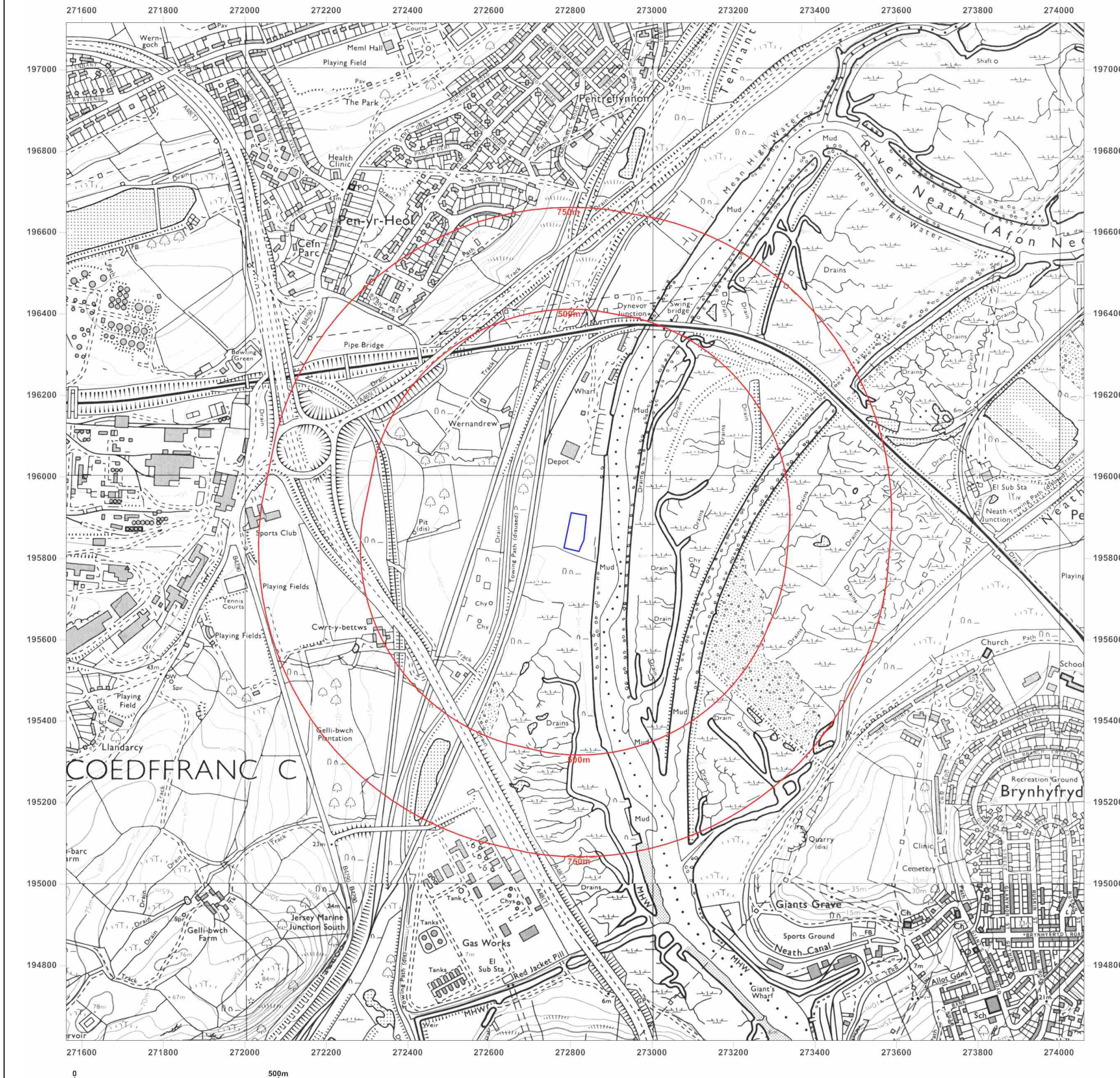


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Site Details:

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 SA10 6BL

Client Ref: 20103
Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

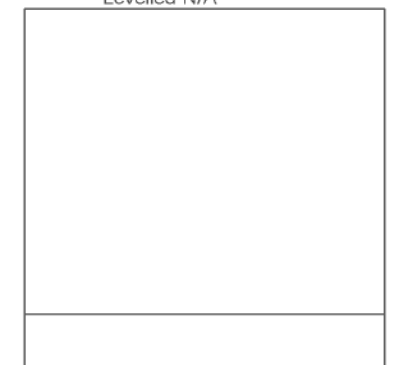
Map date: 1992

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1989
 Revised 1992
 Edition N/A
 Copyright N/A
 Levelled N/A

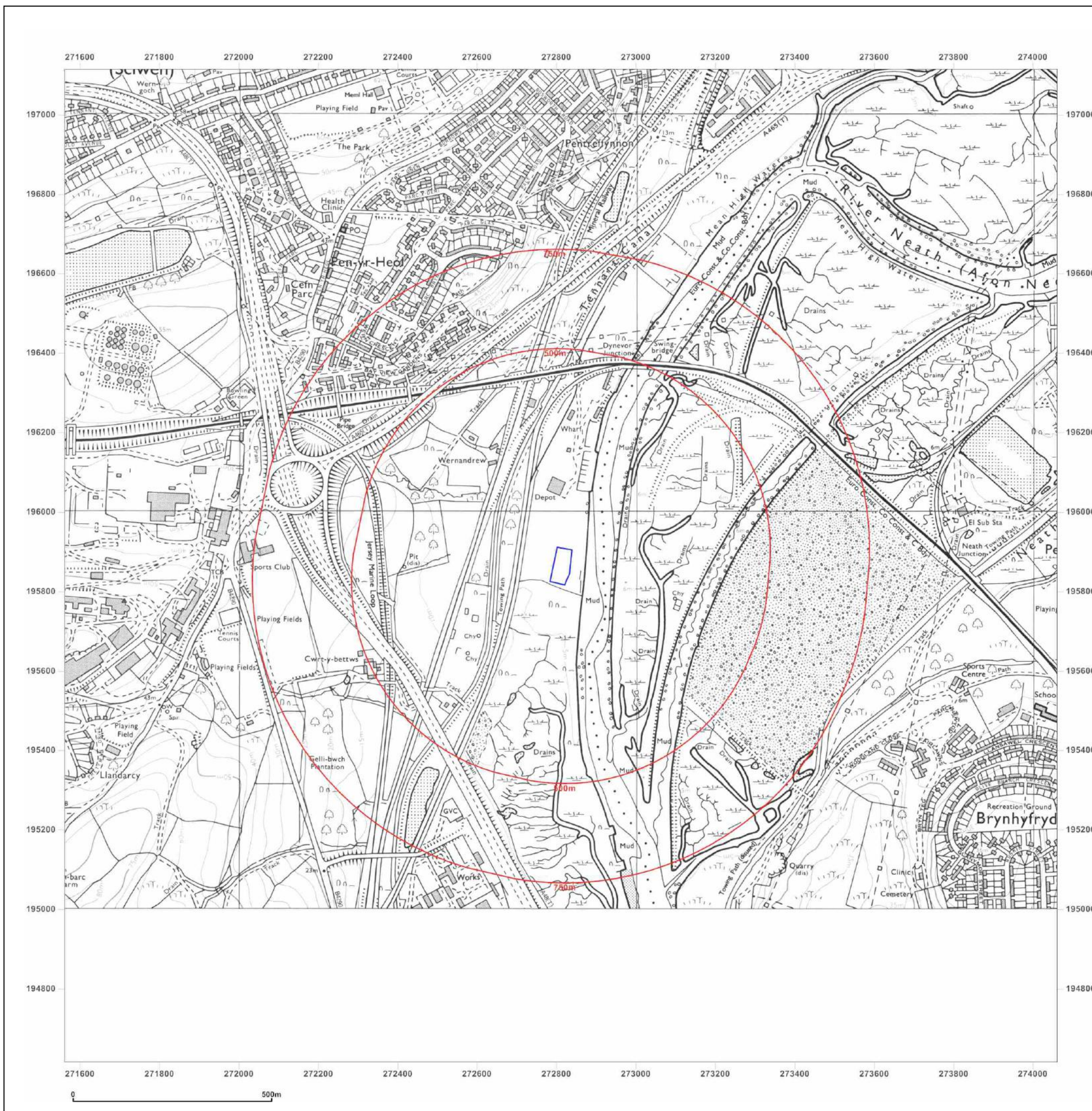


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Site Details:

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 SA10 6BL

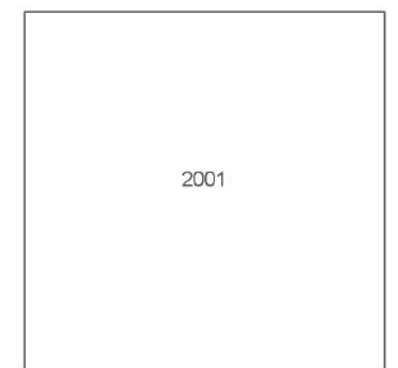
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Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

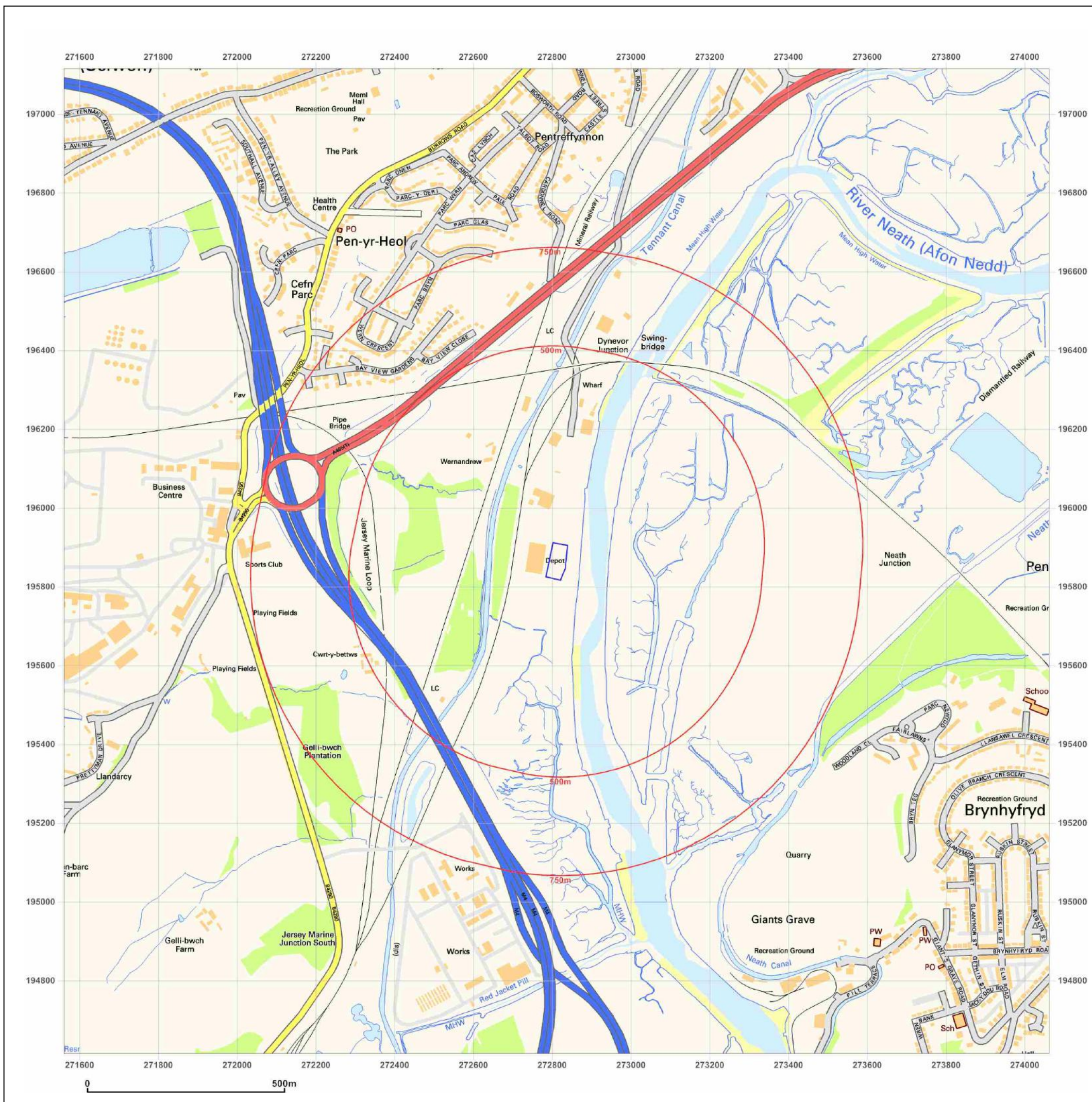


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Site Details:

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 SA10 6BL

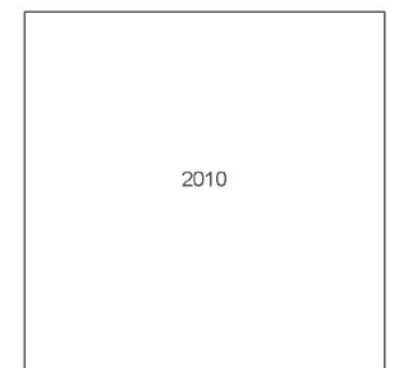
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Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

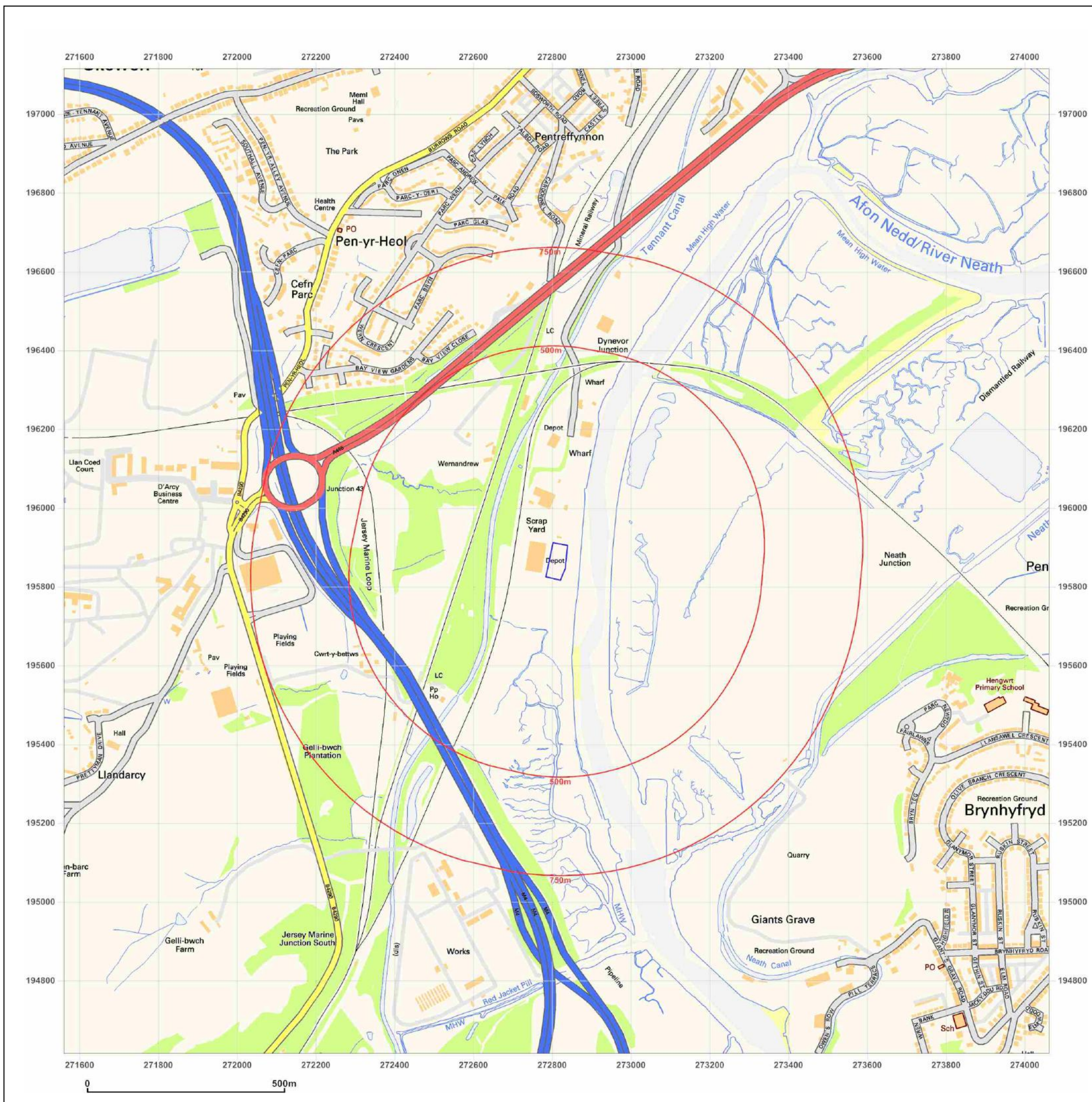


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Site Details:

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 ABBEY WHARF, SKEWEN,
 SA10 6BL

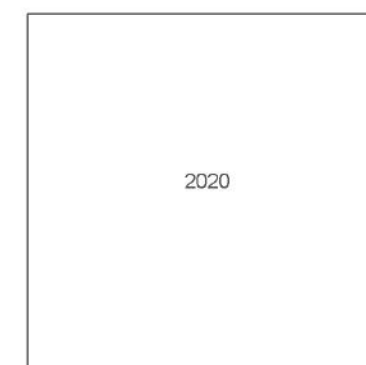
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Report Ref: GS-6750289
Grid Ref: 272810, 195864

Map Name: National Grid

Map date: 2020

Scale: 1:10,000

Printed at: 1:10,000

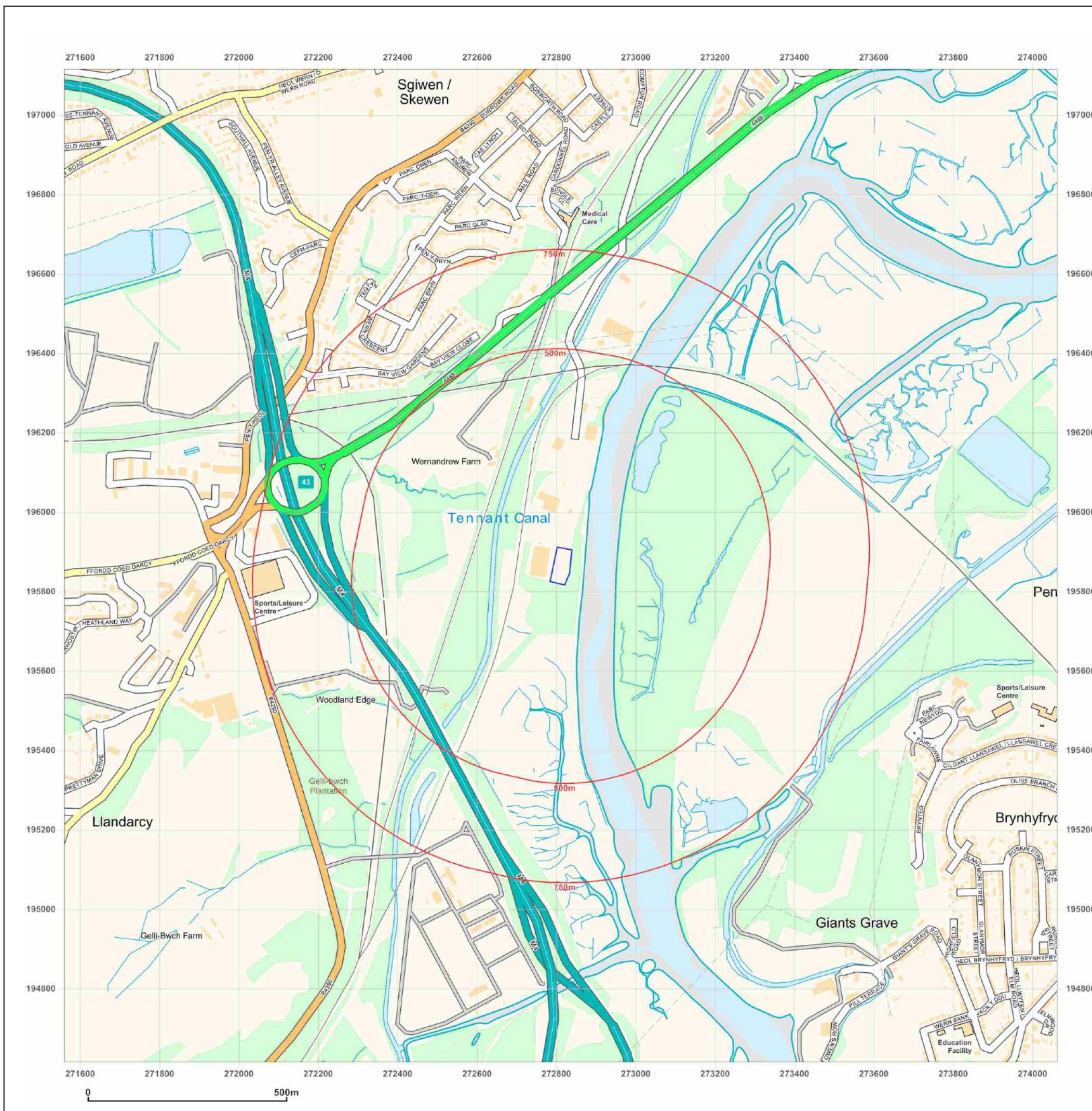


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Production date: 28 April 2020

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APPENDIX C

Environmental Data Report

Groundsure Enviro & Geo Insight Report Number GS-6750290

MORRIS METALS, NEATH ABBEY WHARF, SKEWEN, SA10 6BL**Order Details**

Date: 28/04/2020
Your ref: 20103
Our Ref: GS-6750290
Client: Silkstone Environmental Ltd

Site Details

Location: 272816 195875
Area: 0.36 ha
Authority: [Castell-nedd Port Talbot - Neath Port Talbot County Borough](#)

**Summary of findings**

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	10	10	45	115	-
20	1.2	Historical tanks	0	0	0	0	-
20	1.3	Historical energy features	0	0	0	0	-
21	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	0	-
21	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
22	2.1	<u>Historical industrial land uses</u>	10	13	54	137	-
30	2.2	Historical tanks	0	0	0	0	-
30	2.3	Historical energy features	0	0	0	0	-
31	2.4	Historical petrol stations	0	0	0	0	-
31	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
32	3.1	<u>Active or recent landfill</u>	0	0	2	0	-
33	3.2	Historical landfill (BGS records)	0	0	0	0	-
33	3.3	<u>Historical landfill (LA/mapping records)</u>	0	0	0	4	-
33	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	0	2	-
34	3.5	<u>Historical waste sites</u>	3	0	9	0	-
37	3.6	<u>Licensed waste sites</u>	0	17	14	8	-
47	3.7	<u>Waste exemptions</u>	0	0	8	4	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
50	4.1	<u>Recent industrial land uses</u>	0	1	5	-	-
51	4.2	Current or recent petrol stations	0	0	0	0	-
51	4.3	Electricity cables	0	0	0	0	-
51	4.4	Gas pipelines	0	0	0	0	-
51	4.5	Sites determined as Contaminated Land	0	0	0	0	-



52	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
52	4.7	Regulated explosive sites	0	0	0	0	-
52	4.8	Hazardous substance storage/usage	0	0	0	0	-
52	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
52	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
53	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	0	1	-
53	4.12	Radioactive Substance Authorisations	0	0	0	0	-
53	4.13	<u>Licensed Discharges to controlled waters</u>	0	1	1	1	-
54	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
54	4.15	Pollutant release to public sewer	0	0	0	0	-
54	4.16	List 1 Dangerous Substances	0	0	0	0	-
55	4.17	List 2 Dangerous Substances	0	0	0	0	-
55	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	4	7	14	-
58	4.19	Pollution inventory substances	0	0	0	0	-
58	4.20	Pollution inventory waste transfers	0	0	0	0	-
58	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
59	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
61	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
62	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
63	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
63	5.5	Groundwater vulnerability- local information	None (within 0m)				
64	5.6	Groundwater abstractions	0	0	0	0	0
65	5.7	<u>Surface water abstractions</u>	0	0	0	0	4
66	5.8	Potable abstractions	0	0	0	0	0
66	5.9	Source Protection Zones	0	0	0	0	-
66	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
67	6.1	<u>Water Network (OS MasterMap)</u>	0	0	31	-	-



70	6.2	<u>Surface water features</u>	0	0	14	-	-
70	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
71	6.4	<u>WFD Surface water bodies</u>	0	1	1	-	-
71	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
72	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
73	7.2	Historical Flood Events	0	0	0	-	-
73	7.3	Flood Defences	0	0	0	-	-
73	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
73	7.5	Flood Storage Areas	0	0	0	-	-
74	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
75	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
76	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
78	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
79	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	6
80	10.2	<u>Conserved wetland sites (Ramsar sites)</u>	0	0	0	0	1
81	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	1
82	10.4	Special Protection Areas (SPA)	0	0	0	0	0
82	10.5	<u>National Nature Reserves (NNR)</u>	0	0	0	0	1
82	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	1
82	10.7	<u>Designated Ancient Woodland</u>	0	0	0	2	22
84	10.8	Biosphere Reserves	0	0	0	0	0
84	10.9	Forest Parks	0	0	0	0	0
84	10.10	Marine Conservation Zones	0	0	0	0	0
84	10.11	Green Belt	0	0	0	0	0
84	10.12	Proposed Ramsar sites	0	0	0	0	0



85	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
85	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
85	10.15	Nitrate Sensitive Areas	0	0	0	0	0
85	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
86	10.17	SSSI Impact Risk Zones	0	-	-	-	-
86	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
87	11.1	World Heritage Sites	0	0	0	-	-
88	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
88	11.3	National Parks	0	0	0	-	-
88	11.4	Listed Buildings	0	0	1	-	-
89	11.5	Conservation Areas	0	0	0	-	-
89	11.6	Scheduled Ancient Monuments	0	0	0	-	-
89	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
90	12.1	Agricultural Land Classification	Grade 3b (within 250m)				
91	12.2	Open Access Land	0	0	0	-	-
91	12.3	Tree Felling Licences	0	0	0	-	-
91	12.4	Environmental Stewardship Schemes	0	0	0	-	-
91	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
92	13.1	Priority Habitat Inventory	0	0	0	-	-
92	13.2	Habitat Networks	0	0	0	-	-
92	13.3	Open Mosaic Habitat	0	0	0	-	-
92	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
93	14.1	10k Availability	Identified (within 500m)				
94	14.2	Artificial and made ground (10k)	3	2	4	14	-
96	14.3	Superficial geology (10k)	1	0	3	0	-

97	14.4	Landslip (10k)	0	0	0	0	-
98	14.5	<u>Bedrock geology (10k)</u>	1	0	4	7	-
99	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	3	4	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
100	15.1	<u>50k Availability</u>	Identified (within 500m)				
101	15.2	<u>Artificial and made ground (50k)</u>	0	0	1	5	-
102	15.3	Artificial ground permeability (50k)	0	0	-	-	-
103	15.4	<u>Superficial geology (50k)</u>	1	0	1	0	-
104	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
104	15.6	Landslip (50k)	0	0	0	0	-
104	15.7	Landslip permeability (50k)	None (within 50m)				
105	15.8	<u>Bedrock geology (50k)</u>	1	0	4	6	-
106	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
106	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	3	4	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
108	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
109	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
110	17.2	<u>Running sands</u>	Moderate (within 50m)				
111	17.3	<u>Compressible deposits</u>	Moderate (within 50m)				
112	17.4	<u>Collapsible deposits</u>	Negligible (within 50m)				
113	17.5	<u>Landslides</u>	Low (within 50m)				
115	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
117	18.1	Natural cavities	0	0	0	0	-
118	18.2	<u>BritPits</u>	0	0	2	1	-
118	18.3	<u>Surface ground workings</u>	3	13	45	-	-
121	18.4	<u>Underground workings</u>	0	0	0	8	14
122	18.5	Historical Mineral Planning Areas	0	0	0	0	-



122	18.6	Non-coal mining	0	0	0	0	0
122	18.7	Mining cavities	0	0	0	0	0
123	18.8	JPB mining areas	None (within 0m)				
123	18.9	<u>Coal mining</u>	Identified (within 0m)				
123	18.10	Brine areas	None (within 0m)				
123	18.11	Gypsum areas	None (within 0m)				
123	18.12	Tin mining	None (within 0m)				
124	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
125	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
126	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	0	-	-	-
126	20.2	<u>BGS Estimated Urban Soil Chemistry</u>	4	2	-	-	-
127	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
128	21.1	Underground railways (London)	0	0	0	-	-
128	21.2	Underground railways (Non-London)	0	0	0	-	-
129	21.3	Railway tunnels	0	0	0	-	-
129	21.4	<u>Historical railway and tunnel features</u>	9	0	16	-	-
130	21.5	Royal Mail tunnels	0	0	0	-	-
130	21.6	<u>Historical railways</u>	0	0	1	-	-
131	21.7	<u>Railways</u>	0	0	8	-	-
131	21.8	Crossrail 1	0	0	0	0	-
131	21.9	Crossrail 2	0	0	0	0	-
132	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2020. All Rights Reserved.

Capture Date: 26/05/2017

Site Area: 0.36ha



Recent site history - 2014 aerial photograph



Capture Date: 23/07/2014

Site Area: 0.36ha



Recent site history - 2009 aerial photograph



Capture Date: 12/10/2009

Site Area: 0.36ha



Recent site history - 2000 aerial photograph



Capture Date: 18/06/2000

Site Area: 0.36ha



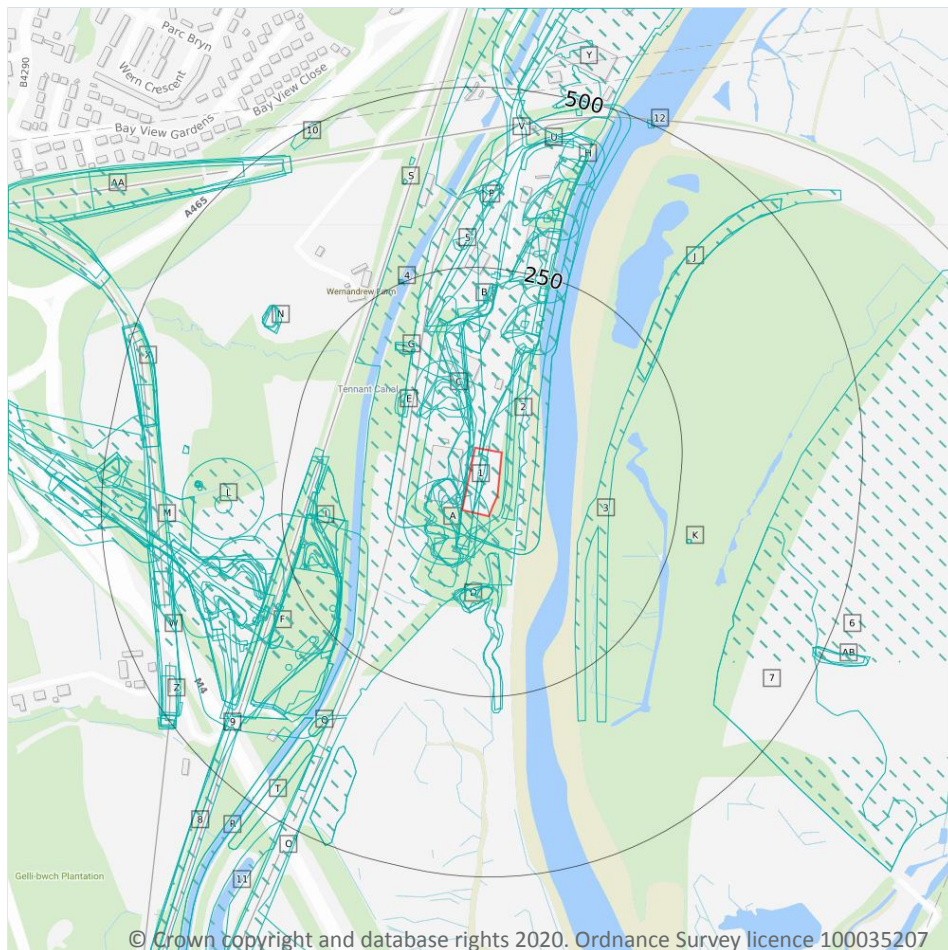
OS MasterMap site plan



Site Area: 0.36ha



1 Past land use



— Site Outline
Search buffers in metres (m)
Historical industrial land uses

1.1 Historical industrial land uses

Records within 500m

180

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Ground Workings	1877	373619



ID	Location	Land use	Dates present	Group ID
A	On site	Lime Kiln	1897	331874
B	On site	Mineral Railway Sidings	1914	343357
B	On site	Mineral Railway Sidings	1914	343721
B	On site	Railway Sidings	1921	344979
B	On site	Railway Sidings	1914	345812
B	On site	Unspecified Wharf	1992	347561
B	On site	Tramway Sidings	1897	356672
B	On site	Unspecified Wharf	1978	372067
B	On site	Railway Sidings	1877	380062
A	0m W	Unspecified Ground Workings	1914 - 1921	339852
A	3m W	Unspecified Ground Workings	1914	371415
C	3m W	Old Gravel Pit	1914	358956
A	6m W	Unspecified Heaps	1914	322232
A	6m E	Unspecified Ground Workings	1948	342939
2	8m E	Unspecified Ground Workings	1964	354910
A	10m W	Unspecified Heap	1897	327147
A	18m S	Unspecified Heap	1897	327146
B	25m N	Refuse Heap	1914	367172
C	45m N	Old Gravel Pit	1897 - 1914	342599
D	51m S	Unspecified Ground Workings	1914 - 1948	340825
D	51m S	Unspecified Ground Workings	1914	344430
C	57m N	Old Gravel Pit	1914	341339
C	76m N	Old Gravel Pit	1921	356136
D	97m S	Unspecified Ground Workings	1948	347955
D	97m S	Unspecified Ground Workings	1914	352833
D	98m S	Unspecified Ground Workings	1964	372589
E	104m NW	Unspecified Heap	1921	327148
E	108m NW	Unspecified Ground Workings	1948	333772



ID	Location	Land use	Dates present	Group ID
3	125m E	Tramway Sidings	1897	324126
B	131m N	Unspecified Depot	1978	358552
B	131m N	Unspecified Depot	1992	374598
F	140m W	Tin Plate Works	1914	376288
B	144m N	Unspecified Wharf	1914	364015
G	156m NW	Unspecified Heap	1914	373521
B	156m N	Unspecified Pit	1948	335593
G	157m NW	Unspecified Heap	1948	379974
F	159m W	Tin Plate Works	1948	350952
F	162m W	Unspecified Works	1964	320886
F	163m W	Tin Plate Works	1897	342878
F	163m W	Railway Sidings	1897	367655
H	170m N	Unspecified Wharf	1914	339654
B	175m N	Railway Building	1921	323495
B	176m N	Unspecified Pit	1948 - 1964	352050
B	182m N	Unspecified Ground Workings	1948	333773
I	184m W	Unspecified Heap	1897	327145
F	188m W	Railway Sidings	1914 - 1921	372862
F	190m W	Railway Sidings	1964	356284
F	191m SW	Tin Plate Works	1914	368043
F	193m W	Railway Sidings	1938 - 1948	358647
F	193m W	Tin Plate Works	1914 - 1921	364591
F	195m SW	Railway Sidings	1914	361508
I	200m W	Refuse Heap	1914	353164
B	201m N	Railway Building	1921	323510
I	202m W	Refuse Heap	1914	351610
I	204m W	Refuse Heap	1914	379342
B	214m N	Unspecified Wharf	1914	372216



ID	Location	Land use	Dates present	Group ID
F	221m SW	Chimney	1978	331644
J	222m NE	Unspecified Heaps	1978	348602
J	222m NE	Unspecified Heaps	1964	367489
I	223m W	Railway Building	1921	323517
B	225m N	Unspecified Ground Workings	1948	333775
B	236m N	Railway Building	1921	323496
H	240m N	Mineral Railway Sidings	1914	371450
4	249m NW	Lime Kiln	1877	331873
F	259m W	Unspecified Commercial/Industrial	1921	331147
F	260m W	Unspecified Ground Workings	1914	346612
F	266m SW	Refuse Heap	1914	338709
F	270m SW	Chimney	1978	331646
K	270m E	Chimney	1978	341035
K	270m E	Chimney	1992	355125
5	274m N	Unspecified Pit	1897	335594
B	275m N	Railway Buildings	1921	319095
L	275m W	Unspecified Old Pit	1964	329029
F	281m SW	Railway Building	1914 - 1921	358641
F	285m W	Unspecified Heaps	1964	322231
M	285m SW	Tramway Sidings	1897	324125
M	285m SW	Colliery	1897 - 1914	357168
F	286m W	Unspecified Ground Workings	1948	379909
F	294m W	Refuse Heap	1914	352719
F	295m W	Refuse Heap	1914	349962
M	296m SW	Railway Sidings	1877	362762
F	299m SW	Railway Sidings	1897	346169
F	299m W	Railway Sidings	1914	339617
F	301m SW	Railway Buildings	1914	319097



ID	Location	Land use	Dates present	Group ID
F	304m SW	Unspecified Ground Workings	1948	333783
H	305m N	Unspecified Wharf	1914	364016
F	306m SW	Unspecified Heap	1914	367855
H	315m N	Unspecified Ground Workings	1948	333777
N	317m NW	Unspecified Heap	1877	341336
L	320m W	Old Coal Pit	1914	379775
F	320m SW	Lime Kiln	1877	331875
N	320m NW	Unspecified Heap	1921 - 1948	375631
N	325m NW	Unspecified Heap	1914	366885
N	326m NW	Unspecified Ground Workings	1914	342661
O	330m SW	Railway Sidings	1897	367263
F	331m SW	Refuse Heap	1914	359188
F	332m SW	Refuse Heap	1914	353050
P	335m N	Unspecified Heap	1964	327151
P	335m N	Unspecified Ground Workings	1948	333774
H	337m N	Railway Buildings	1877	319096
F	344m W	Refuse Heap	1877	364613
Q	345m SW	Unspecified Pit	1948	340781
Q	345m SW	Unspecified Pit	1897	363445
Q	345m SW	Unspecified Pit	1914	371331
F	347m SW	Railway Sidings	1914	366215
F	349m SW	Railway Building	1914	323516
P	353m N	Unspecified Heap	1877	327150
P	355m N	Unspecified Pit	1964	335595
R	355m SW	Disused Canal	1938 - 1963	367935
R	355m SW	Disused Canal	1897	375406
L	362m W	Old Coal Pit	1921	380130
L	362m W	Old Coal Pit	1897	365424



ID	Location	Land use	Dates present	Group ID
6	364m E	Refuse Heap	1992	366407
7	364m E	Refuse Heap	1978	371079
L	365m W	Unspecified Disused Pit	1978	356178
L	365m W	Unspecified Disused Pit	1992	366781
L	366m W	Old Coal Pit	1948	346469
L	366m W	Old Coal Pit	1914	359493
Q	366m SW	Refuse Heap	1992	359335
Q	366m SW	Refuse Heap	1978	365765
F	371m SW	Railway Building	1914	323518
Q	377m SW	Railway Building	1897	323515
S	377m N	Railway Building	1921	323508
O	381m SW	Railway Sidings	1938	354003
T	384m SW	Unspecified Heap	1948	355334
T	384m SW	Unspecified Heap	1914	364169
L	387m W	Old Coal Pit	1914	321394
Q	389m SW	Pump House	1948	322067
U	391m N	Unspecified Ground Workings	1948	333776
Q	394m SW	Cuttings	1921	336929
S	402m N	Railway Building	1964	323509
U	404m N	Railway Buildings	1877	319090
V	406m N	Railway Sidings	1914 - 1921	355610
W	407m W	Cuttings	1948	375370
W	407m W	Cuttings	1914 - 1921	378013
X	407m W	Mineral Railway Sidings	1992	332668
U	410m N	Unspecified Wharf	1914	355082
U	410m N	Unspecified Wharf	1914	376372
M	411m W	Cuttings	1978	369217
M	412m W	Railway Sidings	1914	378917



ID	Location	Land use	Dates present	Group ID
W	412m W	Cuttings	1914 - 1921	370281
8	415m SW	Railway Sidings	1897	356766
M	417m W	Cuttings	1964	365556
X	429m W	Cuttings	1948	339941
X	429m W	Cuttings	1914	341308
M	432m W	Colliery	1914 - 1921	351199
M	433m W	Railway Sidings	1921	360724
X	436m W	Cuttings	1914 - 1921	355895
M	437m W	Railway Sidings	1914	376354
X	441m W	Cuttings	1914	358441
X	441m W	Cuttings	1964	351897
9	441m SW	Railway Building	1921	323522
Y	445m N	Copper Works	1877	322724
Z	452m SW	Cuttings	1978	353749
AA	459m NW	Cuttings	1914	353800
AA	459m NW	Cuttings	1948	357810
AA	460m NW	Cuttings	1921	357137
Z	461m SW	Cuttings	1964	350275
M	467m W	Refuse Heap	1914	348712
AA	467m NW	Cuttings	1914	350524
Y	478m N	Railway Building	1948	323497
M	479m W	Railway Sidings	1914	351913
Y	483m N	Refuse Heap	1914	375026
Y	483m N	Refuse Heap	1914	356682
10	483m NW	Unspecified Quarry	1897	325331
AB	484m E	Unspecified Heap	1964	368002
AB	485m E	Unspecified Heap	1914	365943
Z	486m SW	Cuttings	1938	364394



ID	Location	Land use	Dates present	Group ID
M	487m W	Cuttings	1877	336925
AB	487m E	Unspecified Heap	1948	361026
Z	488m SW	Cutting Works	1948	353666
Z	488m SW	Cutting Works	1914	374372
11	492m SW	Disused Canal	1921	322861
Y	493m N	Refuse Heap	1948	359452
12	494m NE	Junction Station	1914	331012
Z	494m SW	Cuttings	1921	350284
AA	494m NW	Cuttings	1964	369320
V	499m N	Railway Sidings	1948	353324
M	499m W	Unspecified Pit	1914 - 1921	365967

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

0

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m**0**

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

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'.

This data is sourced from Ordnance Survey / Groundsure.

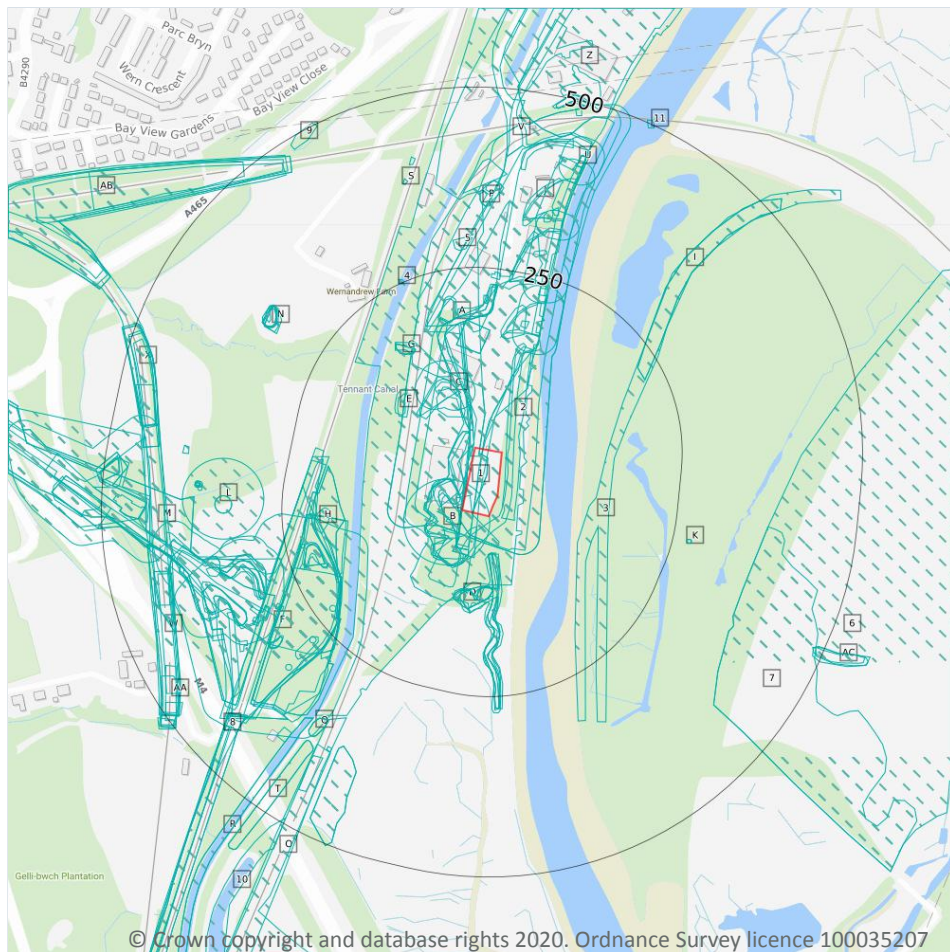
1.6 Historical military land

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

2.1 Historical industrial land uses

Records within 500m

214

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 22**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Ground Workings	1877	373619
A	On site	Tramway Sidings	1897	356672
A	On site	Mineral Railway Sidings	1914	343721

ID	Location	Land Use	Date	Group ID
A	On site	Railway Sidings	1921	344979
A	On site	Railway Sidings	1914	345812
A	On site	Railway Sidings	1877	380062
A	On site	Mineral Railway Sidings	1914	343357
A	On site	Unspecified Wharf	1992	347561
A	On site	Unspecified Wharf	1978	372067
B	On site	Lime Kiln	1897	331874
B	0m W	Unspecified Ground Workings	1914	339852
B	0m W	Unspecified Ground Workings	1914	339852
B	2m W	Unspecified Ground Workings	1921	339852
B	3m W	Unspecified Ground Workings	1914	371415
C	3m W	Old Gravel Pit	1914	358956
B	6m W	Unspecified Heaps	1914	322232
B	6m E	Unspecified Ground Workings	1948	342939
2	8m E	Unspecified Ground Workings	1964	354910
B	10m W	Unspecified Heap	1897	327147
B	18m S	Unspecified Heap	1897	327146
A	25m N	Refuse Heap	1914	367172
A	25m N	Refuse Heap	1914	367172
C	45m N	Old Gravel Pit	1897	342599
D	51m S	Unspecified Ground Workings	1914	340825
D	51m S	Unspecified Ground Workings	1914	340825
D	51m S	Unspecified Ground Workings	1914	344430
D	52m S	Unspecified Ground Workings	1948	340825
D	53m S	Unspecified Ground Workings	1921	340825
C	57m N	Old Gravel Pit	1914	341339
C	76m N	Old Gravel Pit	1921	356136
C	79m NW	Old Gravel Pit	1914	342599



ID	Location	Land Use	Date	Group ID
D	97m S	Unspecified Ground Workings	1948	347955
D	97m S	Unspecified Ground Workings	1914	352833
D	98m S	Unspecified Ground Workings	1964	372589
E	104m NW	Unspecified Heap	1921	327148
E	108m NW	Unspecified Ground Workings	1948	333772
3	125m E	Tramway Sidings	1897	324126
A	131m N	Unspecified Depot	1992	374598
A	131m N	Unspecified Depot	1978	358552
F	140m W	Tin Plate Works	1914	376288
A	144m N	Unspecified Wharf	1914	364015
G	156m NW	Unspecified Heap	1914	373521
G	156m NW	Unspecified Heap	1914	373521
A	156m N	Unspecified Pit	1948	335593
G	157m NW	Unspecified Heap	1948	379974
F	159m W	Tin Plate Works	1948	350952
F	162m W	Unspecified Works	1964	320886
F	163m W	Tin Plate Works	1897	342878
F	163m W	Railway Sidings	1897	367655
A	170m N	Unspecified Wharf	1914	339654
A	175m N	Railway Building	1921	323495
A	176m N	Unspecified Pit	1964	352050
A	177m N	Unspecified Pit	1948	352050
A	182m N	Unspecified Ground Workings	1948	333773
H	184m W	Unspecified Heap	1897	327145
F	188m W	Railway Sidings	1914	372862
F	190m W	Railway Sidings	1964	356284
F	191m SW	Tin Plate Works	1914	368043
F	193m W	Railway Sidings	1948	358647



ID	Location	Land Use	Date	Group ID
F	193m W	Tin Plate Works	1921	364591
F	193m W	Railway Sidings	1921	372862
F	195m SW	Tin Plate Works	1914	364591
F	195m SW	Railway Sidings	1914	361508
H	200m W	Refuse Heap	1914	353164
A	201m N	Railway Building	1921	323510
H	202m W	Refuse Heap	1914	351610
H	204m W	Refuse Heap	1914	379342
H	204m W	Refuse Heap	1914	379342
A	214m N	Unspecified Wharf	1914	372216
F	221m SW	Chimney	1978	331644
I	222m NE	Unspecified Heaps	1978	348602
I	222m NE	Unspecified Heaps	1964	367489
H	223m W	Railway Building	1921	323517
A	225m N	Unspecified Ground Workings	1948	333775
A	236m N	Railway Building	1921	323496
J	240m N	Mineral Railway Sidings	1914	371450
4	249m NW	Lime Kiln	1877	331873
F	259m W	Unspecified Commercial/Industrial	1921	331147
F	260m W	Unspecified Ground Workings	1914	346612
F	266m SW	Refuse Heap	1914	338709
F	270m SW	Chimney	1978	331646
K	270m E	Chimney	1992	355125
K	270m E	Chimney	1978	341035
5	274m N	Unspecified Pit	1897	335594
A	275m N	Railway Buildings	1921	319095
L	275m W	Unspecified Old Pit	1964	329029
F	281m SW	Railway Building	1921	358641

ID	Location	Land Use	Date	Group ID
F	284m SW	Railway Building	1914	358641
F	285m W	Unspecified Heaps	1964	322231
M	285m SW	Colliery	1897	357168
M	285m SW	Tramway Sidings	1897	324125
F	286m W	Unspecified Ground Workings	1948	379909
F	294m W	Refuse Heap	1914	352719
F	295m W	Refuse Heap	1914	349962
F	295m W	Refuse Heap	1914	349962
M	296m SW	Railway Sidings	1877	362762
F	299m SW	Railway Sidings	1897	346169
F	299m W	Railway Sidings	1914	339617
F	301m SW	Railway Buildings	1914	319097
F	304m SW	Unspecified Ground Workings	1948	333783
J	305m N	Unspecified Wharf	1914	364016
F	306m SW	Unspecified Heap	1914	367855
F	306m SW	Unspecified Heap	1914	367855
J	315m N	Unspecified Ground Workings	1948	333777
N	317m NW	Unspecified Heap	1877	341336
L	320m W	Old Coal Pit	1914	379775
L	320m W	Old Coal Pit	1914	379775
F	320m SW	Lime Kiln	1877	331875
N	320m NW	Unspecified Heap	1921	375631
N	324m NW	Unspecified Heap	1948	375631
N	325m NW	Unspecified Heap	1914	366885
N	325m NW	Unspecified Heap	1914	366885
N	326m NW	Unspecified Ground Workings	1914	342661
N	327m NW	Unspecified Ground Workings	1914	342661
O	330m SW	Railway Sidings	1897	367263



ID	Location	Land Use	Date	Group ID
F	331m SW	Refuse Heap	1914	359188
F	332m SW	Refuse Heap	1914	353050
F	332m SW	Refuse Heap	1914	353050
P	335m N	Unspecified Heap	1964	327151
P	335m N	Unspecified Ground Workings	1948	333774
J	337m N	Railway Buildings	1877	319096
F	344m W	Refuse Heap	1877	364613
Q	345m SW	Unspecified Pit	1948	340781
Q	345m SW	Unspecified Pit	1914	371331
Q	345m SW	Unspecified Pit	1897	363445
F	347m SW	Railway Sidings	1914	366215
F	349m SW	Railway Building	1914	323516
P	353m N	Unspecified Heap	1877	327150
P	355m N	Unspecified Pit	1964	335595
R	355m SW	Disused Canal	1948	367935
R	355m SW	Disused Canal	1897	375406
L	362m W	Old Coal Pit	1921	380130
L	362m W	Old Coal Pit	1897	365424
6	364m E	Refuse Heap	1992	366407
7	364m E	Refuse Heap	1978	371079
L	365m W	Unspecified Disused Pit	1992	366781
L	365m W	Unspecified Disused Pit	1978	356178
L	366m W	Old Coal Pit	1948	346469
L	366m W	Old Coal Pit	1914	359493
Q	366m SW	Refuse Heap	1992	359335
Q	366m SW	Refuse Heap	1978	365765
F	371m SW	Railway Building	1914	323518
Q	377m SW	Railway Building	1897	323515



ID	Location	Land Use	Date	Group ID
S	377m N	Railway Building	1921	323508
O	381m SW	Railway Sidings	1938	354003
T	384m SW	Unspecified Heap	1948	355334
T	384m SW	Unspecified Heap	1914	364169
U	386m N	Unspecified Wharf	1914	339654
L	387m W	Old Coal Pit	1914	321394
Q	389m SW	Pump House	1948	322067
U	391m N	Unspecified Ground Workings	1948	333776
Q	394m SW	Cuttings	1921	336929
S	402m N	Railway Building	1964	323509
U	404m N	Railway Buildings	1877	319090
V	406m N	Railway Sidings	1914	355610
W	407m W	Cuttings	1948	375370
W	407m W	Cuttings	1914	378013
X	407m W	Mineral Railway Sidings	1992	332668
W	409m W	Cuttings	1914	378013
U	410m N	Unspecified Wharf	1914	355082
U	410m N	Unspecified Wharf	1914	376372
Y	411m W	Cuttings	1978	369217
Y	412m W	Railway Sidings	1914	378917
R	412m SW	Railway Sidings	1914	372862
R	412m SW	Railway Sidings	1921	372862
W	412m W	Cuttings	1921	370281
Y	412m W	Colliery	1914	357168
R	415m SW	Railway Sidings	1897	356766
W	416m W	Cuttings	1914	370281
M	417m W	Cuttings	1964	365556
R	423m SW	Railway Sidings	1938	358647

ID	Location	Land Use	Date	Group ID
R	426m SW	Railway Sidings	1914	372862
X	429m W	Cuttings	1948	339941
X	429m W	Cuttings	1914	341308
Y	432m W	Colliery	1921	351199
Y	433m W	Railway Sidings	1921	360724
X	436m W	Cuttings	1921	355895
Y	437m W	Colliery	1914	351199
Y	437m W	Railway Sidings	1914	376354
X	438m W	Cuttings	1914	355895
X	441m W	Cuttings	1914	358441
X	441m W	Cuttings	1964	351897
8	441m SW	Railway Building	1921	323522
Z	445m N	Copper Works	1877	322724
AA	452m SW	Cuttings	1978	353749
AB	459m NW	Cuttings	1948	357810
AB	459m NW	Cuttings	1914	353800
AB	460m NW	Cuttings	1921	357137
AA	461m SW	Cuttings	1964	350275
AB	463m NW	Cuttings	1914	353800
Y	467m W	Refuse Heap	1914	348712
AB	467m NW	Cuttings	1914	350524
AA	471m SW	Cuttings	1921	378013
Y	474m W	Refuse Heap	1914	348712
Z	478m N	Railway Building	1948	323497
Y	479m W	Railway Sidings	1914	351913
Z	483m N	Refuse Heap	1914	375026
Z	483m N	Refuse Heap	1914	356682
Z	483m N	Refuse Heap	1914	356682



ID	Location	Land Use	Date	Group ID
9	483m NW	Unspecified Quarry	1897	325331
AC	484m E	Unspecified Heap	1964	368002
AC	485m E	Unspecified Heap	1914	365943
AA	486m SW	Cuttings	1938	364394
Y	487m W	Cuttings	1877	336925
AC	487m E	Unspecified Heap	1948	361026
AA	488m SW	Cutting Works	1948	353666
AA	488m SW	Cutting Works	1914	374372
10	492m SW	Disused Canal	1921	322861
Z	493m N	Refuse Heap	1948	359452
11	494m NE	Junction Station	1914	331012
AA	494m SW	Cuttings	1921	350284
AB	494m NW	Cuttings	1964	369320
V	499m N	Railway Sidings	1948	353324
Y	499m W	Unspecified Pit	1921	365967

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

0

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m**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

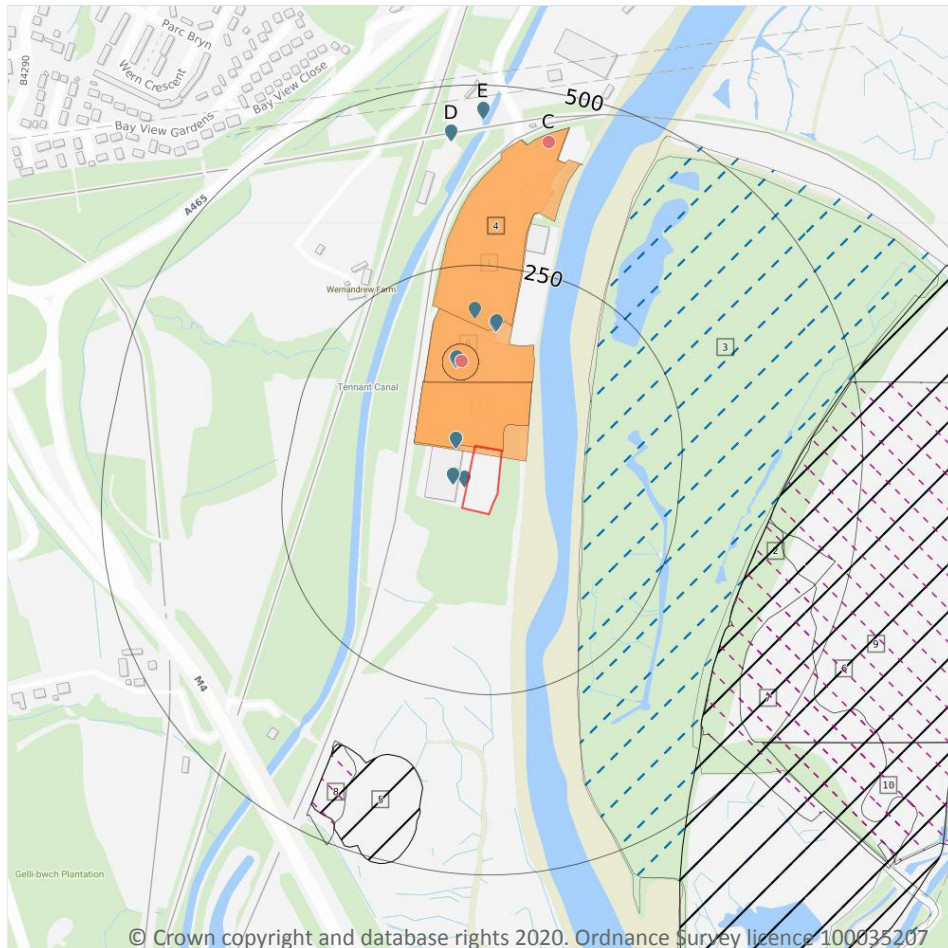
Records within 500m**0**

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

2

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 32**

ID	Location	Details
2	115m E	Operator: Neath Port Talbot Waste Management Co Ltd Site Address: The Saltings, Giants Grave Road, Briton Ferry, Neath, N P T, SA11 2LN WML Number: 34060 EPR Reference: NEA001 Landfill type: A2 : Other Landfill Site taking Special Waste Status: Closure IPPC Reference: - EPR Number: EAEPR\EA/EPR/SP3298FT/A001



ID	Location	Details	
3	118m E	Operator: Neath Port Talbot Waste Management Co Ltd Site Address: Giants Grave, Giants Grave Road, Briton Ferry, Neath, N P T, SA11 2LN	WML Number: 34272 EPR Reference: NEA006 Landfill type: A4 : Household, Commercial & Industrial Waste Landfill Status: To PPC IPPC Reference: - EPR Number: EAEPR\EA/EPR/YP3498FR/A001

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

3.2 Historical landfill (BGS records)

Records within 500m	0
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Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	4
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 32**

ID	Location	Site address	Source	Data type
7	361m E	Refuse Tip	1970 mapping	Polygon
8	367m SW	Refuse Tip	1970 mapping	Polygon
9	380m E	Refuse Tip	1995 mapping	Polygon
10	494m SE	Refuse Tip	1995 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	2
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.



Features are displayed on the Waste and landfill map on **page 32**

ID	Location	Details		
5	355m S	Site Address: Refuse Tip South East of M4 Junction 43 Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
6	360m E	Site Address: Giants Grave Tip Licence Holder Address: -	Waste Licence: Yes Site Reference: SWW-68-L Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/06/1977 Licence Surrender: 31/03/1993	Operator: Neath Borough Council Licence Holder: Neath Borough Council First Recorded 30/06/1962 Last Recorded: 31/03/1993

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

3.5 Historical waste sites

Records within 500m	12
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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 32**

ID	Location	Address	Further Details	Date
A	On site	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995
A	On site	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993
A	On site	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995

ID	Location	Address	Further Details	Date
B	87m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1996
1	88m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1968
B	92m N	Site Address: Neath Abbey Wharf, Neath Abbey, NEATH, West Glamorgan, SA10 6BL	Type of Site: Waste Transfer Station (Conversion) Planning application reference: 02/151 Description: Scheme comprises conversion of land to a waste transfer station. An application (ref: 02/151) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 6th February 2002. Data source: Historic Planning Application Data Type: Point	-
B	92m N	Site Address: Neath Abbey Wharf, Skewen, NEATH, West Glamorgan, SA10 6BL	Type of Site: Waste Transfer Station (Conversion) Planning application reference: P/2007/1128 Description: Scheme comprises change of use from coal handling facility to waste transfer station. An application (ref: P/2007/1128) for detailed planning permission was submitted to Neath & Port Talbot B.C. Data source: Historic Planning Application Data Type: Point	-

ID	Location	Address	Further Details	Date
B	92m N	Site Address: Neath Abbey Wharf, Neath Abbey, NEATH, West Glamorgan, SA10 6BL	Type of Site: Recycling/Distribution Facility Planning application reference: 02/121 Description: Scheme comprises construction of a recycling plant totalling 8,589 sqm. Scheme provides an industrial floor space of 7,776 sqm, office floor space of 480 sqm, kitchen and toilets, amenities floor area of 288 sqm including changing rooms totalling 64 sqm, and a gate house of 45 sqm. Scheme includes a lift installation, sprinkler system with storage tank and pumphouse, 12 roller shutter doors, lighting, CCTV, 77 parking spaces, security fencing, concrete yard, access road, installation of site services, enabling works and landscaping. Construction - aluminium curtain, block, brick cladding plinth, flat metal panel cladding, internal partitions walls; insitu concrete floor; colourcoat hps200 profiled metal cladding, pitched, upvc singlwe membrane flat roof; aluminium framed windows; fire, roller shutter doors; passenger lifts; pad foundations; portal, steel frame; fencing, lighting columns site works; bathroom, fire alarm system, kitchen, sprinkler system fittings. An application (ref: 02/121) for Detailed Planning permission was refused by Neath & Port Talbot Borough Council. Awaiting Contract details. Detailed plans refused. Client will not be resubmitting plans. Data source: Historic Planning Application Data Type: Point	-
B	92m N	Site Address: Neath Abbey Wharf, Skewen, NEATH, West Glamorgan, SA10 6BL	Type of Site: Waste Transfer Station Planning application reference: 93/0579/03 Description: An application (ref: 93/0579/03) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 1st December 1993. Data source: Historic Planning Application Data Type: Point	-
B	92m N	Site Address: Area 1, Neath Abbey Wharf, NEATH, West Glamorgan, SA10 6BL	Type of Site: Waste Transfer Station (Cou) Planning application reference: P/98/1011 Description: Change of use from coal depot. An application (ref: P/98/1011) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 24th August 1998. Data source: Historic Planning Application Data Type: Point	-



ID	Location	Address	Further Details	Date
B	92m N	Site Address: Neath Abbey Wharf, NEATH, West Glamorgan, SA10 6BL	Type of Site: Waste Transfer Station Planning application reference: 98/1348 Description: Erection of a new concreted waste transfer station and training area for the receipt, storage and transfer of inert waste. Scheme includes 2 portable buildings for office and canteen facilities and a weighbridge. An application (ref: 98/1348) for Det ailed Planning permission was submitted to Neath & Port Talbot B.C. on 18th November 1998. Data source: Historic Planning Application Data Type: Point	-
4	160m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989

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

3.6 Licensed waste sites

Records within 500m	39
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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 32**

ID	Location	Details		
A	6m W	Site Name: - Site Address: Morris & Co (Handlers) Ltd, Top Shed, Neath Abbey Wharf, Skewen, SA10 6BL Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: - Environmental Permitting Regulations (Waste) Licence Number: BB3394CL EPR reference: - Operator: Morris & Co (Handlers) Ltd Waste Management licence No: 0 Annual Tonnage: 150000	Issue Date: 26/07/2019 Effective Date: 26/07/2019 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
A	20m W	Site Name: The Recycling Centre Site Address: The Recycling Centre, Neath Abbey Wharf, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Composting Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AGR288 EPR reference: KB3232RE/V002 Operator: Agresol Ltd Waste Management licence No: 101816 Annual Tonnage: 0	Issue Date: 18/08/2010 Effective Date: 10/08/2012 Modified:: 11/03/2013 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Expired
A	21m W	Site Name: The Recycling Centre Site Address: Neath Abbey Wharf, Skewern, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment + asbestos Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CLA103 EPR reference: EA/EPR/KP3497ES/A001 Operator: Claddagh Recycling Ltd Waste Management licence No: 101816 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	21m W	Site Name: The Recycling Centre Site Address: The Recycling Centre, Neath Abbey Wharf, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Composting Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AGR288 EPR reference: EA/EPR/KB3232RE/V002 Operator: Agresol Ltd Waste Management licence No: 101816 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: 10/08/2012 Modified:: 11/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
A	21m W	Site Name: The Recycling Centre Site Address: The Recycling Centre, Neath Abbey Wharf, Skewern, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment + asbestos Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AGR288 EPR reference: EA/EPR/KB3232RE/T001 Operator: Agresol Ltd Waste Management licence No: 101816 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: 10/08/2012 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred



ID	Location	Details		
A	21m W	Site Name: - Site Address: The Recycling Centre, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: KB3232RE EPR reference: - Operator: Agresol Ltd Waste Management licence No: 0 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: 18/08/2010 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
A	21m W	Site Name: - Site Address: The Recycling Centre, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Composting Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: KB3232RE EPR reference: - Operator: - Waste Management licence No: 101816 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: 18/08/2010 Modified:: - Surrendered Date: - Expiry Date: 23/12/2013 Cancelled Date: - Status: Expired
A	21m W	Site Name: - Site Address: The Recycling Centre, N P T, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: KB3232RE EPR reference: - Operator: Agresol Ltd Waste Management licence No: 101816 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: 18/08/2010 Modified:: - Surrendered Date: - Expiry Date: 23/12/2013 Cancelled Date: - Status: Expired
A	21m W	Site Name: - Site Address: The Recycling Centre, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Composting Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: KB3232RE EPR reference: - Operator: Agresol Ltd Waste Management licence No: 101816 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: 18/08/2010 Modified:: - Surrendered Date: - Expiry Date: 23/12/2013 Cancelled Date: - Status: Expired



ID	Location	Details		
A	21m W	Site Name: - Site Address: The Recycling Centre, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Composting Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: KB3232RE EPR reference: - Operator: Agresol Ltd Waste Management licence No: 101816 Annual Tonnage: 74999	Issue Date: 18/08/2010 Effective Date: 18/08/2010 Modified:: - Surrendered Date: - Expiry Date: 23/12/2013 Cancelled Date: - Status: Expired
A	27m W	Site Name: Parle Recycling Ltd Site Address: Land / Premises At, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PAR153 EPR reference: FP3494VK/T001 Operator: Parle Recycling Ltd Waste Management licence No: 100359 Annual Tonnage: 74999	Issue Date: 29/05/2008 Effective Date: 05/02/2010 Modified:: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Expired
A	27m W	Site Name: Parle Skip Hire Recycling Centre Site Address: Neath Abbey Wharf, Skewen, Neath, SA10 6BL Correspondence Address: Tir Ergyd Yard, Llwycoed, Aberdare, R C T, CF44 0BY	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PSH002 EPR reference: - Operator: Parle Skip Hire Ltd Waste Management licence No: 100359 Annual Tonnage: 74999	Issue Date: 29/05/2008 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	27m W	Site Name: - Site Address: Parle Recycling Ltd, Neath Abbey Wharf, Skewen, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3494VK EPR reference: - Operator: Parle Recycling Ltd Waste Management licence No: 0 Annual Tonnage: 4999	Issue Date: 29/05/2008 Effective Date: 29/05/2008 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired



ID	Location	Details		
A	27m W	Site Name: - Site Address: Parle Recycling Ltd, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3494VK EPR reference: - Operator: - Waste Management licence No: 100359 Annual Tonnage: 4999	Issue Date: 29/05/2008 Effective Date: 29/05/2008 Modified:: - Surrendered Date: - Expiry Date: 14/08/2012 Cancelled Date: - Status: Expired
A	27m W	Site Name: - Site Address: Parle Recycling Ltd, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: FP3494VK EPR reference: - Operator: Parle Recycling Ltd Waste Management licence No: 100359 Annual Tonnage: 4999	Issue Date: 29/05/2008 Effective Date: 29/05/2008 Modified:: - Surrendered Date: - Expiry Date: 14/08/2012 Cancelled Date: - Status: Expired
A	27m W	Site Name: - Site Address: Parle Recycling Ltd, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: FP3494VK EPR reference: - Operator: Parle Recycling Ltd Waste Management licence No: 100359 Annual Tonnage: 4999	Issue Date: 29/05/2008 Effective Date: 29/05/2008 Modified:: - Surrendered Date: - Expiry Date: 14/08/2012 Cancelled Date: - Status: Expired
A	27m W	Site Name: - Site Address: Parle Recycling Ltd, Neath Abbey Wharf, Skewen, N P T, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3494VK EPR reference: - Operator: Parle Recycling Ltd Waste Management licence No: 100359 Annual Tonnage: 4999	Issue Date: 29/05/2008 Effective Date: 29/05/2008 Modified:: - Surrendered Date: - Expiry Date: 14/08/2012 Cancelled Date: - Status: Expired



ID	Location	Details		
B	122m N	Site Name: Derwen Plant Ltd Site Address: Land/premises At, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DER038 EPR reference: EA/EPR/FP3893SF/A001 Operator: Derwen Plant Ltd Waste Management licence No: 101409 Annual Tonnage: 74999	Issue Date: 09/03/2010 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	122m N	Site Name: - Site Address: Derwen Plant Company Ltd, Neath Abbey Wharf, Skewen, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3893SF EPR reference: - Operator: Derwen Plant Company Ltd Waste Management licence No: 0 Annual Tonnage: 149999	Issue Date: 09/03/2010 Effective Date: 09/03/2010 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	122m N	Site Name: - Site Address: Derwen Plant Company Ltd, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3893SF EPR reference: - Operator: - Waste Management licence No: 101409 Annual Tonnage: 149999	Issue Date: 09/03/2010 Effective Date: 09/03/2010 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	122m N	Site Name: - Site Address: Derwen Plant Company Ltd, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3893SF EPR reference: - Operator: Derwen Plant Company Ltd Waste Management licence No: 101409 Annual Tonnage: 149999	Issue Date: 09/03/2010 Effective Date: 09/03/2010 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	122m N	Site Name: - Site Address: Derwen Plant Company Ltd, Neath Abbey Wharf, Skewen, N P T, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3893SF EPR reference: - Operator: Derwen Aggregates Ltd Waste Management licence No: 101409 Annual Tonnage: 149999	Issue Date: 09/03/2010 Effective Date: 09/03/2010 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	123m N	Site Name: Derwen Plant Company Ltd Site Address: Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DER038 EPR reference: FP3893SF/V002 Operator: Derwen Plant Company Ltd Waste Management licence No: 101409 Annual Tonnage: 150000	Issue Date: 09/03/2010 Effective Date: - Modified:: 02/09/2014 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
B	171m N	Site Name: Neath Abbey Wharf Site Address: Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIM001 EPR reference: EA/EPR/UP3898FQ/V005 Operator: Sims Group U K Ltd Waste Management licence No: 34092 Annual Tonnage: 74999	Issue Date: 03/03/1994 Effective Date: 19/12/2001 Modified:: 07/12/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	171m N	Site Name: - Site Address: Neath Abbey Wharf, Skewen, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: UP3898FQ EPR reference: - Operator: Sims Group U K Ltd Waste Management licence No: 0 Annual Tonnage: 74999	Issue Date: 03/03/1994 Effective Date: 03/03/1994 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	171m N	Site Name: - Site Address: Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: UP3898FQ EPR reference: - Operator: - Waste Management licence No: 34092 Annual Tonnage: 130000	Issue Date: 29/06/2017 Effective Date: 29/06/2017 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	171m N	Site Name: - Site Address: Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: - Environmental Permitting Regulations (Waste) Licence Number: UP3898FQ EPR reference: - Operator: Sims Group U K Ltd Waste Management licence No: 34092 Annual Tonnage: 130000	Issue Date: 29/06/2017 Effective Date: 29/06/2017 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	171m N	Site Name: - Site Address: Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: - Environmental Permitting Regulations (Waste) Licence Number: UP3898FQ EPR reference: - Operator: Sims Group U K Ltd Waste Management licence No: 34092 Annual Tonnage: 130000	Issue Date: 29/06/2017 Effective Date: 29/06/2017 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	171m N	Site Name: - Site Address: Neath Abbey Wharf, Skewen, N P T, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: UP3898FQ EPR reference: - Operator: Sims Group U K Ltd Waste Management licence No: 34092 Annual Tonnage: 130000	Issue Date: 29/06/2017 Effective Date: 29/06/2017 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
B	172m N	Site Name: Neath Abbey Wharf Site Address: Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: SIM001 EPR reference: UP3898FQ/V005 Operator: Sims Group U K Ltd Waste Management licence No: 34092 Annual Tonnage: 0	Issue Date: 03/03/1994 Effective Date: 19/12/2001 Modified:: 07/12/2012 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
B	188m N	Site Name: Sims Metals Ltd Site Address: Neath Abbey Wharf, Skewen, Neath, SA10 0BL Correspondence Address: Long Marston, Stratford Upon Avon, Warwickshire, CV37 8AQ	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIM001 EPR reference: - Operator: Sims Group U K Limited Waste Management licence No: 34092 Annual Tonnage: 0	Issue Date: 03/03/1994 Effective Date: 19/12/2001 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
D	434m N	Site Name: - Site Address: Fenestration Recycling Company Limited, Neath Abbey Wharf, Skewen, Neath, SA10 6BL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3938RN EPR reference: - Operator: - Waste Management licence No: 34202 Annual Tonnage: 24999	Issue Date: 27/07/2016 Effective Date: 27/07/2016 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
D	434m N	Site Name: - Site Address: Fenestration Recycling Company Limited, Neath Abbey Wharf, Skewen, Neath, SA10 6BL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3938RN EPR reference: - Operator: Fenestration Recycling Company Limited Waste Management licence No: 34202 Annual Tonnage: 24999	Issue Date: 27/07/2016 Effective Date: 27/07/2016 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
D	434m N	Site Name: - Site Address: Fenestration Recycling Company Limited, Neath Abbey Wharf, Skewen, Neath, SA10 6BL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: HP3938RN EPR reference: - Operator: Fenestration Recycling Company Limited Waste Management licence No: 34202 Annual Tonnage: 24999	Issue Date: 27/07/2016 Effective Date: 27/07/2016 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
D	434m N	Site Name: - Site Address: Fenestration Recycling Company Limited, Neath Abbey Wharf, Skewen, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3938RN EPR reference: - Operator: Fenestration Recycling Company Limited Waste Management licence No: 34202 Annual Tonnage: 24999	Issue Date: 27/07/2016 Effective Date: 27/07/2016 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	463m N	Site Name: Eb Enterprise Transfer Station Site Address: Eb Enterprise Transfer Station, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EBE001 EPR reference: - Operator: EB Enterprise Waste Management Ltd Waste Management licence No: 34202 Annual Tonnage: 24999	Issue Date: 23/09/2002 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
E	463m N	Site Name: Neath Abbey Wharf Transfer Station Site Address: Neath Abbey Wharf Transfer Station, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WPR003 EPR reference: EA/EPR/CP3693MJ/T001 Operator: Windows & Plastics Recycling Ltd Waste Management licence No: 34202 Annual Tonnage: 24999	Issue Date: 23/09/2002 Effective Date: 02/12/2008 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
E	463m N	Site Name: - Site Address: Fenestration Recycling Ltd, Skewen, Neath, Neath Port Talbot, SA10 6BL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HP3938RN EPR reference: - Operator: Fenestration Recycling Company Ltd Waste Management licence No: 0 Annual Tonnage: 24999	Issue Date: 23/09/2002 Effective Date: 23/09/2002 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
E	464m N	Site Name: Fenestration Recycling Ltd Site Address: Neath Abbey Wharf Transfer Station, Neath Abbey Wharf, Skewen, Neath, N P T, SA10 6BL Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FEN025 EPR reference: HP3938RN/T001 Operator: Fenestration Recycling Company Ltd Waste Management licence No: 34202 Annual Tonnage: 24999	Issue Date: 23/09/2002 Effective Date: 27/06/2012 Modified:: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Transferred

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

3.7 Waste exemptions

Records within 500m

12

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 32**



ID	Location	Site	Reference	Category	Sub-Category	Description
B	118m N	Morris & Co (Handlers) Ltd, Morris & Co Ltd, Neath Abbey Wharf, Skewen, Neath, Castell-nedd Port Talbot, SA10 6BL	NRW-WME044078	Treating waste exemption	Not on a farm	Recovery of scrap metal
B	118m N	Derwen Plant Company Ltd, Derwent Plant, Neath Abbey Wharf, Neath, Castell-nedd Port Talbot, SA106BL	NRW-WME028792	Treating waste exemption	-	Screening and blending of waste
B	118m N	Derwen Plant Company Ltd, Derwent Plant, Neath Abbey Wharf, Neath, Castell-nedd Port Talbot, SA106BL	NRW-WME028792	Using waste exemption	-	Use of waste for a specified purpose
B	118m N	Derwen Plant Company Ltd, Derwent Plant, Neath Abbey Wharf, Neath, Castell-nedd Port Talbot, SA106BL	NRW-WME028792	Treating waste exemption	-	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	118m N	Derwen Plant Company Ltd, Derwent Plant, Neath Abbey Wharf, Neath, Castell-nedd Port Talbot, SA106BL	NRW-WME028792	Treating waste exemption	-	Crushing waste fluorescent tubes
B	118m N	Derwen Plant Company Ltd, Derwent Plant, Neath Abbey Wharf, Neath, Castell-nedd Port Talbot, SA106BL	NRW-WME028792	Storing waste exemption	-	Storage of waste in secure containers
B	118m N	Derwen Plant Company Ltd, Derwent Plant, Neath Abbey Wharf, Neath, Castell-nedd Port Talbot, SA106BL	NRW-WME028792	Storing waste exemption	-	Storage of waste in a secure place
B	118m N	Sims Group UK Limited, Sims Group UK Limited, Neath Abbey Wharf, Skewen, Neath, Castell-nedd Port Talbot, SA106BL	NRW-WME037046	Treating waste exemption	Not on a farm	Recovery of scrap metal

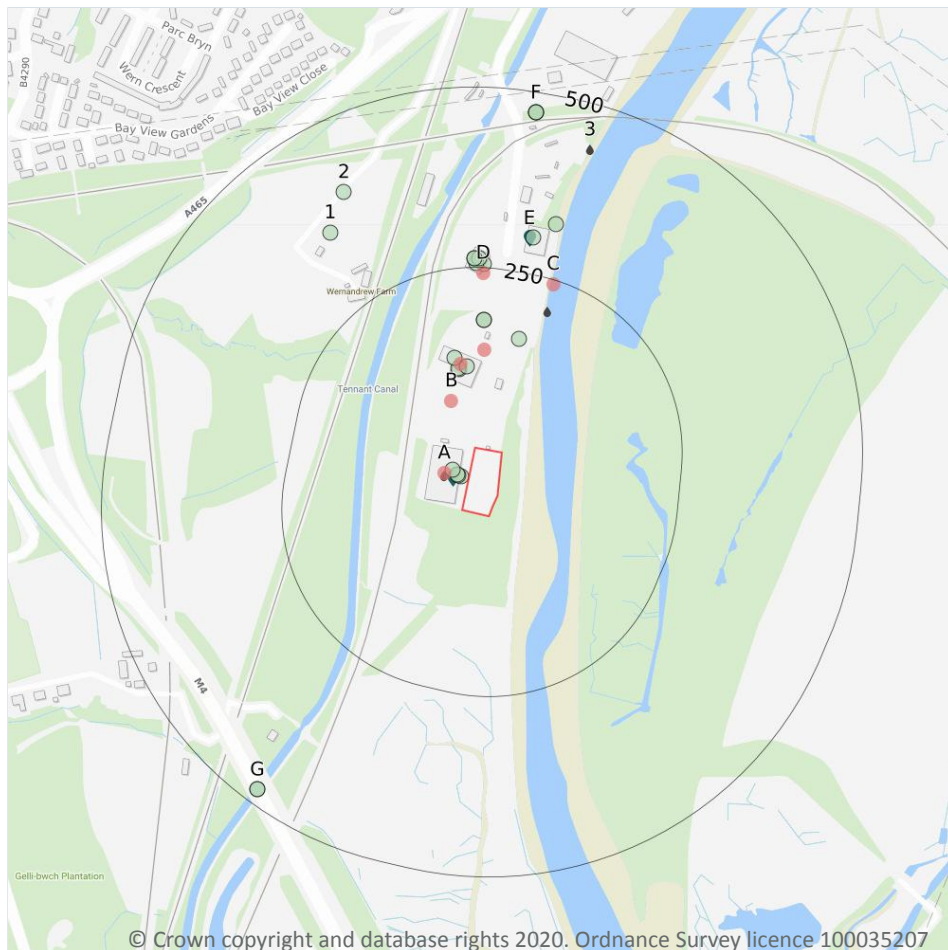


ID	Location	Site	Reference	Category	Sub-Category	Description
C	432m N	Sims Group UK Limited, Sims Group UK Limited, Neath Abbey Wharf, Skewen, Neath, Castell- nedd Port Talbot, SA106BL	NRW- WME007849	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	432m N	FREEZERAMP, Neath Abbey Wharf, Skewen, NEATH, NPT, SA106BL	NRW- WME009267	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	432m N	Morris & Co (Handlers) Ltd, Top Yard, Neath Abbey Wharf, Skewen, Neath Port Talbot, SA106BL	NRW- WME014711	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	432m N	Aggregate Industries UK Limited, Express Asphalt, Neath Abbey Wharf, Skewen, Neath, Castell- nedd Port Talbot, SA106BL	NRW- WME027744	Storing waste exemption	Not on a farm	Storage of waste in a secure place

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



4 Current industrial land use



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

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 50**

ID	Location	Company	Address	Activity	Category
A	35m W	Depot	West Glamorgan, SA10	Container and Storage	Transport, Storage and Delivery
B	73m NW	Scrapyard	West Glamorgan, SA10	Scrap Metal Merchants	Recycling Services

ID	Location	Company	Address	Activity	Category
B	118m N	Sims Metal Management	Neath Abbey Wharf, Skewen, Neath, West Glamorgan, SA10 6BL	Scrap Metal Merchants	Recycling Services
B	137m N	Scrap Yard	West Glamorgan, SA10	Scrap Metal Merchants	Recycling Services
D	243m N	Electricity Sub Station	West Glamorgan, SA10	Electrical Features	Infrastructure and Facilities
C	244m N	Neath Abbey Wharf	West Glamorgan, SA10	Moorings and Unloading Facilities	Water

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

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

This data is sourced from Experian.

4.3 Electricity cables

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

This data is sourced from National Grid.

4.4 Gas pipelines

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

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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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 50**

ID	Location	Address	Details	
A	21m W	Steel Supply Co. (Western) Limited, Neath Abbey Wharf Site, Jenkins Road, Skewen, Neath Port Talbot, SA10 6BL	Process: Coal & Coke Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements issued Date of enforcement: 08/11/2001 Comment: No enforcements issued
E	299m N	Aggregate Industries UK Ltd, Bardon Aggregates, Neath Abbey Wharf, Neath Abbey, Neath, SA10 6BL	Process: Roadstone Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No enforcements issued Date of enforcement: No enforcements issued Comment: No enforcements issued

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

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 50**

ID	Location	Address	Details	
A	35m W	SIMS GROUP UK LIMITED NEATH ABBAY, SIMS GROUP UK LIMITED, NEATH ABBEY WHARF, SKEWEN, NEATH, SA10 6BL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BP0328001 Permit Version: 1 Receiving Water: OPEN CULVERT TO RIVER NEATH	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 28/10/2004 Effective Date: 28/10/2004 Revocation Date: 11/10/2007



ID	Location	Address	Details	
C	204m N	NEATH ABBEY WHARF SKEWEN, NEATH ABBEY WHARF, SKEWEN	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: BP0234501 Permit Version: 1 Receiving Water: THE NEATH ESTUARY	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 14/03/1994 Effective Date: 14/03/1994 Revocation Date: 11/10/2007
3	437m N	ASPHALT PLANT SITE SKEWEN NEAT, ASPHALT PLANT SITE, NEATH ABBAY WHARF, JENKINS ROAD, SKEWEN NEATH, SA10 6BL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BP0364801 Permit Version: 1 Receiving Water: RIVER NEATH	Status: Effective Issue date: 26/10/2007 Effective Date: 26/10/2007 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

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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



4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

25

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 50**

ID	Location	Details	
A	11m W	Incident Date: 21/11/2013 Incident Identification: 1177795 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	14m W	Incident Date: 21/11/2013 Incident Identification: 1177873 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	16m W	Incident Date: 09/12/2013 Incident Identification: 1182221 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	23m W	Incident Date: 01/12/2013 Incident Identification: 1180008 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	110m N	Incident Date: 18/03/2003 Incident Identification: 143824 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	112m N	Incident Date: 07/04/2003 Incident Identification: 149135 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

ID	Location	Details	
B	112m N	Incident Date: 13/10/2003 Incident Identification: 195828 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
B	128m N	Incident Date: 19/03/2003 Incident Identification: 144284 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	159m N	Incident Date: 02/05/2002 Incident Identification: 76113 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	177m N	Incident Date: 13/05/2003 Incident Identification: 157903 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	177m N	Incident Date: 23/04/2003 Incident Identification: 153191 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	255m N	Incident Date: 07/03/2003 Incident Identification: 141744 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	256m N	Incident Date: 18/02/2003 Incident Identification: 137714 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
D	262m N	Incident Date: 07/02/2003 Incident Identification: 135607 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
D	262m N	Incident Date: 29/01/2003 Incident Identification: 134031 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
D	262m N	Incident Date: 07/02/2003 Incident Identification: 135607 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
E	300m N	Incident Date: 15/11/2002 Incident Identification: 121008 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
E	325m N	Incident Date: 08/03/2003 Incident Identification: 141896 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
1	359m NW	Incident Date: 22/04/2002 Incident Identification: 73646 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
2	398m NW	Incident Date: 07/04/2013 Incident Identification: 1100291 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
F	471m N	Incident Date: 30/04/2001 Incident Identification: 3814 Pollutant: Inert Materials and Wastes:General Biodegradable Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
F	471m N	Incident Date: 30/04/2001 Incident Identification: 3814 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
F	471m N	Incident Date: 30/04/2001 Incident Identification: 3814 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)
G	480m SW	Incident Date: 17/09/2016 Incident Identification: 1605619 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: No Details
G	480m SW	Incident Date: 17/09/2016 Incident Identification: 1605619 Pollutant: Oils and Fuels Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) 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.

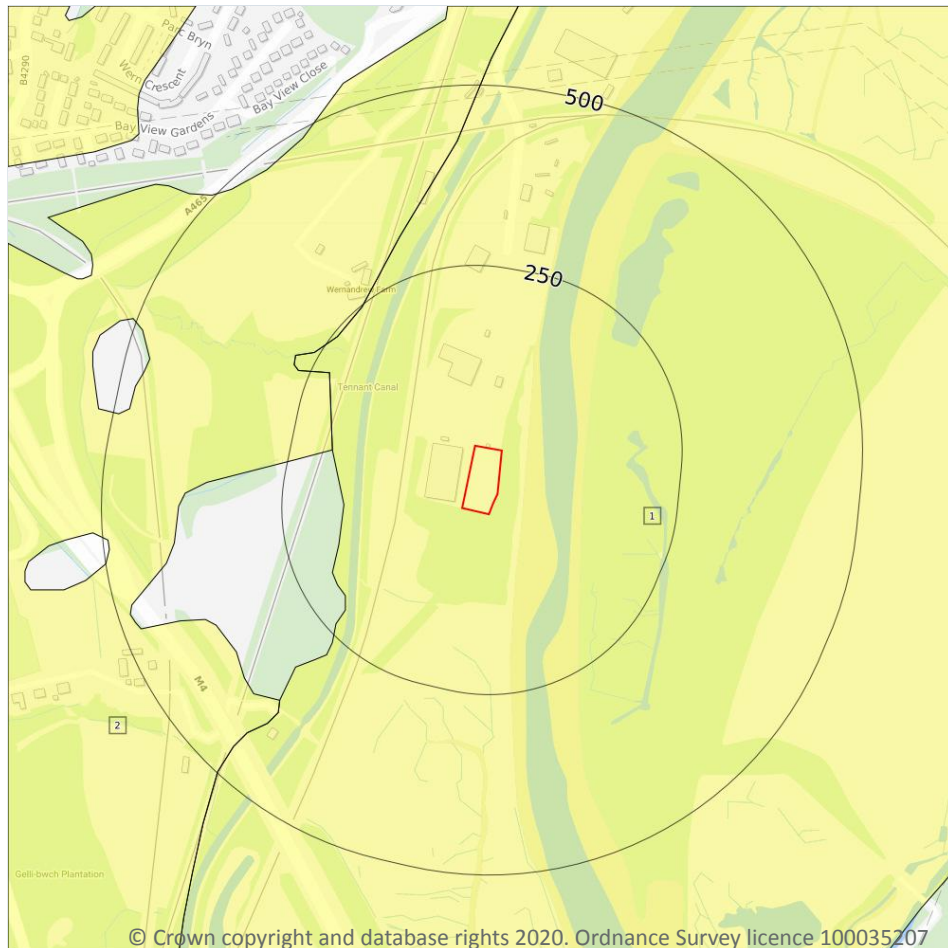
4.21 Pollution inventory radioactive waste

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

2

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 59**

ID	Location	Designation	Description
1	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
2	193m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type



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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

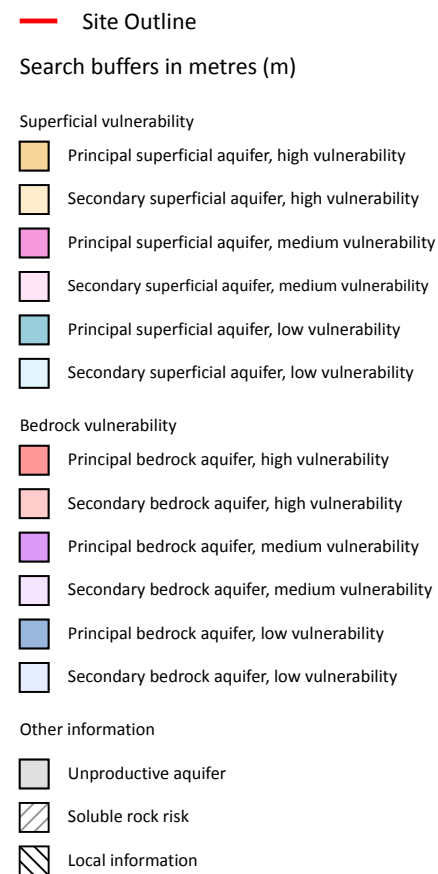
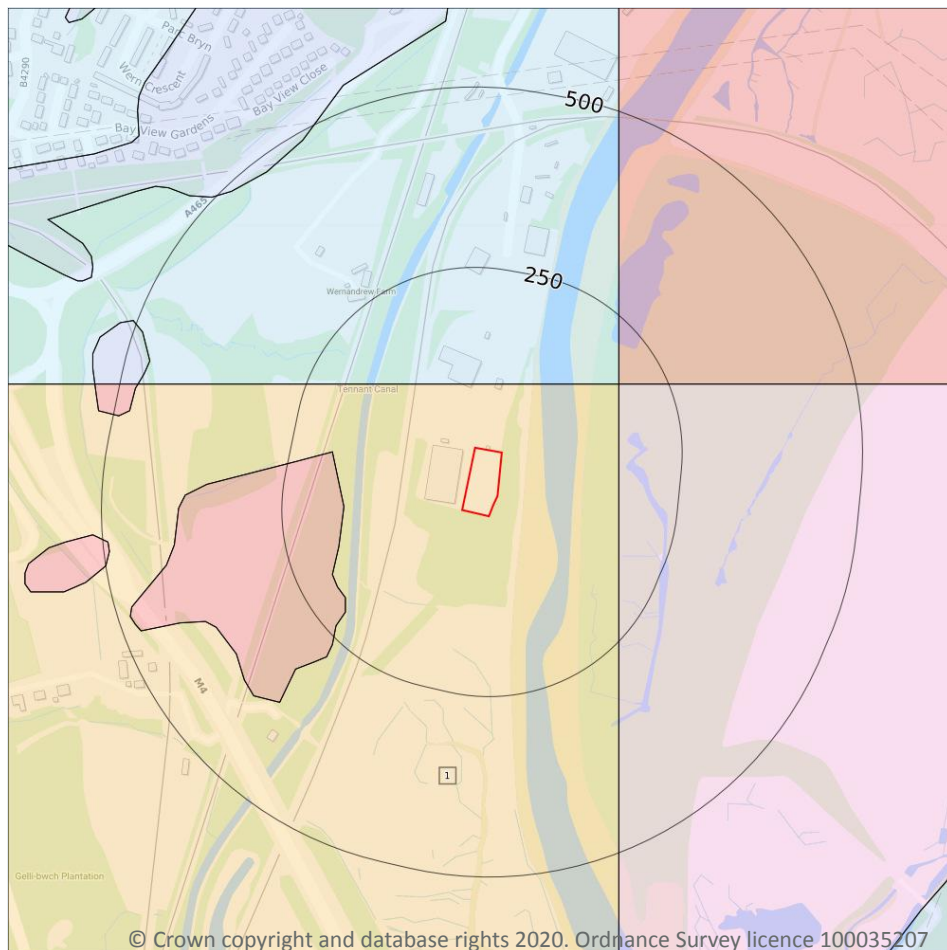
Features are displayed on the Bedrock aquifer map on **page 61**

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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 62**

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: High	Vulnerability: High 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
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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.

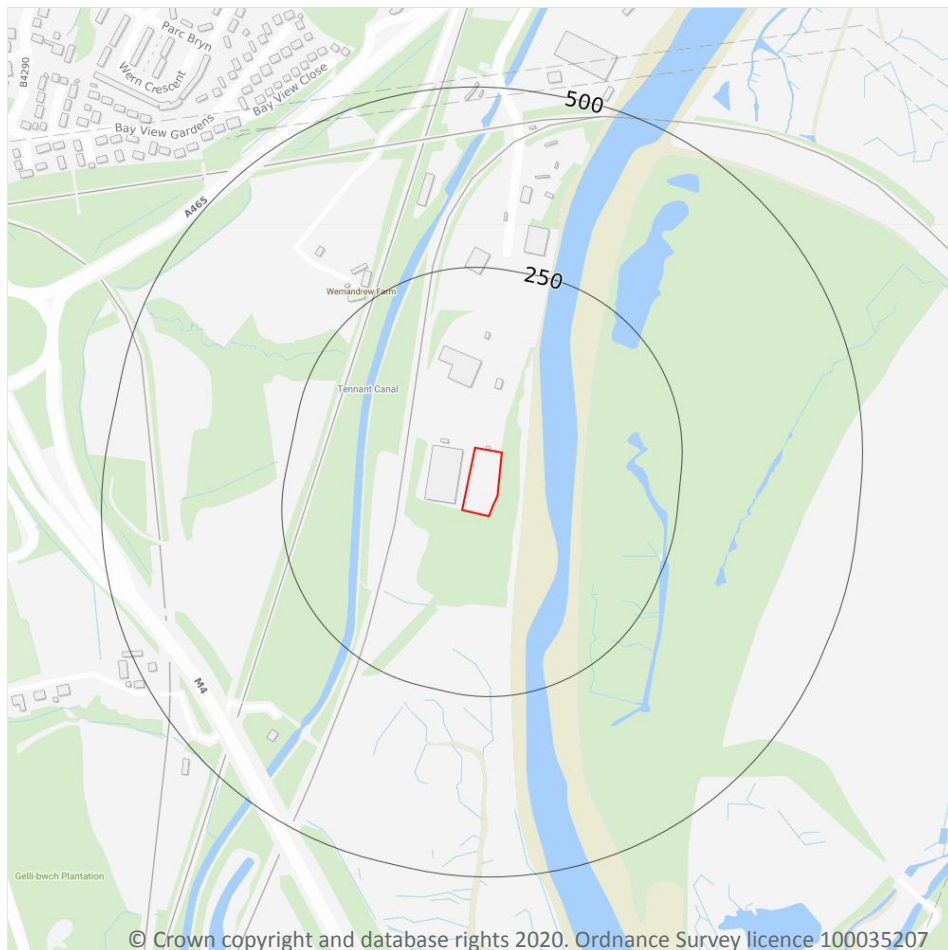
5.5 Groundwater vulnerability- local information

Records on site	0
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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

0

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.

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

5.7 Surface water abstractions

Records within 2000m

4

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 64**

ID	Location	Details	
-	1570m W	Status: Historical Licence No: 22/59/5/0005 Details: Non-Evaporative Cooling Direct Source: EAW Surface Water Point: NORTH SITE RESERVOIR Data Type: Point Name: St Mowden Properties PLC Easting: 271290 Northing: 196340	Annual Volume (m ³): 283416 Max Daily Volume (m ³): 283416 Original Application No: - Original Start Date: 30/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 29/07/2010 Version End Date: -
-	1570m W	Status: Active Licence No: 22/59/5/0005 Details: Non Evaporative Cooling - Low Direct Source: - Point: - Data Type: Point Name: - Easting: 271290 Northing: 196340	Annual Volume (m ³): 283,416 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Jul 29 2010 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1824m S	Status: Active Licence No: WA/058/0072/0009 Details: General Use relating to Secondary category - Medium Loss - Medium Direct Source: Neath Canal Point: - Data Type: Point Name: - Easting: 273419 Northing: 194094	Annual Volume (m ³): 15,000 Max Daily Volume (m ³): 120 Original Application No: - Original Start Date: May 9 2019 12:00AM Expiry Date: Mar 31 2029 12:00AM Issue No: - Version Start Date: - Version End Date: -
-	1824m S	Status: Historical Licence No: 21/58/72/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: INLAND WATER THE NEATH CANAL Data Type: Point Name: Hope Construction Materials Limited Easting: 273410 Northing: 194090	Annual Volume (m ³): 15000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 14/08/2008 Expiry Date: 31/03/2017 Issue No: 3 Version Start Date: 09/12/2014 Version End Date: -



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

5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

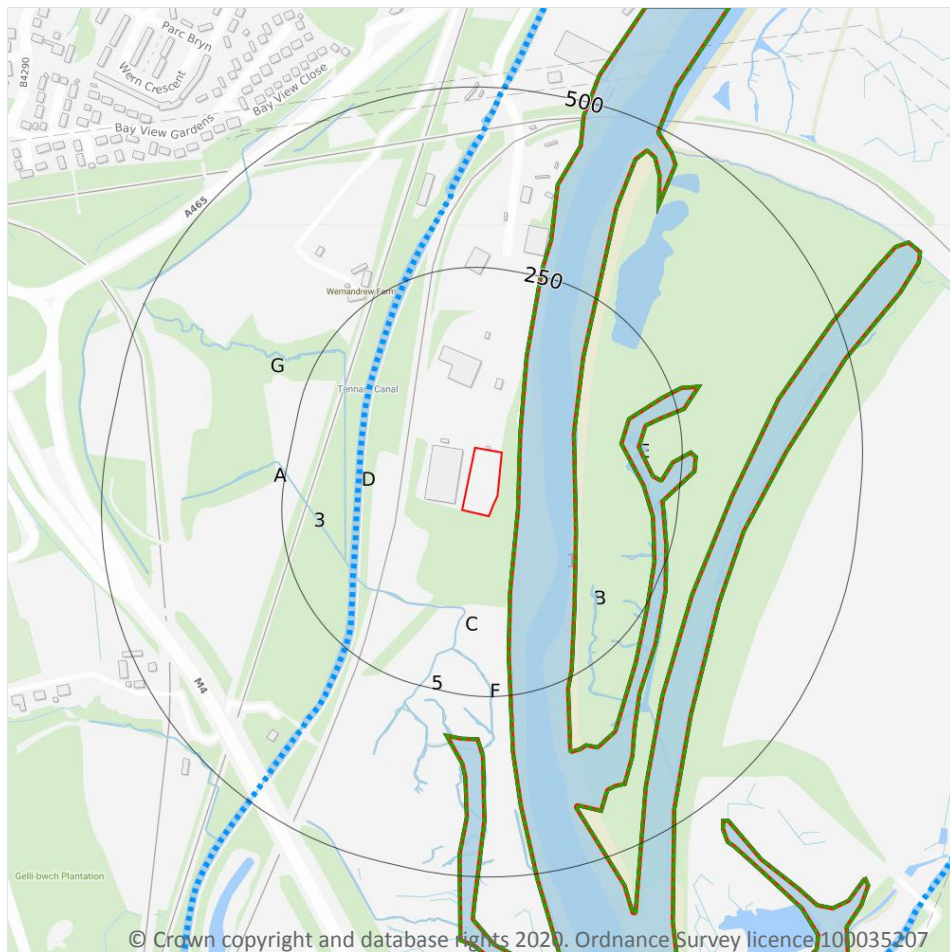
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

31

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 67**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	81m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Nedd



ID	Location	Type of water feature	Ground level	Permanence	Name
C	132m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	138m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	140m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	145m W	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Tennant Canal
C	156m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	162m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
C	164m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	173m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	173m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	175m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	176m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	179m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	179m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
4	180m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	189m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	189m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	191m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	195m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	218m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	219m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	222m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	237m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	237m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	241m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	241m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	244m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	249m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	249m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

14

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 67**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on **page 67**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal catchment	Not part of a river WB catchment	203	Neath	Tawe to Cadoxton

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



6.4 WFD Surface water bodies

Records identified

2

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

Features are displayed on the Hydrology map on **page 67**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
B	23m E	Transitional	NEATH ESTUARY	GB541005800700	Moderate	Good	Moderate	2016
2	146m W	Canal	Neath and Tennant	GB71010012				2016

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

6.5 WFD Groundwater bodies

Records on site

1

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

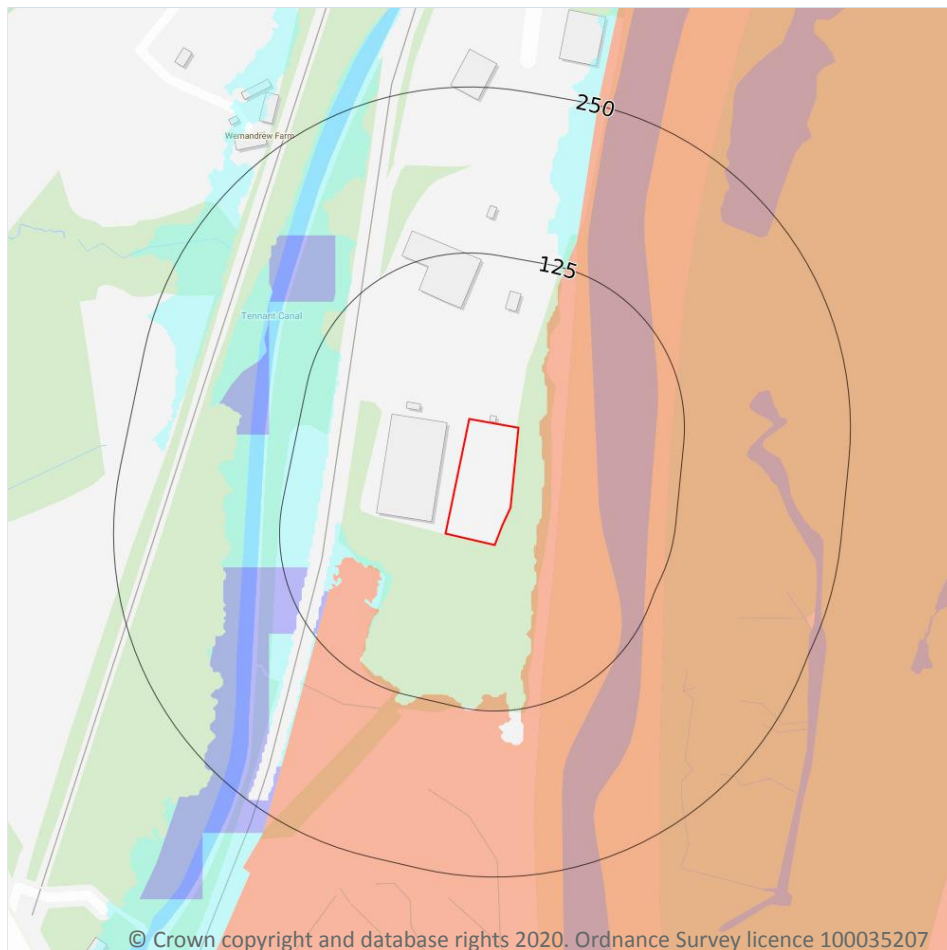
Features are displayed on the Hydrology map on **page 67**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Swansea Carboniferous Coal Measures	GB41002G201000	Poor	Poor	Good	2016

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- Environment Agency 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 Sea (RoFRaS)

Records within 50m

1

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

Features are displayed on the River and coastal flooding map on **page 72**

Distance	RoFRaS flood risk
On site	N/A
0 - 50m	High



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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

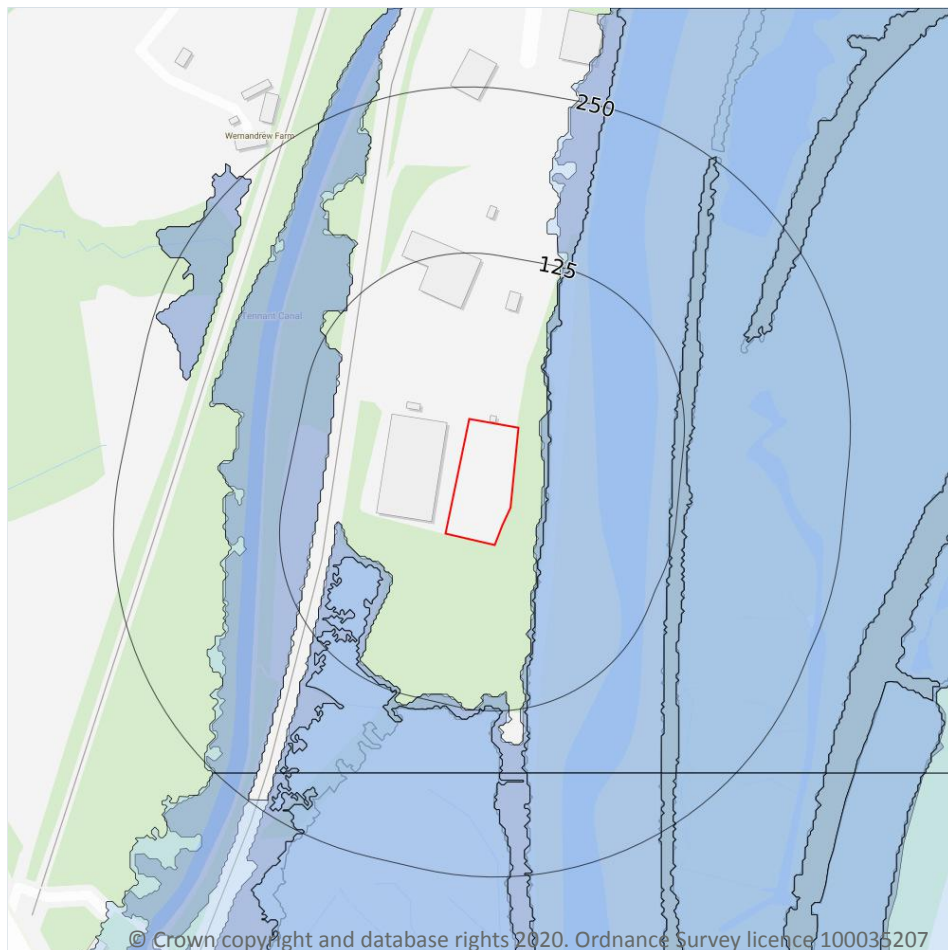
0

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

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



River and coastal flooding - Flood Zones



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

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on **page 72**

Location	Type
16m E	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.

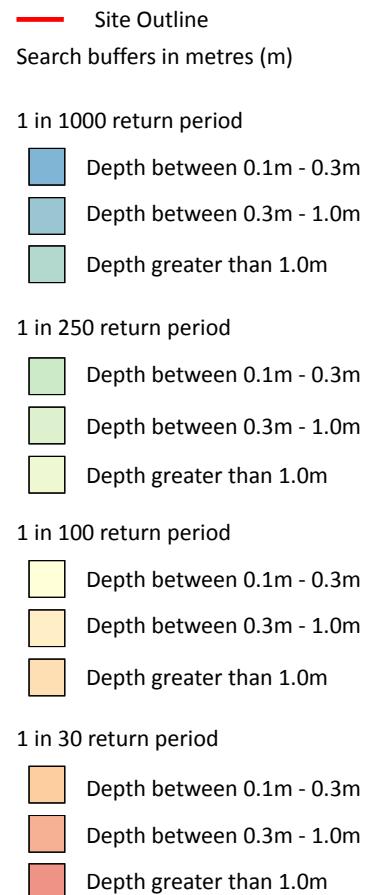
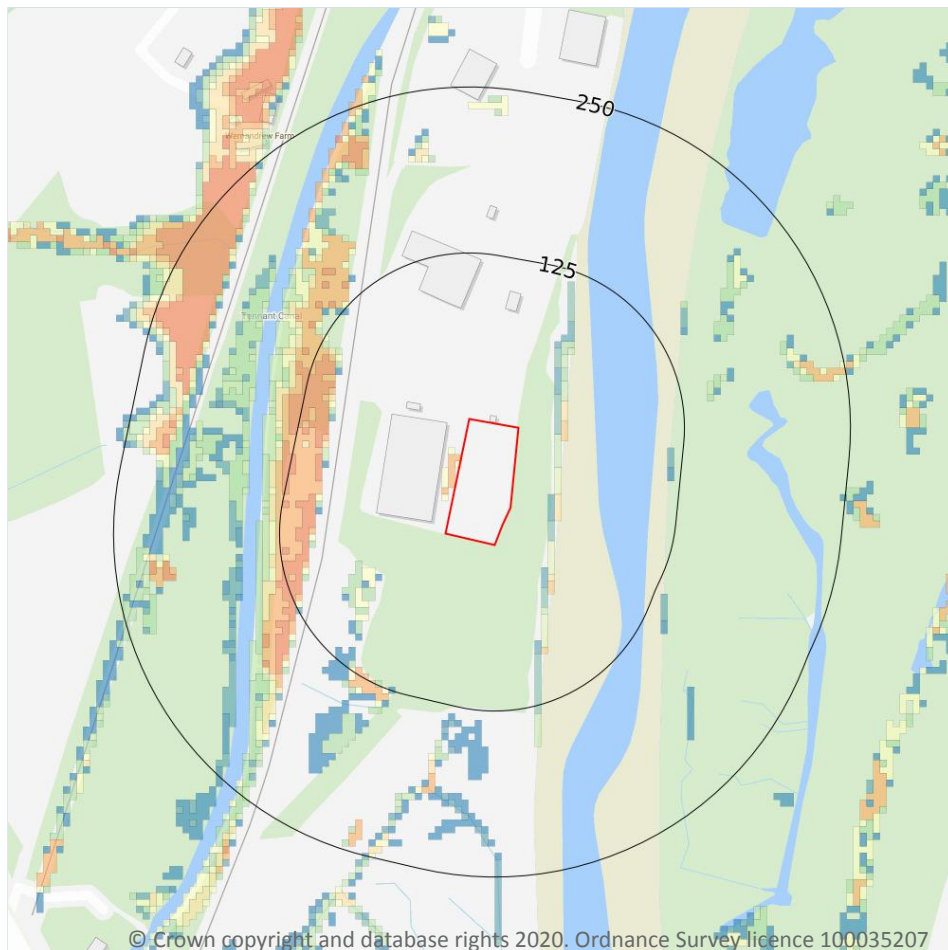
Features are displayed on the River and coastal flooding map on **page 72**

Location	Type
17m E	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

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 76**

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	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

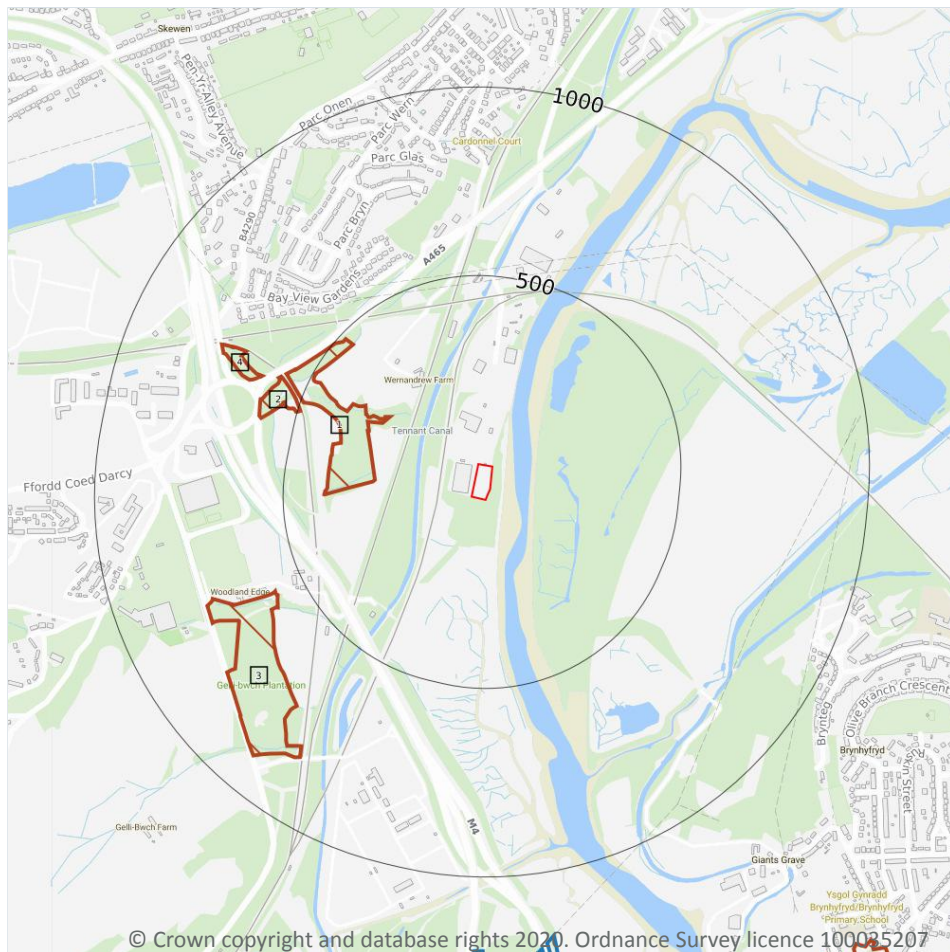
Moderate

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 78**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- × Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- × National Nature Reserves (NNR)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

6

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

Features are displayed on the Environmental designations map on **page 79**

ID	Location	Name	Data source
5	1169m S	Earlwood Road Cutting And Ferryboat Inn Quarries	Natural Resources Wales



ID	Location	Name	Data source
6	1197m S	Earlswood Road Cutting And Ferryboat Inn Quarries	Natural Resources Wales
-	1487m SW	Pant-Y-Sais	Natural Resources Wales
-	1489m S	Earlswood Road Cutting And Ferryboat Inn Quarries	Natural Resources Wales
-	1639m S	Earlswood Road Cutting And Ferryboat Inn Quarries	Natural Resources Wales
-	1738m S	Earlswood Road Cutting And Ferryboat Inn Quarries	Natural Resources Wales

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

1

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.

Features are displayed on the Environmental designations map on **page 79**



ID	Location	Site	Details
-	1487m SW	Name: Crymlyn Bog Site status: - Data source: Natural Resources Wales	Overview: Crymlyn Bog comprises a floodplain-valley mire located within a lowland coastal context and is the most extensive wetland of its type in Wales. The mire features a complex mosaic of vegetation types, supporting examples of swamp, tall herb fen, fen meadow and carr communities. The site supports an exceptionally wide range of rich and poor fen communities, some of which bear a close floristic affinity to certain floodplain mires in East Anglia. The presence of significant areas of saw sedge <i>Cladium mariscus</i> swamp is notable in extensive stands of this uncommon vegetation type, occurring at only three other sites in Wales. Crymlyn Bog is part of a larger inter-estuarine complex which includes the adjacent Pant y Sais fen. Ramsar criteria: Ramsar criterion 1 Largest example of valley floodplain topogenous mire in South Wales, and one of the largest surviving fens in the west of Britain. Very few other sites are known to support a comparable complexity and diversity of vegetation. Habitats Directive Annex I features present on the SAC include: H7140 Transition mires and quaking bogs H7210 Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> H91E0 Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> Ramsar criterion 2 Supports a substantial population of the nationally-rare slender cotton-grass <i>Eriophorum gracile</i>, and a rich invertebrate fauna including many rare and highly localised species. Ramsar criterion 3 The site supports 199 vascular plant species including 17 regionally-uncommon and one nationally-rare.

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	1
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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.

Features are displayed on the Environmental designations map on **page 79**

ID	Location	Name	Features of interest	Habitat description	Data source
-	1487m SW	Crymlyn Bog / Cors Crymlyn	Very wet mires often identified by an unstable 'quaking' surface; Calcium-rich fen dominated by great fen sedge (saw sedge); Alder woodland on floodplains.	Inland water bodies (Standing water, Running water); Bogs, Marshes, Water fringed vegetation, Fens; Humid grassland, Mesophile grassland; Broad-leaved deciduous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural Resources Wales

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**1**

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.

Features are displayed on the Environmental designations map on **page 79**

ID	Location	Name	Data source
-	1499m SW	CRYMLYN BOG AND PANT Y SAIS	Natural Resources Wales

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**1**

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.

Features are displayed on the Environmental designations map on **page 79**

ID	Location	Name	Data source
-	1487m SW	PANT-Y-SAIS	Natural Resources Wales

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

10.7 Designated Ancient Woodland

Records within 2000m**24**

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 79**

ID	Location	Name	Woodland Type
1	260m W	Unknown	Ancient Semi Natural Woodland
2	493m W	Unknown	Plantation on Ancient Woodland Site
3	577m SW	Unknown	Ancient Semi Natural Woodland
4	619m W	Unknown	Ancient Semi Natural Woodland
-	1255m S	Unknown	Plantation on Ancient Woodland Site
A	1404m SE	Unknown	Restored Ancient Woodland Site
-	1589m SE	Unknown	Restored Ancient Woodland Site
-	1668m W	Unknown	Ancient Semi Natural Woodland
-	1748m N	Unknown	Ancient Semi Natural Woodland
-	1773m W	Unknown	Ancient Semi Natural Woodland
-	1816m N	Unknown	Restored Ancient Woodland Site
-	1829m SW	Unknown	Ancient Semi Natural Woodland
-	1842m N	Unknown	Plantation on Ancient Woodland Site
-	1843m NW	Unknown	Restored Ancient Woodland Site
-	1879m N	Unknown	Ancient Semi Natural Woodland
-	1884m NW	Unknown	Plantation on Ancient Woodland Site
-	1890m NW	Unknown	Restored Ancient Woodland Site
-	1892m N	Unknown	Ancient Semi Natural Woodland
-	1893m W	Unknown	Ancient Semi Natural Woodland
-	1909m SE	Unknown	Ancient Semi Natural Woodland
-	1927m N	Unknown	Ancient Semi Natural Woodland
-	1936m NW	Unknown	Restored Ancient Woodland Site
-	1948m SE	Unknown	Restored Ancient Woodland Site
-	1982m N	Unknown	Restored 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

1

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 87**

ID	Location	Name	Grade	Reference Number	Listed date
1	207m SW	Boiler Stack Of Former Cardonnel Tinplate Works, Situated In Woodland E Of Cwrt Y Bettws Farm And On The E Side Of The M4 And W Of The Tennant Canal	II	23072	29/03/2000

This data is sourced from English Heritage, 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 English Heritage, 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 English Heritage, 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 English Heritage, 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

3

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 90**

ID	Location	Classification	Description
1	On site	Grade 3b	Moderate quality agricultural land
3	112m E	Grade 3b	Moderate quality agricultural land
5	185m W	Grade 3b	Moderate quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

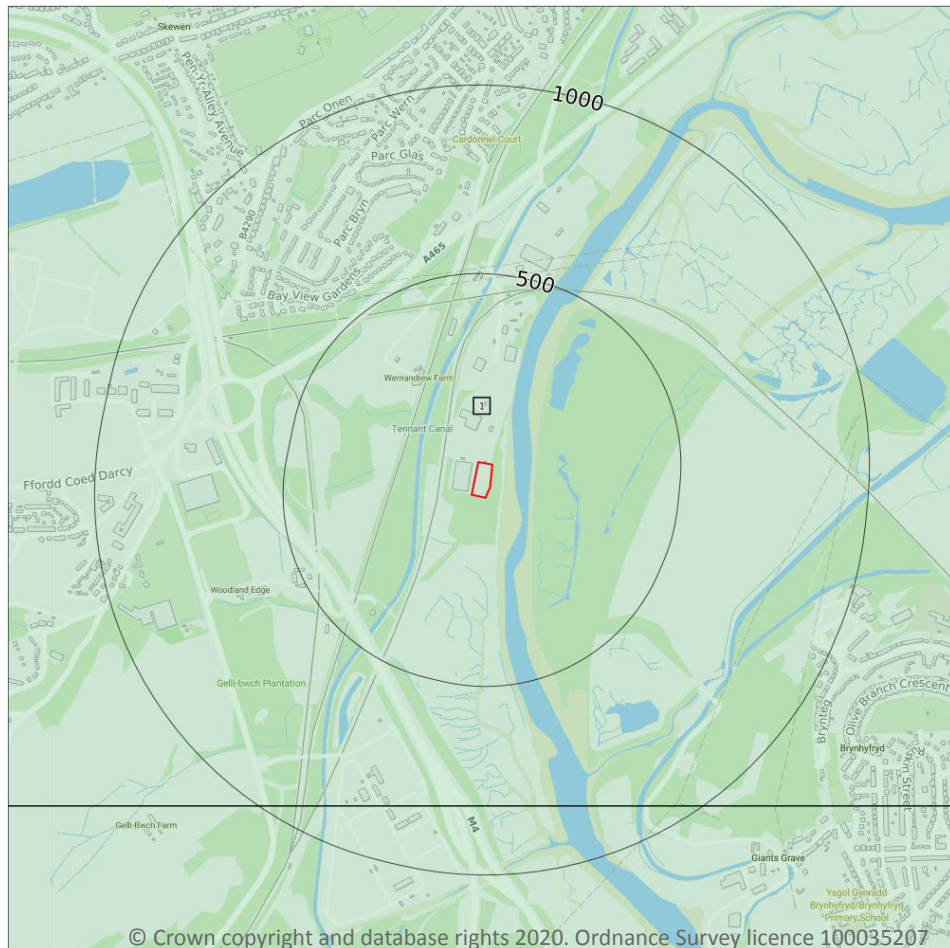
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline**
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

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

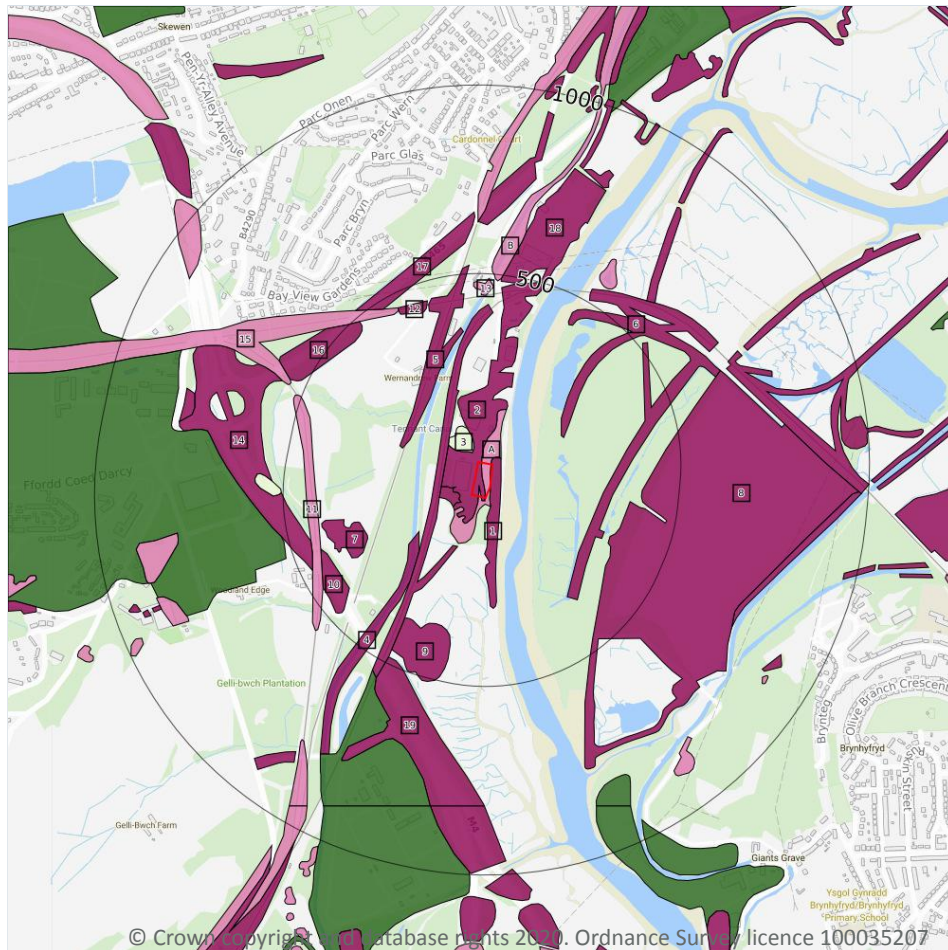
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 93**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SS79NW

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

23

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 94**

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
A	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	30m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit

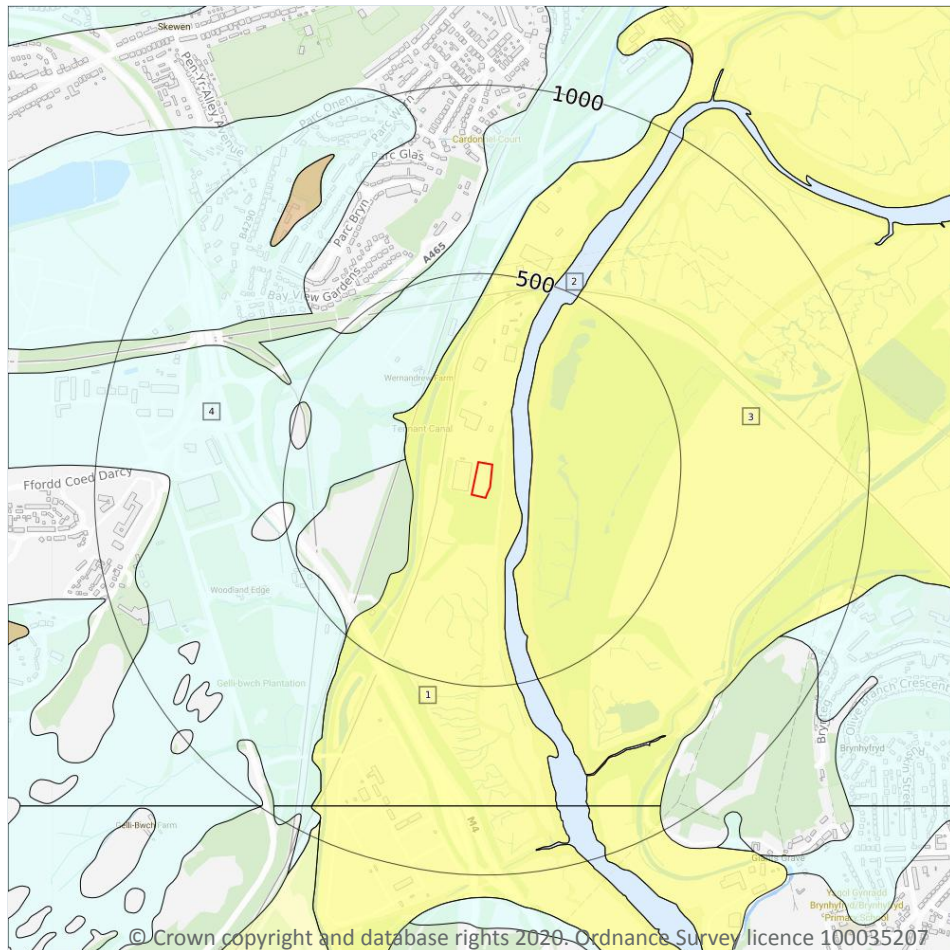


ID	Location	LEX Code	Description	Rock description
A	31m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	83m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	171m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	189m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	198m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	297m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	344m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	355m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	407m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	411m W	WGR-VOID	Worked Ground (Undivided)	Void
12	422m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	443m N	WGR-VOID	Worked Ground (Undivided)	Void
14	444m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	451m NW	WGR-VOID	Worked Ground (Undivided)	Void
16	458m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
17	477m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
18	483m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	483m N	WGR-VOID	Worked Ground (Undivided)	Void
19	483m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

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

4

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 96**

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
2	58m E	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
3	104m E	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand



ID	Location	LEX Code	Description	Rock description
4	191m W	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

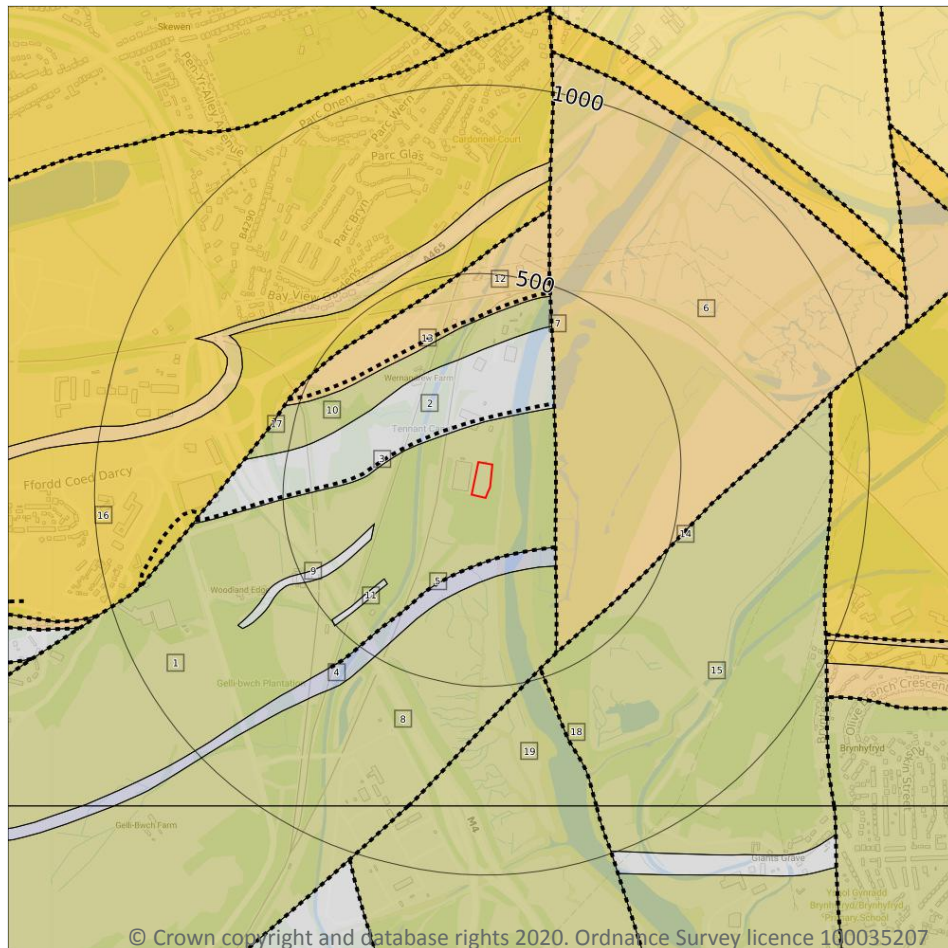
0

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.

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

12

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 98**

ID	Location	LEX Code	Description	Rock age
1	On site	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
2	97m N	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
4	162m S	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age

ID	Location	LEX Code	Description	Rock age
6	168m E	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
8	208m S	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
9	270m W	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
10	272m NW	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
11	322m SW	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
12	335m NW	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
15	433m SE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
16	445m NW	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age
19	475m S	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

7

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.

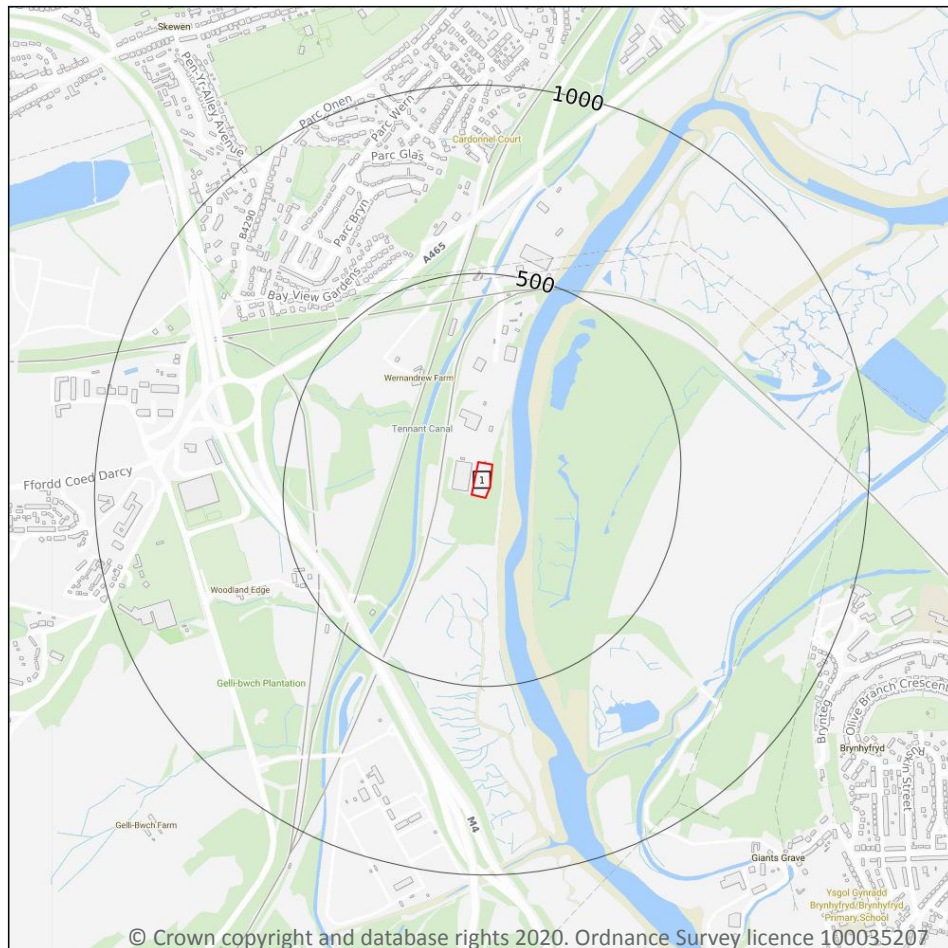
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 98**

ID	Location	Category	Description
3	107m N	ROCK	Coal seam, inferred ()
5	162m S	ROCK	Coal seam, inferred ()
7	168m E	FAULT	Normal fault, inferred
13	351m NW	ROCK	Coal seam, inferred ()
14	433m SE	FAULT	Normal fault, inferred
17	445m NW	FAULT	Normal fault, inferred
18	475m S	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.

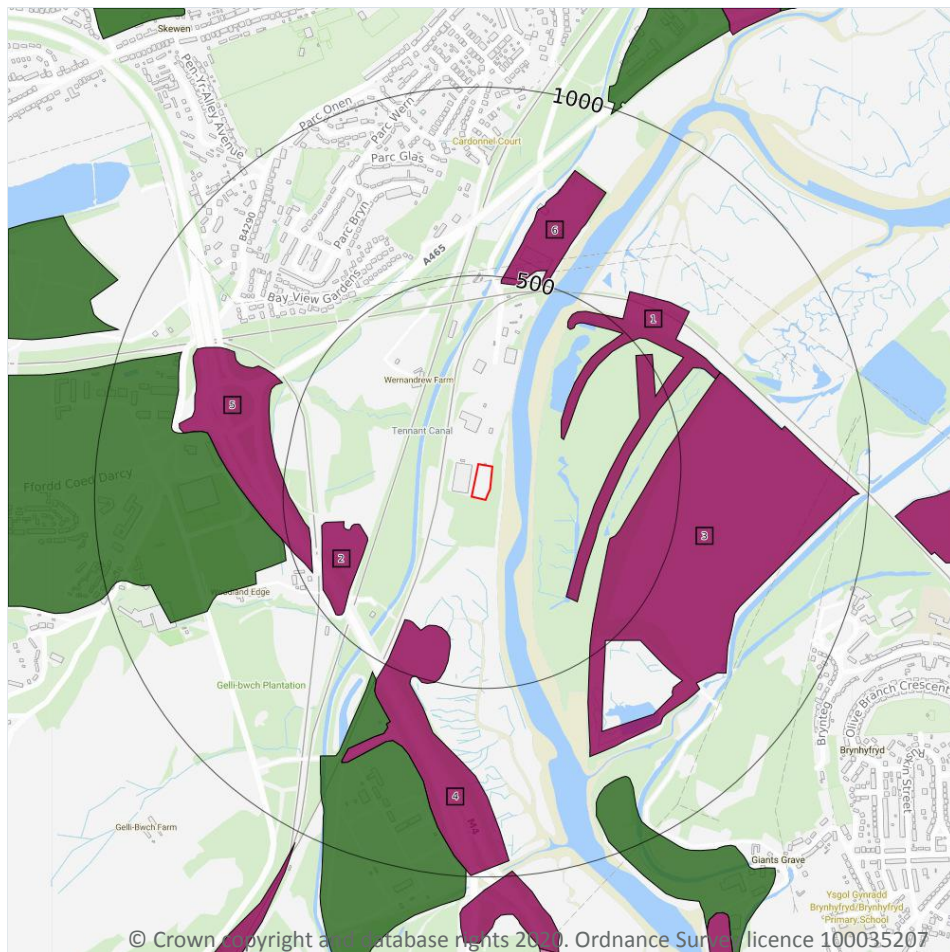
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 100**

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

6

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 101**

ID	Location	LEX Code	Description	Rock description
1	198m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	297m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	344m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	355m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT



ID	Location	LEX Code	Description	Rock description
5	439m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	483m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

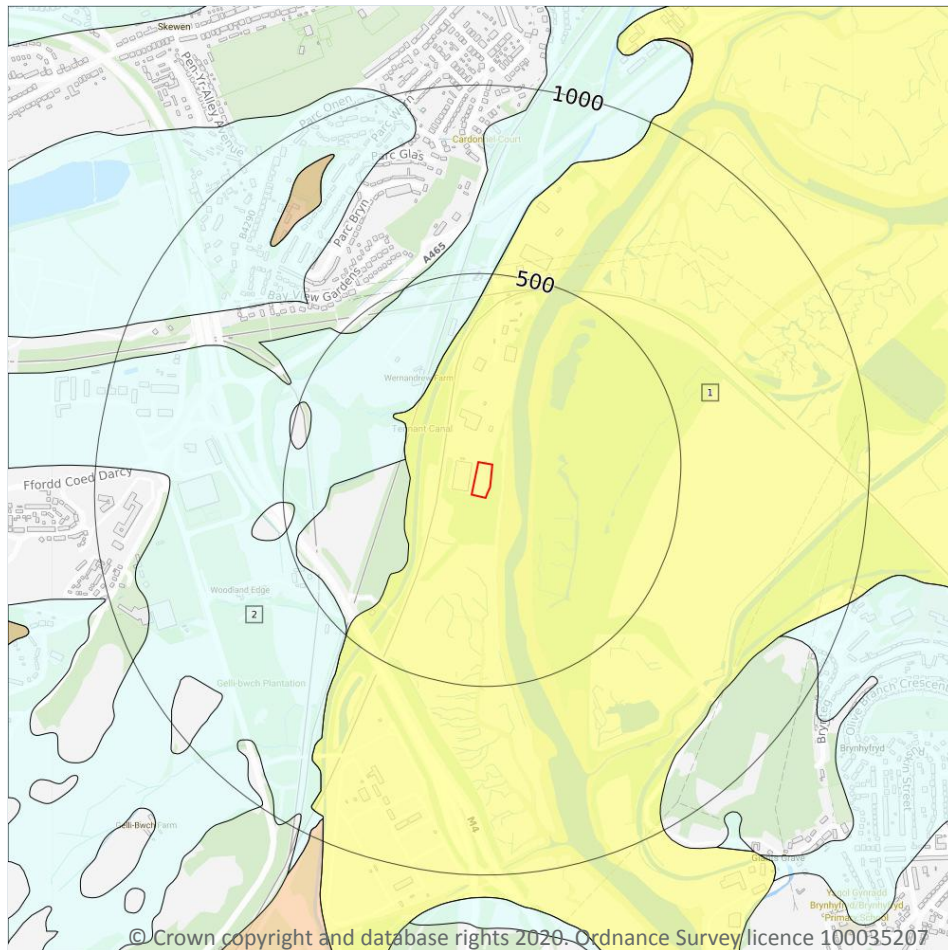
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

2

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 103**

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
2	191m W	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any 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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

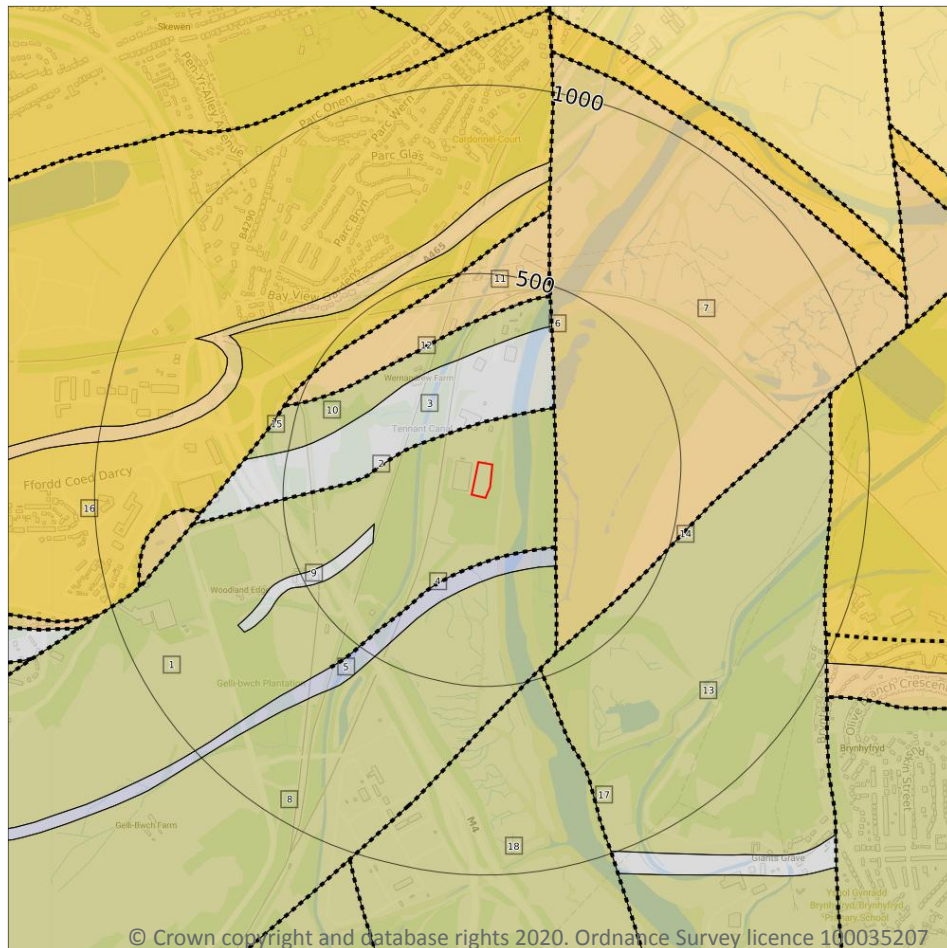
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

11

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 105**

ID	Location	LEX Code	Description	Rock age
1	On site	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
3	97m N	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	162m S	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
7	168m E	H-MDSS	HUGHES MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	208m S	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN
9	270m W	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	272m NW	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
11	335m NW	H-MDSS	HUGHES MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	433m SE	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
16	445m NW	H-SDST	HUGHES MEMBER - SANDSTONE	WESTPHALIAN
18	475m S	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	7
----------------------------	----------

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 105**

ID	Location	Category	Description
2	97m N	ROCK	Coal seam, inferred
4	162m S	ROCK	Coal seam, inferred



ID	Location	Category	Description
6	168m E	FAULT	Fault, inferred, displacement unknown
12	335m NW	ROCK	Coal seam, inferred
14	433m SE	FAULT	Fault, inferred, displacement unknown
15	445m NW	FAULT	Fault, inferred, displacement unknown
17	475m S	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

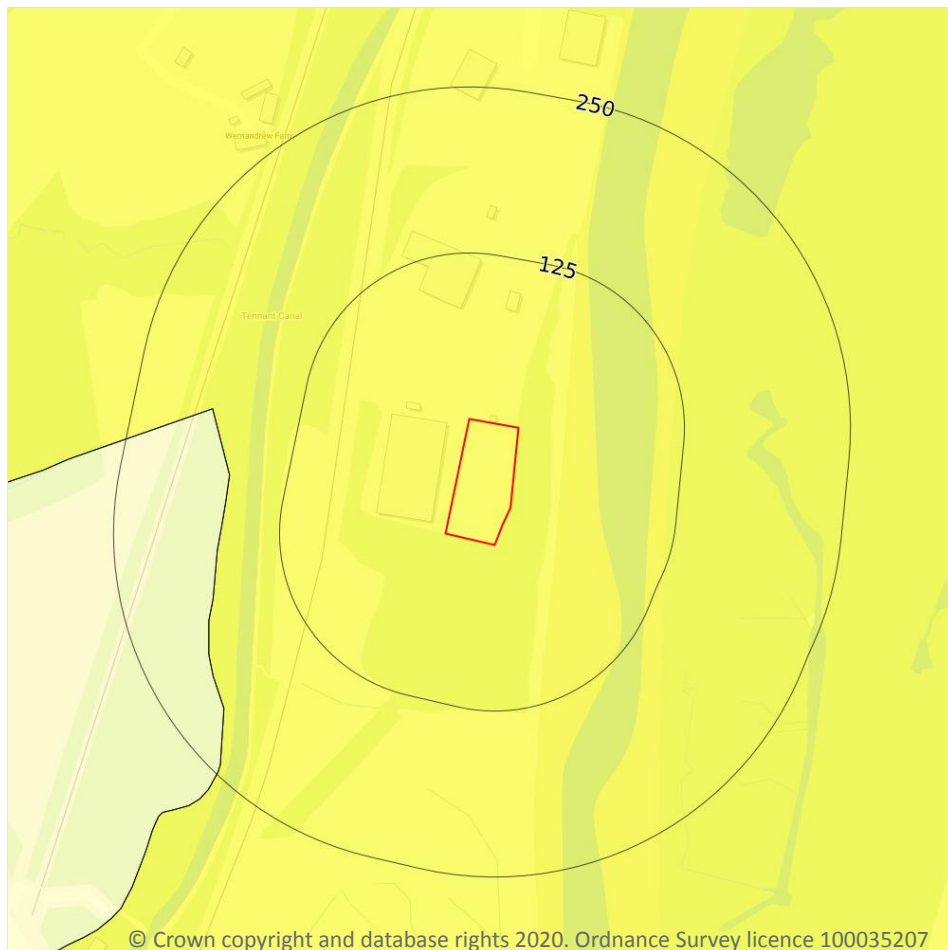
0

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.

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

1

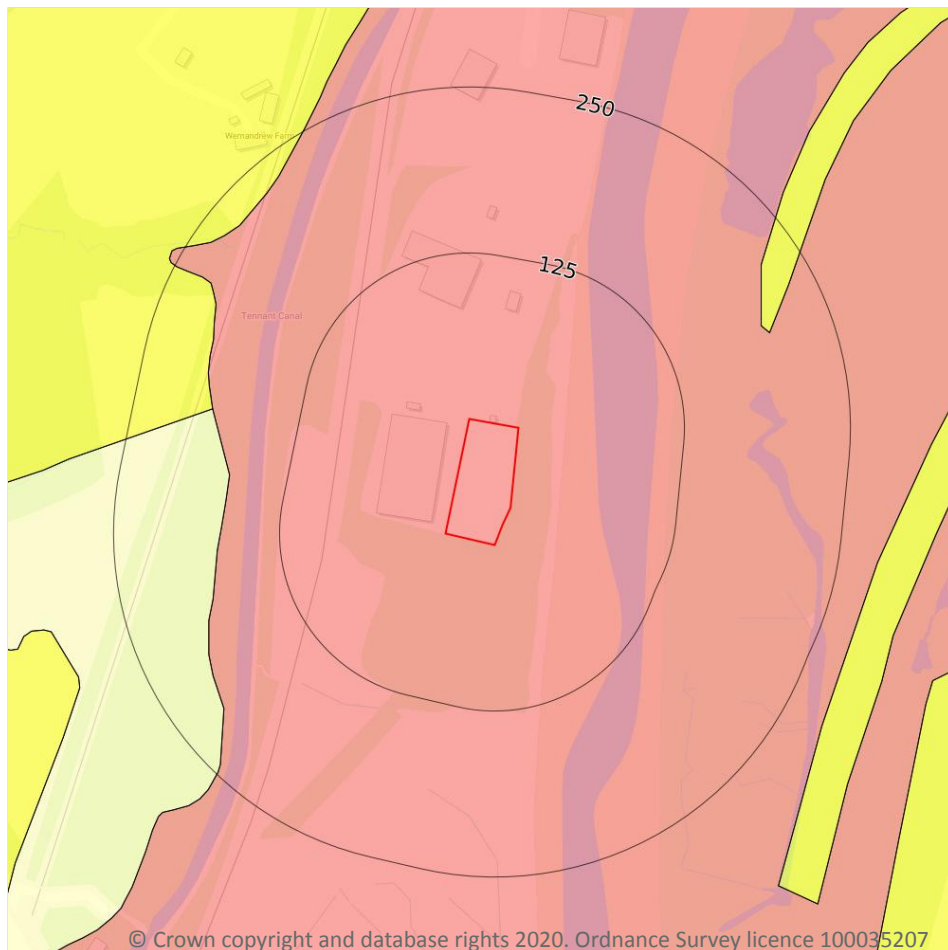
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 109**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

1

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.

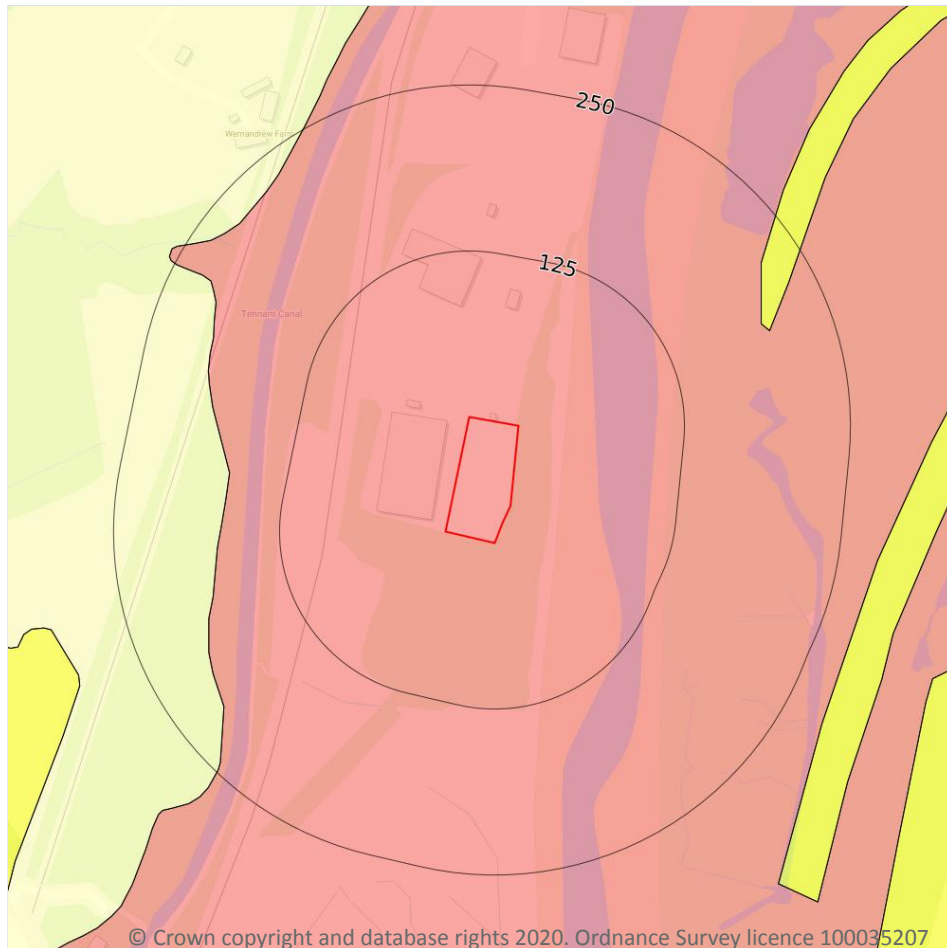
Features are displayed on the Natural ground subsidence - Running sands map on **page 110**

Location	Hazard rating	Details
On site	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

1

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.

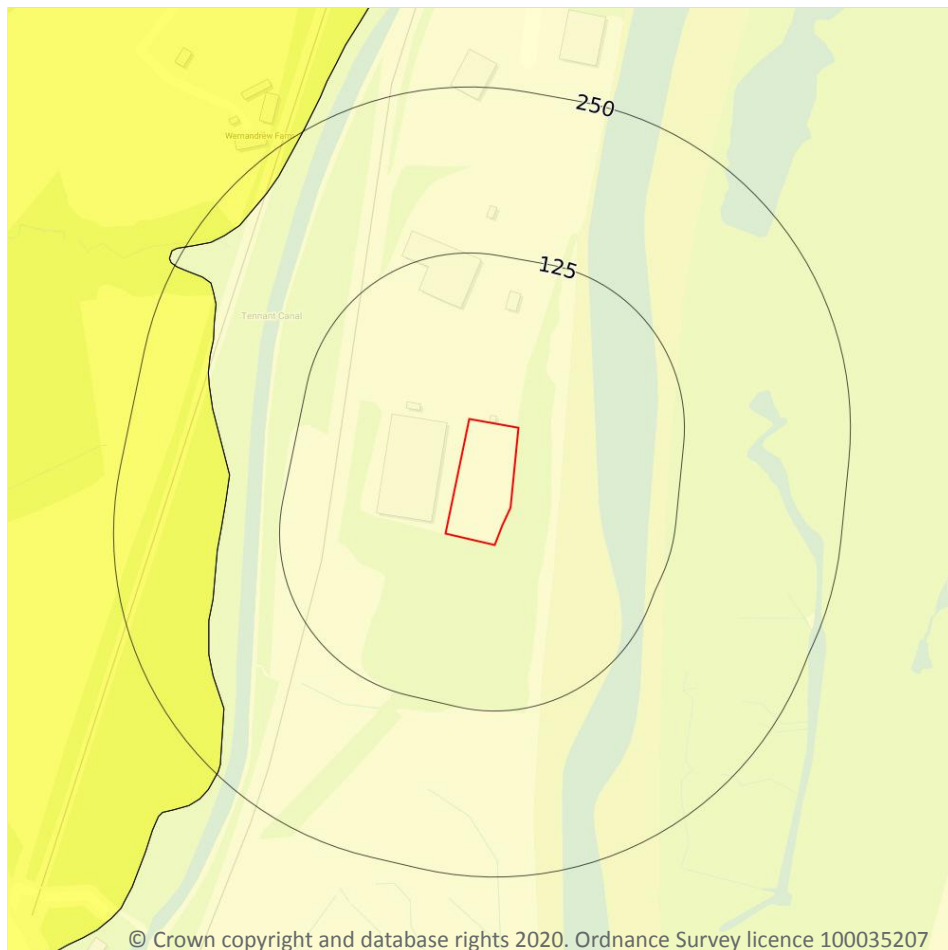
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 111**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

1

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.

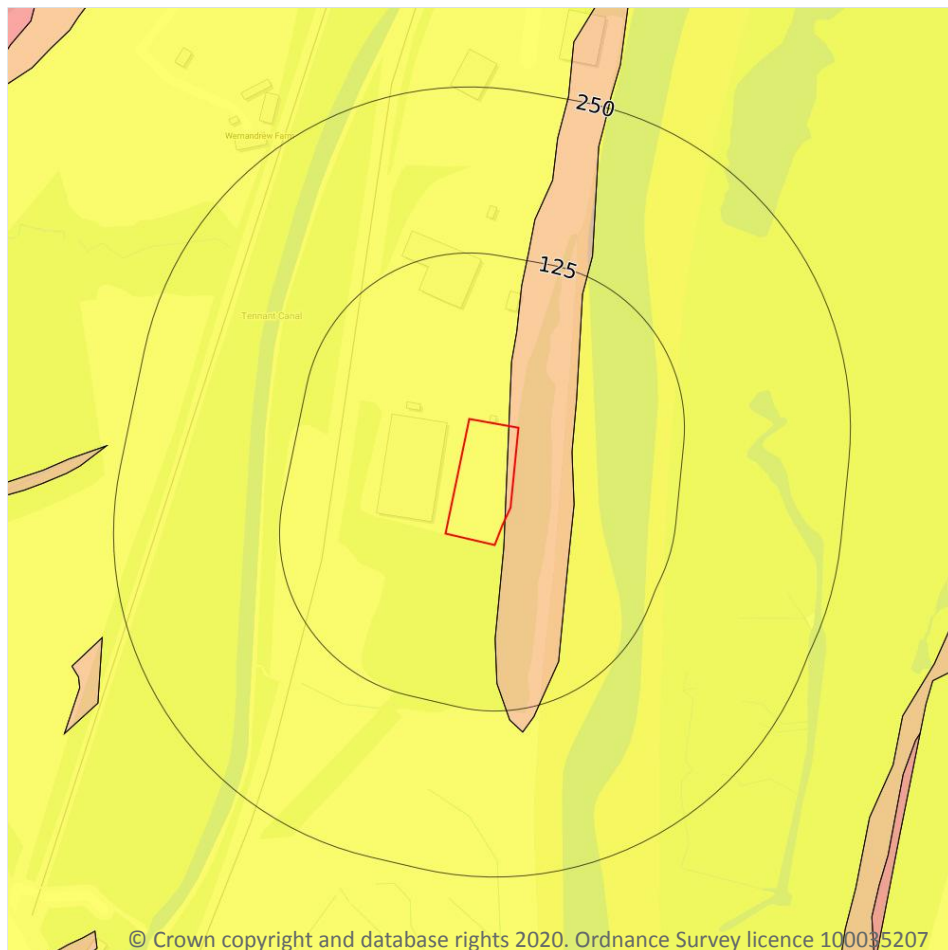
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 112**

Location	Hazard rating	Details
On site	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 113**

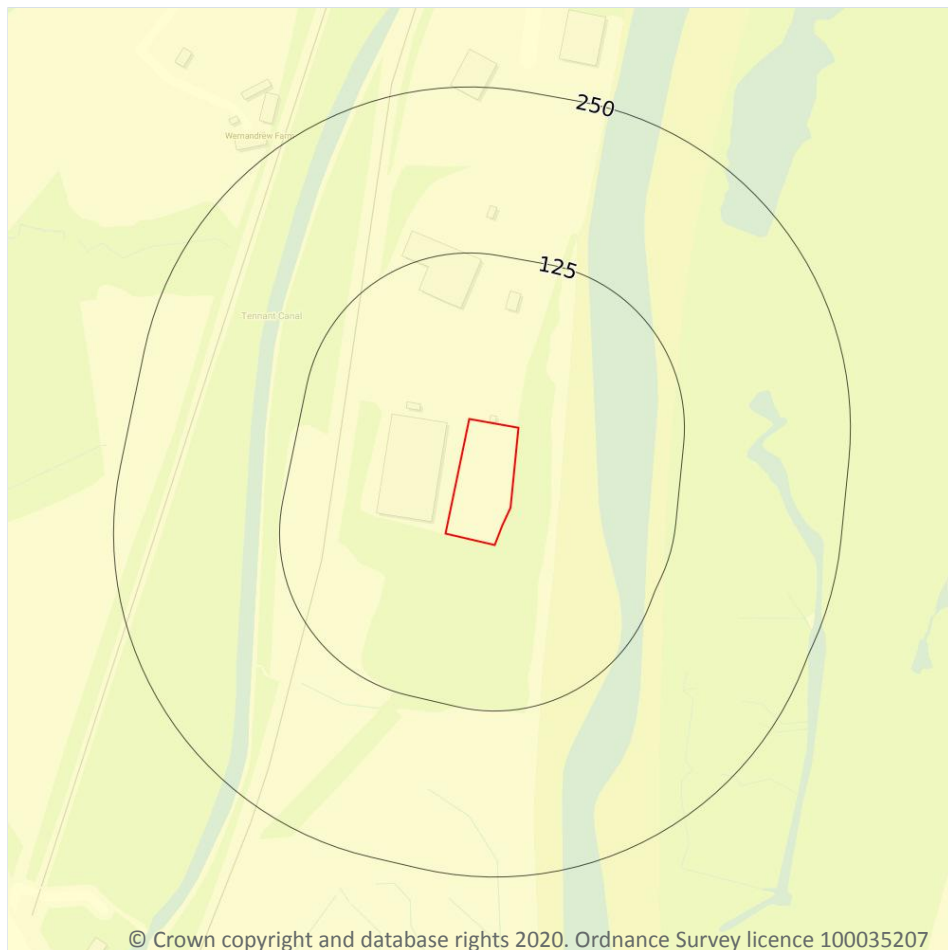
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

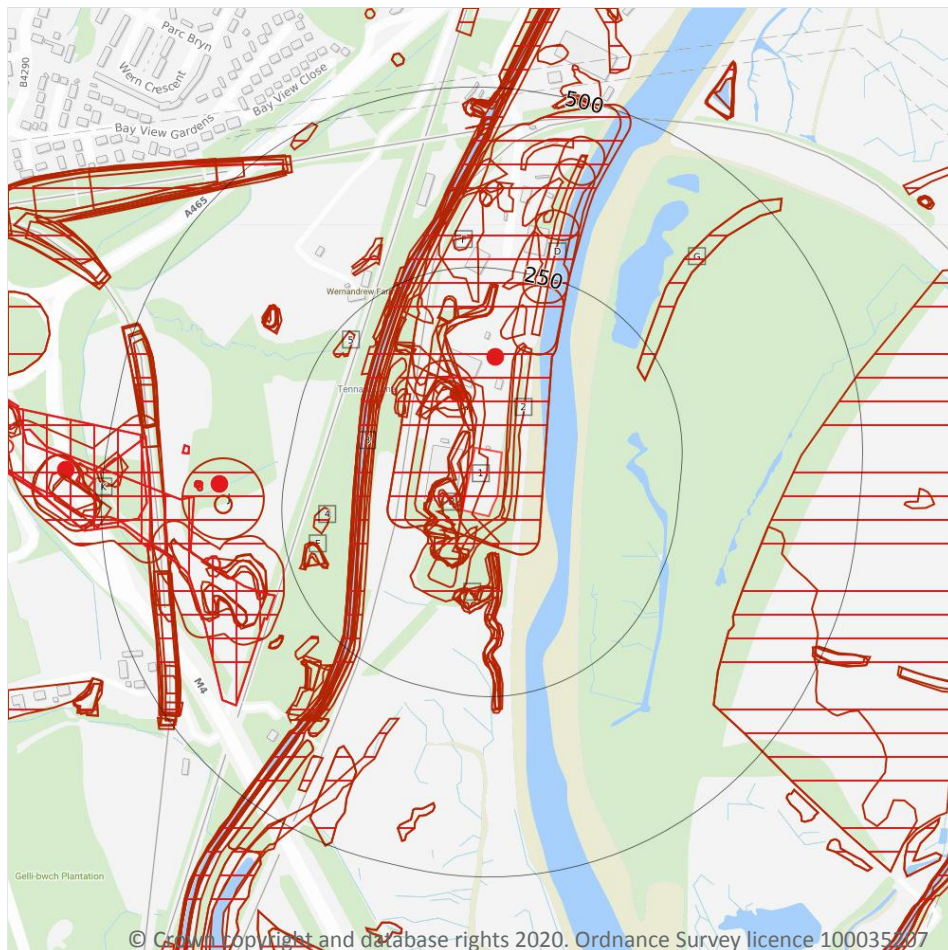
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 115**

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

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- 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 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 Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m

3

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, ground workings and natural cavities map on **page 117**

ID	Location	Details	Description
A	77m N	Name: Wern-Andrew Gravel Pit Address: Skewen, NEATH, West Glamorgan Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
A	129m N	Name: Wern-Andrew Gravel Pit Address: Skewen, NEATH, West Glamorgan Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
J	337m W	Name: Cwrt-y-bettws Colliery Address: Skewen, NEATH, West Glamorgan Commodity: Coal, Deep Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased 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.

18.3 Surface ground workings

Records within 250m

61

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, ground workings and natural cavities map on **page 117**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Ground Workings	1877	1:10560
A	On site	Unspecified Wharf	1992	1:10000
A	On site	Unspecified Wharf	1978	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
B	0m W	Unspecified Ground Workings	1914	1:10560
B	0m W	Unspecified Ground Workings	1914	1:10560
B	2m W	Unspecified Ground Workings	1921	1:10560
B	3m W	Unspecified Ground Workings	1914	1:10560
A	3m W	Old Gravel Pit	1914	1:10560
B	6m W	Unspecified Heaps	1914	1:10560
B	6m E	Unspecified Ground Workings	1948	1:10560
2	8m E	Unspecified Ground Workings	1964	1:10560
B	10m W	Unspecified Heap	1897	1:10560
B	18m S	Unspecified Heap	1897	1:10560
A	25m N	Refuse Heap	1914	1:10560
A	25m N	Refuse Heap	1914	1:10560
A	45m N	Old Gravel Pit	1897	1:10560
C	51m S	Unspecified Ground Workings	1914	1:10560
C	51m S	Unspecified Ground Workings	1914	1:10560
C	51m S	Unspecified Ground Workings	1914	1:10560
C	52m S	Unspecified Ground Workings	1948	1:10560
C	53m S	Unspecified Ground Workings	1921	1:10560
A	57m N	Old Gravel Pit	1914	1:10560
A	64m N	Pond	1877	1:10560
A	76m N	Old Gravel Pit	1921	1:10560
A	79m NW	Old Gravel Pit	1914	1:10560
C	97m S	Unspecified Ground Workings	1948	1:10560
C	97m S	Unspecified Ground Workings	1914	1:10560
C	98m S	Unspecified Ground Workings	1964	1:10560
A	104m NW	Unspecified Heap	1921	1:10560
A	108m NW	Unspecified Ground Workings	1948	1:10560
A	129m W	Canal	1948	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	132m W	Canal	1897	1:10560
A	136m W	Canal	1877	1:10560
A	136m W	Canal	1921	1:10560
A	140m W	Canal	1914	1:10560
A	141m W	Canal	1914	1:10560
3	142m W	Canal	1914	1:10560
A	142m W	Canal	1978	1:10000
A	142m W	Canal	1964	1:10560
A	144m N	Unspecified Wharf	1914	1:10560
A	156m NW	Unspecified Heap	1914	1:10560
A	156m NW	Unspecified Heap	1914	1:10560
A	156m N	Unspecified Pit	1948	1:10560
A	157m NW	Unspecified Heap	1948	1:10560
D	170m N	Unspecified Wharf	1914	1:10560
A	176m N	Unspecified Pit	1964	1:10560
A	177m N	Unspecified Pit	1948	1:10560
A	179m NW	Pond	1877	1:10560
A	182m N	Unspecified Ground Workings	1948	1:10560
A	182m N	Pond	1877	1:10560
4	184m W	Unspecified Heap	1897	1:10560
E	200m W	Refuse Heap	1914	1:10560
E	202m W	Refuse Heap	1914	1:10560
F	202m N	Pond	1877	1:10560
E	204m W	Refuse Heap	1914	1:10560
E	204m W	Refuse Heap	1914	1:10560
D	214m N	Unspecified Wharf	1914	1:10560
5	218m NW	Pond	1897	1:10560
G	222m NE	Unspecified Heaps	1978	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
G	222m NE	Unspecified Heaps	1964	1:10560
D	225m N	Unspecified Ground Workings	1948	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

22

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 117**

ID	Location	Land Use	Year of mapping	Mapping scale
K	285m SW	Colliery	1897	1:10560
J	362m W	Old Coal Pit	1921	1:10560
J	362m W	Old Coal Pit	1897	1:10560
J	366m W	Old Coal Pit	1948	1:10560
J	366m W	Old Coal Pit	1914	1:10560
J	387m W	Old Coal Pit	1914	1:10560
W	432m W	Colliery	1921	1:10560
W	437m W	Colliery	1914	1:10560
K	511m W	Coal Level	1877	1:10560
W	628m W	Coal Pit	1877	1:10560
-	772m W	Coal Pit	1877	1:10560
-	772m W	Unspecified Old Shaft	1964	1:10560
-	836m SE	Old Colliery	1948	1:10560
-	836m SE	Old Colliery	1914	1:10560
-	836m SE	Old Colliery	1921	1:10560
-	836m SE	Old Colliery	1921	1:10560
-	879m W	Unspecified Old Drift	1964	1:10560
-	917m W	Unspecified Old Drift	1921	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	936m W	Unspecified Old Shaft	1921	1:10560
-	937m W	Unspecified Old Shaft	1948	1:10560
-	937m W	Unspecified Old Shaft	1914	1:10560
-	940m W	Unspecified Old Shaft	1964	1:10560

This data is sourced from Ordnance Survey/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 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 Peter Brett Associates (PBA).



18.8 JPB mining areas

Records on site	0
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Areas which could be affected by former coal mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 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.

18.10 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.

18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.



18.13 Clay mining

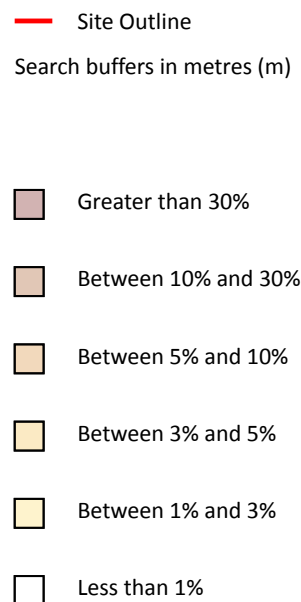
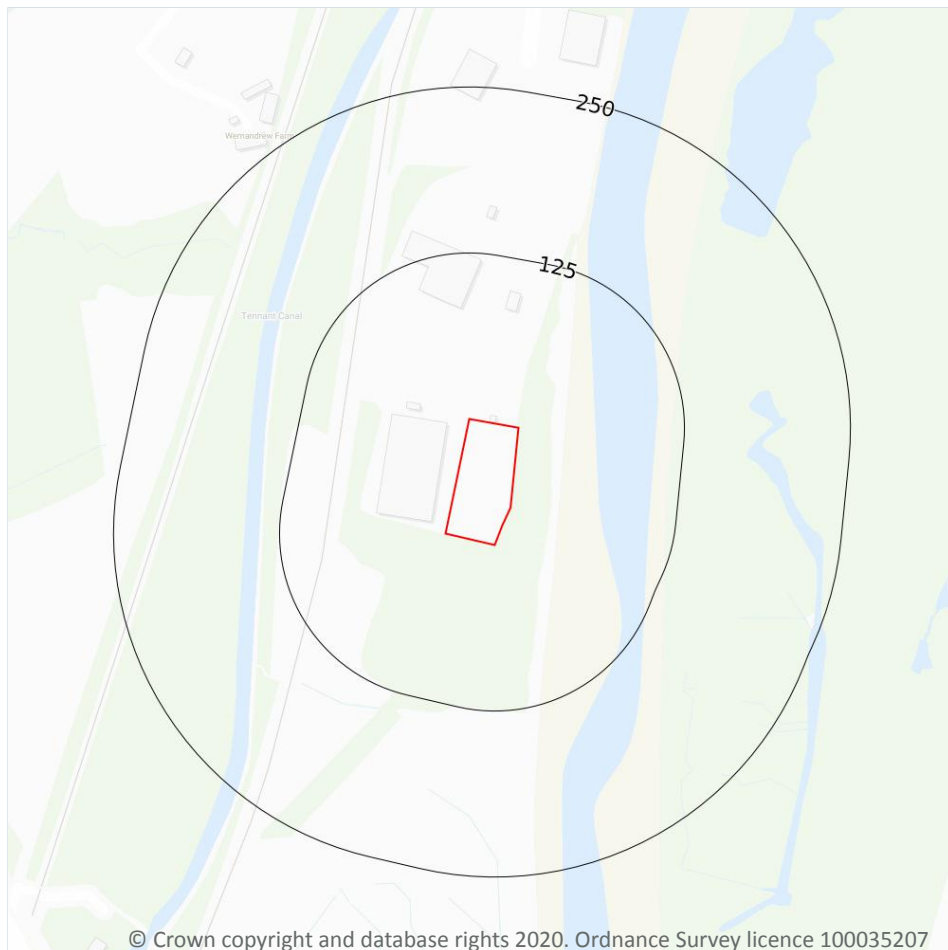
Records on site	0
-----------------	---

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 Radon



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 125**

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

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

1

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	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

6

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	46	8.1	355	244	1.7	96	173	62	64
On site	58	10.1	344	236	1.8	84	222	57	55
On site	61	10.7	405	278	2.1	86	238	65	58
On site	67	11.7	409	281	2.1	81	263	65	55
17m S	42	7.3	321	221	1.6	100	155	58	65
21m SW	51	8.9	301	207	1.7	89	185	54	58

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

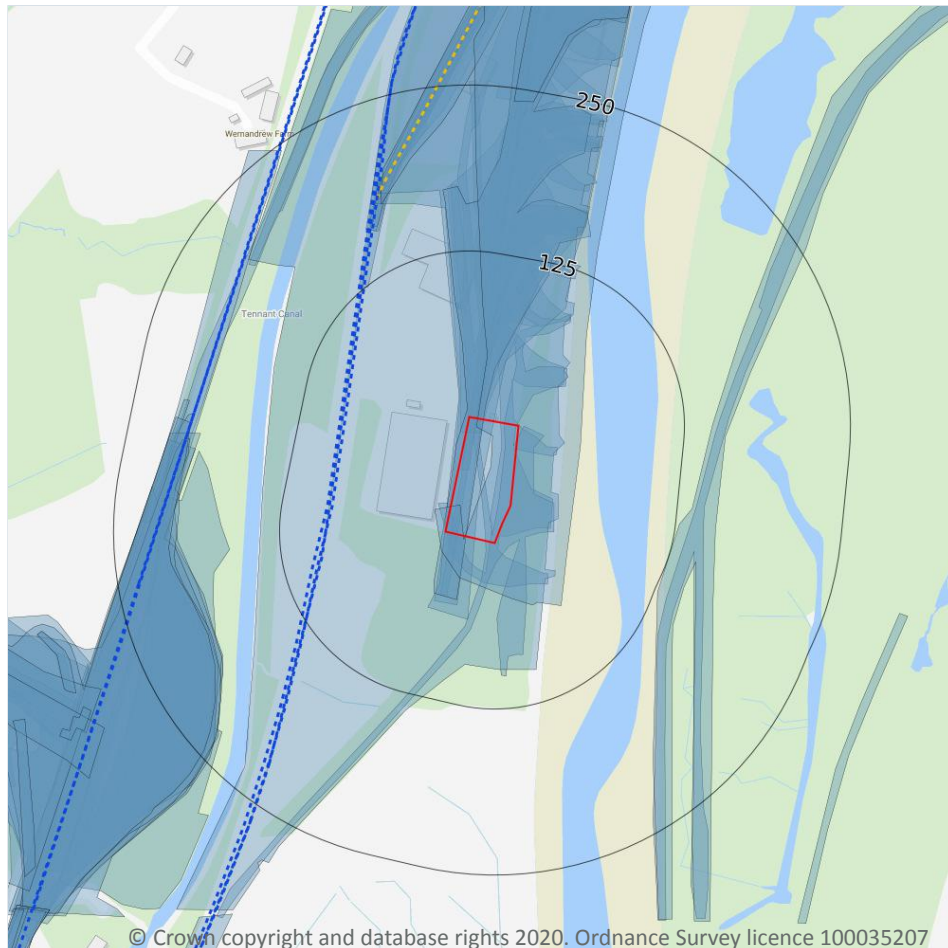
0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- 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

21.1 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.

21.2 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.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

25

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 128**

Location	Land Use	Year of mapping	Mapping scale
On site	Tramway Sidings	1881	2500
On site	Tramway Sidings	1899	2500
On site	Mineral Railway Sidings	1918	2500
On site	Railway Sidings	1940	2500
On site	Mineral Railway Sidings	1914	10560
On site	Railway Sidings	1921	10560
On site	Tramway Sidings	1897	10560
On site	Railway Sidings	1914	10560
On site	Railway Sidings	1877	10560
125m E	Tramway Sidings	1897	10560
133m E	Tramway Sidings	1899	2500
159m NW	Railway Sidings	1996	1250
163m W	Railway Sidings	1897	10560
177m N	Railway Sidings	1968	2500
179m N	Railway Sidings	1989	2500
188m W	Railway Sidings	1914	10560
190m W	Railway Sidings	1964	10560



Location	Land Use	Year of mapping	Mapping scale
193m W	Railway Sidings	1948	10560
193m W	Railway Sidings	1921	10560
193m W	Railway	1879	-
194m W	Railway Sidings	1940	2500
195m SW	Railway Sidings	1914	10560
198m W	Tramway Sidings	1899	2500
209m W	Railway Sidings	1881	2500
240m N	Mineral Railway Sidings	1914	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 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.

21.6 Historical railways

Records within 250m

1

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 128**

Location	Description
178m NW	Disused

This data is sourced from OpenStreetMap.



21.7 Railways

Records within 250m

8

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 128**

Location	Name	Type
88m W	-	rail
89m W	Not given	Single Track
91m W	-	rail
198m W	Not given	Single Track
198m W	Vale of Neath Railway	rail
219m SW	Not given	Single Track
229m SW	Not given	Single Track
234m W	Not given	Single Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 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.

21.9 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.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



APPENDIX D

Photographic Record

Photo Reference	Description
A	Site Layout Plan.
B	Location of Photographs.
C	Site access point in north west corner, adjacent to office area.
D	Main metal processing and screening facility, western perimeter.
E	The margins of the review area comprise concrete hardstand, the central area asphalt.
F	General storage area behind site office.
G	Recycled household products (tin cans), stockpiled in yard prior to being transported off site.
H	Screening plant in central part of the site. Incinerated scrap metal and aggregates are processed and stockpiled adjacent to it.
I	Stockpile of incinerated scrap metal adjacent to screening area.
J	Close up of incinerated scrap metal.
K	Stockpile of screened aggregate adjacent to screening area.
L	Scrap cars, north east corner (adjacent puddles of oily water).
M	Scrap pile, eastern boundary.
N	Rusted skip adjacent to eastern bund.
O	Pond in south east corner of site where surface water runoff collects.
P	Second surface water collection point, dried out.
Q	View of stockpile of crushed and baled tin cans from top of bund, south perimeter.
R	View of southern bund, which is heavily vegetated with a screen of trees.
S	View of area immediately south of main facility.
T	View of area immediately west of main facility.
U	Storage area for chemical agent (ad blue), southern perimeter of site. Ad blue is used to clean up diesel emissions.
V	Entrance to facility immediately north of review area.
W	Sims Metal Management facility immediately north of review area.
X	Red diesel dispensing point, off site adjacent to northern perimeter.
Y	Neath Abbey Wharf at north end of industrial estate.
Z	Neath Abbey Wharf at north end of industrial estate.

PHOTO 'A': Site layout plan

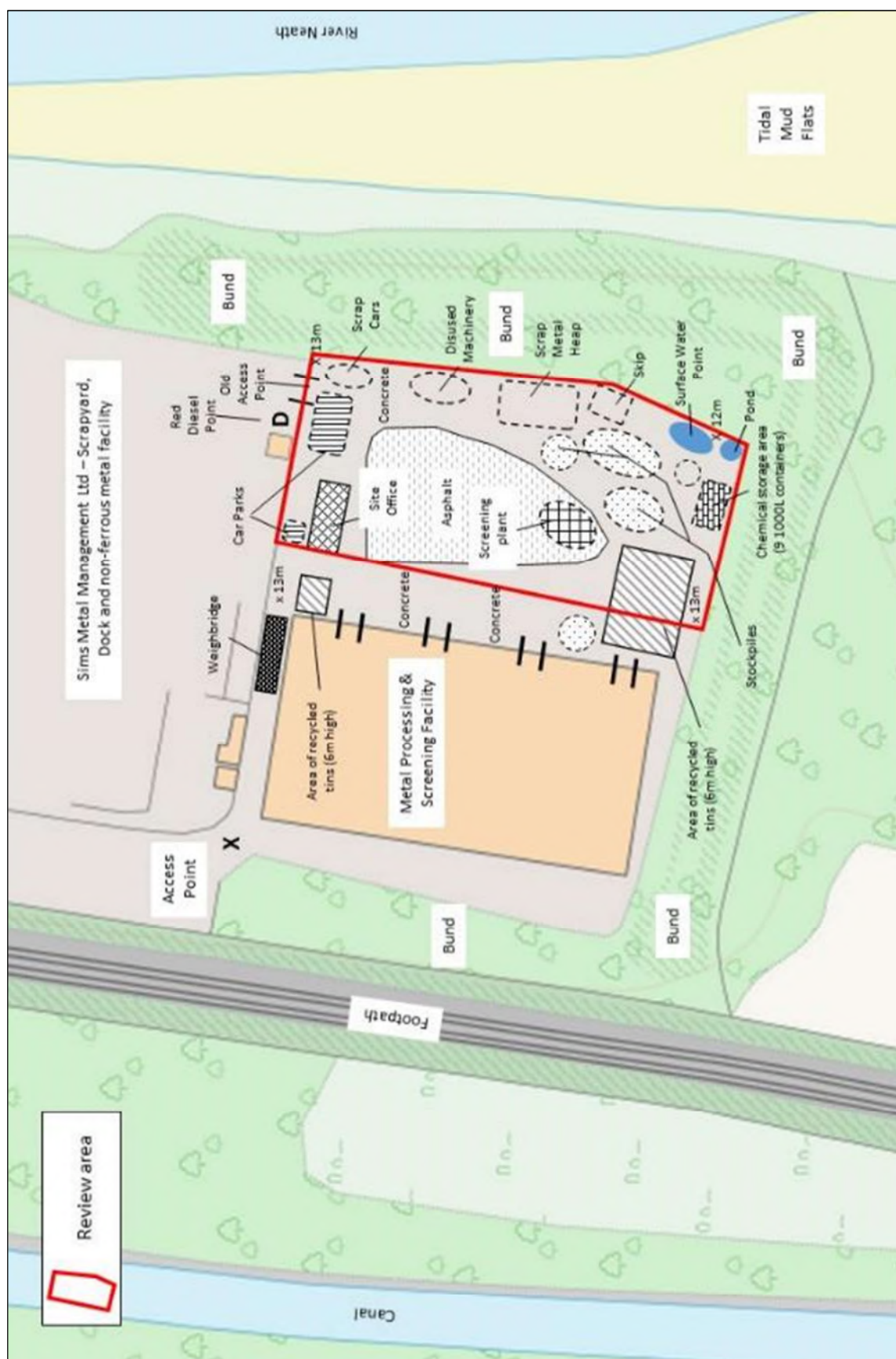


PHOTO 'B': Location of photographs

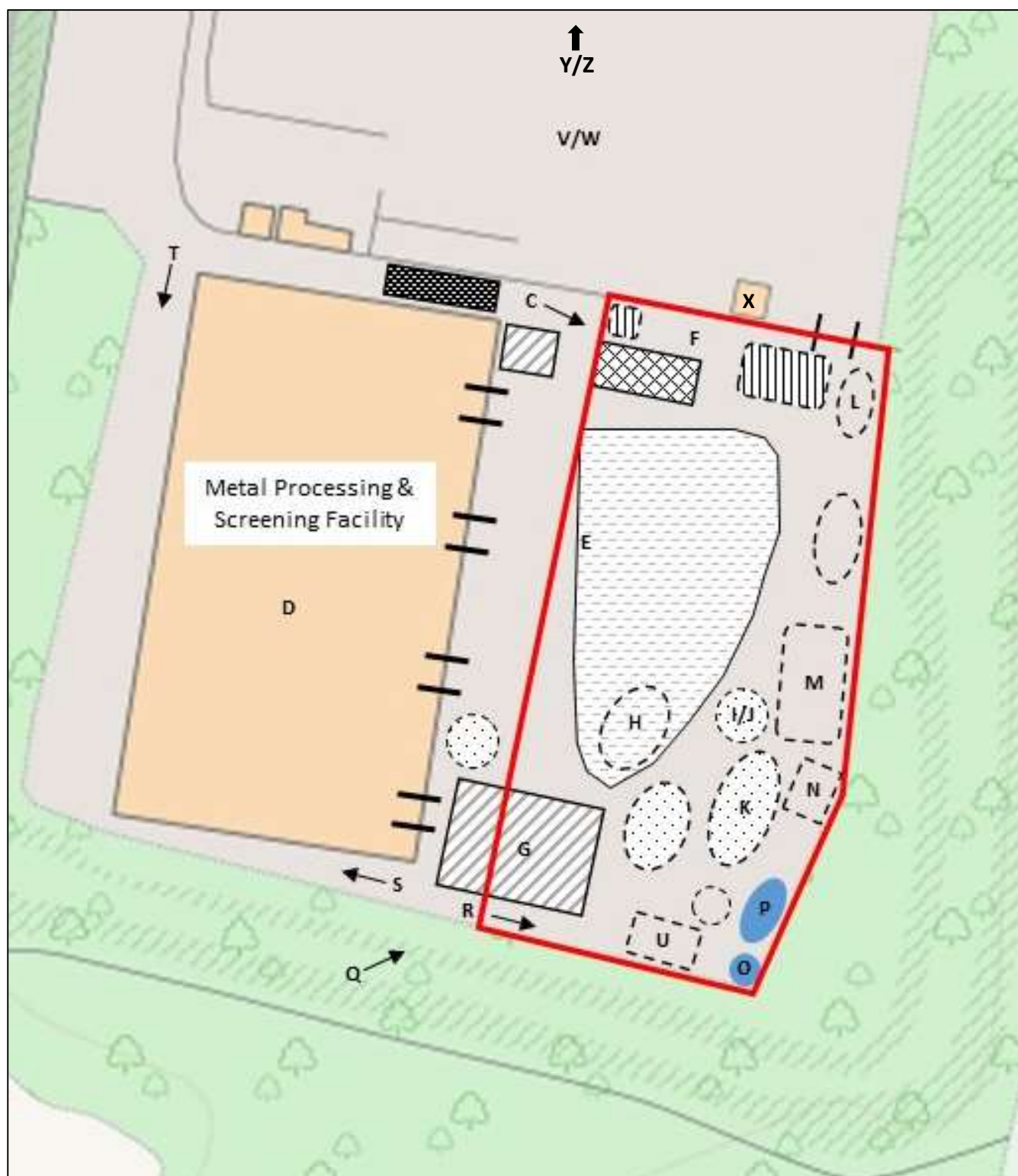


PHOTO 'C': Site access point in north west corner, adjacent to office area.



PHOTO 'D': Main metal processing and screening facility, western perimeter.



PHOTO 'E': The margins of the review area comprise concrete hardstand, the central area asphalt.



PHOTO 'F': General storage area behind site office.



PHOTO 'G': Recycled household products (tin cans), stockpiled in yard prior to being transported off site.



PHOTO 'H': Screening plant in central part of the site. Incinerated scrap metal and aggregates are processed and stockpiled adjacent to it.



PHOTO 'I': Stockpile of incinerated scrap metal adjacent to screening area.



PHOTO 'J': Close up of incinerated scrap metal.



PHOTO 'K': Stockpile of screened aggregate adjacent to screening area.



PHOTO 'L': Scrap cars, north east corner (adjacent puddles of oily water).



PHOTO 'M': Scrap pile, eastern boundary.



PHOTO 'N': Rusted skip adjacent to eastern bund.



PHOTO 'O': Pond in south east corner of site where surface water runoff collects.



PHOTO 'P': Second surface water collection point, dried out.



PHOTO 'Q': View of stockpile of crushed and baled tin cans from top of bund, south perimeter.



PHOTO 'R': View of southern bund, which is heavily vegetated with a screen of trees.



PHOTO 'S': View of area immediately south of main facility.



PHOTO 'T': View of area immediately west of main facility.



**PHOTO 'U': Storage area for chemical agent (ad blue), southern perimeter of site.
Ad blue is used to clean up diesel emissions.**



PHOTO 'V': Entrance to facility immediately north of review area.



PHOTO 'W': Sims Metal Management facility immediately north of review area.



PHOTO 'X': Red diesel dispensing point, off site adjacent to northern perimeter.



PHOTO 'Y': Neath Abbey Wharf at north end of industrial estate.



PHOTO 'Z': Neath Abbey Wharf at north end of industrial estate.



APPENDIX E

Coal Authority Mining Report



The Coal
Authority

CON29M

coal mining report

MORRIS AND CO, MORRIS AND CO, NEATH ABBEY WHARF, NEATH ABBEY WHARF ACCESS ROAD, SKEWEN, NEATH PORT TALBOT, SA10 6BL



Known or potential coal mining risks

Future underground coal mining

Page 3



Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **20103**
Our reference: **51002283665001**
Date: **29 April 2020**

Client name:
Alan Ashburn

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk

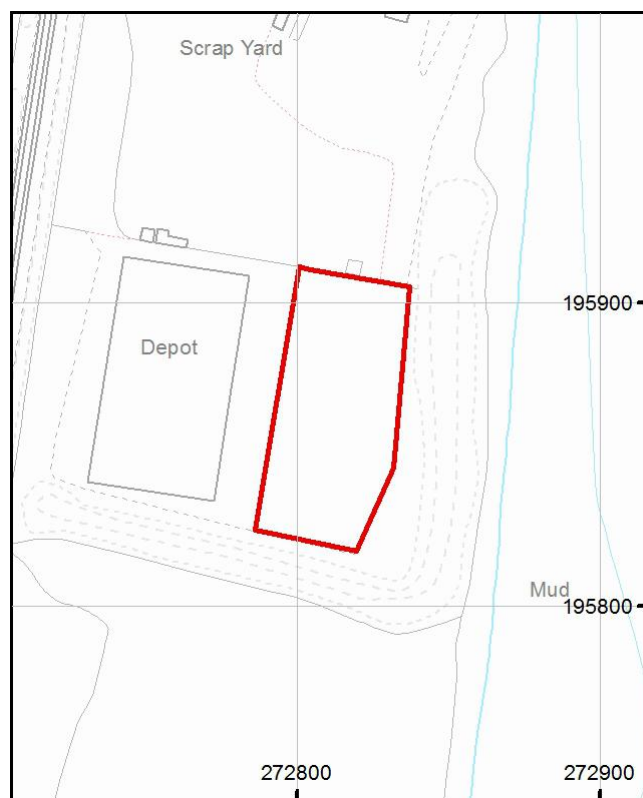


The Law
Society

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

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1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **01623 646 333**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

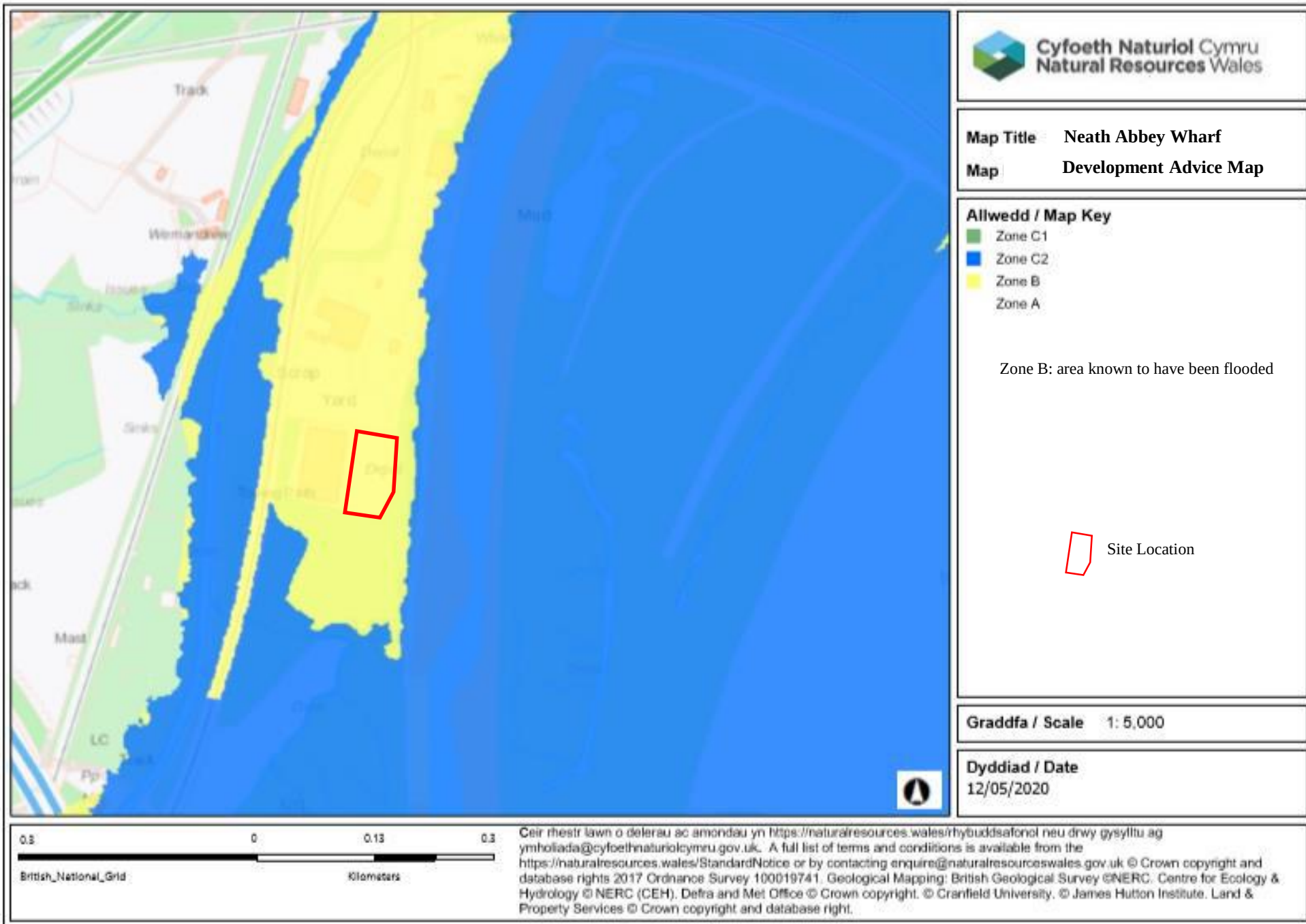
subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

APPENDIX F

Natural Resources Wales (NRW) Development Advice Map (showing flood zones)



APPENDIX G

Guide to the Risk Assessment Process Under CIRIA C552

The estimation of 'probability; and 'consequence' are made based on the following classifications:

The **probability** (likelihood) of a risk being realised can be classified as follows:

- **High Likelihood:** There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the longer term, or there is evidence at the receptor of harm or pollution;
- **Likely:** There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur or circumstances are such that the 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 such an event would take place and it is 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.

The **consequence** (severity) of a risk being realised can be classified as follows:

- **Severe:** Short-term (acute) risk to human health likely to result in 'significant harm' as defined by the Environmental Protection Act 1990, Part 2A. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings / property. Short-term risk to a particular ecosystem, or organism forming part of such ecosystem;
- **Medium:** Chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem;
- **Mild:** Pollution of non-sensitive water resources. Significant damage to buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings / structures / services. Significant damage to crops. Damage to the environment;
- **Minor:** Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent human 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.

Once the probability of an event occurring and its consequence have been classified, a risk category can be assigned from the Table below.

Risk Classification Matrix from CIRIA C552

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

The definitions of the risk categories within the above Table are provided in section 3.6 of the report.