



Tata Steel UK Limited

EAF Project

Phase 1 Desk Study

315531 R01 (01)

RSK GENERAL NOTES

Project No.: 315531

Title: Phase 1 Desk Study: EAF Project, Port Talbot, SA13 2NG

Client: Tata Steel UK Limited

Date: June 2024

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Status: Rev 01

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Revision control sheet				
Revision ref.	Date	Reason for revision	Amended by:	Approved by:
Rev 00	June '24	First issue	n/a	see above
Rev 01	June '24	Client comments	J Bloore	J Leach

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

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1 INTRODUCTION

1.1 Commissioning

RSK Environment Limited (RSK) were engaged by Tata Steel UK Limited, (18 Grosvenor Place, London, SW1X 7HS Company No. 05957565) herein referred to as the 'Client' to carry out a Phase 1 desk study services at the land at Tata Steelworks, Port Talbot, SA13 2NG.

The works were undertaken by means of client purchase order including client terms and conditions 4200102803 dated 11th May 2024, which forms the appointment between RSK and the Client.

References in this report to 'we', 'us', or 'our' shall mean RSK Geosciences as a trading name of RSK Environment Limited (company no.SC115530) at registered address 65 Sussex Street, Glasgow, G41 1DX.

The site location is provided in **Figure 1** and the site layout boundary to which this report refers is presented in **Figure 2**.

The report should be read and used in accordance with the limitations and constraints identified in the report text, and at **Appendix A – Service Constraints**.

1.2 Objectives

The site is being considered for the construction of an Electric Arc Furnace (EAF) and associated plant.

The objective of the work is:

- to identify any land contamination and geotechnical constraints to the proposed development and to support a future hybrid planning application
- to identify the need for any investigation or remediation works to demonstrate that the site is suitable for its proposed use

1.3 Scope of works

The scope of works has been developed in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. The assessment of the contamination status of the site is in line with the technical approach presented in Land Contamination Risk Management (LCRM) (Environment Agency, 2021a) and in general accordance with BS 10175: 2011 + A2 2017 (BSI, 2017). It is also compliant with relevant planning policy and guidance.

The scope of works for the assessment has included the following:

Desk study:

- review of the history of development on the site and surroundings
- assessment of local geology, hydrogeology and hydrology
- to consider potential risks from coal mining activities

- to request and consider relevant information provided by the local planning authority
- review previous reports pertaining to the site condition where available
- completion of a site reconnaissance survey to assess the visual condition of the site
- development of an initial conceptual site model (CSM) and preliminary risk assessment
- preliminary consideration of geotechnical constraints and hazards
- provide recommendations for further works should this be required.

1.4 Existing reports

The following reports detailing previous works at the site were made available for review:

- RSK Report 315075 R01 Project Cronus Preliminary Risk Assessment February 2022
- RSK Report 315075 R03 Geoenvironmental Ground Investigation Report March 2022
- RSK Report 315075 R04 Supplementary Phase 2 Geoenvironmental Ground Investigation Report October 2022
- Wardell Armstrong 12th April 2024 ST20879-0001 Technical Note Coal Mining Risk Assessment

1.5 Limitations

This report is subject to the RSK service constraints given in **Appendix A** and limitations that may be described below and throughout this document.

This report was prepared in accordance with good practice guidance at the time of issue. Consideration should be considered in the light of changes in legislation, statutory requirements, or industry practices subsequent to the date of issue.

The opinions expressed in this report, and the comments and recommendations given, are based on the information obtained from the desk assessment and the site reconnaissance survey. No intrusive investigations have been undertaken to confirm the actual ground conditions and hence the environmental status of the site.

The study aims to principally identify and assess the potential risks and liabilities associated with contamination of the ground, on and in the vicinity of the site. While this includes consideration of current operations and housekeeping on the site, the report does not constitute a comprehensive environmental audit of the site, as covered under ISO 14001.

The coal yard located in the south west of the site was inaccessible during the site walkover due to recent closures therefore risks associated with these areas could not be assessed. It is understood that is to be used as a lay-down area as such possesses a low risk to future site users.

Although asbestos may not have been encountered as part of these works, asbestos could be present in soil in discrete areas and may be encountered in future ground investigation.

A detailed survey of invasive plant species is outside the scope of this investigation therefore detailed comments with regards to such species have been omitted from this report.

The comments given in this report and the opinions expressed are primarily based on third party data and investigations, while RSK have undertaken a review of the information provided RSK cannot be held liable for the quality of the data provided. There may be conditions pertaining to the site that have not been disclosed by the investigations and therefore could not be taken into account.

2 SITE DETAILS

2.1 Site location

Site location details are presented in Table 1 and a site location plan is provided on **Figure 1**.

Table 1 Site location details

Site name	EAF Project
Full site address and Post code	Port Talbot, SA13 2NG
National Grid reference (centre of site)	277369 186217

2.2 Site description

The site boundary and current site layout are shown on **Figure 2**. The Site covers an area of c. 157 hectares. It is currently occupied by an active steelworks operated by Tata Steel.

For the purpose of this assessment the site has been separated into areas of proposed development (Area1), focusing on the development and construction of the EAF. The associated infrastructure for the development including the widening of existing roadways, car park and lay down areas have been considered as a separate area (Area 2). Area 1 is located to the east and north of the reservoir. The areas are shown on Insert 1 and 2 respectively below;

Insert 1 Area 1- shown in yellow



Insert 2 Area 2- shown in blue



The site itself is currently being used for multiple different uses. The centre of the site is being used as a scrapyard, majority of it being scrap metal from old appliances, industrial equipment, cars, and other items. The area just north of the scrap yard is used to store and screen different aggregates such as slag and concrete. The north eastern area of the site is mainly being used as steel slab storage yards. South of the slab yards are the HAA stockyards, which store and sort multiple types of aggregate such as slag, concrete, and other types of industrial rubble. To the west of the slab and stock yards is an area of vegetation with bushes and grass, the northern part of it is being used to store more aggregate, waste wood and other materials. Immediately south of this area is being used to store coal and associated infrastructure to supply Morfa Coke ovens off site to the west. Directly west of the coal storage area (disused) is cylindrical structure used to store gas which is also associated with the neighbouring coke oven. The southern end of the site is an undeveloped flat grass land area with no other current land use. The extreme northwest of the site encroaches onto the work reservoir, a water body located within the wider steelworks.

Area 1

The majority of the development will take place incorporating the existing areas of the HARSCO yard, BOS (Basic Oxygen Steelmaking) Plant, HRP- North Slab Yard and Continuous casting plant.

The HARSCO yard is located north of the lagoon and responsible for the processing of slag and comprises a number of large stockpiles. There is a central roadway for plant movement which is raised several metres. There was evidence of surface oil spills in some locations. The HARSCO yard comprises c. 10 hectares of the proposed development area.

The BOS plant is in an approximately rectangular building with railway lines leading in from the north. The area runs north to south adjacent to the HARSCO Yard. It is responsible for the production of steel from raw materials. The BOS Plant and rail lines in the proximity cover c. 5.60 hectares.

The HRP-North Slab Yard is the storage yard for the steel slab post production and is located on the north eastern boundary of the development site. This comprises surface road stone and rough vegetation and some above ground utility pipes and covers c. 4.5 hectares.

The areas have been shown on **Figure 3**.

Area 2

There are multiple roads running through the site and a several rail lines generally running north-south in the eastern part of the site. These connect the coal storage, slab and stock yards to the Paddington to Swansea main line railway to the northeast.

The area surrounding the site is predominately part of the steelworks. Directly west of the site is the Morfa Coke Ovens and associated infrastructure, where coal is blended and heated to form coke for iron production. Approximately 450m west is the Bristol Channel. South of the works reservoir and adjacent to the site boundary is a steel service centre. North of the works reservoir is the Basic Oxygen Steelmaking (BOS) plant and the Concast plant, where steel is made, treated and processed to ultimately form steel slabs. North of the BOS and Concast plants are various stock storage yards that also appear to contain aggregates such as slag, and two gas holders for the BOS plant and blast furnace. Further north of this is the Sinter plant and raw materials stock yards where iron ore, limestone, coal and coke are stored. To the east of the sinter plant are the blast furnaces and power plant where iron is produced from coke, iron ore and sinter as well as other materials.

The area directly east of the site and situated in the southeast of the wider steelworks is the Hot Mill where hot rolled products such as Hot Rolled Coils are produced from steel slabs. Again, throughout the steelworks are access roads and rail to transport products and raw materials.

Beyond the steelworks itself are residential and commercial areas to the north, residential and open fields hills to the east, a reservoir is present approximately 360m to the southeast, moorland to the south with Morfa beach and the Bristol channel to the west.

2.3 Surrounding land uses

The site is located in Port Talbot, within a predominantly industrial and commercial setting. Immediate surrounding land uses are described in Table 2.

Table 2 Surrounding land uses

North	Industrial steelworks, River Afan and harbour with residential and commercial area further north.
East	Industrial steelworks, residential area, open fields and hills

South	Open fields and moorland, reservoir to the south east owned by Tata Steel UK Limited
West	Coke ovens related to steelworks with beach and Bristol Channel further west

2.4 Proposed development plans

Details of the proposed ground levels have been provided therefore for the purpose of this report and are shown below in Table 3

Table 3 Proposed ground levels

Planning number	Description	Proposed GL
1	Canopy Hood	8200
2	Consteel Conveyor	8200
3	Fume Treatment Plant	8200
4	Shredded Scrap Yard	
5	Hot Briquetted Iron Dolo & Lime Bunker	8200
6	Ferro Alloys Bunker	8200
7	Fire Water Pump House	8200
8	Primary Pump House	8100
9	Secondary Pump House	7500
21	Main Power Centre	7000
22	Power Compensation Building	7000
23	National Grid Compound	7000
10	Melt Shop Power Distribution Building	7000
24	Incoming Scrap Yard Electrical Building	6000
11	Melt Shop WTP Electrical Building	8200
12	Melt Shop FEP Electrical Building	8200
13	Compressor House	8200
25	Scrap Storage & Processing Yard	7000
26	Overflow Scrapyard	7000
27	Non Ferrous Processing Area	6000
28	Scanning Facilities	5000
29	Railway Weigh Bridge	5000
14	Car Parking Area	7200
15	Changing & Office Block Building	7300
16	Emergency Tank	8200
17	Lagoon Water Pump House	8200
18	Green Walkway Extension	7300
30	HBI & Pig Iron Storage Area	5000
19	Active Carbon Injection Silos	8200

Based upon the available information provided for the southern section of the site from topographical drawings, there appears to be relatively little change between current and proposed development site levels (c.1m). Topographical information is not currently available for the area north of the site reservoir and OS mapping doesn't provide the level of detail required to comment.

The proposed layout of the site, at the time of preparing this report, is shown in **Appendix B**.

3 DESK-BASED ASSESSMENT

The desk-based assessment was designed to generally meet the objectives of a preliminary or Phase 1 investigation, as defined by BS 10175:2011+A2:2017 (BSI, 2017) and BS 5930:2015, and is set in context of a Tier 1 preliminary risk assessment as defined in LCRM.

The "vicinity" of the site for the purposes of this report is defined as locations situated within an approximate 250m radius of the site, although certain sources and/ or sensitive targets further than 250m distance from the site may also have been considered.

3.1 Site history

3.1.1 Historical development record

The development history of the site and surrounding area based upon assessment of historical plans. The records have been separated to assess the historical uses of the site for the areas of the proposed developments and the areas of non-development (i.e lay down areas and infrastructure) is detailed in Table 4 and Table 5 respectively. Table 6 summarises the historical summary of the surround area.

The historical maps reviewed are shown within the environmental database report in **Appendix C**.

Table 4 Summary of historical development on site for the proposed developments areas

Date from	Date to	Historical Land Use (on-site)	Area of site
1876	1921	The area is predominately undeveloped, there are a number of buildings associated with the Morfa Colliery labelled 'Pit row', 'office row' and 'Overman's Row' in the southern part of the site. A railway line is present serving both Grange Pit and Abbot Pit shown east and south of the area. The area is shown to mainly comprise of marsh/dunes. The remains of a hermitage is noted from 1897 towards the west within the site boundary.	All
1947	-	The 2 pits are no longer labelled and the colliery development is reduced in size	
1965	Present day	The site is shown in a similar layout to the present day. The reservoir is shown with large scale development of the steelworks to the east, north and south east of the proposed development area .	

Table 5 Summary of historical development on site for the non development areas

Date from	Date to	Historical Land Use (on-site)
1876	-	The site comprises mainly of open fields with associated field boundaries. Field boundaries are marked by drainage ditches. There is a large pond to the northeast of the site, with marsh land around it. At the north end of the site is a colliery and associated infrastructure such as pits, shafts and unspecified tanks as well as another coal pit west of the pond. A rail line runs from the north to Abbot Pit.
1897	-	Boundary of pond has been reduced.
1914	1949	Boundary of pond has been reduced.
1949	1965	Disused rifle range from 1965, unclear when it was active.
1965	-	Significant industrial infrastructure (steelworks) has been built on north and west of the site. A works reservoir has been dug out and encroaches the very northwest of the site, which is situated next to the steelmaking plant. Rail lines have been constructed to service the steelworks to the north, on and around the site, passing through in a general north to south direction. A variety of buildings have been constructed associated with the expansion of the steelworks. The buildings to the east appear associated with the large buildings just outside the site boundary, which in the present day is the hot mill. Disused rifle range to the west of the site. South end of the site remains unchanged as open fields divided by drains and ditches.
1982	-	Fields in the centre and west of the site are cleared of drains and disused rifle range is made level. Additional construction of small buildings associated with the steelworks to the centre north of the site, possibly associated with the Concast plant. A pond area has been developed around 'lower mother ditch'.
1988	1993	Several of the rail sidings have been dismantled running north to south and a new line has been constructed within the centre of the site. Buildings within the northwest of the site have been developed and additional infrastructure such as conveyors and pipelines added, these are assumed to be associated with the Grange Coke Ovens. Several conveyor systems for coal have been constructed to the centre and west of the site that appear to service the coke ovens situated just off site to the west. A gas holder in 1991 was constructed, again to service the coke ovens just off site. Fields in the south remain unchanged. A chimney was constructed in 1991 in the far north western corner
2001	-	A number of the smaller buildings have been demolished in the north western end of the site.
2006	-	Further demolition of buildings on the northwest of the site. Infrastructure present in the far northwest corner possibly

Date from	Date to	Historical Land Use (on-site)
		part of the aggregate screening and area just further south becoming part of the scrap metal remediation yard.
2009	-	Development of the HAA stockyards. Majority of it unused previous to 2009, now populated with aggregate and some associated infrastructure.
2013	-	Construction of gas holder to the south of existing one, associated with coke ovens. Development of a smaller circular coal yard just to the east of the new gas holder and connected to existing conveyor belts.
2015	-	Grass area just south of the scrap yard has hard standing area built.
2016	-	Hard standing area populated with what appears to be scrap metal.
2018	-	Another hard standing area constructed just south of the stockyard.
2020	2021	Original gas holder for coke ovens removed. Scrap yard filled with more scrap. Hard standing area south of stockyards extended east.

Table 6 Summary of historical development in the vicinity of the site

Date from	Date to	Historical Land Use (off-site)	Distance (m) and orientation
1876	1965	The site lies within mainly an agricultural area and moorland. Grasslands to the west, a beach and Bristol channel further out. To the North are buildings related to the colliery on site and a small railway coming from the north. To the east is the main railway line running north and south with agricultural fields east and west of it. South of the site is moorland.	-
1965	Present day	The steelworks is shown to extend further north with numerous buildings, roadways and railway lines The town of Port Talbot is shown comprising predominately as a residential development to the north.	

3.1.2 Unexploded ordnance

A review of publicly available unexploded ordnance (UXO) risk maps indicates that the site is in an area with low and medium potential for wartime bombs to be present (Zetica, 2024). A detailed UXO risk assessment has been carried out by RSK Ordnance, which

shows that the northern half of the site is classified as medium risk with the southernmost field are classified as low risk. A copy of the report is included in **Appendix D**.

3.2 Information from environmental database report

Relevant environmental permits and incidents detailed within the environmental database report (see **Appendix C**) are summarised below in Table .

Table 7 Summary of environmental permits, landfills and incidents

Data type	Entries on-site	Entries <250m from site	Entries >250m from site of relevance	Details
Agency and hydrological				
Environmental permits – incorporating Environmental Permitting Regulations (EPR) and/ or Pollution Prevention and Control (PPC) permits; former Integrated Pollution Controls (IPC), Local Authority Pollution Control (LAPC)	-	-	-	
Enforcement and prohibition notices	-	-	-	

Data type	Entries on-site	Entries <250m from site	Entries >250m from site of relevance	Details
Pollution incidents to controlled waters, Prosecutions relating to controlled waters, Substantiated pollution incident register, Water Industry Act referrals	21	51*	16*	<p>On site (events where 'no impact' was recorded have not been summarised below;</p> <p>30/05/2016 smoke resulting in Category 3 air impact.</p> <p>31/05/2016 smoke resulting in Category 3 air impact.</p> <p>08/06/2016 pollutant unknown Category 3 air impact.</p> <p>29/03/2016 smoke resulting in Category 3 air impact.</p> <p>07/08/2016 pollutant unknown Category 3 air impact.</p> <p>08/06/2016 smoke resulting in Category 3 air impact.</p> <p>04/06/2001 dust resulting Category 3 for Water, land and air impact.</p> <p>*Full details are included within the appended Groundsure report</p>
Discharge consents	1	-	-	Final/treated effluent from site into Swansea Bay effective from 26/03/2021

Data type	Entries on-site	Entries <250m from site	Entries >250m from site of relevance	Details
Registered radioactive substances	1	-	-	Active from 01/06/1998, this was last up-dated 01/01/2015- superseded by variation
Landfill and waste				
Active landfills	-	-	2	The nearest is located 263m south.
Historical / closed landfills	2	0	0	Refuse tip noted 16m west on 1974 mapping and 76m north on 1952 mapping.
Other waste management licences	0	1	1	Waste transfer station noted 223m south
Potentially in-filled land (pit, quarry, pond, marsh, river, stream, dock etc)	-	-	-	
Hazardous substances/ industrial land uses				
Control of Major Accident Hazards (COMAH) sites	2	1	-	COMAH upper tier operator in site
Explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS), Planning hazardous substance consents/ enforcements	1	-	-	Historical NIHHS site
Contaminated land Part 2A register entries and notices	-	-	-	
Fuel station entries	-	-	-	
Note: Entries have only been included within the table where they are located within a 250m radius of the site or, where they fall outside of this radius but are considered to comprise a significant entry.				

3.2.1 Site services

Obtaining a full set of service plans was outside the scope of this report.

Buried utility services and their backfill can represent a constraint to development and act as preferential migration pathways for gas, vapour or groundwater towards a receptor.

3.3 Summary of previous reports

A summary of pertinent information from previous reports pertaining to the site is included below in Table 8.

Relevant information relating to the identified ground and groundwater conditions has not been included within the table below but has been incorporated into the relevant parts of Sections 3.4 - geology and 3.5 – mining and quarrying.

Table 8 Summary of previous reports

Report Details	Project Cronus 315075 R03 (01)Phase 2 Geoenvironmental Ground Investigation Report (March 2022)
Site coverage	Previous works under Project Cronus involved the south sections of this site and extended further south beyond this proposed development.
Summary scope of works	Boreholes, trail pits with geotechnical and contamination testing
Does the client have reliance upon the report?	Yes
Key factual findings	<p>The proposed development area had been sub-divided into 2 separate areas. Area 1 includes the active works, yards and open spaces located with the steelworks itself. Area 2 includes the unoccupied fields in the south of the site. Area 1 is summarised below in more detail as it overlaps with this investigation.</p> <p>Made Ground was encountered up to 6.00m, predominantly containing gravel and occasional cobbles size fragments of slag with some brick and clinker. Asbestos and hydrocarbon impacted soils were noted, most notably across the area of the former Grange Coke Ovens.</p> <p>The Tidal Flat Deposits were encountered beneath the Made Ground with thicknesses (where proven) between 15.80 and 30.80m. The Tidal Flat Deposits comprised silt, clay and peat. The upper horizons were locally noted to have olfactory evidence of hydrocarbon impact.</p> <p>South Wales Coal Measures were proven at a depth of between 15.90 and 20.60m typically as a weak mudstone, typically becoming less weathered with depth. Intact coal was present in BH10 at 20.50m, the base of which was not proven.</p> <p>Groundwater was encountered at shallow depth during the fieldworks and also within the deeper stata.</p>

Report Details	Project Cronus 315075 R04 (00) Supplementary Phase 2 Geoenvironmental Ground Investigation Report (October 2022)
Site coverage	Previous works under Project Cronus involved the south sections of this site and extended further south beyond this proposed development.
Summary scope of works	Boreholes, trial pits with geotechnical and contamination testing
Does the client have reliance upon the report?	Yes
Key factual findings	<p>Supplementary work focuses on the Regen Yard and surround areas to delineate contamination identified during the previous works. The ground conditions were in line with the previous works.</p> <p>Visual and olfactory evidence of hydrocarbon impacted soils were noted at a number of locations in the Made Ground and Tidal Flat Deposits . A sandy layer at the base of the Made Ground often had visual and/or olfactory evidence of contamination present.</p> <p>There was no olfactory or visual evidence of any gross contamination impact beyond the Tidal Flat Deposits.</p>

3.4 Site geology

3.4.1 Anticipated geological sequence

Published online records (British Geological Survey) for the area and available historical borehole logs indicate the geology of the site to be characterised by the succession recorded in **Table 9**. There are 7 publicly available BGS historical boreholes located on or within 250 m of the site, which appear to confirm the published geology. .

Table 9 Site geology

Strata	Description	Estimated thickness	Permeability
Anticipated Made Ground	Clay, silt, sand and gravel with low to high cobble content. Made up of reworked natural and anthropogenic material such as slag, brick, and concrete with metal and other anthropogenic materials.	Variable. Up to 6m.	Variable. Possibly medium to high where predominantly gravel material is present.
Tidal Flat Deposits	Tidal Flat Deposits, including mud flat and sand flat deposits, are deposited on extensive nearly horizontal marshy land in the intertidal zone that is alternately covered and uncovered by the rise and fall of the tide. They consist of unconsolidated sediment, mainly mud and/or sand. They may form the top surface of a deltaic deposit. Normally a consolidated soft silty clay, with layers of sand, gravel and peat.	Approx. 15m	Very low to moderate
Glacial Deposits (Boulder Clay)	Gravelly clay with cobbles	Approximately 13m.	Low
Undifferentiated South Wales Coal Measures Formation	Coal-bearing mudstones/siltstones, and sandstones.	Up to 300m	Low
Relevant information sources: BGS Geoindex <input checked="" type="checkbox"/> BGS borehole logs <input type="checkbox"/> Previous SI reports <input checked="" type="checkbox"/>			

With reference to the historical data there have clearly been several phases of significant construction and demolition on the site and therefore the presence of Made Ground should be expected.

3.4.2 Radon

The environmental database report indicates that the site is located within an area where less than 1% of homes are above the Action Level (termed an 'Affected Area') and indicates that radon protection measures are not required.

3.5 Mining and quarrying

Evidence has been sought to identify any mining, quarrying, landfilling and land reclamation operations, past and present, which have taken place within 500m of the site.

3.5.1 Coal mining area

The site is located over Coal Measures bedrock and may therefore have been affected by coal mining activities. In these areas the assessment of mining legacy issues should be carried out in accordance with the guidance provided by the Coal Authority, who adopt a risk-based approach for the advice that they offer on proposed development sites. The Coal Authority are a statutory consultee to Local Planning Authorities in respect of building development within the defined coal mining areas of England, Wales and Scotland where a planning application is required.

An initial site appraisal has been carried out based on the information provided on the Coal Authority Interactive Viewer of the UK Coalfield areas.

This indicates the site lies within the Coal Authority Consultation Area and includes Development High Risk Areas. It is a requirement for development within a High Risk Areas to prepare a desk-based Coal Mining Risk Assessment (CMRA) report to support planning applications for new building developments.

A CMRA needs to consider a number of sources of information to determine coal mining issues relevant to a site, it then needs to identify and assess the site-specific coal mining risks and propose an appropriate mitigation strategy relevant for the proposed site end-use. A technical note on the coal mining risk is presented within **Appendix D**.

3.6 Hydrogeology

A summary of the hydrogeological setting of the site, with respect to the anticipated geological sequence set out in Section 3.4 is presented below in Table 10.

Table 10 Summary of hydrogeological setting

Condition	Description
Aquifer characteristics	<p>The site is underlain by a secondary aquifer relating to the South Wales Lower Coal Measures. The superficial Tidal Flat Deposits across the majority of the site are classified as Secondary (undifferentiated). The north-eastern corner of the site is classified as Secondary A aquifer relating to the 'blown sand' deposits.</p> <p>The presence of low permeability clay at relatively shallow depths beneath the site, while restricting downwards migration, may increase the potential for lateral migration of shallow groundwater (and therefore mobile contamination, if present).</p>

Condition	Description
	Groundwater quality beneath the site may be affected by saline intrusion.
Depth to groundwater and flow	Groundwater in the site area is anticipated to flow in a northerly direction, i.e. towards and in the direction of flow of the Bristol Channel. It is also likely that shallow water may be present in any Made Ground deposits present on-site.
Rising groundwater levels	The site is located in a former coal mining area and may be associated with rebounding groundwater levels following the end of mining and associated dewatering (see Section 3.5).
Groundwater recharge/attenuation	Large areas of the site are currently covered with buildings and hardstanding and therefore this will limit infiltration to ground and groundwater recharge, except where SUDS are present (details of which are unknown)
Historical implications for hydrogeology	A partially culverted stream known as the Lower Mother Ditch runs approximately north to south along the eastern edge of the site.
Licensed groundwater abstractions	The environmental database report indicates that there are 2 current licensed groundwater abstractions of within a 1km radius of the site.
Source protection zones	Information available in the Groundsure report indicates that the site does not lie within a currently designated groundwater Source Protection Zone (SPZ).

3.7 Hydrology

A summary of the hydrology within the site area is summarised in Table 11.

Table 11 Summary of hydrology in site area

Condition	Description
Surface watercourses/features	A number of surface water features are present across the wider site. Most notably is the tidal zone running north-west to southeast approximately 50m from the site. On site there is a man-made body water body located in centre of the site along with number of drainage ditches located along field boundaries to the south of the development area. Lower Mother Ditch runs south to north through the site area via unmapped culverts.
Surface water abstractions	The environmental database report indicates that there is 1 current licensed surface water abstraction within a 1km radius of the site, located on site and utilised for process water.
Site drainage	Surface drainage from the site appears to be discharged into Lower Mother Ditch which runs across the site from south to north although this is not confirmed.
Preliminary flood risk assessment	The indicative floodplain map for the area, shows the risk of flooding each year has been assessed by NRW as moderate –i.e. 1.3% (1 in 75) or less, but greater than 0.5% (1 in 200). A flood risk assessment (FRA) is outside the scope of this report.

3.8 Sensitive land uses

Table 12 provides a summary of any environmentally sensitive areas identified within 250m of the site based on the environmental database report.

Table 12 Environmentally sensitive areas

Feature	Present within 250m of site?	Details	Likely pathways from site?
International designations – Ramsar wetland, Special Area of Conservation (SAC), Special Protection Area (SPA)	No		N/A
National designations – Site of Special Scientific Interest (SSSI), National Nature Reserve (NNR), ancient woodland	Yes	SSSI- Margam Moors	No- up hydraulic gradient bounding the site to the south
Local designations – Local Nature Reserve, Site of Importance for Nature Conservation (SINC)	No		N/A
Nearest high sensitivity development, e.g. residential	n/a		No

4 SITE RECONNAISSANCE FINDINGS

A site reconnaissance survey was completed on 13th to 15th May by RSK. The characteristics of the site observed during the walkover and from current ordnance Survey maps are summarised in Table 13.

A site plan is provided in **Figure 2** with photographic records included in **Appendix E** detailing the main features identified below.

Whilst the walkover summary includes consideration of current operations and housekeeping on the site as potential sources of contamination, it does not constitute a comprehensive environmental audit of the site, as covered under ISO 14001.

Table 13 Site reconnaissance findings

Feature	Description
Physical characteristics	
Access constraints	Due to the nature of a number of hazardous operations being carried out associated with the steel production and processing, a vast majority of internal areas were inaccessible including the BOS Plant and coal yards.
Site topography	The site is essentially level
Surface cover	The surface of the site was a combination of hardstanding (yard areas), rough access tracks (mixture of tarmacked and untarmacked) and rough vegetation. Stockpiles were noted at various locations across the existing steelworks site, it is understood that their placement is temporary as a result of a high turnover of materials as opposed to long term storage.
Site drainage	The developed section of the site and roadways in the north of the proposed development area has numerous drains for both surface and foul water connected to the various building and process facilities.
Surface water	There are a number of streams and ditches present in the south of the site, most notably Lower Mother Ditch. A reservoir is located adjacent to the site in the north, the Bristol Channel is located approximately 450m west from the site boundary.
Trees and hedges	The active part of the site contains no trees, hedges or other substantial vegetation with the exception of the area west of the slab and stock yards where rough shrubs and grass is present.
Invasive species	Based upon the walkover survey obvious evidence of Japanese Knotweed or other invasive species has not been identified on-site. However, it should be noted that a detailed survey of the possible presence or absence of invasive species is outside of the scope of investigation and consideration should be given to commissioning a specialist survey, as necessary.
Existing buildings on-site	The north of the site comprises the HARSCO slag processing yard, BOS Plant as associated auxiliary buildings. The centre to northeast of the site is being used as a scrapyard, majority of it being scrap metal from old appliances, industrial equipment, cars, and other items. The

Feature	Description
	area just north of the scrapyards is used to store and screen different aggregates such as slag and concrete. The north eastern area of the site is mainly being used as steel slab storage yards. South of the slab yards are the HAA stockyards, which store and sort multiple types of aggregate such as slag, concrete, and other types of industrial rubble. To the west of the slab and stock yards is an area of vegetation with bushes and grass, the northern part of it is being used as to store more aggregate, waste wood and other materials. South of this area is being used to store coal and associated infrastructure to supply Morfa Coke Ovens just off site to the west. Directly west of the coal storage area is cylindrical structure used to store gas which is also associated with the neighbouring coke oven.
Retaining walls and adjacent buildings on or close to site boundary	There are no such structures on or close to the site boundary.
Basements on-site	Infilled basements are/may be present beneath the demolished buildings/structures across the active site in the northern section of the development area.
Made Ground, earthworks and quarrying	The site appears to have been levelled off in the past by infilling, assumed to reduce in thickness towards the east (i.e away from the Bristol Channel).
Potentially unstable slopes on or close to site	None observed.
Buried and overhead services present	Numerous man-holes and overhead cables were present throughout the steelworks.
Environmental characteristics	
Underground/ above ground storage tanks and pipework	Numerous tanks are present in areas of operations and associated with the various processes undertaken.
Potentially hazardous materials storage and use	None observed.
Asbestos-containing materials	No obvious asbestos construction materials were observed but a detailed survey of the buildings would be required to confirm the presence or otherwise of asbestos-containing materials.
Waste storage	Numerous skips of segregated by-products were present across the site - as well as a waste metals 'regeneration' scarp yard centrally located.
Fly-tipping	None observed.
Electricity sub-stations/ transformers	There is a large existing sub-station located approximately 900m east from the site along Grange Road.

Feature	Description
Evidence of possible land contamination on-site	Numerous processes including Made Ground at surface (depth unknown), the processing of scrap metal and historical and current fuel tanks. Asbestos may be present as a result of current and historical buildings. The BOS plant is located in the centre of the site.
Potential off-site sources of ground contamination	Additional industrial processes associated with the steelworks to the north.

Potentially significant land contamination or geotechnical issues arising from the survey are summarised below:

Land contamination

- metals- from known and historical industrial processes.
- polyaromatic hydrocarbons- possibly present due to proximity of Coke ovens and areas of from known and historical fuel tanks and industrial processes.
- phenols- from known and historical industrial processes.
- asbestos- possibly present due to lagging and insulation used in both current and historical buildings.
- total petroleum hydrocarbons- from known and historical fuel tanks and industrial processes.

Geotechnical

- evidence of Made Ground to an unknown depth.
- soft and unconsolidated superficial deposits.
- in-ground obstructions in areas of previous structures.

5 PRELIMINARY GEOTECHNICAL CONSTRAINTS

5.1 Design class

BS EN 1997-1 defines three different Geotechnical Categories that structures may fall into, which are summarised as follows:

- Category 1: Small and relatively simple structures for which it is possible to ensure that the fundamental requirements will be satisfied on the basis of experience and qualitative geotechnical investigations; with negligible risk
- Category 2: Conventional types of structure and foundation with no exceptional risk or difficult ground or loading conditions
- Category 3: Structures or part of structures, which fall outside limits of Geotechnical Categories 1 and 2. Examples include very large or unusual structures; structures involving abnormal risks, or unusual or exceptionally difficult ground or loading conditions; structures in highly seismic areas; structures in areas of probable site instability or persistent ground movements that require separate investigation or special measures.

Based on the information provided above on the proposed development and in view of the anticipated ground conditions, a Geotechnical Category of Category 3 has been assumed for the purposes of designing the geotechnical investigation. This should be reviewed at all stages of the investigation and revised where necessary.

5.2 Preliminary geotechnical hazards assessment

A summary of commonly occurring geotechnical hazards associated with the anticipated geology outlined in Section 3.4 above is given in Table 14 together with an assessment of whether the site may be affected by each of the stated hazards.

Table 14 Summary of preliminary geotechnical risks that may affect site

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Sudden lateral changes in ground conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Shrinkable clay soils ¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design to NHBC Standards Chapter 4 or similar

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Highly compressible and low bearing capacity soils, (including peat and soft clay)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Silt-rich soils susceptible to rapid loss of strength in wet conditions ¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Running sand at and below water table	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Karstic dissolution features (including 'swallow holes' in Chalk terrain) ¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Evaporite dissolution features and/or subsidence ¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Ground subject to or at risk from landslides ¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Ground subject to peri-glacial valley cambering with gulls possibly present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Ground subject to or at risk from coastal or river erosion ¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to require special protection/stabilisation measures
High groundwater table (including waterlogged ground) ¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	May affect temporary and permanent works
Rising groundwater table due to diminishing abstraction in urban areas ¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Geological faults, fissures and break lines	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Underground mining including shafts and adits (e.g. coal, mineral)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to require further assessment including potentially special stabilisation measures
Effects of extreme temperature (e.g. cold stores or brick kilns/furnaces)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Potential around BOS plant and former coke ovens.

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Existing sub-structures (e.g. tunnels, foundations, basements, and adjacent sub-structures)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Filled and made ground (including embankments, infilled ponds and quarries)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Adverse ground chemistry (including expansive slags and weathering of sulphides to sulphates)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	May affect ground engineering and foundation design and construction
Site topography, including presence of steep slopes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<p>Note: Seismicity is not included in the above table as this is not normally a design consideration in the UK.</p> <p>¹⁾ The potential for these geohazards to impact the site may be exacerbated by climate change related fluctuations in temperature and precipitation.</p>			

5.2.1 Clay shrink-swell

One of the likely geotechnical implications resulting from climate change impacts is that longer hotter summers will increase the zone of seasonal moisture variation in the upper soil horizon, leading to additional shrinkage. Furthermore, warmer wetter winters can cause rebound of soil moisture levels, leading to swelling. These changes will likely give rise to increases in subsidence and heave issues and hence insurance claims for existing buildings. The effects can also be exacerbated where building near trees resulting in desiccation (NHBC Standards Chapter , 2024). This and other potential climate change-related impacts are considered in NHBC report NF93 – Foundation solutions: future proofing against climate change (NHBC, 2023a).

The BGS GeoClimate UKCP18 study (BGS, 2023) considers the potential influence of climate change on the probability of subsidence. These BGS GeoClimate shrink–swell national datasets were developed by combining long-term UKCP scenarios for rainfall and temperature changes with the geotechnical properties of the ground, so as to identify areas projected to experience the largest increases in susceptibility to shrink-swell subsidence. The GeoClimate UKCP18 Open data is provided for two time periods, the 2030s and the 2070s with one projection provided for each time period, based on the average outcome for the UKCP18 higher emissions scenario and the most susceptible value (i.e. worst case) within the GeoSure grid cell.

This data is available on BGS Geoindex and the 2070 layer has been consulted for the proposed development at this site. This indicates that it is improbable that foundations will

be affected by increased clay shrink-swell due to climate change' based on GeoClimateUKCP18.

The NHBC NF93 report (NHBC Foundation, 2023a) identified that foundations for new domestic structures should be designed to accommodate climate change resilience for the entire lifetime of a building.

6 INITIAL CONCEPTUAL SITE MODEL

In the UK land contamination is assessed using a risk-based approach taking account of the magnitude (severity of the hazard) and likelihood (probability) of occurrence. A 'receptor' is something that could be adversely affected by contamination (e.g. people, an ecological system, property or a water body). A 'pathway' is a route or means by which a receptor is or could be exposed to or affected by a contaminant. A 'contaminant source' is a hazard but it can only pose a risk to a receptor where a pathway is present.

The relationship between sources, pathways and receptors are referred to as a conceptual site model. A risk can only be realised where a contaminant source, pathway and receptor are all in place, referred to as a 'contaminant linkage'.

In line with LCRM (Environment Agency, 2021a) and BS 10175: 2011 + A2 2017 (BSI, 2017), RSK has used information in the preceding sections to identify hazards (sources of contaminants), receptors that may be impacted and plausible linking pathways. Where all three are present this is termed a potentially complete contaminant linkage and a qualitative risk estimation is made.

The conceptual site model has been considered in context of the proposed development as understood at the time of writing this report. Should the site development proposals change, the CSM and the associated contaminant linkages identified may need to be revised.

6.1 Potential soil, soil vapour and groundwater linkages

6.1.1 Potential sources of contamination

Potential sources of soil and groundwater contamination identified from current activities and the history of the site and surrounding area are presented in Table 15.

Table 15 Potential sources of soil and groundwater contamination

Potential sources	Contaminants of concern
On-site	
S1 Made Ground (i.e. fill material)	Unknown fill material but potentially including brick, ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), asbestos
S2 Areas of former Coke Ovens, BOS plant and coal yards.	Unknown material but potentially including ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), hydrocarbons, BTEX and asbestos.
S3 Storage of oils/chemicals on-site	Lube oil, diesel, kerosene,
S4 Warehouse/ engineering works	Petroleum hydrocarbons, toxic and phytotoxic metals, asbestos

Potential sources	Contaminants of concern
S5 Underground/ above ground storage tank and associated pipework	Petroleum hydrocarbons (petrol/diesel)
S6 Scrap Yard	Unknown material but potentially including ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), hydrocarbon, BTEX and asbestos
S7- Railway lines/sidings	Petroleum hydrocarbons, toxic, phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs) and asbestos
Off-site	
S8- Railway bounds the site to the east	Petroleum hydrocarbons, toxic, phytotoxic metals, inorganics, PAHS and asbestos
S9 Industrial process associated within the wider steelwork to the north and Morfa Coke Ovens to the west	Unknown material but potentially including ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), hydrocarbon, BTEX

The stockpiled material has not been included on account of its understood short term storage on site. Furthermore, it will likely be removed prior to any development as part of the enabling works and any contaminants within likely to be relatively immobile.

6.1.2 Sensitive receptors and linking exposure/ migration pathways

Sensitive receptors identified at or in the vicinity of the site that could be affected by the potential sources identified above comprise:

- **R1** future site users – industrial workers [oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres]
- **R2** adjacent site users – industrial workers [migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation]
- **R3** future buildings and services [direct contact with contaminated soils or groundwater and chemical attack]
- **R4** Surface water in the Bristol Channel [groundwater in secondary aquifer within superficial deposits and Lower Mother Ditch]

Potential linking pathways are show in brackets for each item above.

Groundwater has been considered as a pathway as opposed to a receptor on account of the historical and current industrial uses across the wider area. A degree of impact on the groundwater as a result of this regional land use is to be expected and hence the primary sensitive receptor is considered to be the surface water. Similarly, the Lower Mother Ditch which runs along the boundary of the site is understood to receive storm water from the site in addition to the condition of the culvert through the Made Ground being unknown. Based on this the Lower Mother Ditch has been considered a pathway as opposed to a receptor.

Please note that construction workers and future maintenance workers have not been identified in the conceptual model as receptors because risks are considered to be managed through health and safety procedures according to the CDM Regulations.

Ecological receptors are only considered within the conceptual model in the context of statutory protected sites.

6.2 Potential ground gas linkages

6.2.1 Ground gas generation potential

Potential ground gas sources identified for the site and surrounding are shown in Table 16.

Table 3 Potential ground gas sources (excludes mine gas)

Potential sources	Indicative ground gas generation potential (CIEH, 2008)	Additional information
On-site		
S10 Natural soil strata with a low degradable organic content, e.g. alluvium, peat	Very low	
S11 Made Ground with low degradable organic content (e.g. up to 5% organic material and no easily degradable waste).	Very low	

Potential sources of ground gas generation have been identified therefore this potential issue has been taken forward.

The offsite landfill is considered sufficient distance away so as not to pose an unacceptable risk.

6.2.2 Potential coal mine gas sources

The potentially significant sources of mine gas associated with the area of the site are as follows:

- desorption of gas from coal and rocks – predominantly methane
- oxidation of coal – carbon dioxide and oxygen depletion, also methane and ethane and carbon monoxide at higher temperatures

6.2.3 Radon

The site is in an area where the estimated percentage of homes exceeding the action level of 200 Bq m³ is <1% /as indicated on available radon potential mapping (UKHSA & BGS, 2022).

In accordance with BRE 211 guidance (2023) and associated building regulations/standards no protection measures are considered to be required in new developments.

6.2.4 Preferential pathways for ground gas migration

Credible preferential pathways potentially connecting the source and receptor through vertical and lateral migration are:

- faults/ fissures/ fractures in the underlying geology
- building foundations, piled foundations and vibro-stone columns
- construction joints and cracks within building structure
- utility routes and service penetrations into buildings

6.3 Preliminary risk assessment

The preliminary risk assessment findings and potentially complete contaminant linkages are shown in Table 17.

The risk classification is based on the combination of hazard consequence and probability using a risk matrix from CIRIA C552 (Rudland et al., 2001). The requirement for a preliminary qualitative risk assessment is in accordance with LCRM (Environment Agency, 2021a). A summary of the risk assessment process is in **Appendix F**.

Table 4 Risk estimation for potentially complete contaminant linkages

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
Sources on site						
S1 Made Ground S2 Area of former Coke Ovens, BOS plant and coal yards. S5 Underground/above ground storage tank and associated pipework	R1 Future site users	P1 Dermal contact, soil ingestion, dust and fibre inhalation, including vapour inhalation	Low	Medium	Moderate/low	Contaminants may be present in the Made Ground and shallow soils associated with past and current development and industrial uses. It is understood that the proposed development is likely to comprise of hardstanding and as such direct contact and dust generation will be limited. Furthermore the associated new drainage will limit infiltration and throughflow.
	R2 Future adjacent site users – industrial workers	P2 Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Mild	Very low	
	R3 Future buildings and services	P3 Direct contact with contaminated soils or groundwater and chemical attack	Likely	Medium	Moderate	
	R4 Surface water in the Bristol Channel	P4 Groundwater in the secondary aquifer and Lower Mother Ditch	Low	Medium	Moderate/low	
S3 Storage of oils/chemicals on-site S4 Warehouse/engineering works	R1 Future site users	P1 Dermal contact, soil ingestion, dust and fibre inhalation, including vapour inhalation	Unlikely	Medium	Low	Contaminants may be present albeit the impact is likely to be localised and relatively minimal with

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
	R2 Future adjacent site users – industrial workers	P2 Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Mild	Very low	respect to the proposed redevelopment.
	R3 Future buildings and services	P3 Direct contact with contaminated soils or groundwater and chemical attack	Unlikely	Medium	Low	
	R4 Surface water in the Bristol Channel	P4 Groundwater in the secondary aquifer and Lower Mother Ditch	Unlikely	Medium	Low	
S6 Scrap Yard S7 Railway line	R1 Future site users	P1 Dermal contact, soil ingestion, dust and fibre inhalation, including vapour inhalation	Low	Medium	Moderate/low	Contaminants may be present as a result of the historical and ongoing land uses associated with the sources. It is understood that the proposed development is likely to comprise of hardstanding and as such direct contact and dust generation will be limited. Furthermore the associated new drainage will limit infiltration and throughflow.
	R2 Future adjacent site users – industrial workers	P2 Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Medium	Low	
	R3 Future buildings and services	P3 Direct contact with contaminated soils or groundwater and chemical attack	Low	Medium	Moderate/low	

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
	R4 Surface water in the Bristol Channel	P4 Groundwater in the secondary aquifer and Lower Mother Ditch	Low	Medium	Moderate/low	
S10 Natural soil strata with a low degradable organic content, e.g. alluvium, peat. S11 Made Ground.	R1 Future site users R3 Future buildings and services	Migration, accumulation and inhalation	Low	Medium	Moderate/low	Natural strata is unlikely to give rise to significant flows of ground gas, development history suggests a very low potential for the presence of Made Ground to be present with the potential to give rise to ground gas. RSK consider the actual risk rating to be low based on the evidence available. However, the nature of the Made Ground is unknown and may have the potential to generate low level of ground gases.
	R2 Future adjacent site users – industrial workers		Unlikely	Medium	Low	

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
Sources off site						
S8 Railway bounds the site to the east. S9 Industrial process associated within the wider steelwork to the north and Morfa Coke Oven to the west.	R1 Future site users	P2 Migration of contamination via dust/fibre deposition, vapour or groundwater migration combined with inhalation.	Unlikely	Medium	Low	The redevelopment is within a wider area of industrial activity which is regulated and controlled under best practice, environmental permits and the like. Uncontrolled emissions and production of hazardous substances are therefore unlikely. With the exception of large scale bulk earthworks, the risk of dust and fibre inhalation is unlikely. Contact with groundwater is unlikely as it vapour migration.

Risk matrix		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	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
	Very Unlikely	Low	Very Low	Negligible	Negligible

Potentially complete contaminant linkages with a potential risk of moderate to low or higher comprise:

- **R1** future site users – industrial workers [oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres]
- **R3** future buildings and services [direct contact with contaminated soils or groundwater and chemical attack]
- **R4** Surface water in the Bristol Channel [groundwater in secondary aquifer within superficial deposits]

In line with LCRM, these potentially complete contaminant linkages need to be assessed further through an appropriate scope of site investigation and/or mitigation incorporated into the development as may be appropriate.

6.4 Data gaps and uncertainties

Key data gaps and uncertainties identified in the CSM at desk study stage include:

- access not available to the operational (internal) parts of site
- status of former and or existing underground tanks/lines not known

7 CONCLUSIONS AND RECOMMENDATIONS

7.1 Geo-environmental assessment

Geotechnical assessment

The key findings of the geotechnical assessment are as follows:

- Made Ground is likely to be present across much of the site- the composition and thickness of which is unknown.
- the superficial deposits beneath the site are likely to be poor in terms of density and in places may have a high organic content.
- the location of any mine shafts, adits or coal workings beneath the site should be fully assessed for any further construction.
- groundwater maybe shallow beneath the site.
- in-ground obstructions associated with former buildings and structures.

Geo-environmental assessment

- a number of current and historical industrial activities have been identified from the review of historical maps and site reconnaissance which may have an impacted on the proposed develop and future end users. The recommendations in order to carry out further assessment are outlined below.

7.2 Recommendations

The following recommendations are made for further assessment of the site to address the risks identified above:

It is recommended to carry out an intrusive investigation comprising both targeted positions and non-targeted to give general coverage and fill any potential data gaps. Machine excavated trial pits should be carried out to assess the near surface geology and to allow for environmental sampling and testing.

It is recommended that boreholes are carried out for the purpose of installing gas/ groundwater monitoring well in order to assess the natural and any environmental impact which may have occurred to the groundwater beneath the site.

A scheme of gas and groundwater should be carried out to assess the depth and state of ground water beneath the site in both the Made Ground (where encountered) and the natural strata.

REFERENCES

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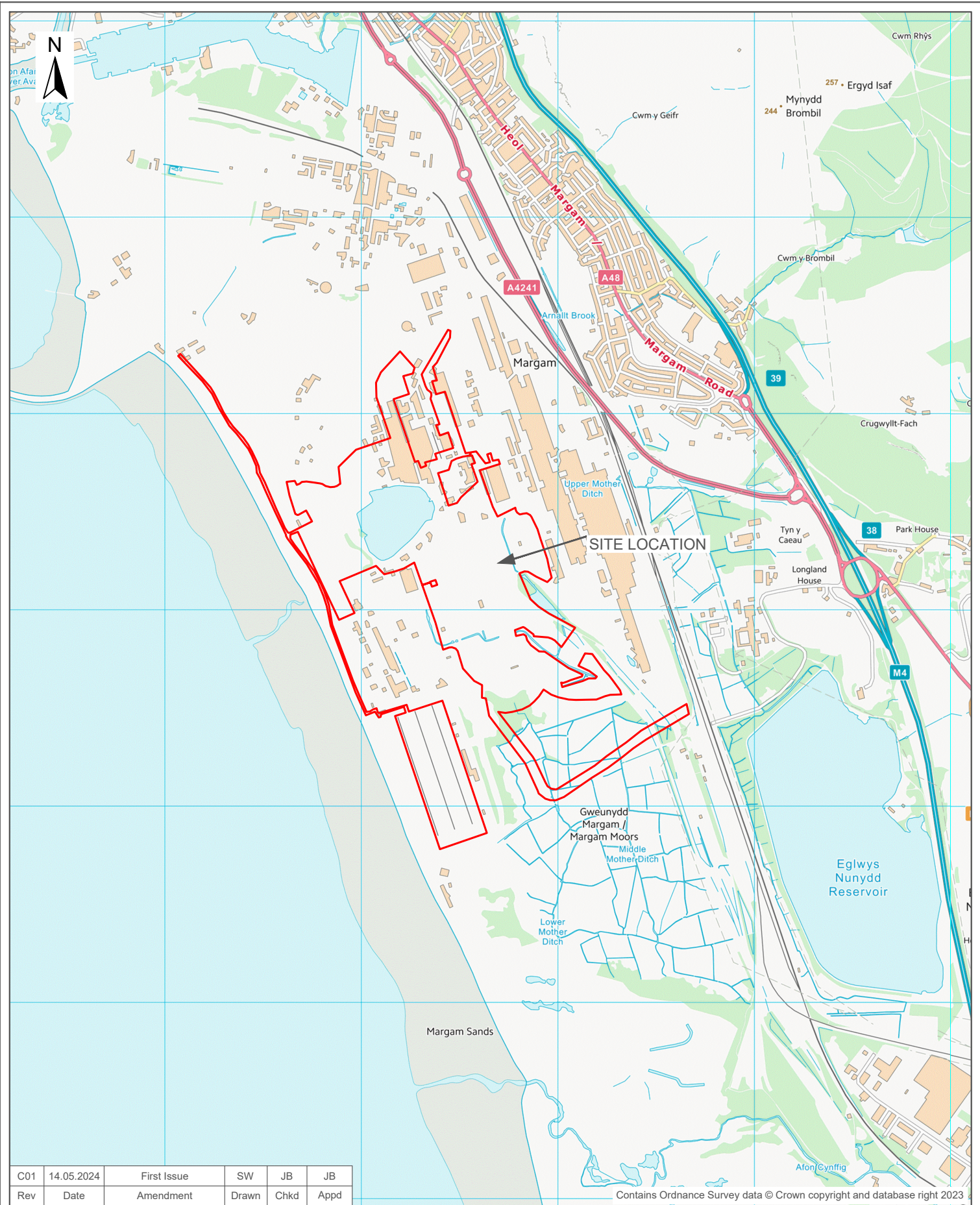
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FIGURES

Figure 1 SITE LOCATION PLAN



C01	14.05.2024	First Issue	SW	JB	JB
Rev	Date	Amendment	Drawn	Chkd	Appd

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The Old School
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BS3 4EB

Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client		Tata Steel					
Project Name		EAF Project					
Description		Site Location Plan					
Dimension	Size	Scale	Geolocation	Project ID	Drawing no.	Rev	File name
m	A4	1:25,000	278154,186921	315531	11101	C01	315531-BL-111-XX-D-G-11101-C01

Figure 2 SITE LAYOUT PLAN




LEGEND

Site boundary

Notes:

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C01	14.05.2024	First Issue	SW	JB	JB
Rev	Date	Amendment	Drawn	Chkd	Appd



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Web: www.rsk.co.uk

Client
Tata Steel

Project Name
EAF Project

Description
Site Layout Plan

Project ID 315531	Drawing no. 11201	Revision C01
----------------------	----------------------	-----------------

File name
315531-BL-112-XX-D-G-11201-C01

Dimensions m	Scale 1:5000	Size A1
-----------------	-----------------	------------

0100200300400500m

Figure 3 SITE LAYOUT PLAN WITH DEPARTMENTS



DO NOT SCALE FROM THIS DRAWING

LEGEND

- Site boundary
- Harsco yard
- BOS plant
- HRP slab yards
- Scrap/regen yard
- Projects
- Projects

Notes:
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P01	17.06.24	First Issue	LS	##	##
Rev	Date	Amendment	Drawn	Chkd	Appd



The Old School
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Tel: +44(0)1414 180471
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Web: www.rsk.co.uk

Client
Tata Steel


Project Name
EAF Project

Description
Plan Showing On-site Departments

Project ID 315531	Drawing no. 22202	Revision P01
----------------------	----------------------	-----------------

File name
315531-BL-222-XX-D-G-22202-P01

Dimensions m	Scale 1:5000	Size A1
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PRELIMINARY REVISION
TO BE REVISED

APPENDICES

APPENDIX A

SERVICE CONSTRAINTS

1. Service Constraints for all Reports

1.1. This Report (the "Report") and any study, inspection, investigation, sampling, testing and or interpretation carried out in connection with the Report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) trading as Carbon Zero Consulting, Leap Environmental or RSK Geosciences, for the Client named in the first paragraph of the Report (the "Client") in accordance with the terms of an RSK Fee Proposal including RSK Environment Standard Terms and Conditions (the "Appointment") between RSK and the Client, unless otherwise stated in the first paragraph of the Report. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by a geo-environmental consultant at the time the Services were performed. Nothing in this Report shall be construed as imposing any fitness for purpose obligation. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the Client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.

1.2 Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services. RSK shall not be liable in respect of any action or proceedings arising out of or in connection with this Report whether in contract, in tort, for breach of statutory duty or otherwise after the expiry of six (6) years from either (i) the date of the Report or (ii) such earlier date as prescribed by law, unless varied in the terms of the Appointment.

1.3 Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent, or condone any party, other than the Client relying upon the Services. Should this Report or any part of this Report, or details of the Services or any part of the Services, be made known to any such party, and such party relies thereon, that party does so wholly at its own and sole risk, and RSK disclaims any liability to such parties. Any such party would be well advised to seek independent advice from a competent geo-environmental consultant and/or lawyer.

1.4 The Client shall not, without the prior written consent of RSK, assign, transfer, charge, mortgage, subcontract, or deal in any other manner with all or any of the benefits provided in this Report. Unless specified in the Appointment, RSK shall not be obliged to assign the benefit of the Report whether by collateral warranty, third party rights pursuant to the Contracts (Rights of Third Parties) Act 1999, letter of reliance or otherwise. If RSK agrees to any assignment of the benefit of this Report, in whatever form, benefits to third parties through collateral warranties, third party rights or letters of reliance shall not be provided unless a fee for each right, warranty or letter is agreed. The form of wording used in the warranty or letter shall be provided by RSK for agreement by the Client. Any reasonable changes to the form of wording will be implemented by mutual agreement, however the terms in the warranty or letter cannot offer the third party any greater benefit than the Appointment offered to the Client.

1.5 It is the understanding of RSK that this Report is to be used for the purpose described in the introduction to the Report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the Report is used, or the proposed use of the site change, this Report may no longer be valid and any further use of or reliance upon the Report in those circumstances by the Client without the review and advice of RSK shall be at the Client's sole and own risk. RSK shall not be liable for any use of this Report for any purpose other than that for which it was provided.

1.6 The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the Report inaccurate or unreliable. The information and conclusions contained in this Report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the Report in the future shall be at the Client's own and sole risk.

1.7 The observations and conclusions described in this Report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out, or required by the Appointment between the Client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this Report, RSK did not seek to evaluate the presence on or off site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas, fuel storage, persistent bio-accumulative or toxic chemicals (including PFAS and related compounds) or other radioactive or hazardous materials, unless specifically identified in the Services.

1.8 The Services are based upon RSK's observations of existing physical conditions at the Site gained from a visual inspection of the site together with RSK's interpretation of desk based publicly available information, including documentation, obtained from third parties and from the Client on the history and usage of the site, unless specifically identified in the Services and the limitations below:

- a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.
- b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.
- c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the Client or third parties, including laboratories and information services, during the performance of the Services.
- d. The Client has identified in writing to RSK, the information, reports, findings, surveys and preliminary works RSK may not rely upon when providing the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK, and including the doing of any independent investigation of the information provided to RSK, save as otherwise provided in the terms of the Appointment between the Client and RSK.

1.9 Any site drawing(s) provided in this Report is (are) not meant to be an accurate base plan for scale measurement but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for accurate setting out and should be considered indicative only.

1.10 Should RSK be requested to review the Report after the date of issue of this Report, RSK shall be entitled to additional payment at the existing rates, or such other terms as agreed between RSK and the Client.

2. Service Constraints where the Report provides an intrusive assessment of ground conditions:

2.1 The intrusive environmental ground investigation aspects of the Services are a limited sampling of soil from the site, at pre-determined locations based on the known historic / operational configuration of the site. The conclusions given in this Report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the properties of the materials adjacent and local conditions, together

with the position of any current structures and underground utilities and facilities, and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope agreed between the Client and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species (not tested) are not present.

2.2 The comments given in this Report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. The extent of the exploratory holes, laboratory testing and monitoring undertaken may have been restricted due to a number of factors including accessibility, the presence of buried or overhead services, current development, site usage, timescales or the Client's specification. The exploratory holes only assess a small proportion of the site area with respect to the site as a whole, and as such may only provide an indicative assessment of ground conditions on site. There may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised. The presence of hotspots of undisclosed contamination or exceptional and unforeseen ground conditions cannot be discounted.

2.3 Where the Services include Investigation of an exploratory nature or relating to physical ground works, any costings and prices provided in the Report are estimated and provided for guidance purposes only. The actual cost and time quantities shall be remeasured and shall be dependent upon the ground or other conditions, constraints present, and number and depth of the investigation locations, which shall influence the number of samples and tests required, and the quantities of soil being classified.

2.4 Asbestos is often observed to be present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works. However, this Report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

2.5 Unless stated otherwise, only preliminary geotechnical recommendations are presented in this Report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed. Eurocode 7 gives guidance on the type of sampling, sample quality, number and spacing of intrusive investigations, and number of laboratory tests required. It is intended that the Geotechnical Information section of this Report will fulfil the general requirements of the Ground Investigation Report as set out in section 6 of Eurocode7, although this is subject to the restrictions imposed on the investigation, as listed above. For geotechnical design, Eurocode 7 requires the Geotechnical Design Report to address both the geotechnical and structural aspects of the geotechnical design for both the limit and serviceability states. The Geotechnical Appraisal section of this Report will not meet the requirements of a Geotechnical Design Report (GDR) and should therefore be used for preliminary guidance only.

3. Service Constraints where the Report relates to Surface Water Management:

3.1 The Surface Water Management Inspection (SWMI) Report, documents provided, observations, actions, and recommendations, with respect to the management of potential pollution issues to surface waters, made during the site Inspection visit, are those present at the time of the visit, and may not represent those recorded by others on the same day.

3.2 The comments given in this Report and the opinions expressed are based on the weather, ground and ground water conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not

been disclosed by the inspection and therefore could not be taken into account. In addition, groundwater levels and flows, may vary from those Reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.

3.3 RSK places a degree of dependence upon oral information provided by site representatives, which is not readily verifiable through visual inspection, or supported by any available written documentation. RSK shall not be held responsible for conditions or consequences arising from relevant facts that were not fully disclosed by facility or site representatives at the time this Report was prepared.

3.4 This Report is a live document, to be continually reviewed and updated as the development progresses or other changes occur on site. RSK can only maintain the currency of this Report through the Client requesting support with supplementary site visits or attendance at meetings ahead of key stages of the development in relation to surface water management. Our risk rating assesses a number of risk factors in line with the source-pathway- receptor model and is therefore subject to constant change.

3.5 Standard design drawings are indicative. Material types, dimensions and construction details will need to be adjusted by the Client to suit the specific conditions / flows on Site.

3.6 The full responsibility for implementing the site-specific protection and maintenance measures to protect the surface water system as stated in this Report, remains with the Client and their site management team. Additional control measures may be required to achieve the objectives set out in the Surface Water Management Plan to be implemented and financed by the Client.

4. Service Constraints where the Report relates to Waste Management:

4.1 In accordance with the definition provided in the Waste Framework Directive (WFD), materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded, by the holder'. Naturally occurring soils are not considered waste if re-used on the site of origin for the purposes of development. Soils such as made ground that are not of clean and natural origin (irrespective of whether they are contaminated or not) and other materials such as recycled aggregate, do not necessarily become waste until the criteria above are met. Excavation arisings from the development may therefore be classified as waste if surplus to requirements and/or unsuitable for re-use.

4.2 It is the duty of the waste producer, to ensure that all waste is accurately classified prior to waste disposal. Technical Guidance WM3 (EA, 2018) sets out in its Appendix D requirements for waste sampling. It is a legal requirement to correctly assess and classify waste. The level of sampling should be proportionate to the volume of waste and its heterogeneity. Unless otherwise stated, the waste assessment presented in this Report should be considered as preliminary and further testing and assessment of the waste under the provisions of a Waste Sampling Plan may be required to obtain the necessary level of data required for basic characterisation of the waste in support of disposal.

4.3 Unless stated otherwise in the Report, information relating to historical operations at the site was not reviewed as part of the assessment by RSK. In addition, unless otherwise stated in the Services, RSK was not present during the collection of the samples nor had any input on the chemical testing suite. Therefore, the waste assessment and classification detailed in this Report are based solely on any information that were provided to RSK (e.g., laboratory chemical data, exploratory hole records) and were completed without prejudice for our Client.

4.4 RSK's assumes that any ground investigation data, chemical testing results etc., that were provided by the Client to inform the waste assessment and supporting review were carried out in accordance with current best practice and relevant guidance/ standards, where applicable. Thus, the comments given in this Report and the opinions expressed are based solely on the information provided by the Client. However, it is noted that there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account as part of the RSK assessment.

5. Service Constraints for Construction Environmental Management Plan Reports:

5.1 This Report should be considered in the light of any changes in legislation, statutory requirement or industry practices that may have occurred subsequent to the date of issue.

5.2 The measures and comments outlined in this Report and any opinions expressed are based on the plans provided at the time and discussions with relevant parties. However, there may be conditions pertaining to the site that have not been disclosed by investigations and therefore could not be taken into account.

5.3 This CEMP is a live document and is subject to change throughout the project, as and when necessary, to ensure management of environmental aspects remains relevant, and to ensure continued compliance with legislation and commitments as they may change. RSK understands that this CEMP will be reviewed by the Client every six months and updated as and when necessary.

5.4 It is the full responsibility of the Principal Contractor/ Client to ensure that their works do not contravene legal requirements, and adherence to this CEMP alone cannot be a full defence regarding legal action against the Principal Contractor.

6. Service Constraints where the Report relates to Ground Gas Membrane Verification:

6.1 This Report is limited to the verification of the gas resistant membrane/vapour membrane/radon barrier after installation and no inspections were undertaken of the substrate (i.e. prepared ground). The Report therefore does not constitute as a full verification of ground gas protection system.

6.2 The comments given in this Report and the opinions expressed, are based on the condition of the ground gas membrane as encountered at the time of inspection by suitably qualified personnel. RSK cannot accept liability for any subsequent change to the status of the gas membrane by follow-on trades or other construction activity.

6.3 Where not designed by RSK, the verification of protection measures is carried out with reference to the gas protection design provided by the Client. RSK assume the scope of gas protection measures as determined by third parties to be correct and to have achieved any required approval from authorities.

6.4 The Ground Gas Design Report/Remediation Strategy and Verification Plan contains details of the procedures to be adopted for inspection and validation of the works. However, it should be noted that responsibility for the correct implementation of the strategy lies with the appointed contractor. RSK cannot be held responsible for any remedial works that are carried out without the agreed procedures involving either direct supervision by RSK, or inspection and validation of the works by a representative from RSK.

7. Service Constraints for Environmental Due Diligence (EDD) Reports:

7.1 The comments given in this Report and the opinions expressed are based on the information obtained and reviewed as part of the desk-based assessment. However, there may be conditions pertaining to the Site that have not been disclosed by the assessment and therefore could not be taken into account. Furthermore, no intrusive investigations, monitoring or sampling have been undertaken to confirm the environmental status of the site, therefore any comments relating to ground conditions and subsurface contamination are based solely on a review of desk-based information.

7.2 This Report describes the results of the EDD exercise. The scope of this EDD Report, where appropriate, covers legal or regulatory compliance with respect to UK or international regulations associated with environmental matters.

7.3 As with any EDD exercise, there is a certain degree of dependence upon information provided by the target company. The EDD does not include a site walkover / visit or liaison with site representatives unless identified in the Services. Therefore, the assessment is based on the available desk study information. Also, there is a certain degree of dependence upon oral information provided

by site representatives, which is not readily verifiable through visual inspection, or supported by any available written documentation. RSK shall not be held responsible for conditions or consequences arising from relevant facts that were not fully disclosed by facility or site representatives at the time this EDD exercise was performed.

7.4 This Report, including all supporting data and notes (collectively referred to hereinafter as "information"), was prepared or collected by RSK for the benefit of its Client.

7.5 The comments given in this Report and the opinions expressed are based on the information obtained and reviewed as part of the desk-based assessment and the site inspection visit. However, there may be conditions pertaining to the Site that have not been disclosed by the assessment and therefore could not be taken into account. Furthermore, no intrusive investigations, monitoring or sampling have been undertaken to confirm the environmental status of the Site therefore any comments relating to ground conditions and subsurface contamination are based solely on a review of desk-based information and observations collected during the site inspection visit.

8. Service Constraints for Ground source heat energy Reports:

8.1 It is understood that this is a desktop survey only and that there are no requirements for a site walkover, service utility survey, or provision of service plans. These services can be provided upon request if required.

8.2 At a later stage, it is possible that a thermal response test (TRT) will need to be completed, for which a test borehole will have to be drilled, and these would be costed at the time. RSK can provide all aspects of subsequent site work for a GSHP system if required.

9. Service Constraints for Water Abstraction Borehole Reports:

9.1 The Report aims principally to only identify and assess the suitability of the site for a water abstraction borehole. This Report should be considered in the light of any changes in legislation, statutory requirements, and industry practices, that have occurred subsequent to the date of the Report.















9.2 Unless stated in the Report, the opinions expressed in this Report including all comments and recommendations provided are on the basis of the information obtained from a desk-based assessment.

Appendix B

DEVELOPMENT DRAWINGS



LEGEND - Proposed:

- | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|
|  | Proposed Planning Boundary |
|  | Proposed Outline Application |
|  | Wider Planning Boundary |
|  | Existing Buildings |
|  | Existing Roads |
|  | Proposed New Buildings / Structures |
|  | Proposed New Roads |
|  | Proposed Widened Existing Roads |
|  | Proposed Car Parking Areas |
|  | Area of infill to existing lagoon |
|  | Proposed 'Lay-down' areas |
|  | Proposed Gantry |
|  | Proposed Pipe Route |
|  | Proposed Indicative Electrical Infrastructure |
|  | Proposed Indicative Scrap Metal Handling Facility & Yards |

TATA No.	No.	Building Name
01	01	Candy Hood
03	02	Conseal Conveyor
04	03	Fume Treatment Plant (FTP)
05	04	Shredded Scrap Yard
07	05	Hot Briquetted Iron (HBI) Dots & Lumps Bunker
08	06	Ferro Alloy Bunker
09	07	Fire Water Pump House
10	08	Primary Pump House
11	09	Secondary Pump House
16	10	Melt Shop Power Distribution Building
18	11	Melt Shop WTP Electrical Building
19	12	Melt Shop TTP Electrical Building
24	13	Compressor House
31	14	Car Parking Area
32	15	Chargers & Offgas Block Building
33	16	Emergency Tank
34	17	Lagoon Water Pump House
36	18	Green Walkway Extension
38	19	Active Carbon Injection Silos
39	20	Powder Silos

TATA No.	No.	Building Name
13	21	Canopy Hood
14	22	Consteel Conveyor
15	23	Fume Treatment Plant (FTP)
17	24	Shredded Scrap Yard
25	25	Hot Briquetted Iron (HBI) Dolo & Lime Bunker
26	26	Ferro Alloys Bunker
27	27	Fire Water Pump House
29	28	Primary Pump House
30	29	Railway Weigh Bridge
37	30	HBI & Pig Iron Storage Area

P00 Initial Issue					11/08/2021
REV	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE
	RIBA PLAN OF WORK WORKSTAGE				LEVEL OF MODEL DEFINITION (LoD)
	Stage 3 - Spatial Coordination				LoD 3 - Approximate Model
PURPOSE OF ISSUE - SUITABLE FOR ...					
Information					
STATUS or SUITABILITY					
Status S2 - Delivery Team Information					

PURPOSE OF ISSUE - SUITABLE FOR ... Information	STATUS or SUITABILITY Status S2 - Delivery Team Information
----------------------------------------------------	----------------------------------------------------------------



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LONDON 0207 138 3560
WREXHAM 01978 357 887
www.lawray.co.uk

CLIENT
Tata Steel UK Ltd.

PROJECT TITLE
EAF PROJECT, PORT TALBOT

DRAWING TITLE
Proposed Site Plan - Full and Outline Application
Areas

PROJECT No. 20007 SCALE @ All As indicated

DRAWING NO. 68-192-2267 #42.216.0 65 DR 02/09/00	1192: Project - Originator - Volume	Level - Type - Pole - Number	REVISION
	10002: Project - Originator - Functional -	Special - Firm - Discipline - Number	
EAF-LAW-X-X-DR-A-000009		P00	
DO NOT SCALE	Any discrepancy or query concerning this drawing should be referred to the Architect.		
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	Rev. Cn. 00: 27/04/99, VAT Reg. No. 154 5144 R		

Appendix C

ENVIRONMENTAL DATABASE REPORT

Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_1_5
Grid Ref: 276116, 186856

Map Name: National Grid

Map date: 1978-1983

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled 1962

Surveyed 1982
Revised 1982
Edition N/A
Copyright 1983
Levelled 1964

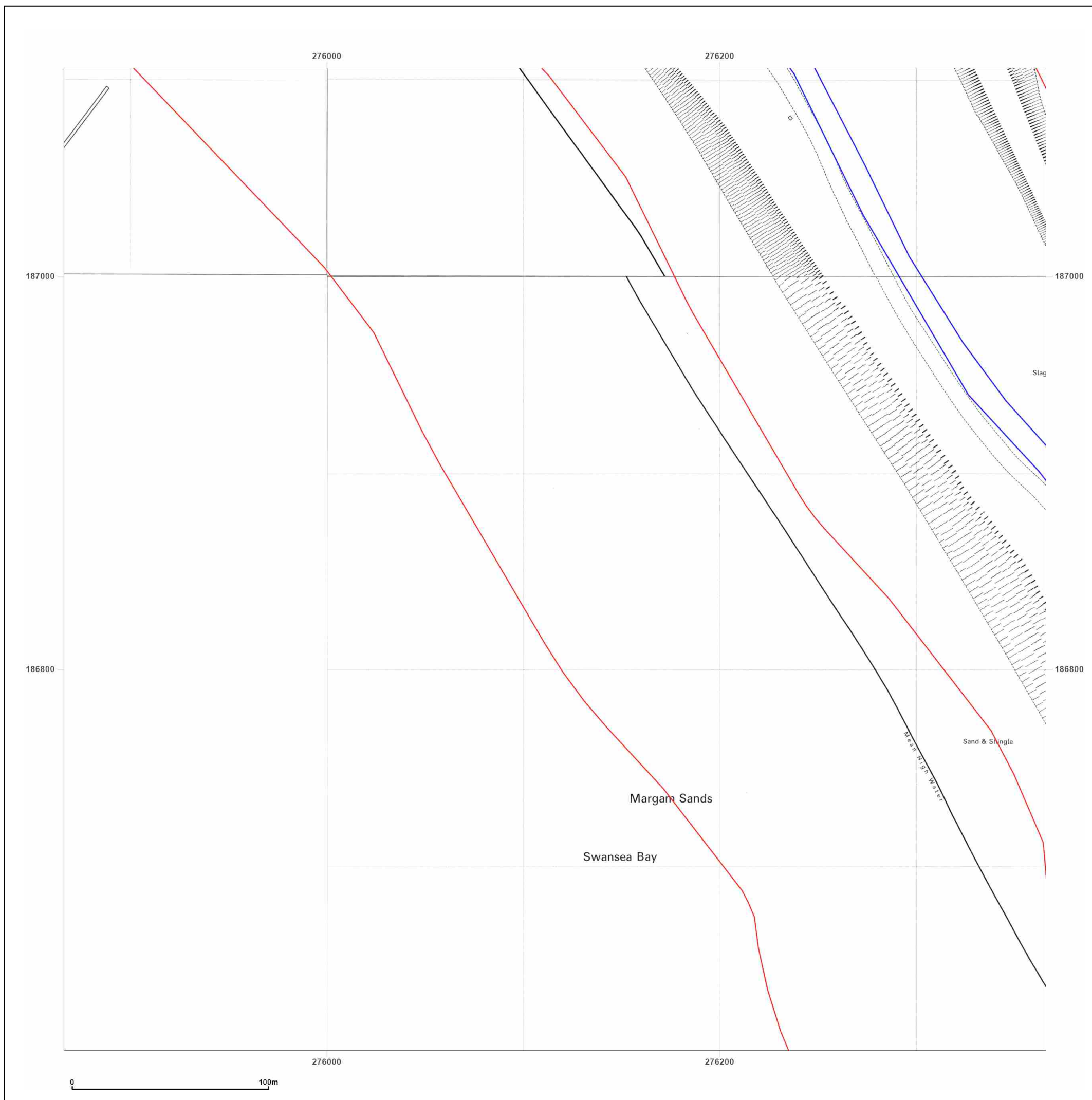


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Production date: 09 May 2024

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



Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_1_5
Grid Ref: 276116, 186856

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1993
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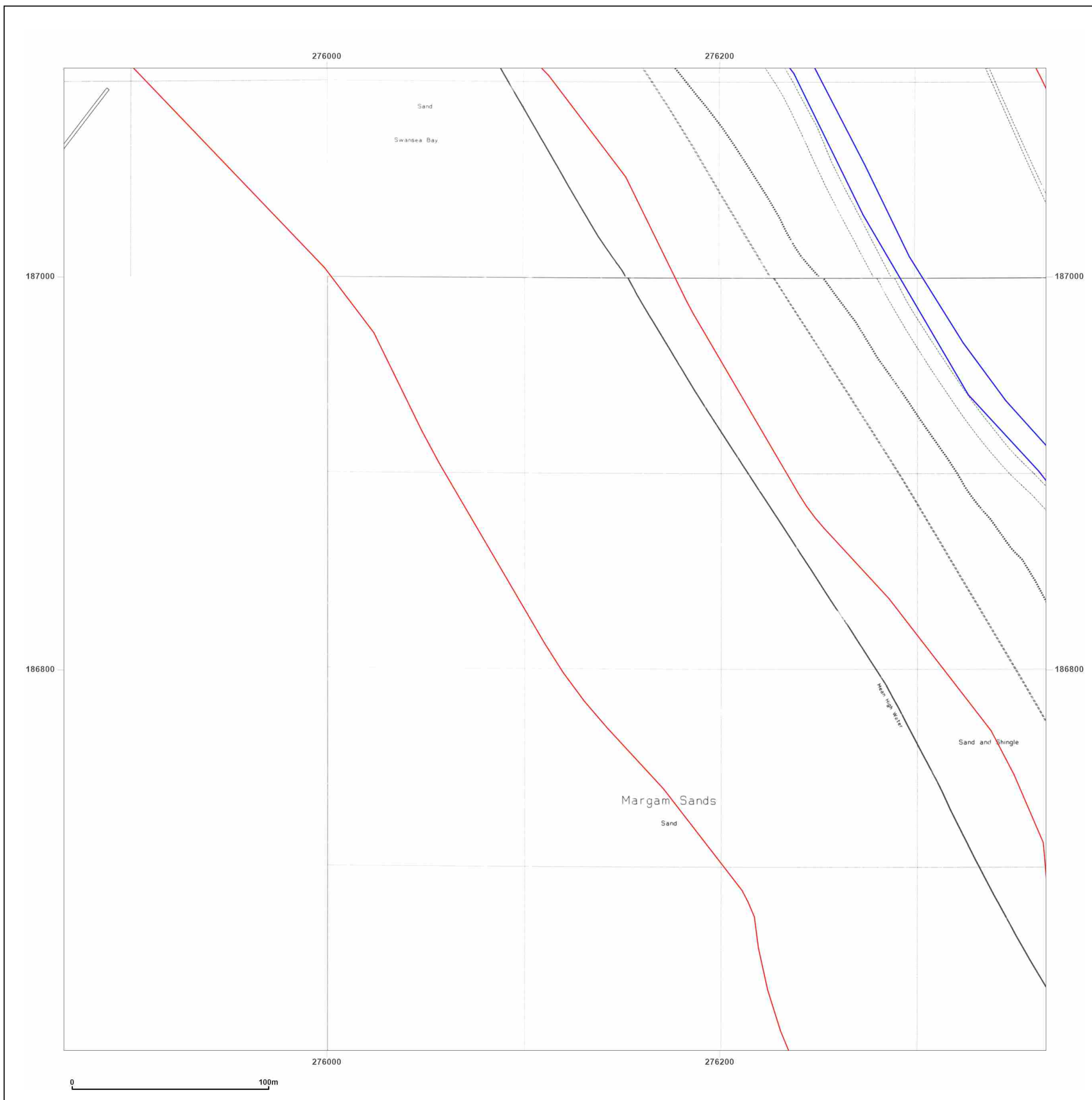


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Production date: 09 May 2024

Map legend available at:
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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_1_6
Grid Ref: 276116, 187356

Map Name: National Grid

Map date: 1978-1979

Scale: 1:1,250

Printed at: 1:2,000



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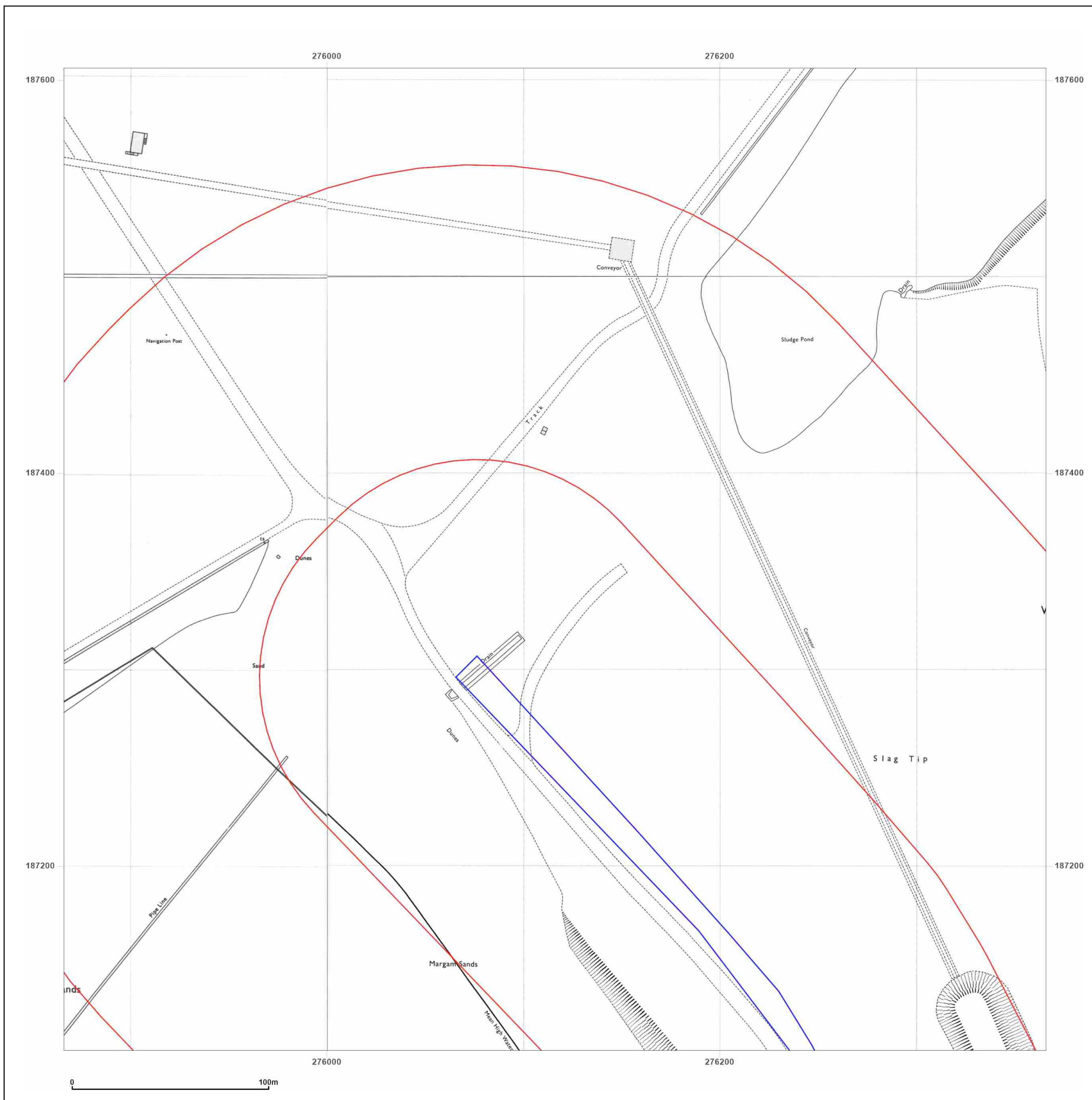


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Client Ref:

EAF Meltshop Project

Report Ref:

GSIP-2024-14959-18673_1250_1_6

Grid Ref:

276116, 187356

Map Name:

National Grid

Map date:

1993

Scale:

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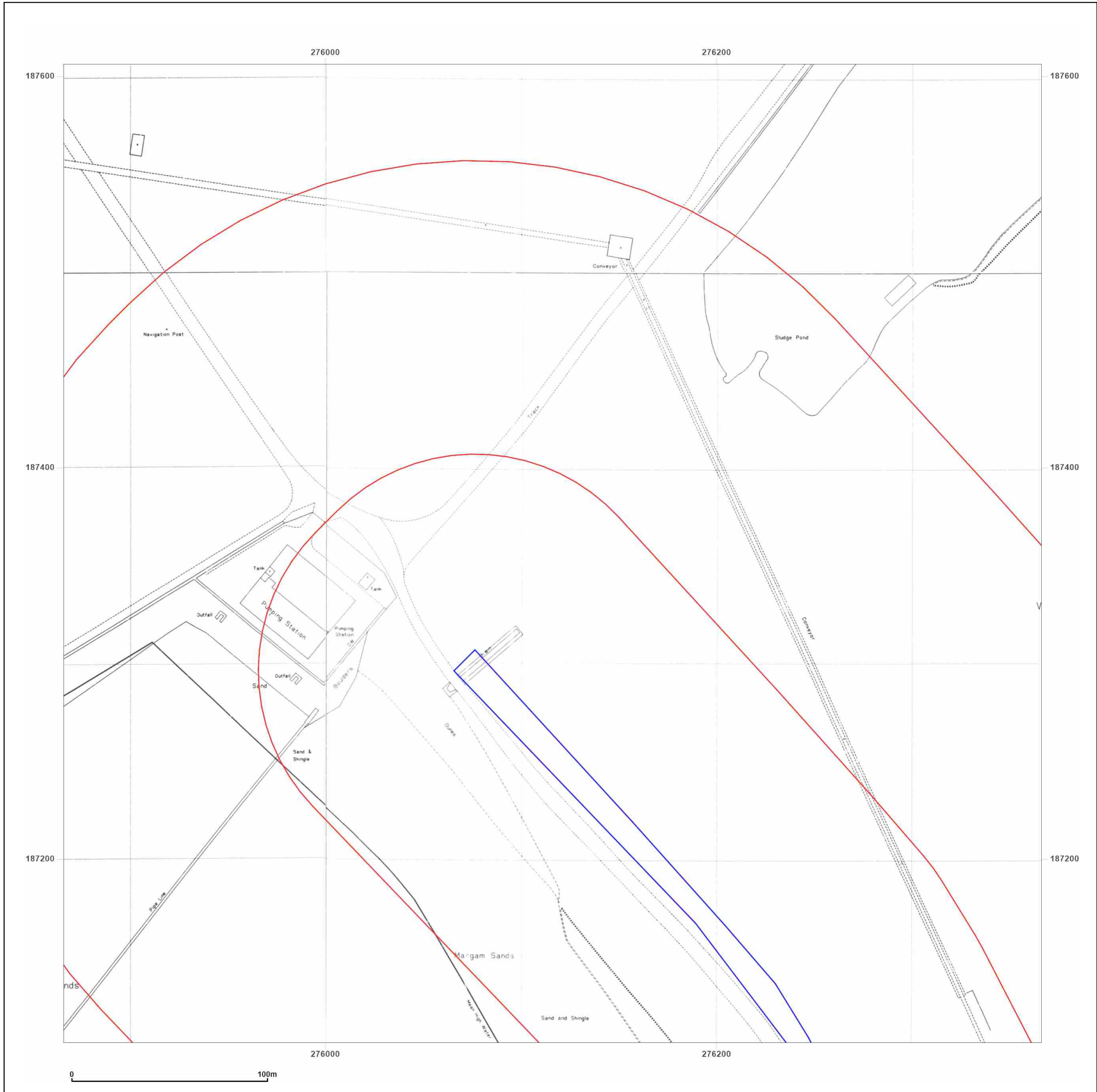
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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_2_4
Grid Ref: 276616, 186356

Map Name: National Grid

Map date: 1983

Scale: 1:1,250

Printed at: 1:2,000



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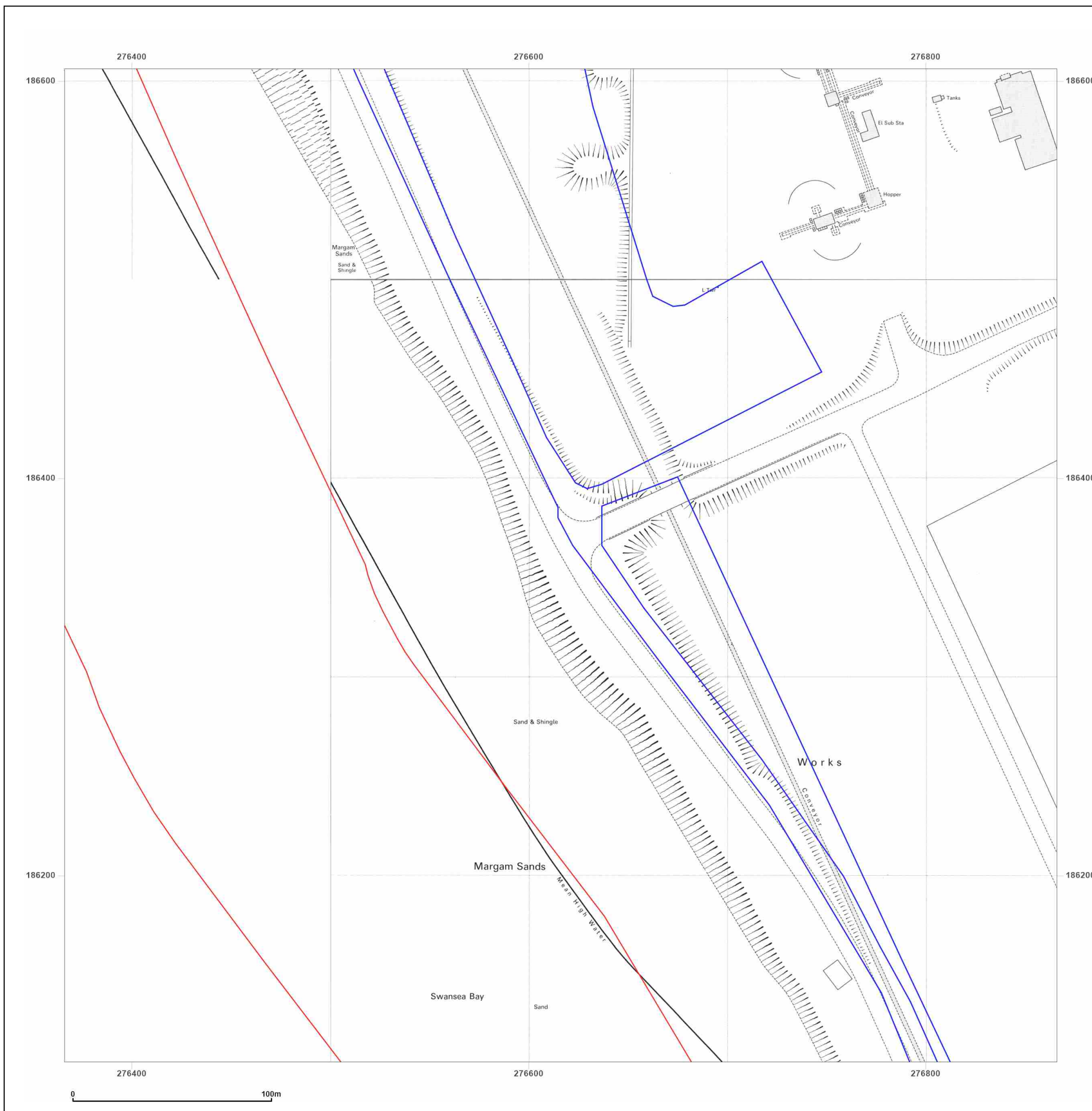


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_2_4
Grid Ref: 276616, 186356

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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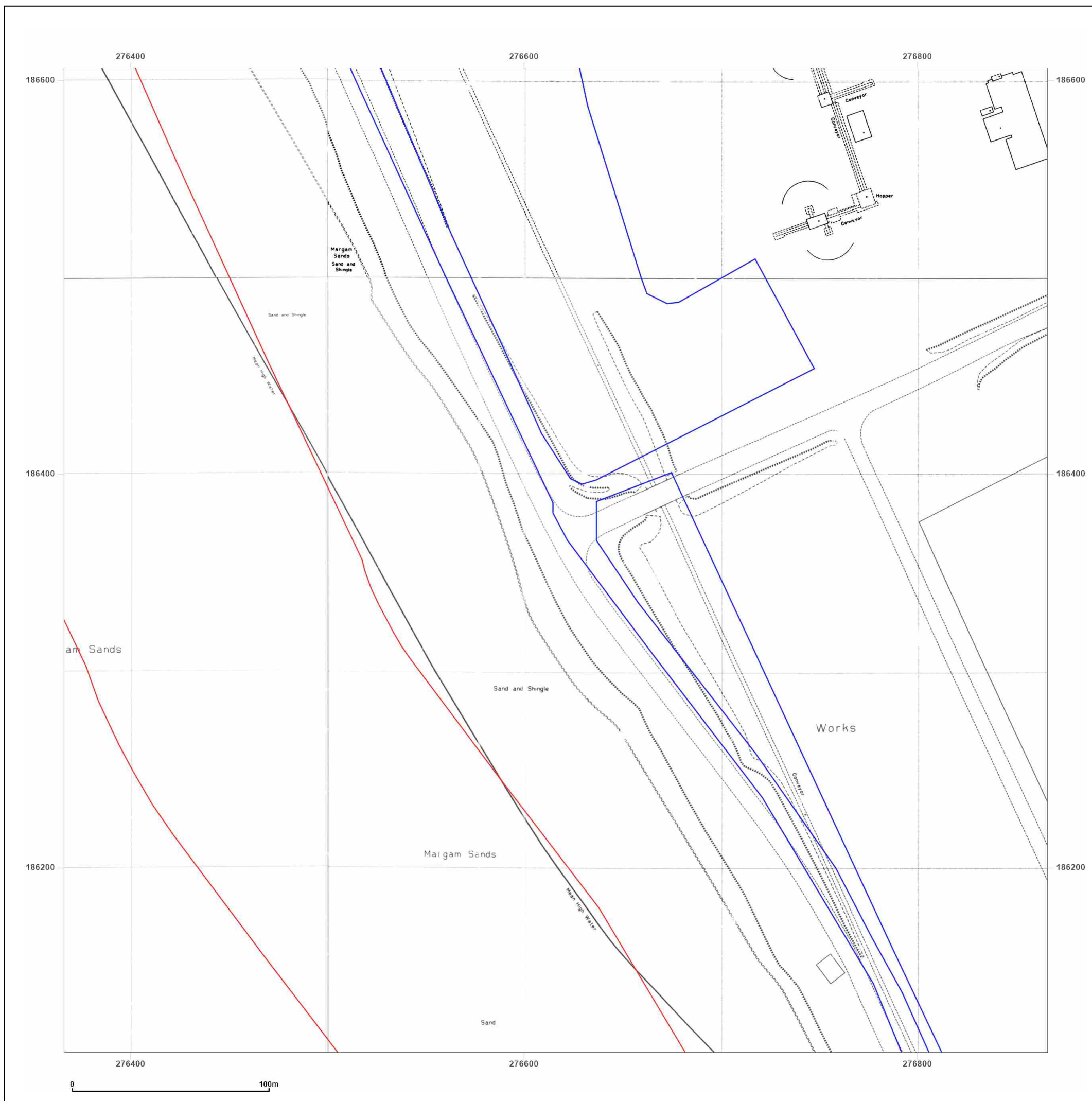


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_2_5
Grid Ref: 276616, 186856

Map Name: National Grid

Map date: 1978-1983

Scale: 1:1,250

Printed at: 1:2,000



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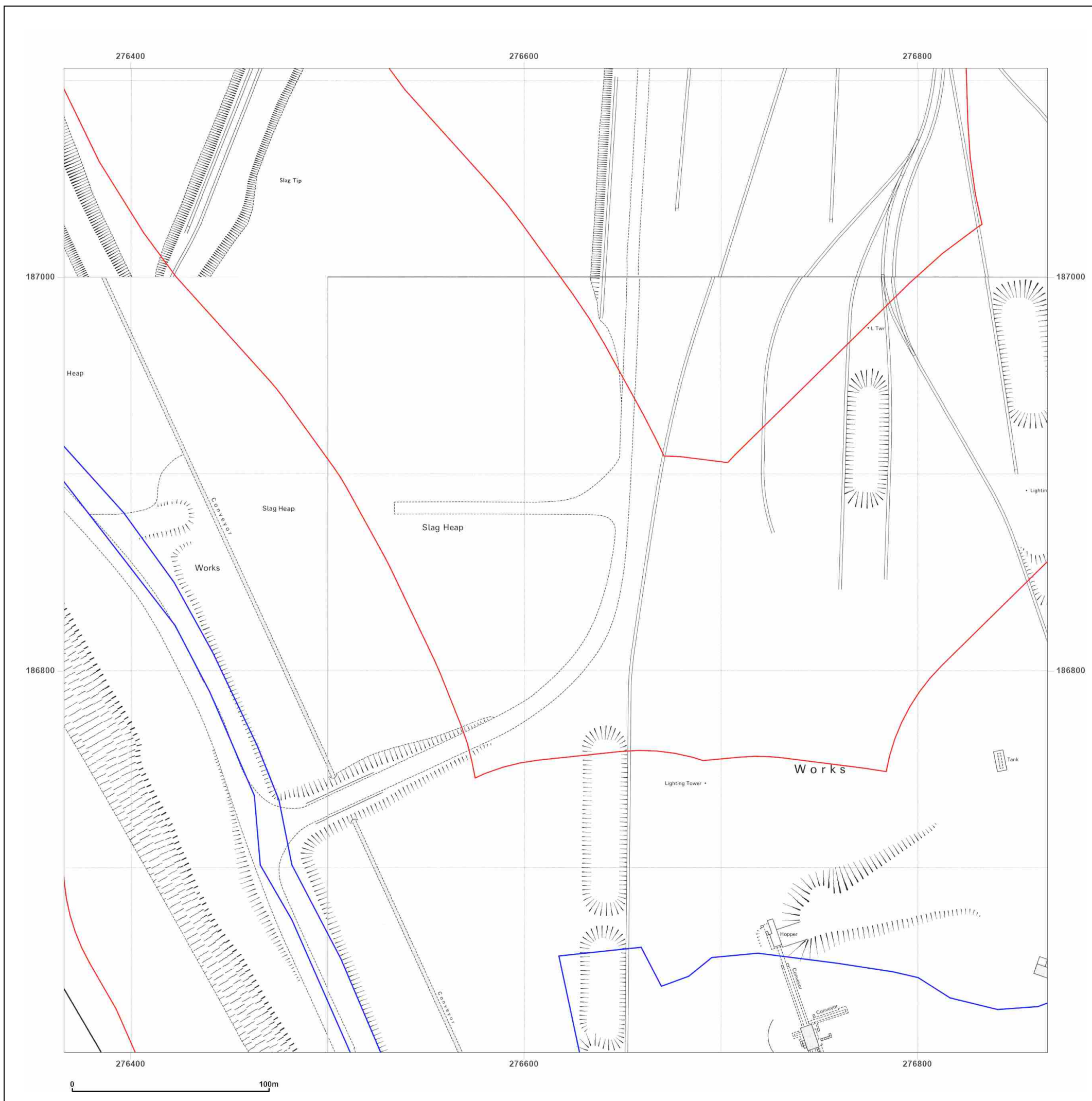


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Report Ref:

GSIP-2024-14959-18673_1250_2_5

Grid Ref:

276616, 186856

Map Name:

National Grid

Map date:

1993

Scale:

1:1,250

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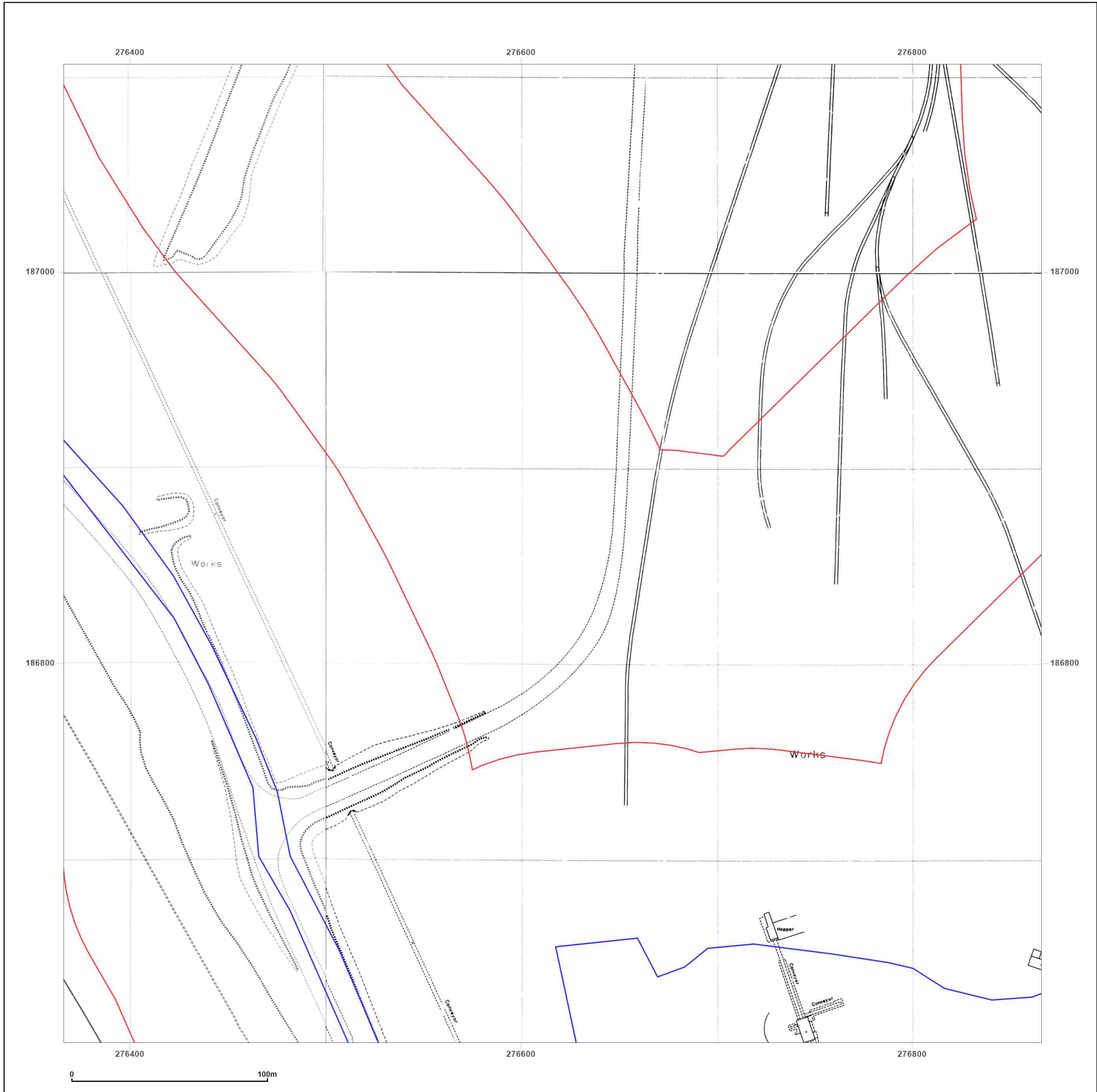
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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_3_4
Grid Ref: 277116, 186356

Map Name: National Grid

Map date: 1952

Scale: 1:1,250

Printed at: 1:2,000



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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_3_4
Grid Ref: 277116, 186356

Map Name: National Grid
Map date: 1962
Scale: 1:1,250
Printed at: 1:2,000



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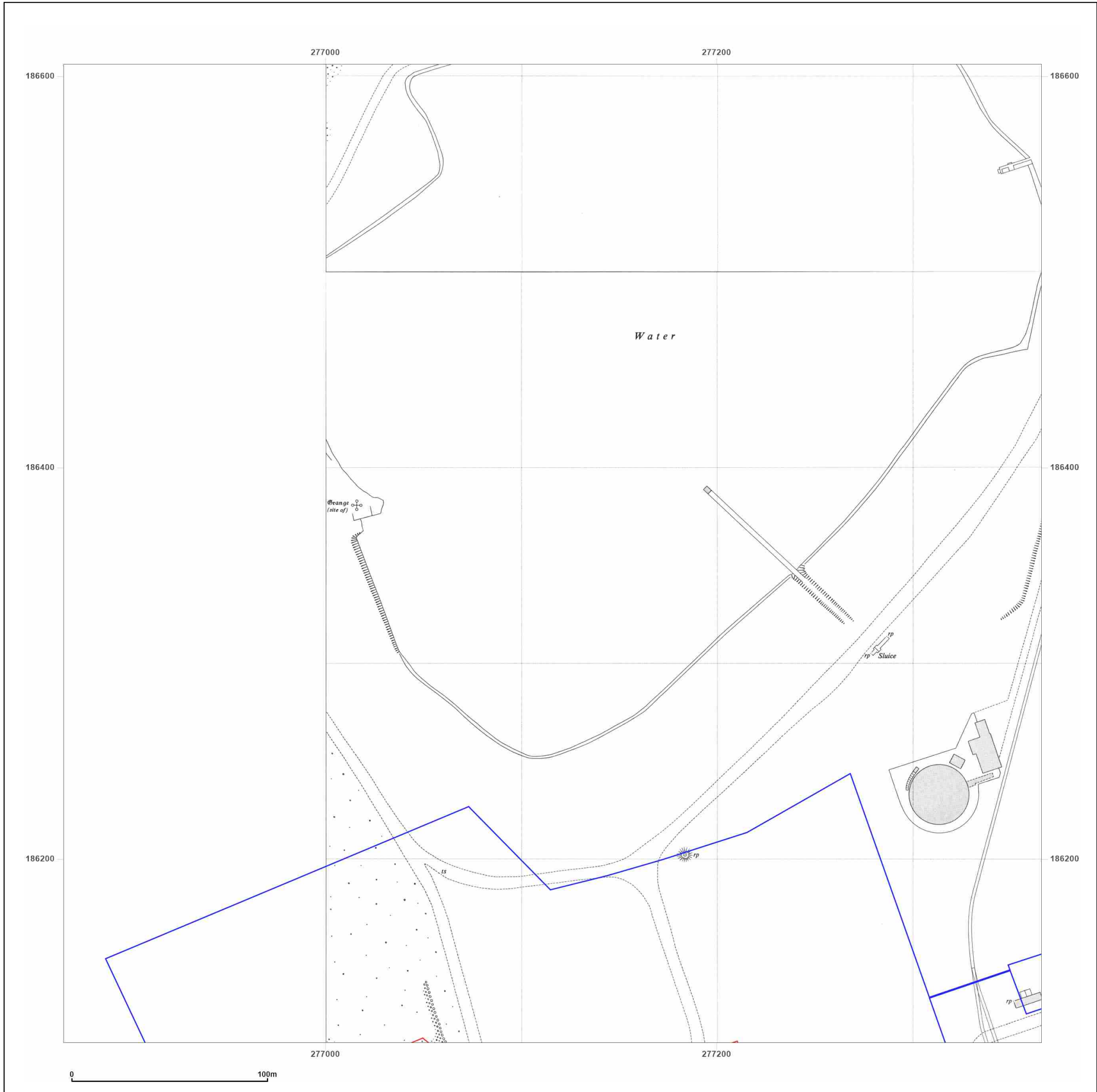


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_3_4
Grid Ref: 277116, 186356

Map Name: National Grid

Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



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Report Ref: GSIP-2024-14959-18673_1250_3_4
Grid Ref: 277116, 186356

Map Name: National Grid

Map date: 1983-1988

Scale: 1:1,250

Printed at: 1:2,000



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Report Ref:

GSIP-2024-14959-18673_1250_3_4

Grid Ref:

277116, 186356

Map Name:

National Grid

Map date:

1991-1993

Scale:

1:1,250

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Report Ref: GSIP-2024-14959-18673_1250_3_4
Grid Ref: 277116, 186356

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_3_5
Grid Ref: 277116, 186856

Map Name: National Grid

Map date: 1952

Scale: 1:1,250

Printed at: 1:2,000



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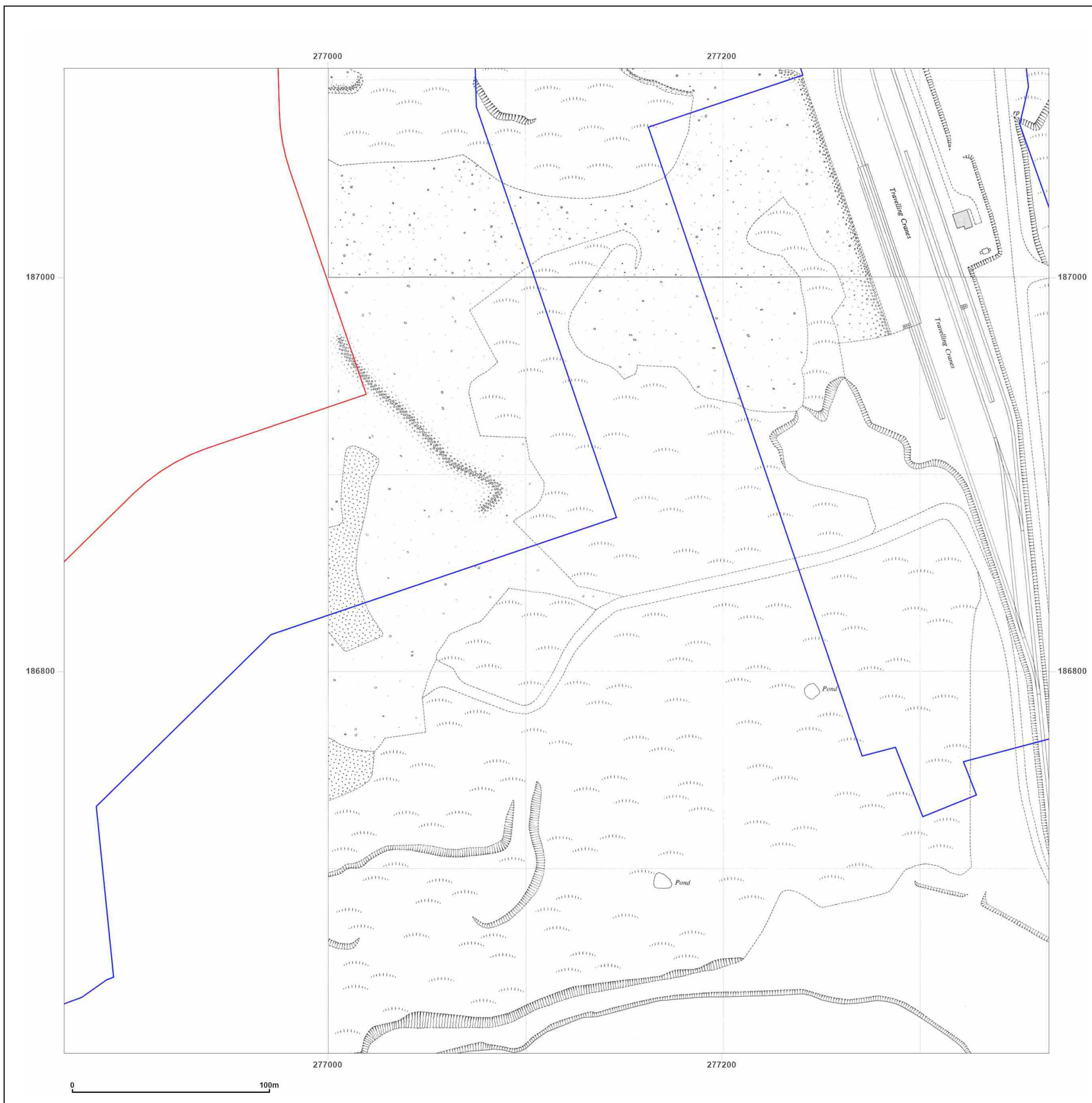


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Client Ref:

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Report Ref:

GSIP-2024-14959-18673_1250_3_5

Grid Ref:

277116, 186856

Map Name:

National Grid

Map date:

1962

Scale:

1:1,250

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_3_5
Grid Ref: 277116, 186856

Map Name: National Grid

Map date: 1974-1978

Scale: 1:1,250

Printed at: 1:2,000



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Report Ref: GSIP-2024-14959-18673_1250_3_5
Grid Ref: 277116, 186856

Map Name: National Grid

Map date: 1983

Scale: 1:1,250

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Report Ref: GSIP-2024-14959-18673_1250_3_5
Grid Ref: 277116, 186856

Map Name: National Grid

Map date: 1991-1993

Scale: 1:1,250

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Report Ref: GSIP-2024-14959-18673_1250_3_5
Grid Ref: 277116, 186856

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

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Report Ref: GSIP-2024-14959-18673_1250_3_5
Grid Ref: 277116, 186856

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



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Grid Ref: 277116, 186856

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

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Report Ref:

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Grid Ref:

277116, 187356

Map Name:

National Grid

Map date:

1952

Scale:

1:1,250

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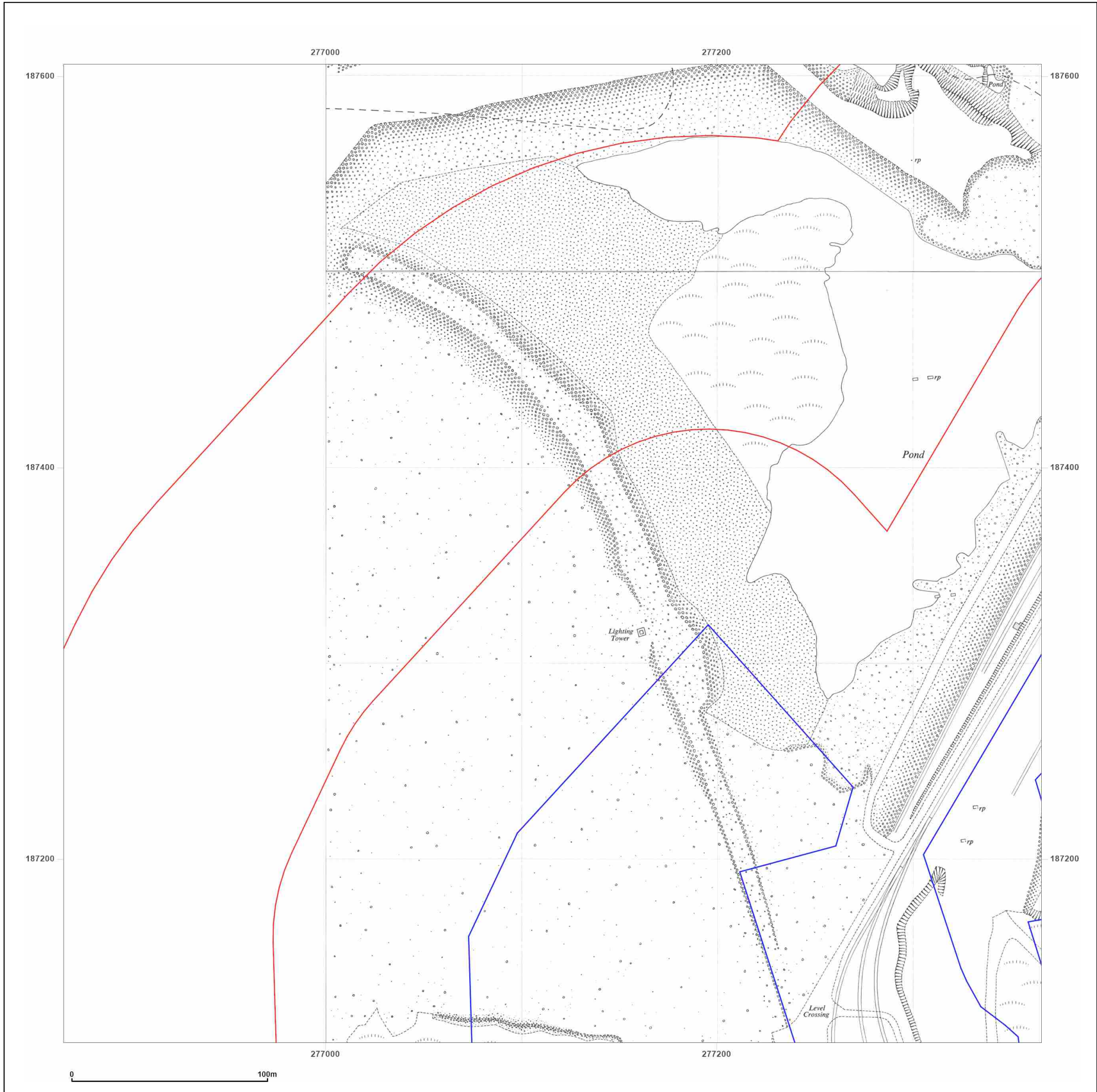
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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_3_6
Grid Ref: 277116, 187356

Map Name: National Grid

Map date: 1953

Scale: 1:1,250

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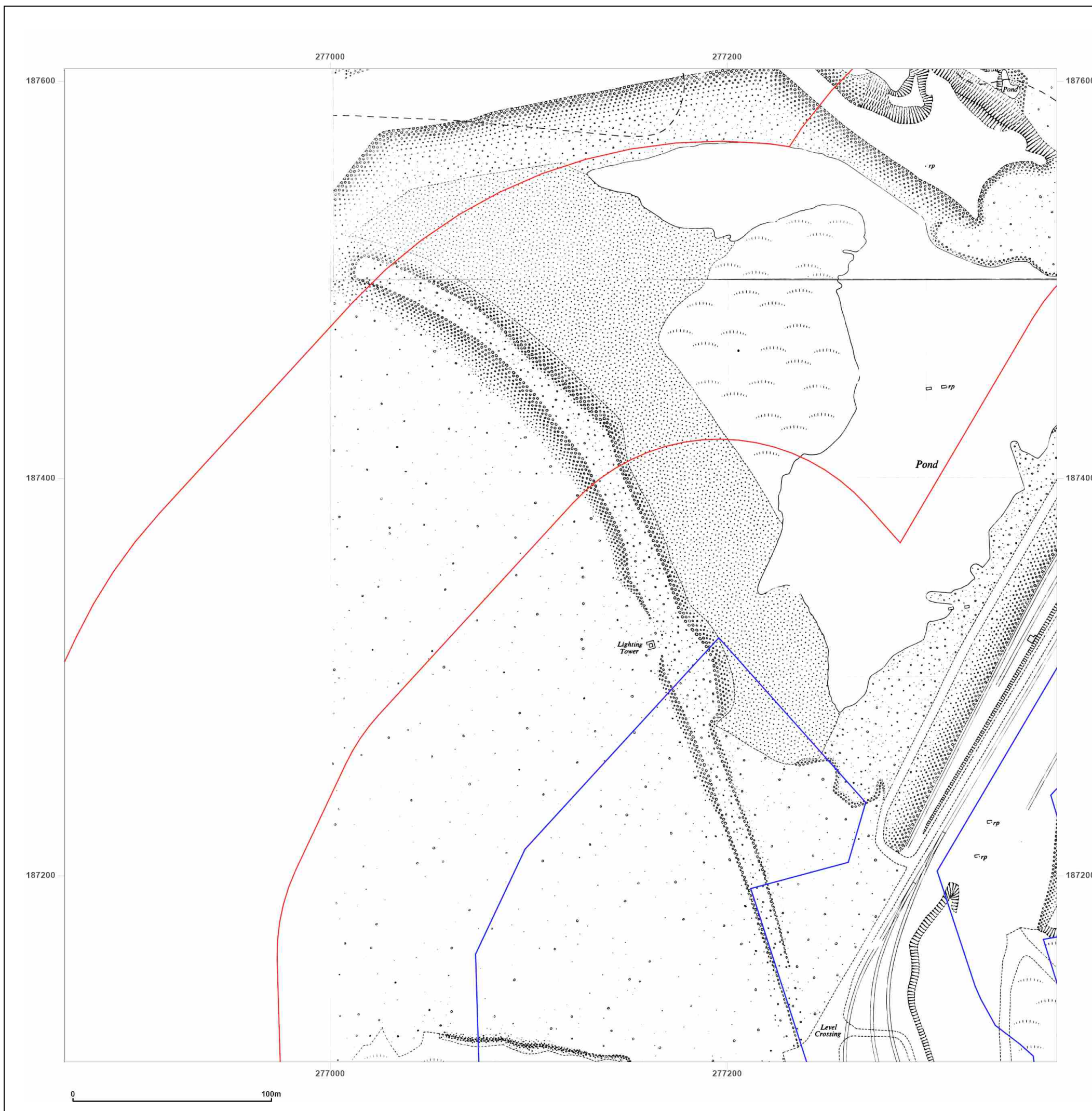


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Report Ref: GSIP-2024-14959-18673_1250_3_6
Grid Ref: 277116, 187356

Map Name: National Grid

Map date: 1962

Scale: 1:1,250

Printed at: 1:2,000



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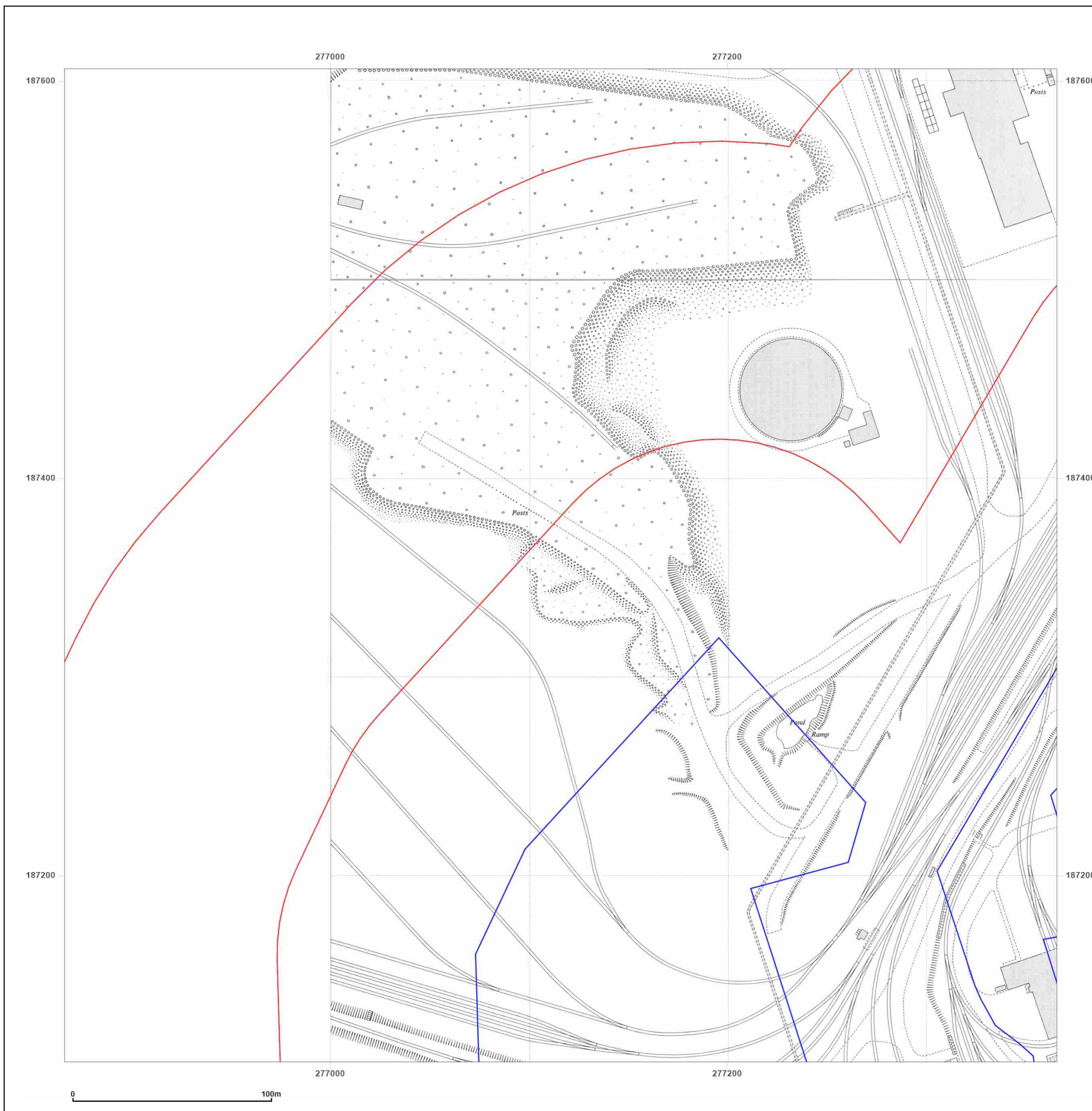


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Report Ref:

GSIP-2024-14959-18673_1250_3_6

Grid Ref:

277116, 187356

Map Name:

National Grid

Map date:

1991-1993

Scale:

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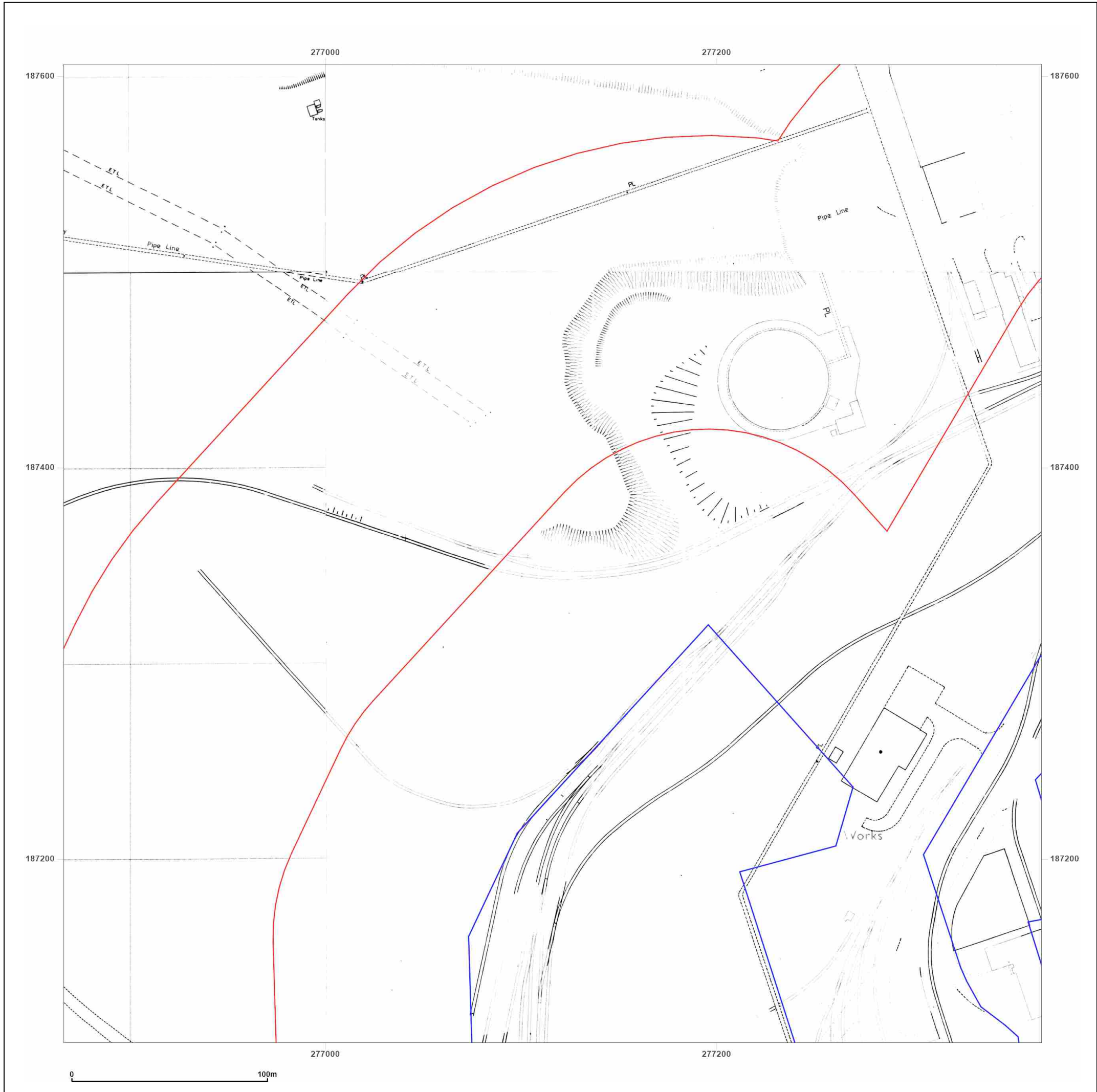
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Report Ref: GSIP-2024-14959-18673_1250_3_6

Grid Ref: 277116, 187356

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

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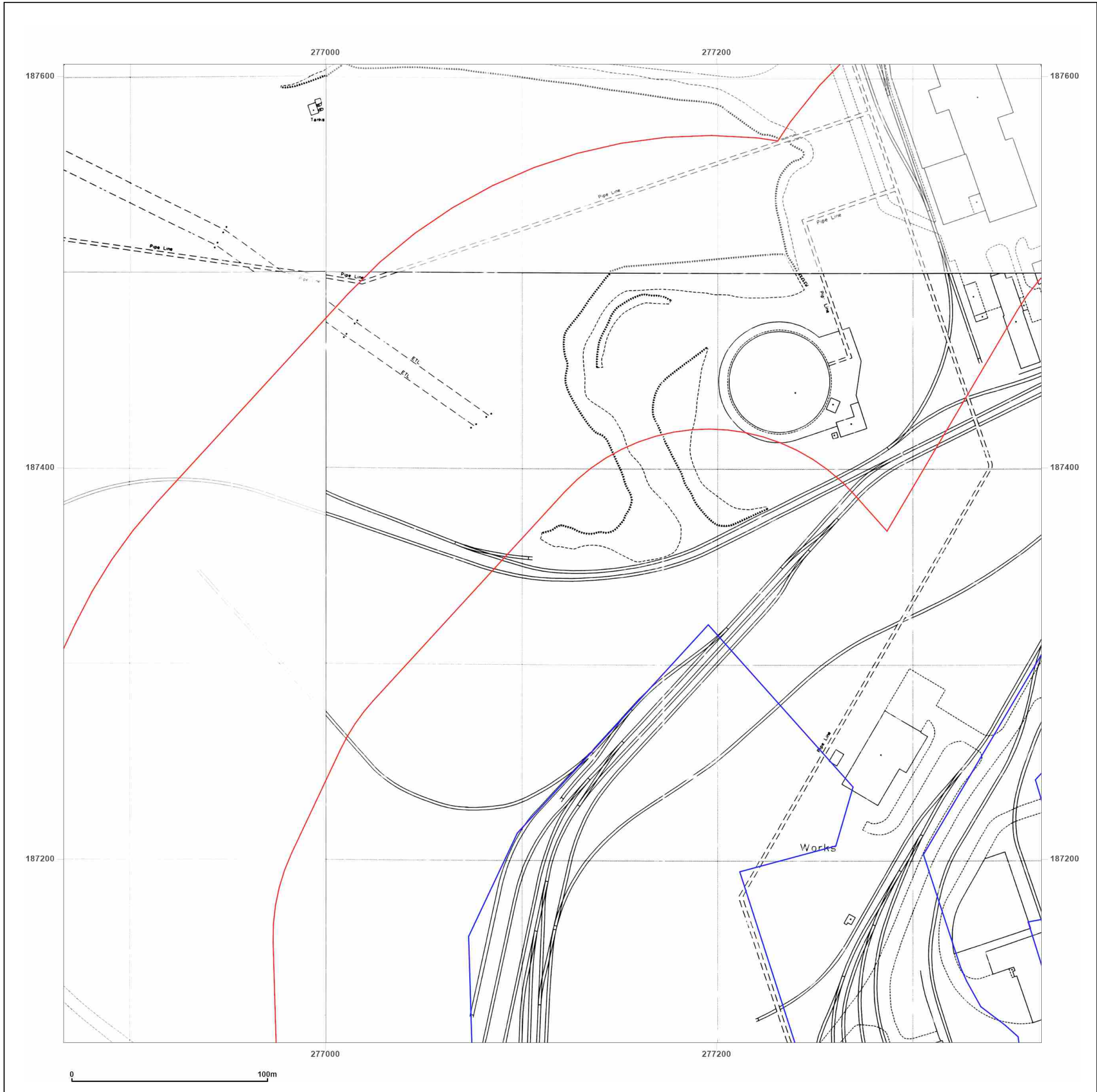
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Report Ref: GSIP-2024-14959-18673_1250_3_6
Grid Ref: 277116, 187356

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



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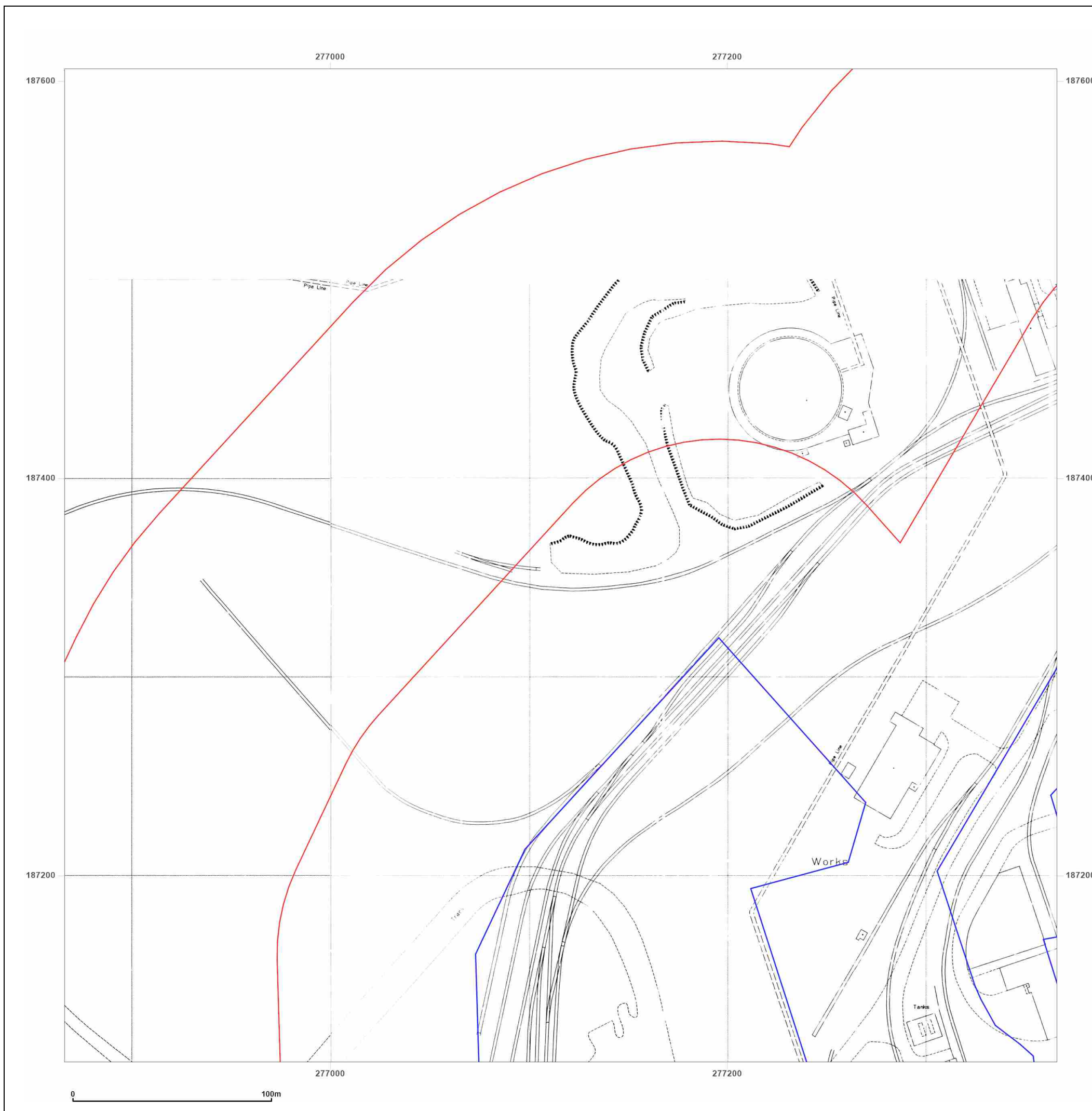


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Report Ref: GSIP-2024-14959-18673_1250_4_4
Grid Ref: 277616, 186356

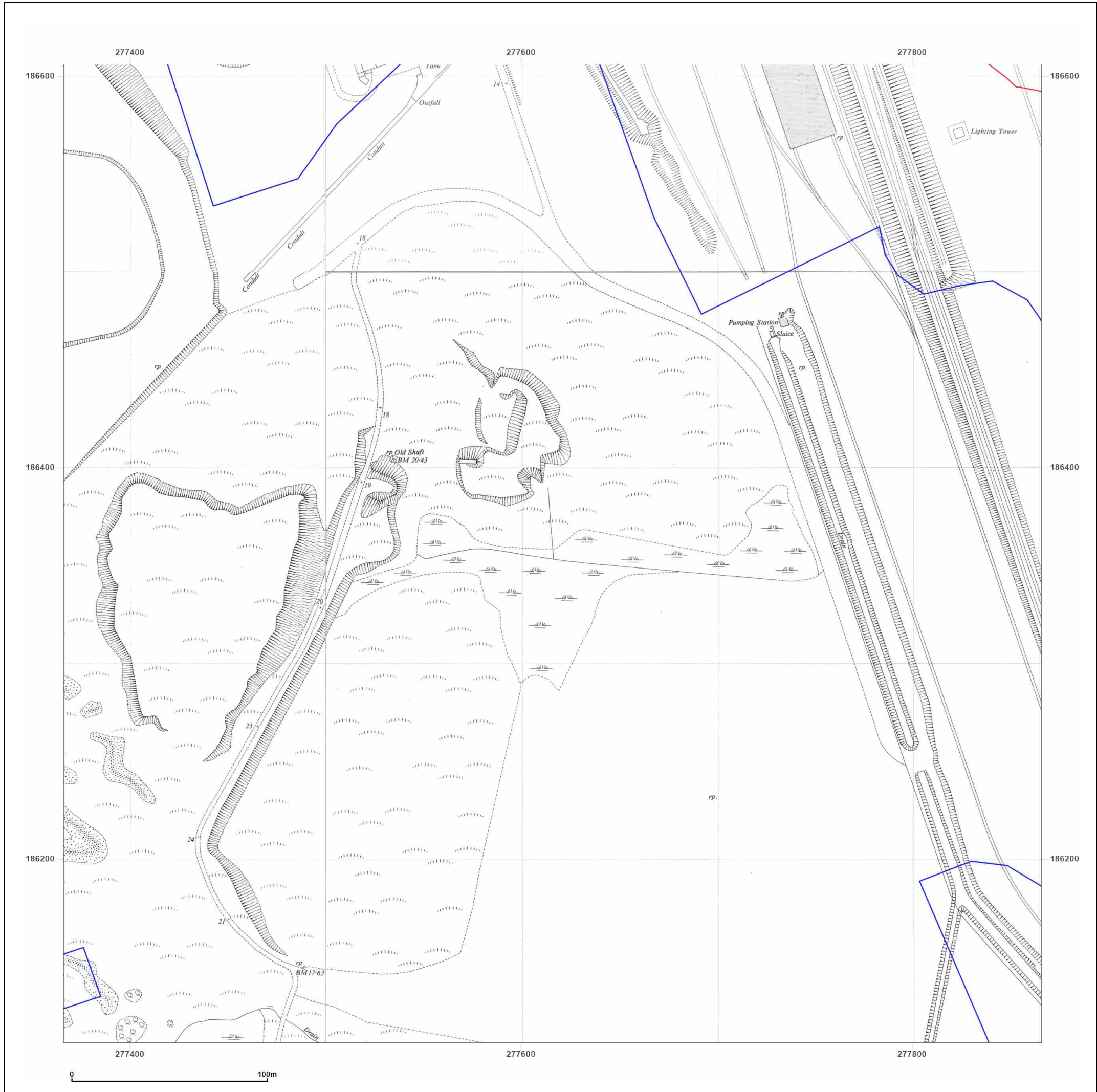
Map Name: National Grid
Map date: 1952
Scale: 1:1,250
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Report Ref: GSIP-2024-14959-18673_1250_4_4
Grid Ref: 277616, 186356

Map Name: National Grid

Map date: 1962

Scale: 1:1,250

Printed at: 1:2,000



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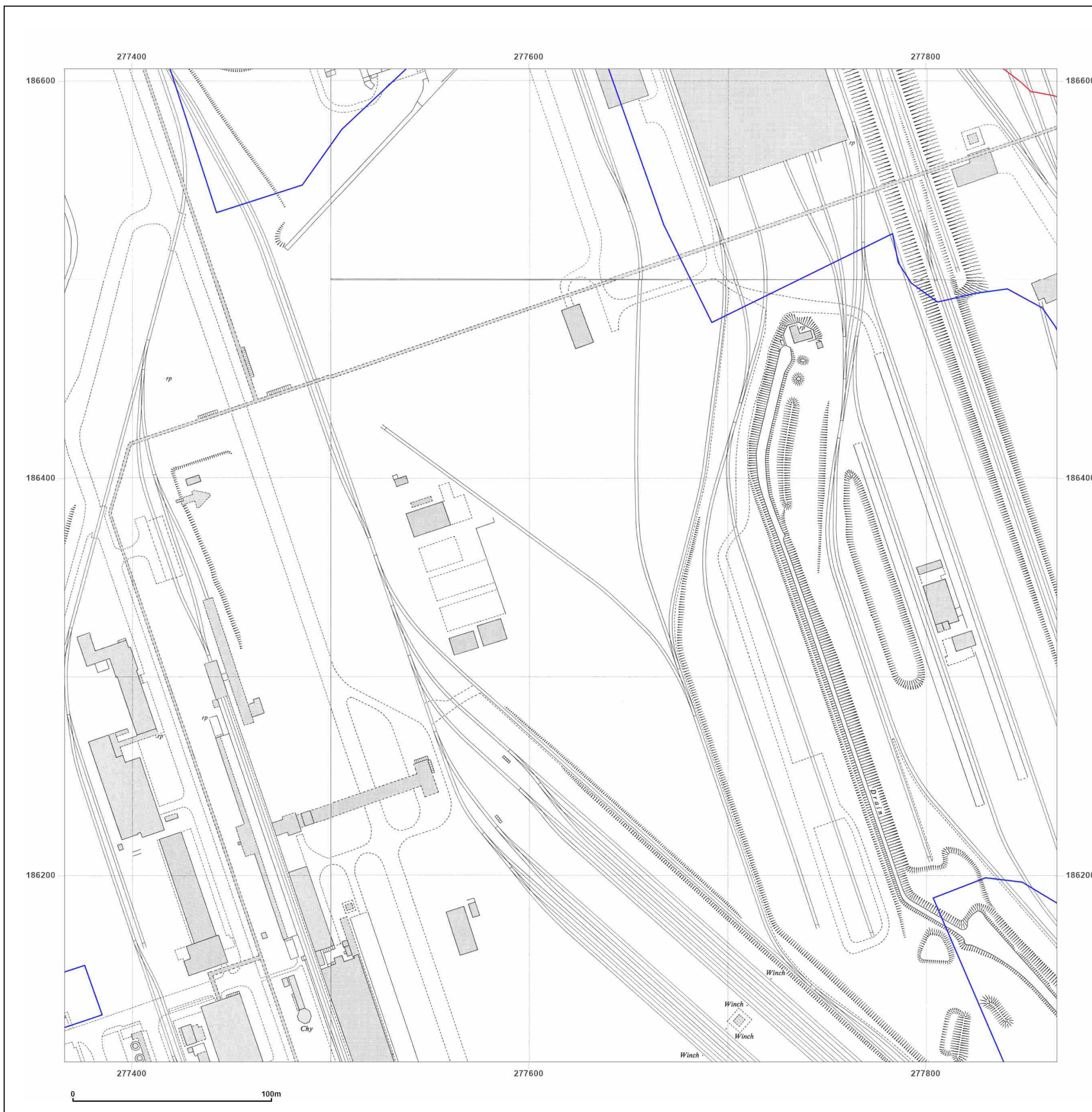


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GSIP-2024-14959-18673_1250_4_4

Grid Ref:

277616, 186356

Map Name:

National Grid

Map date:

1974

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Report Ref: GSIP-2024-14959-18673_1250_4_4
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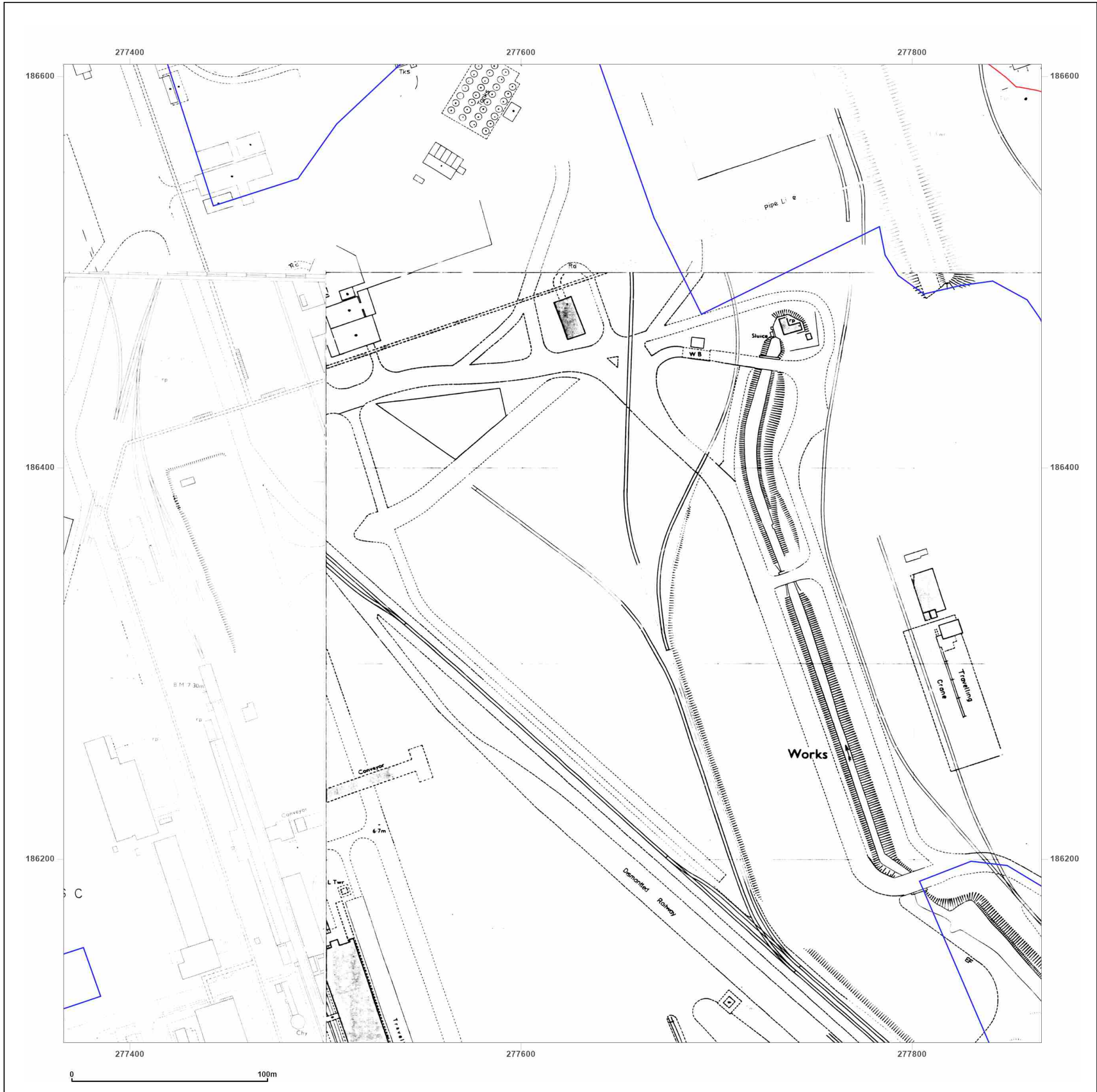
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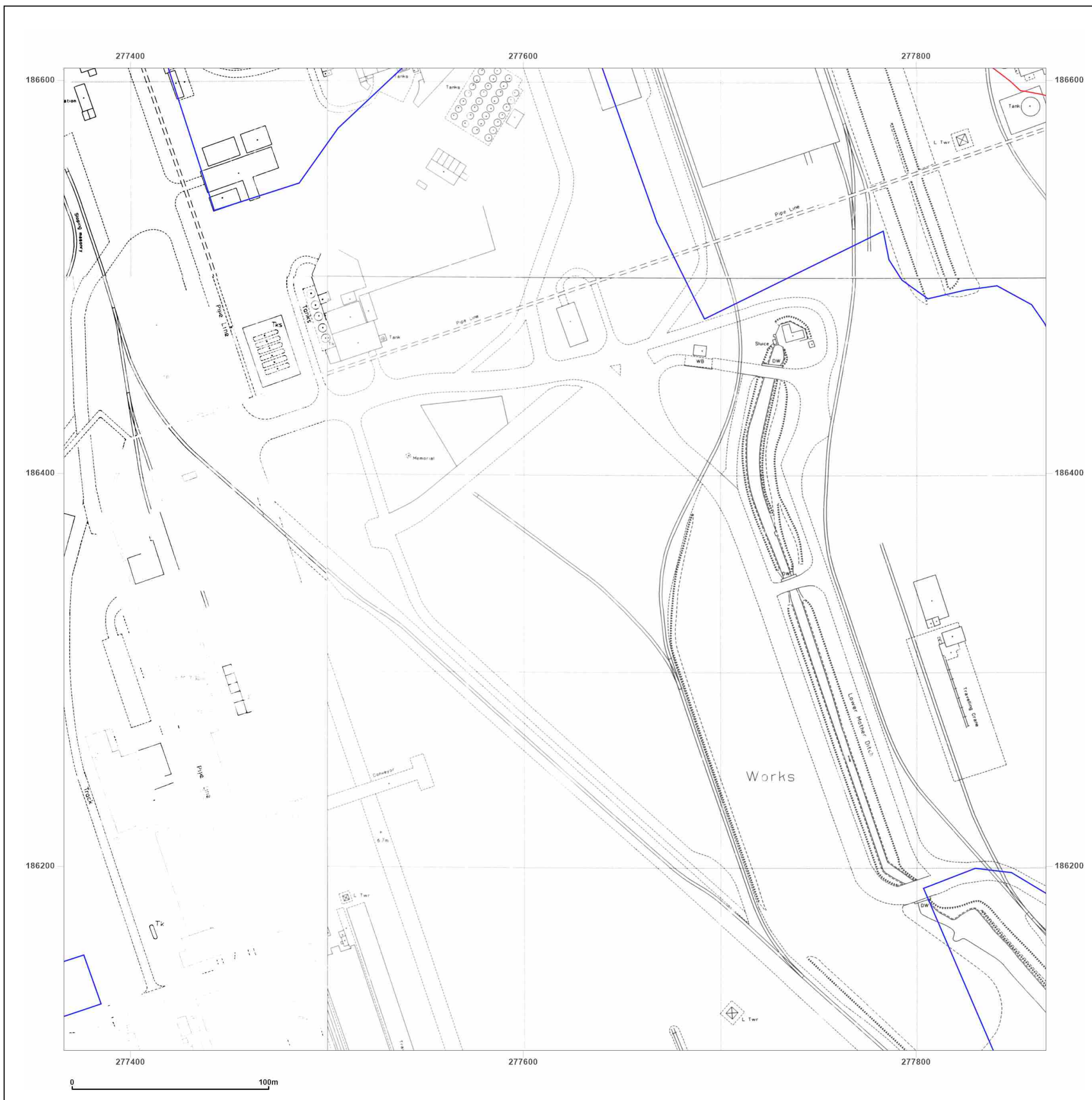


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Grid Ref:	277616, 186356

Map Name: National Grid

Map date: 1991-1993

Scale: 1:1,250

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_4_4
Grid Ref: 277616, 186356

Map Name: National Grid

Map date: 1993-1995

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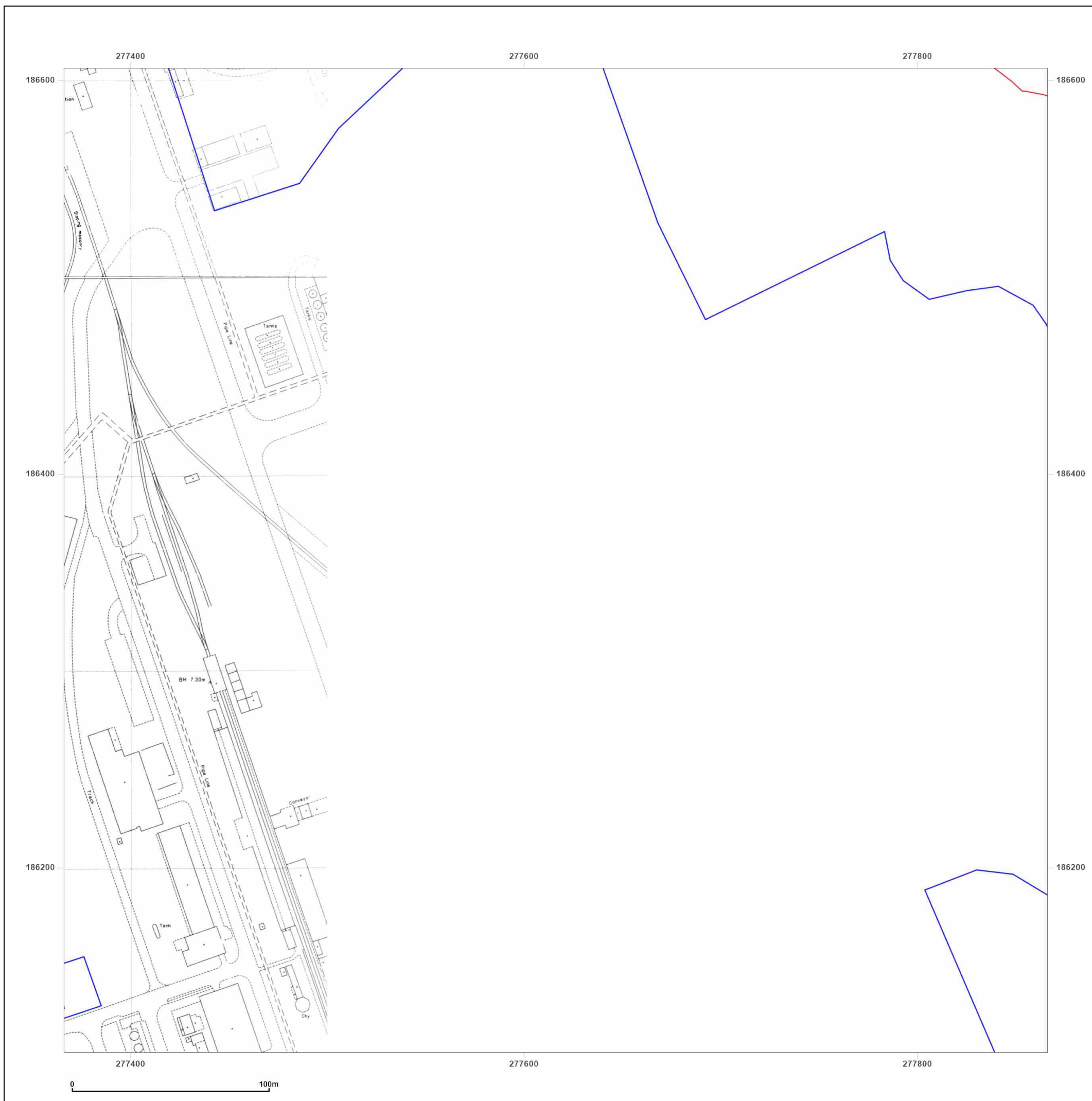


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Report Ref: GSIP-2024-14959-18673_1250_4_5
Grid Ref: 277616, 186856

Map Name: National Grid

Map date: 1952

Scale: 1:1,250

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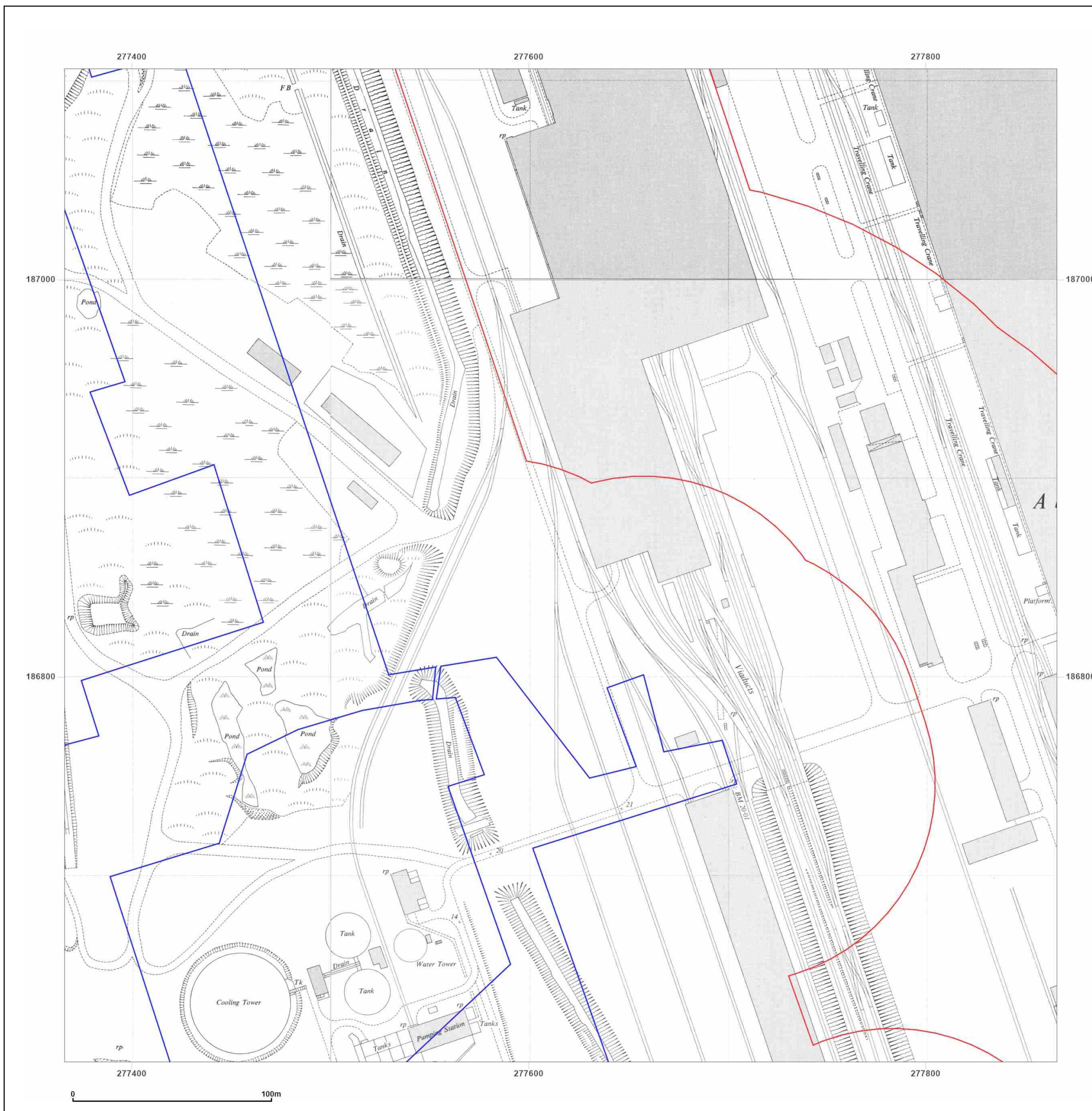


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Report Ref: GSIP-2024-14959-18673_1250_4_5
Grid Ref: 277616, 186856

Map Name: National Grid

Map date: 1962

Scale: 1:1,250

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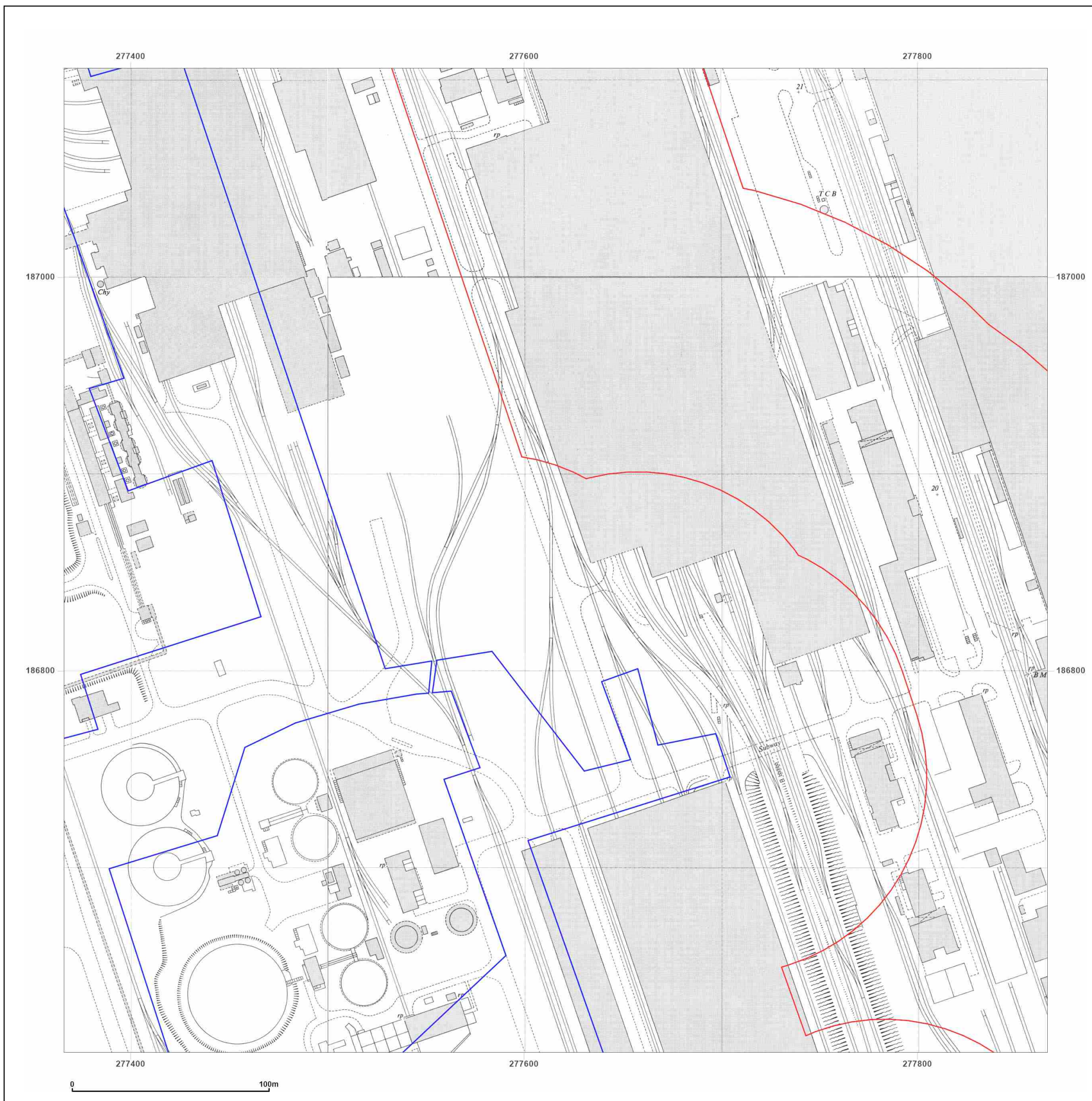


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Report Ref: GSIP-2024-14959-18673_1250_4_5
Grid Ref: 277616, 186856

Map Name: National Grid

Map date: 1974-1977

Scale: 1:1,250

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Report Ref: GSIP-2024-14959-18673_1250_4_5
Grid Ref: 277616, 186856

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

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Grid Ref: 277616, 186856

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

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Grid Ref: 277616, 186856

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

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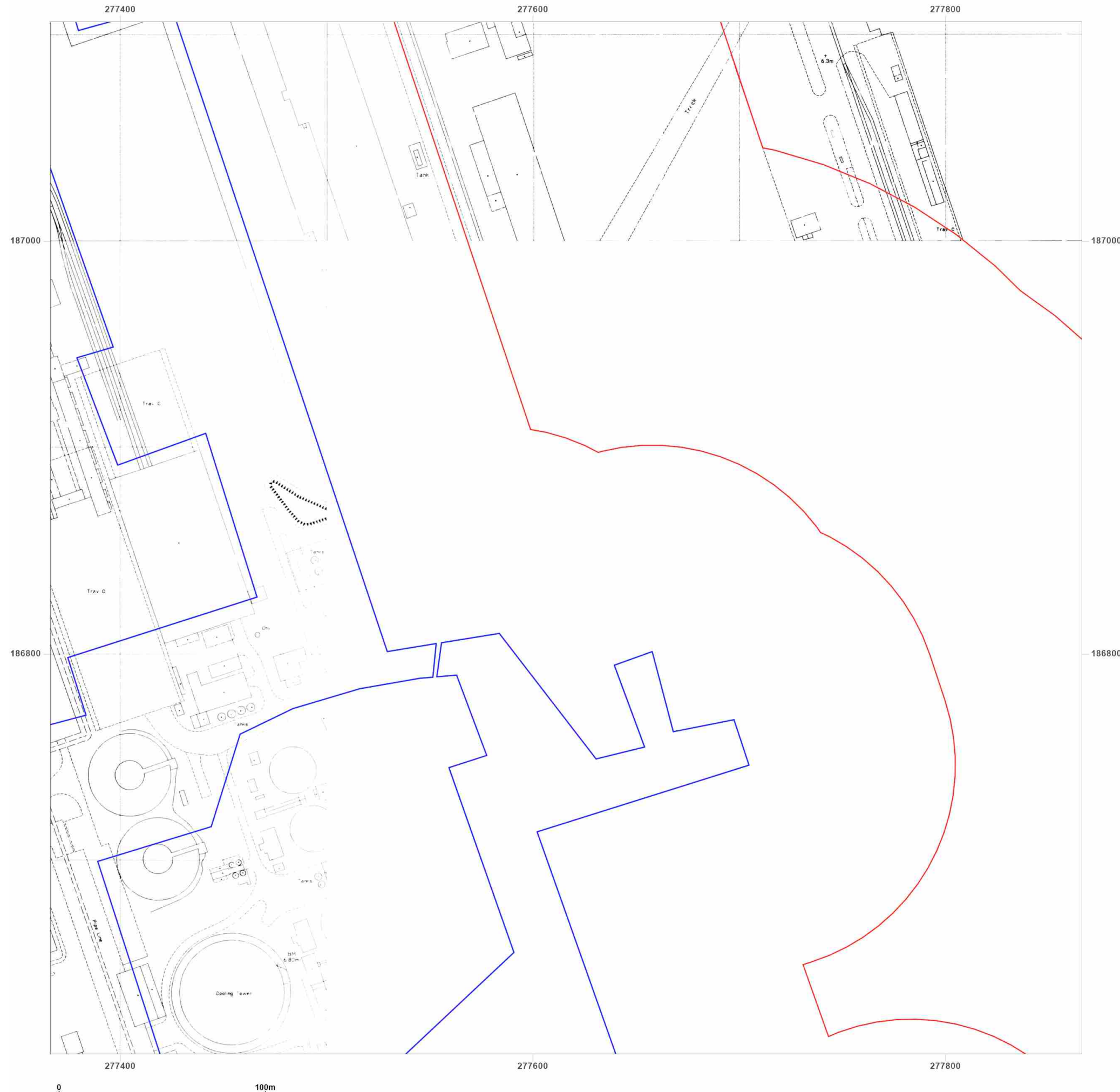


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Map Name: National Grid

Map date: 1995

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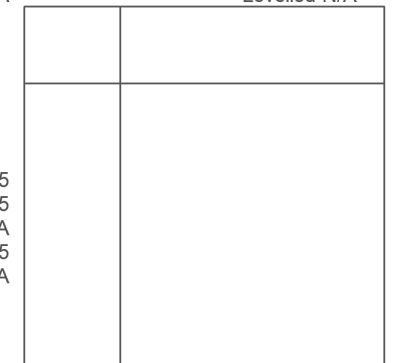
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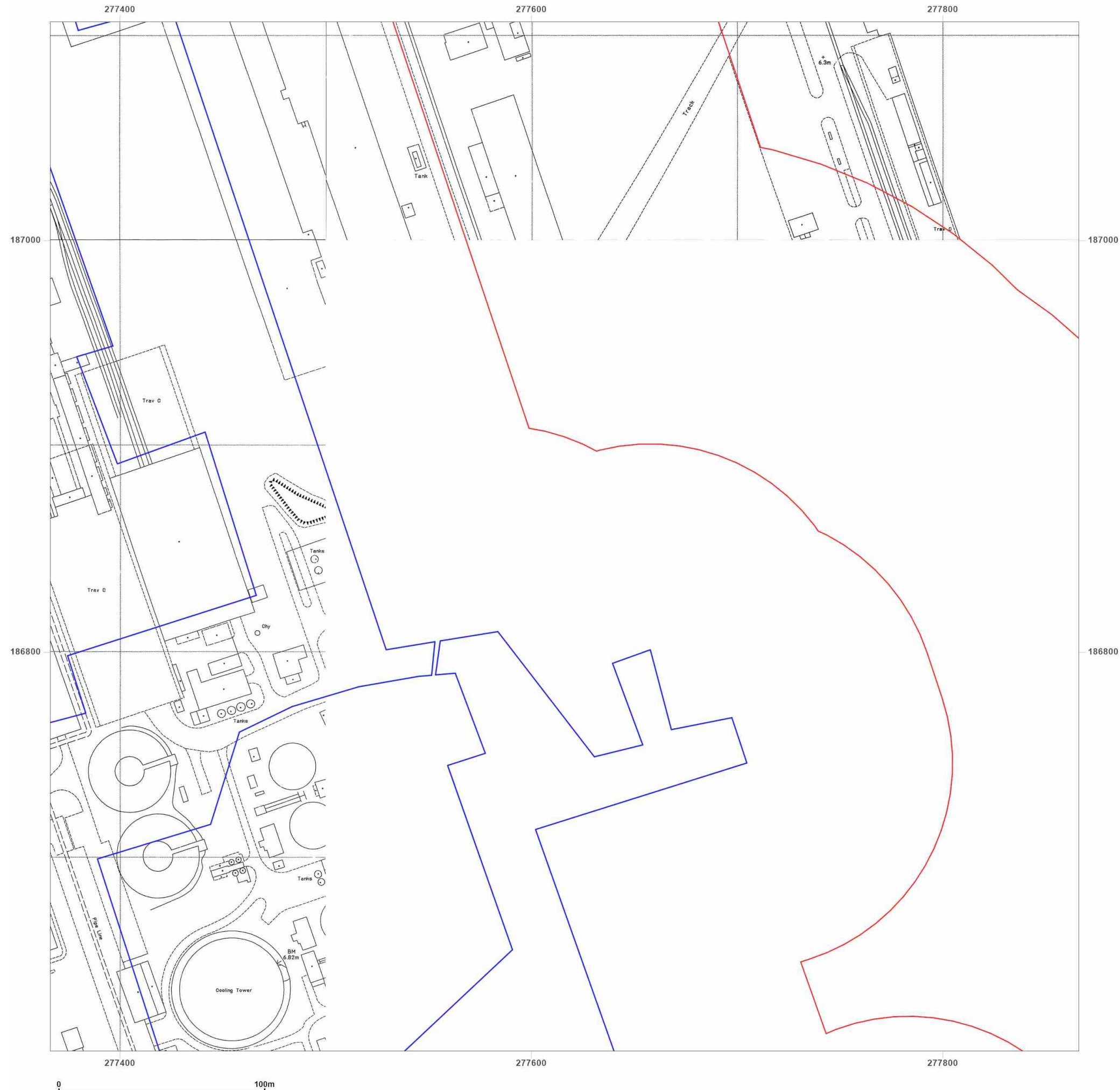


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Grid Ref: 277616, 187356

Map Name: National Grid

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Scale: 1:1,250

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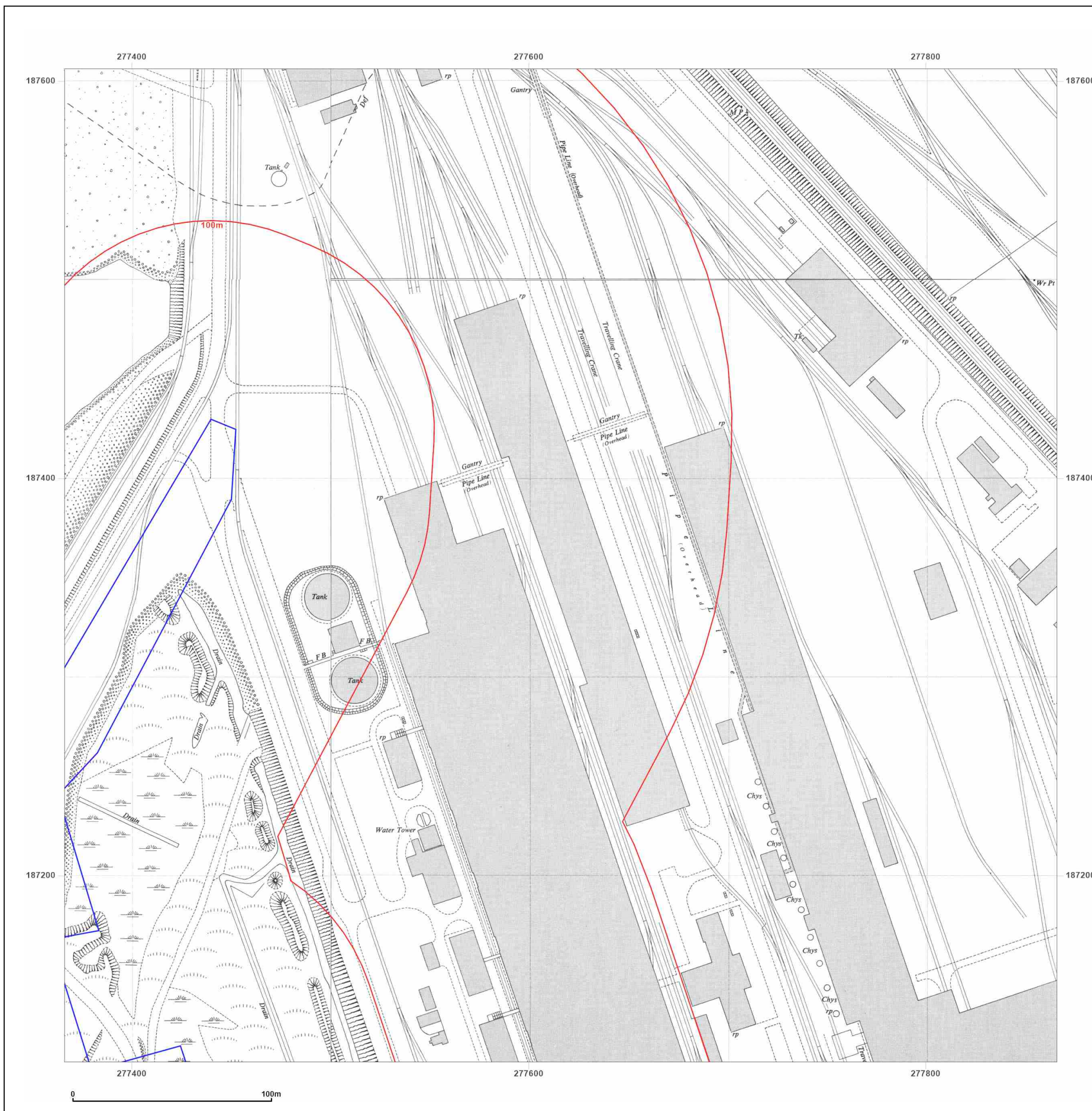


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GSIP-2024-14959-18673_1250_4_6

Grid Ref:

277616, 187356

Map Name:

National Grid

Map date:

1953

Scale:

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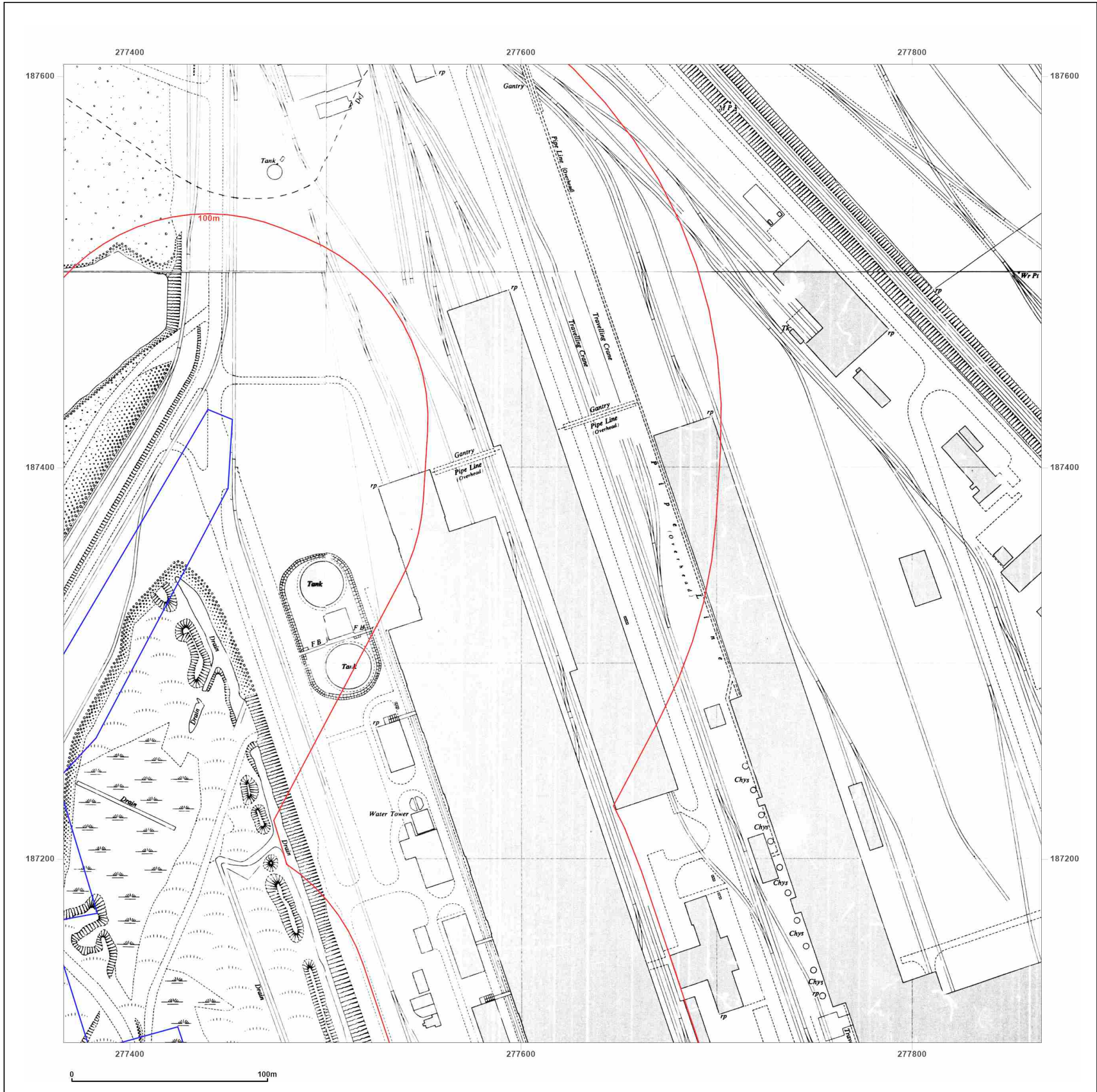
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Grid Ref: 277616, 187356

Map Name: National Grid

Map date: 1961-1962

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Grid Ref: 277616, 187356

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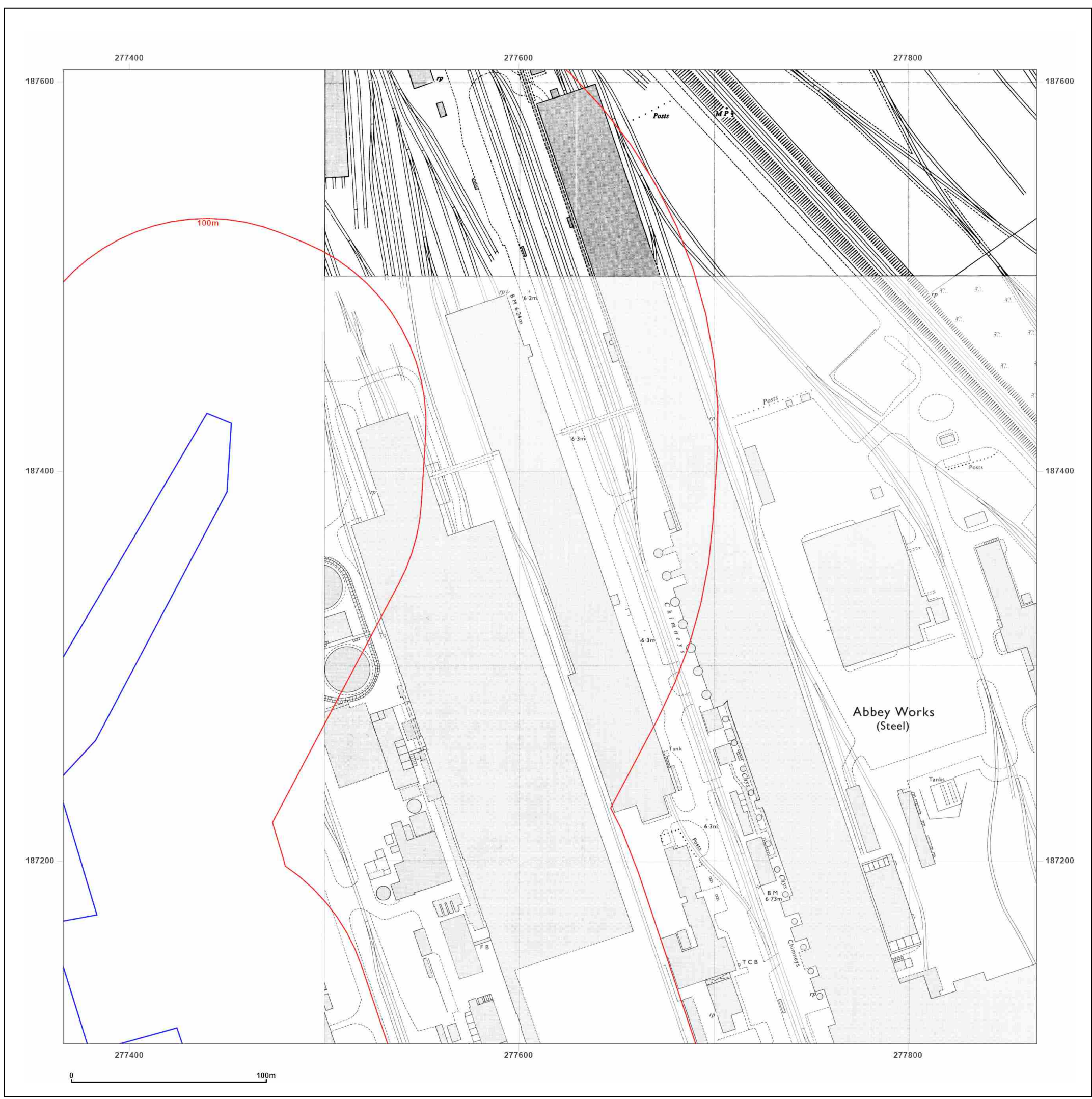


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Grid Ref: 277616, 187356

Map Name: National Grid

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Grid Ref: 277616, 187356

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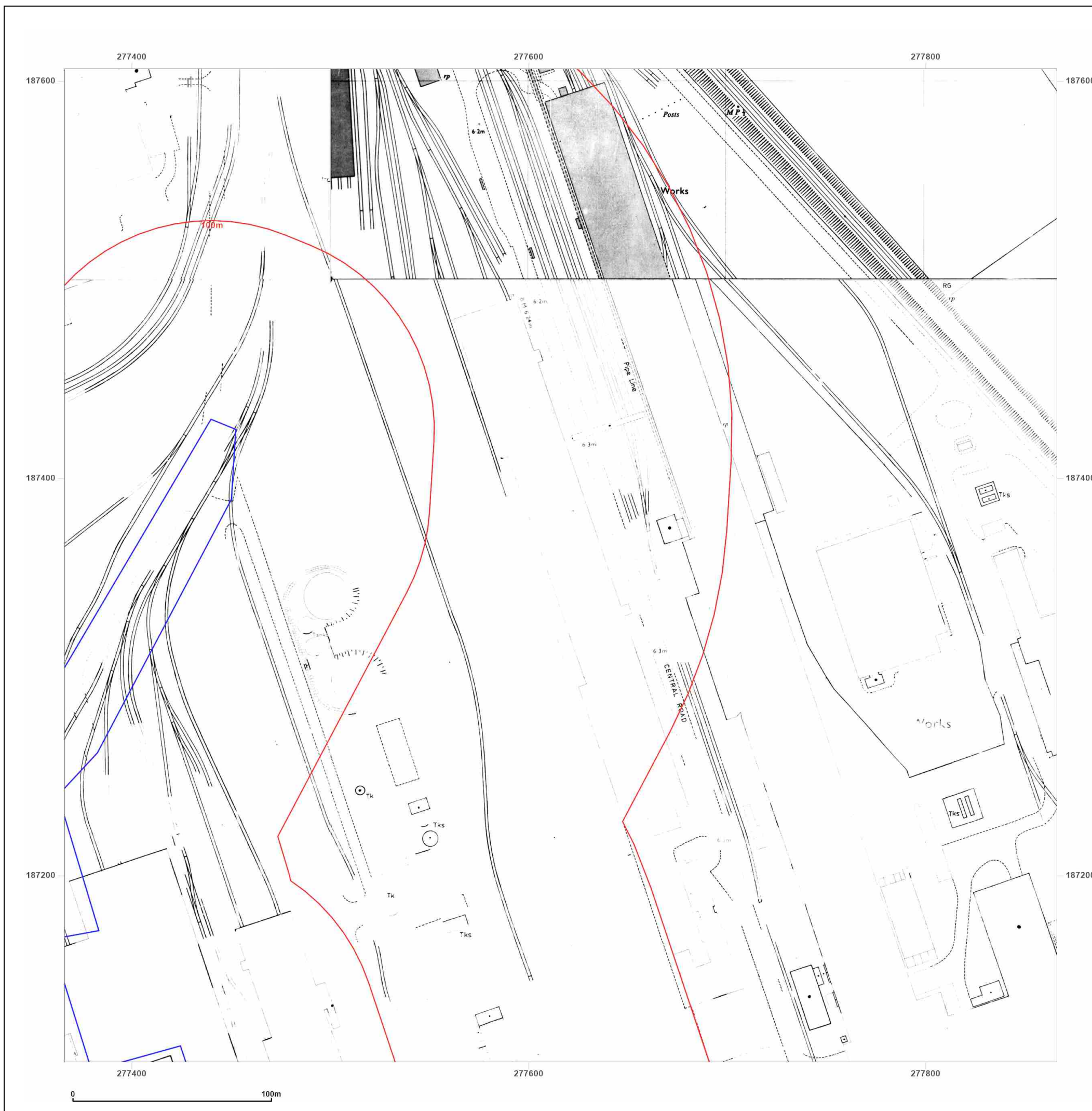


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Grid Ref: 277616, 187356

Map Name: National Grid

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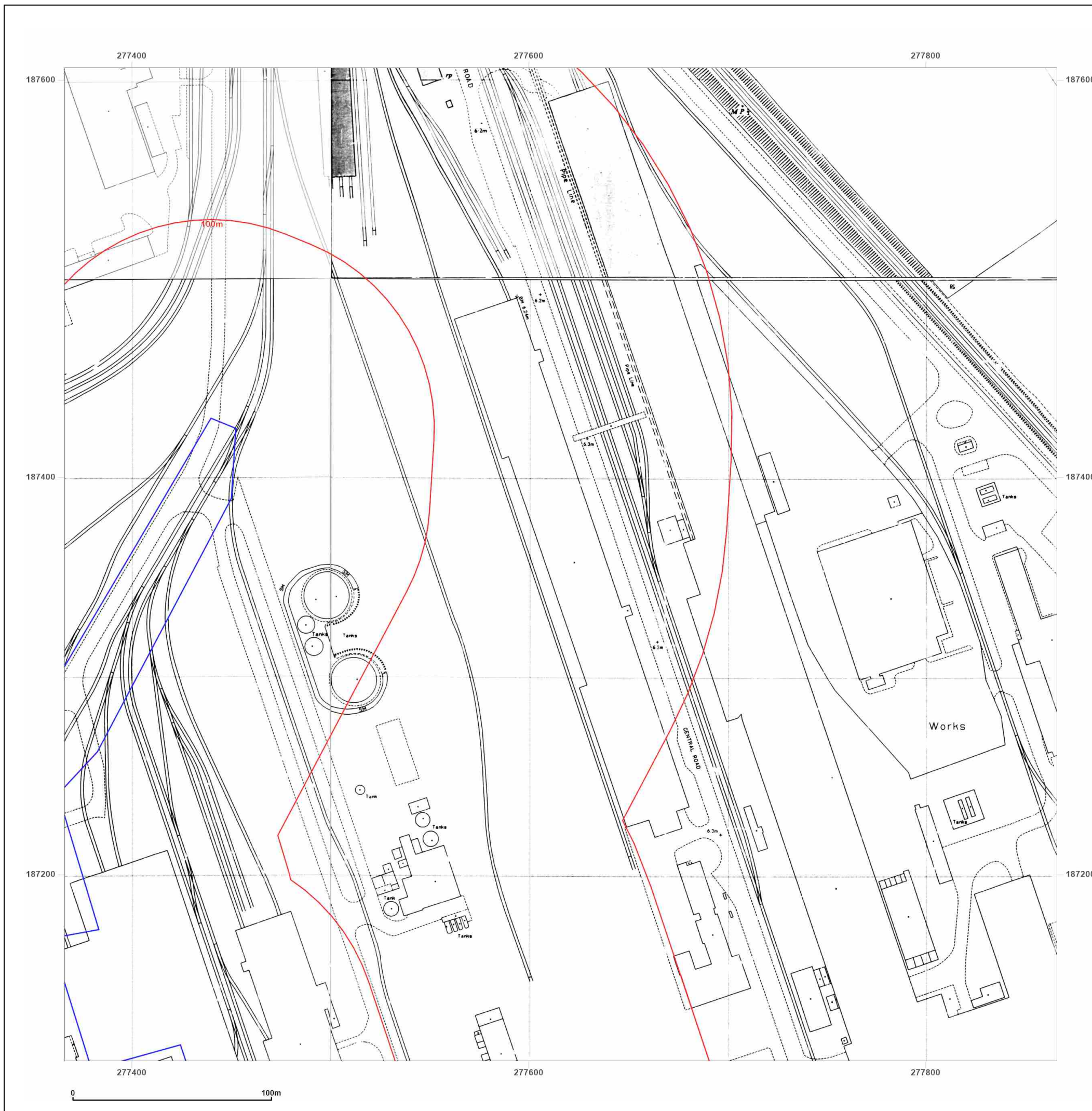


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Grid Ref: 277616, 187356

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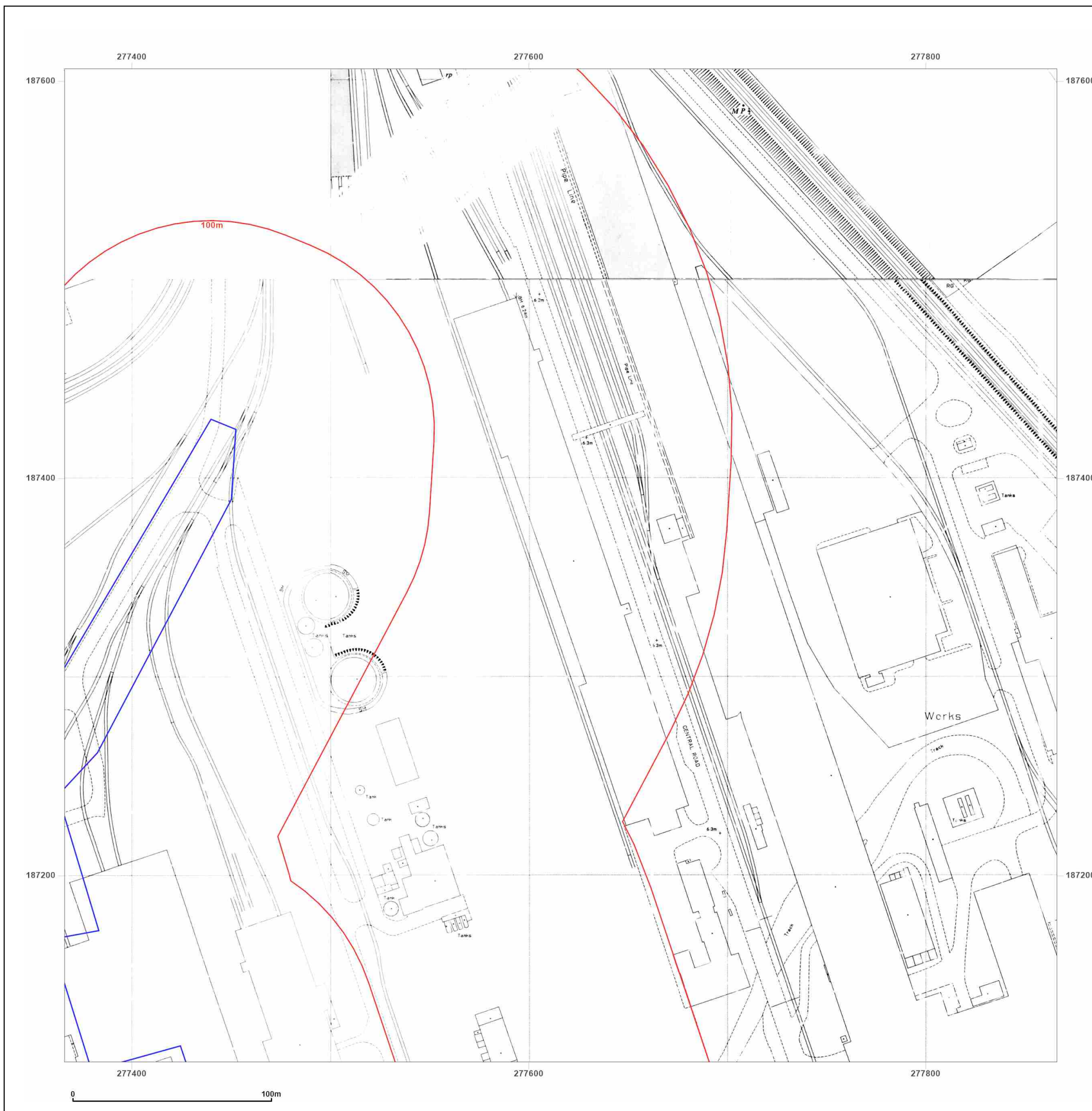


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Report Ref:

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Grid Ref:

277616, 187356

Map Name:

National Grid

Map date:

1993-1995

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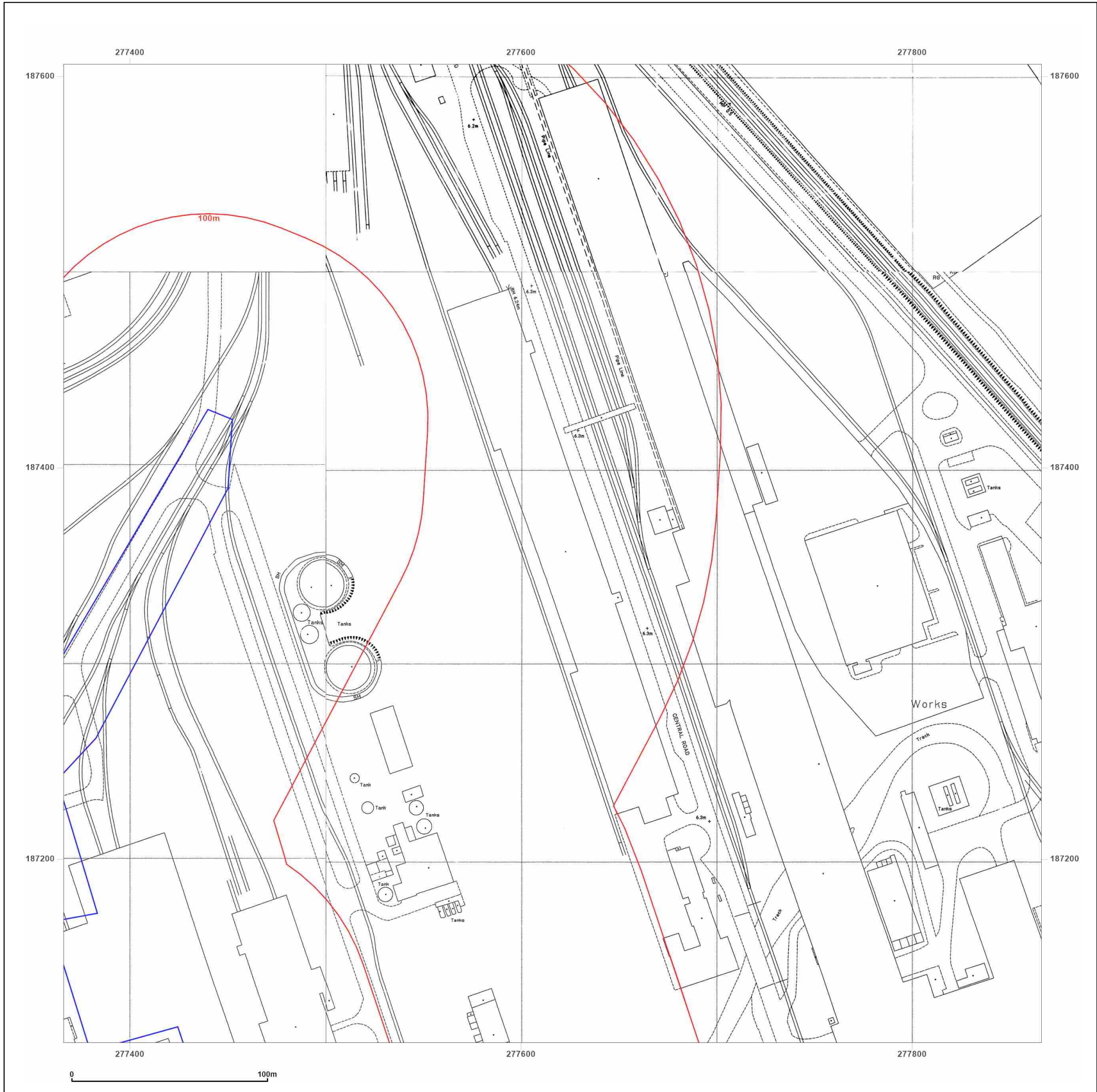
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Report Ref: GSIP-2024-14959-18673_1250_5_4
Grid Ref: 278116, 186356

Map Name: National Grid

Map date: 1951-1952

Scale: 1:1,250

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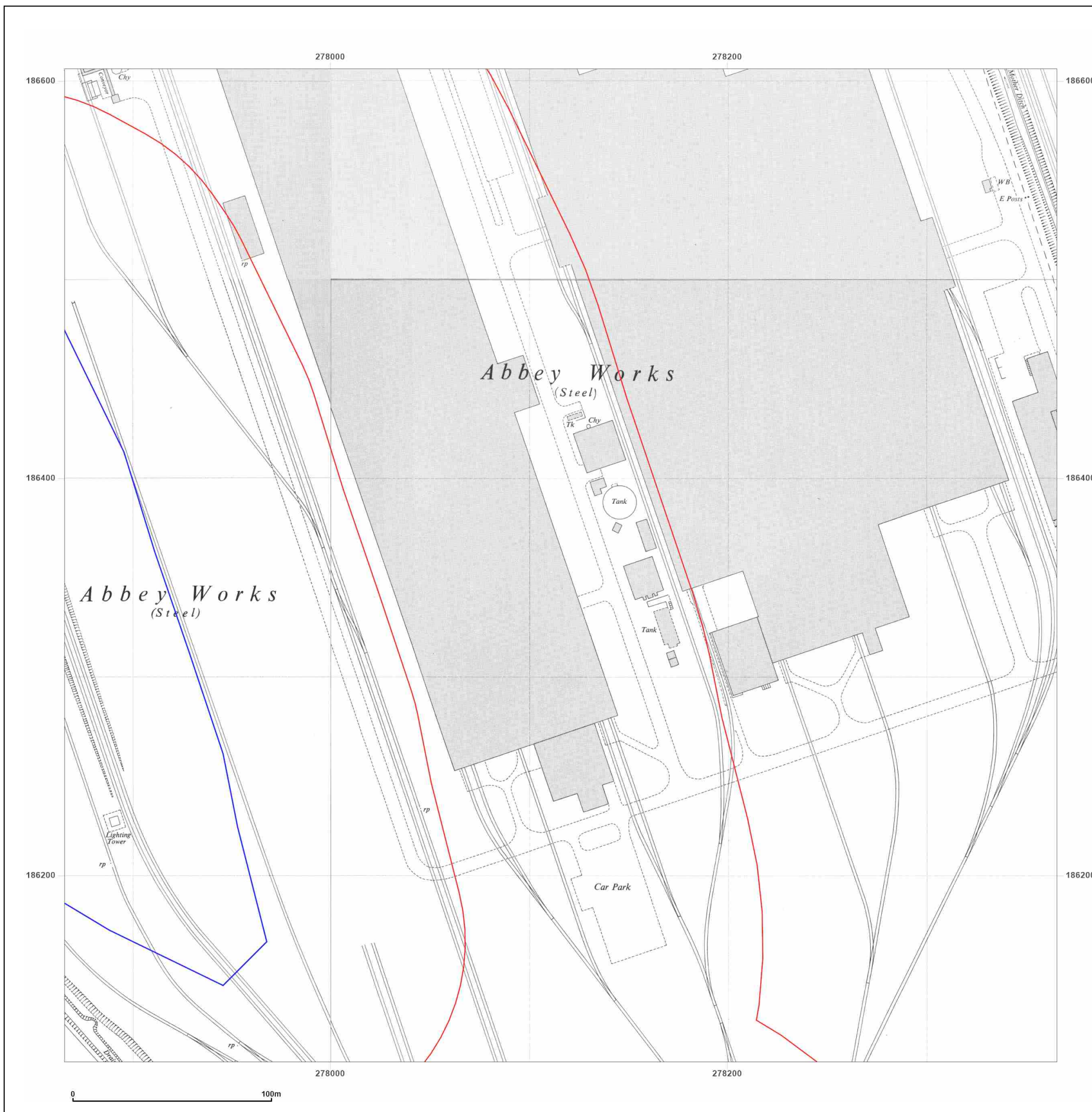


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Report Ref: GSIP-2024-14959-18673_1250_5_4
Grid Ref: 278116, 186356

Map Name: National Grid

Map date: 1952

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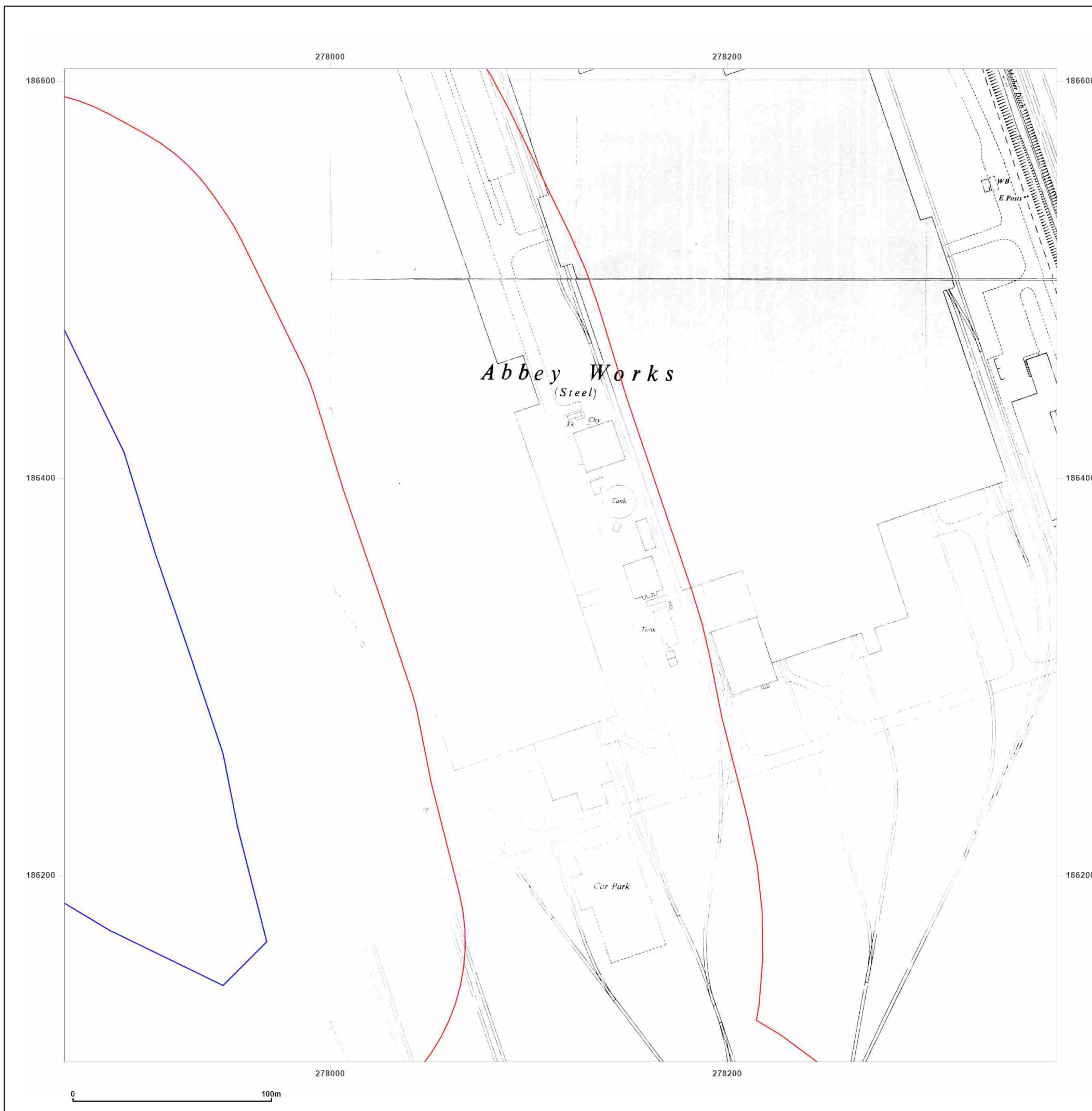


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_5_4
Grid Ref: 278116, 186356

Map Name: National Grid

Map date: 1960-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1952
Revised 1961
Edition N/A
Copyright 1962
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957

Surveyed 1952
Revised 1961
Edition N/A
Copyright 1962
Levelled 1957

Surveyed 1951
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957



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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_1250_5_4
Grid Ref: 278116, 186356

Map Name: National Grid

Map date: 1964-1969

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1951
Revised 1969
Edition N/A
Copyright N/A
Levelled 1964

Surveyed 1951
Revised 1964
Edition N/A
Copyright 1964
Levelled 1964

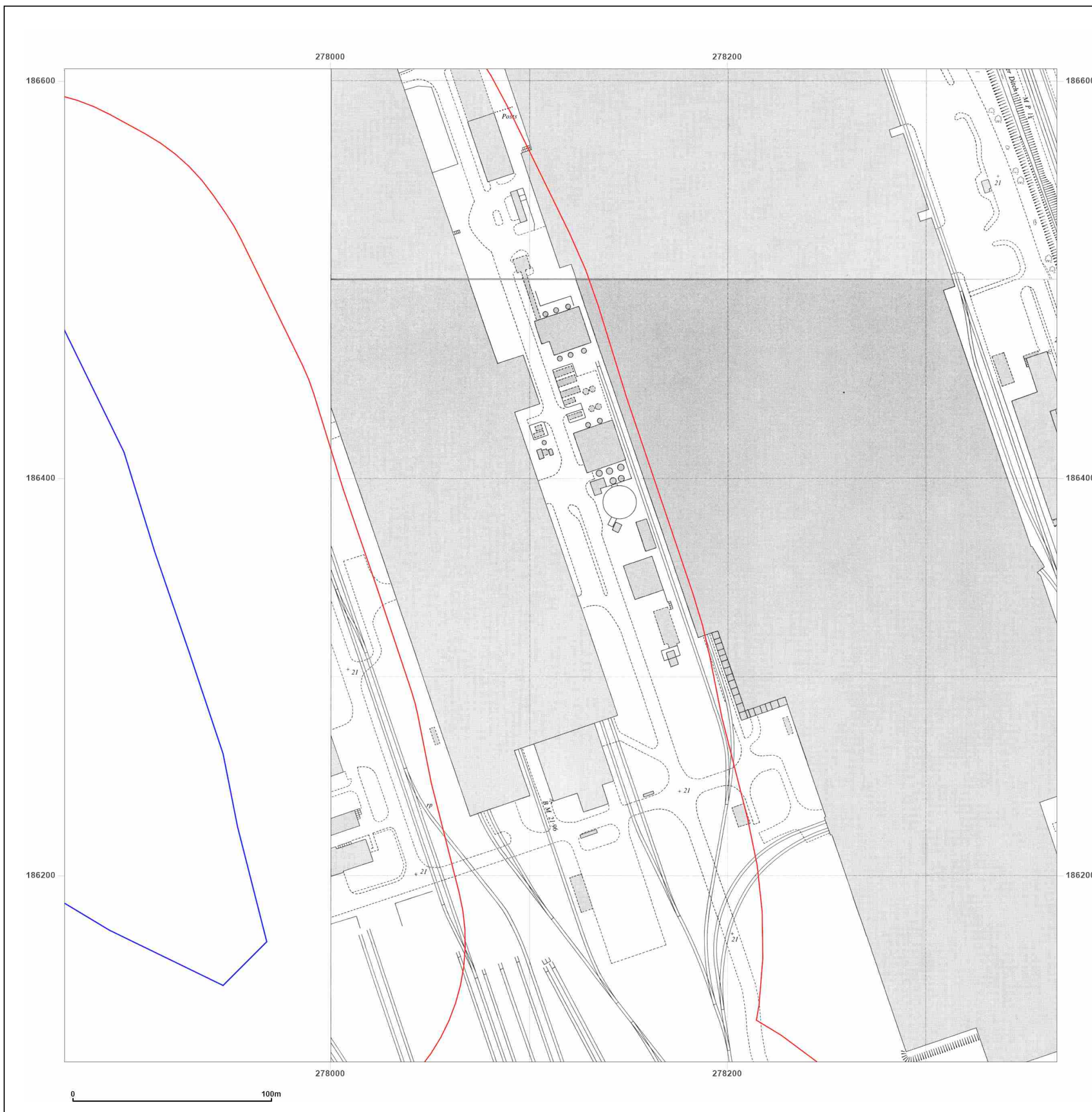


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Site Details:

Port Talbot - TCE

Client Ref:

EAF Meltshop Project

Report Ref:

GSIP-2024-14959-18673_1250_5_4

Grid Ref:

278116, 186356

Map Name:

National Grid

Map date:

1991

Scale:

1:1,250

Printed at:

1:2,000

N

W

E

S

Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A
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 1991 Levelled N/A

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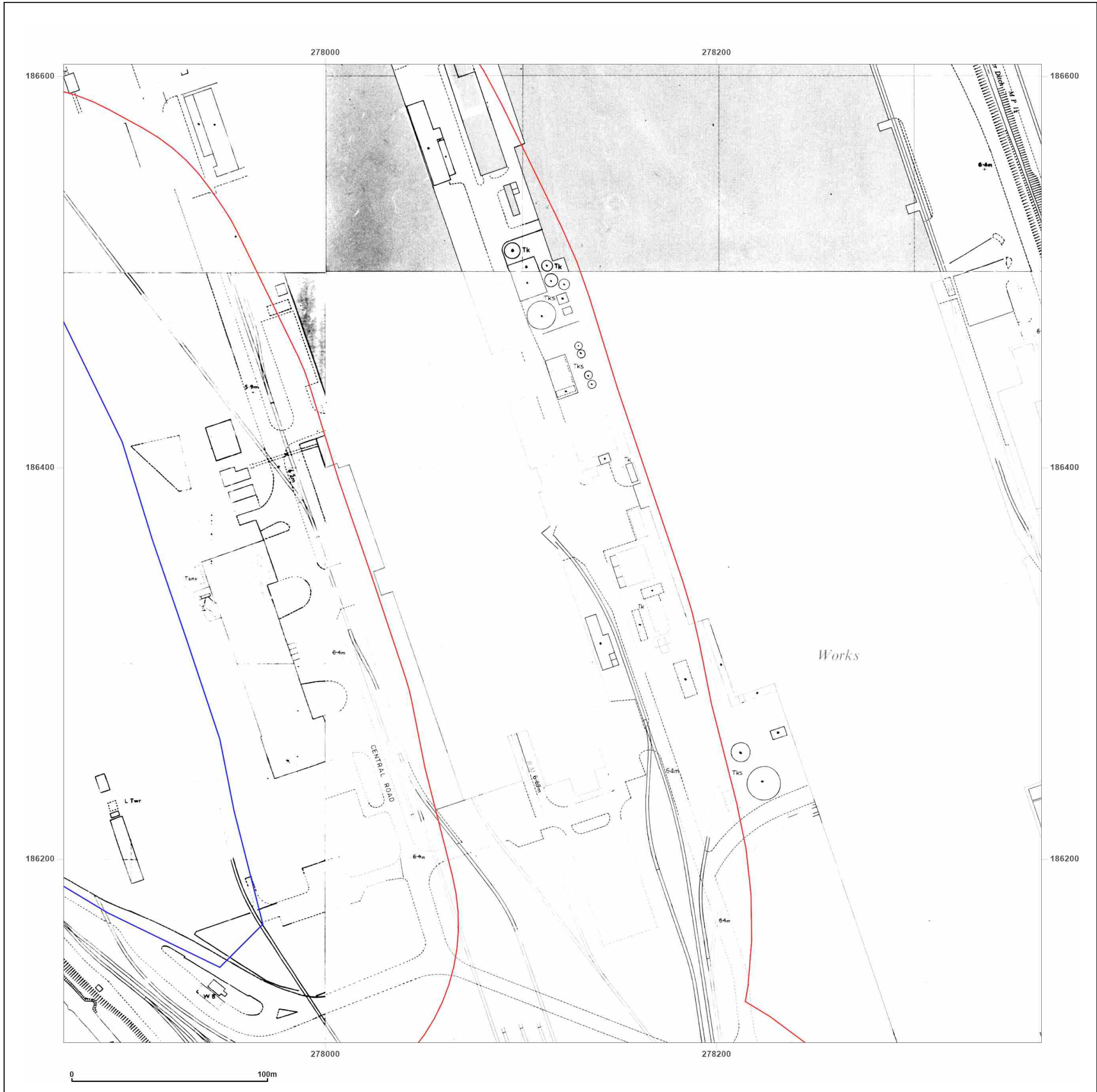
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Site Details:

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Client Ref:

EAF Meltshop Project

Report Ref:

GSIP-2024-14959-18673_1250_5_4

Grid Ref:

278116, 186356

Map Name:

National Grid

Map date:

1993

Scale:

1:1,250

Printed at:

1:2,000

N
W
E
S

Surveyed 1993 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
Surveyed 1993 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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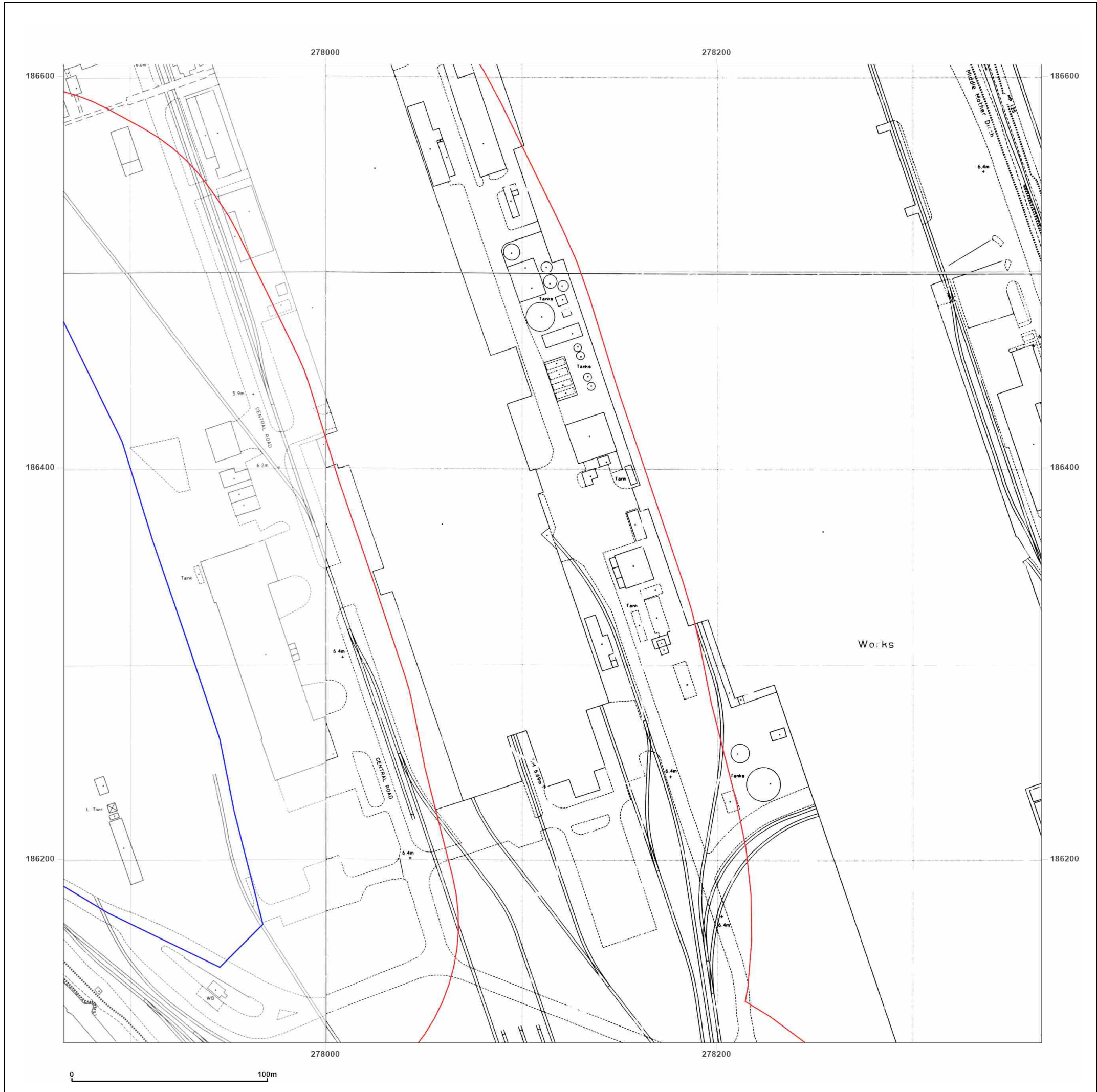
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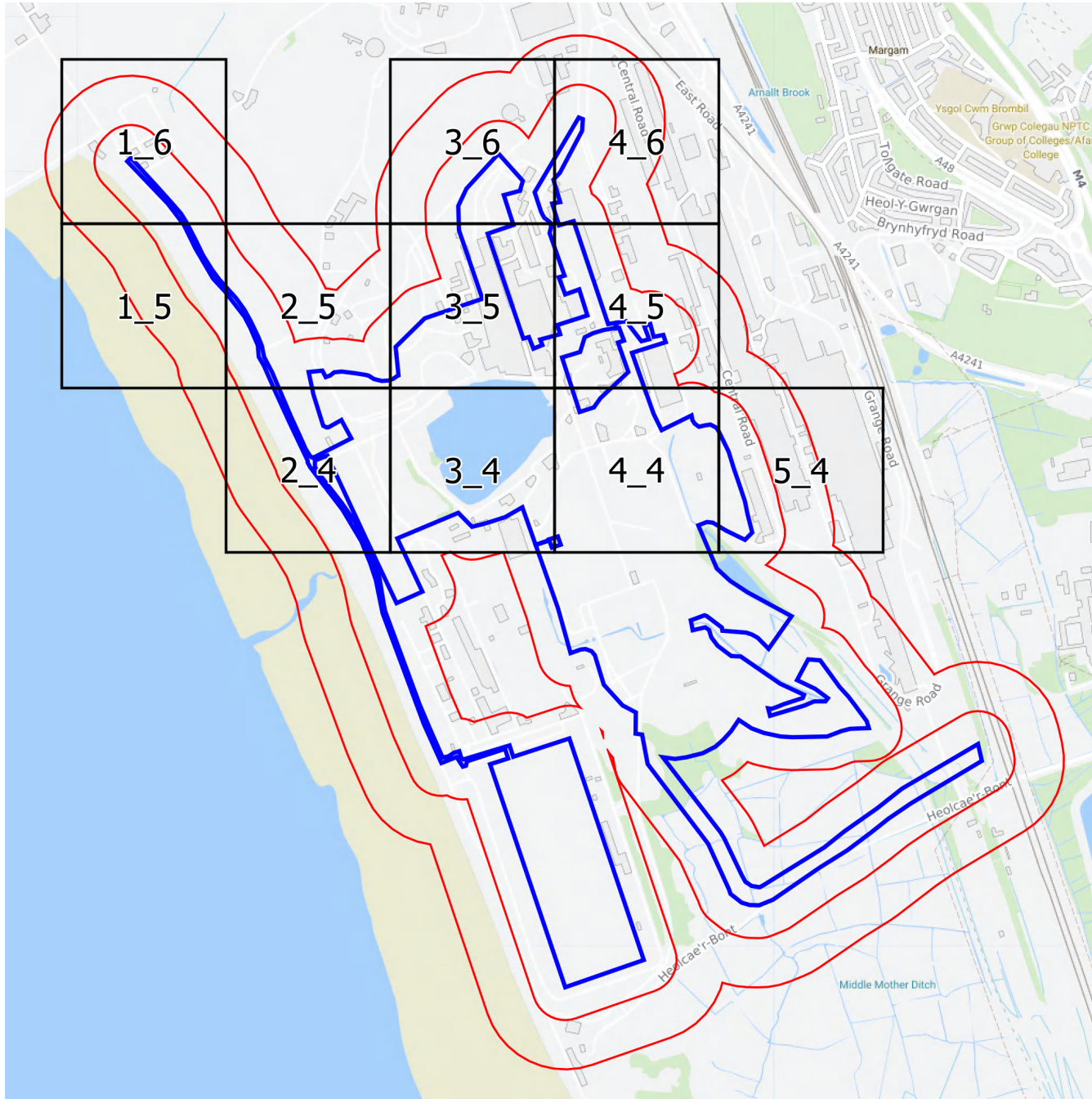
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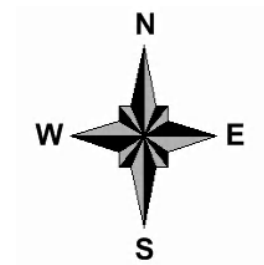
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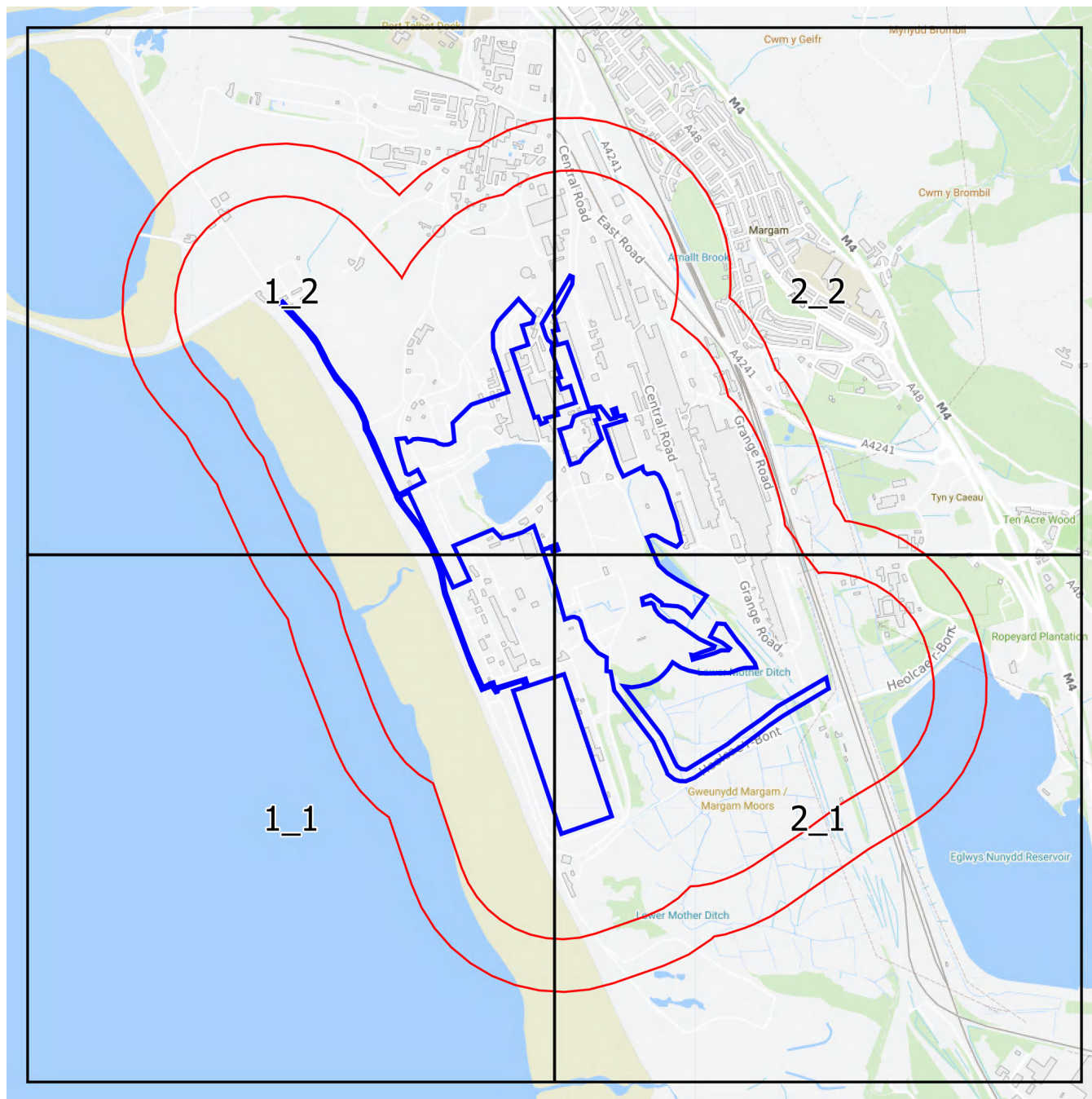
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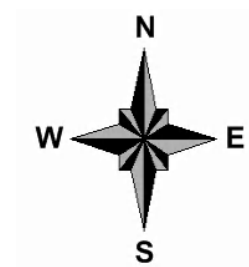
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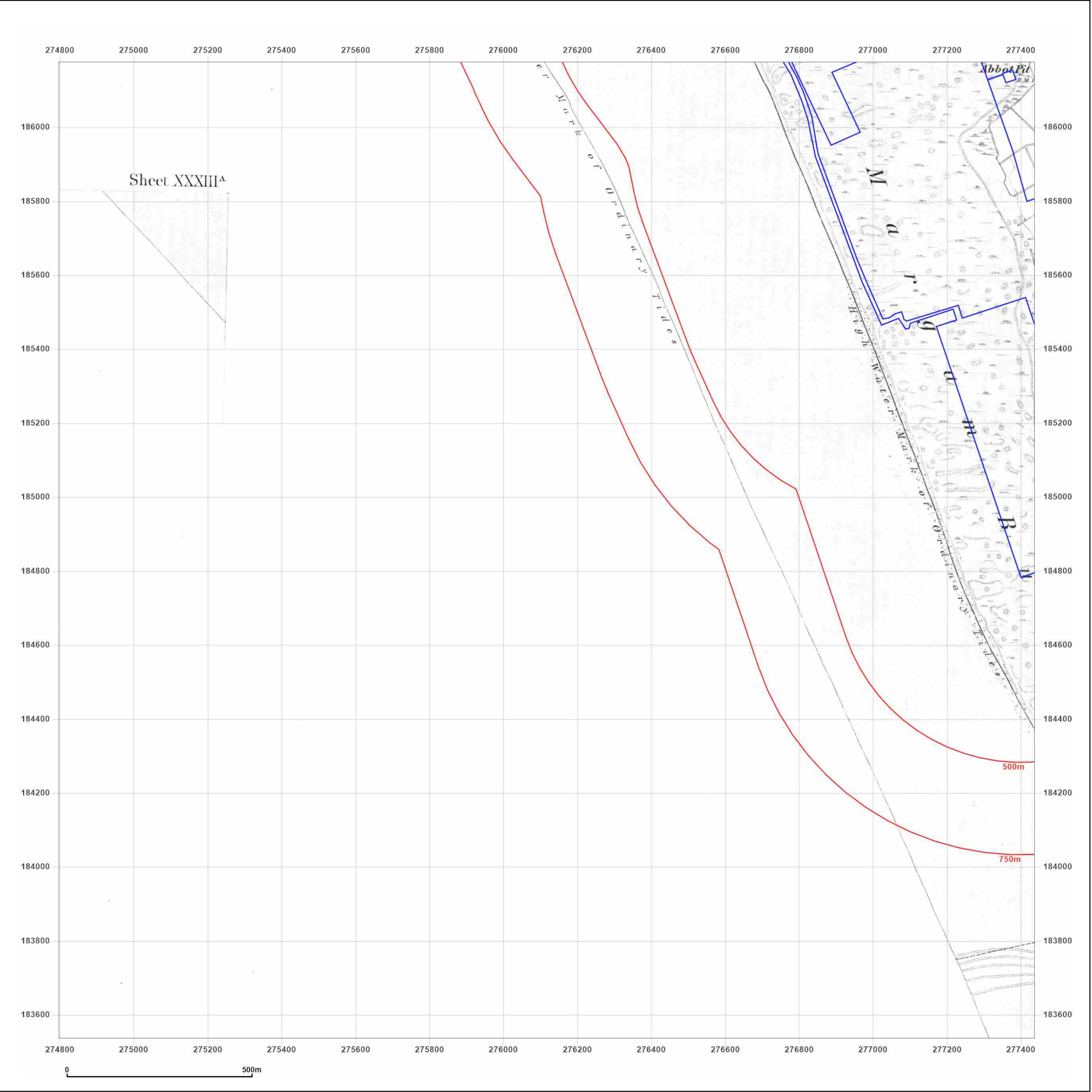




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Small Scale Grid Index





Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: County Series

Map date: 1876

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1876
Edition N/A
Copyright 1885
Levelled N/A

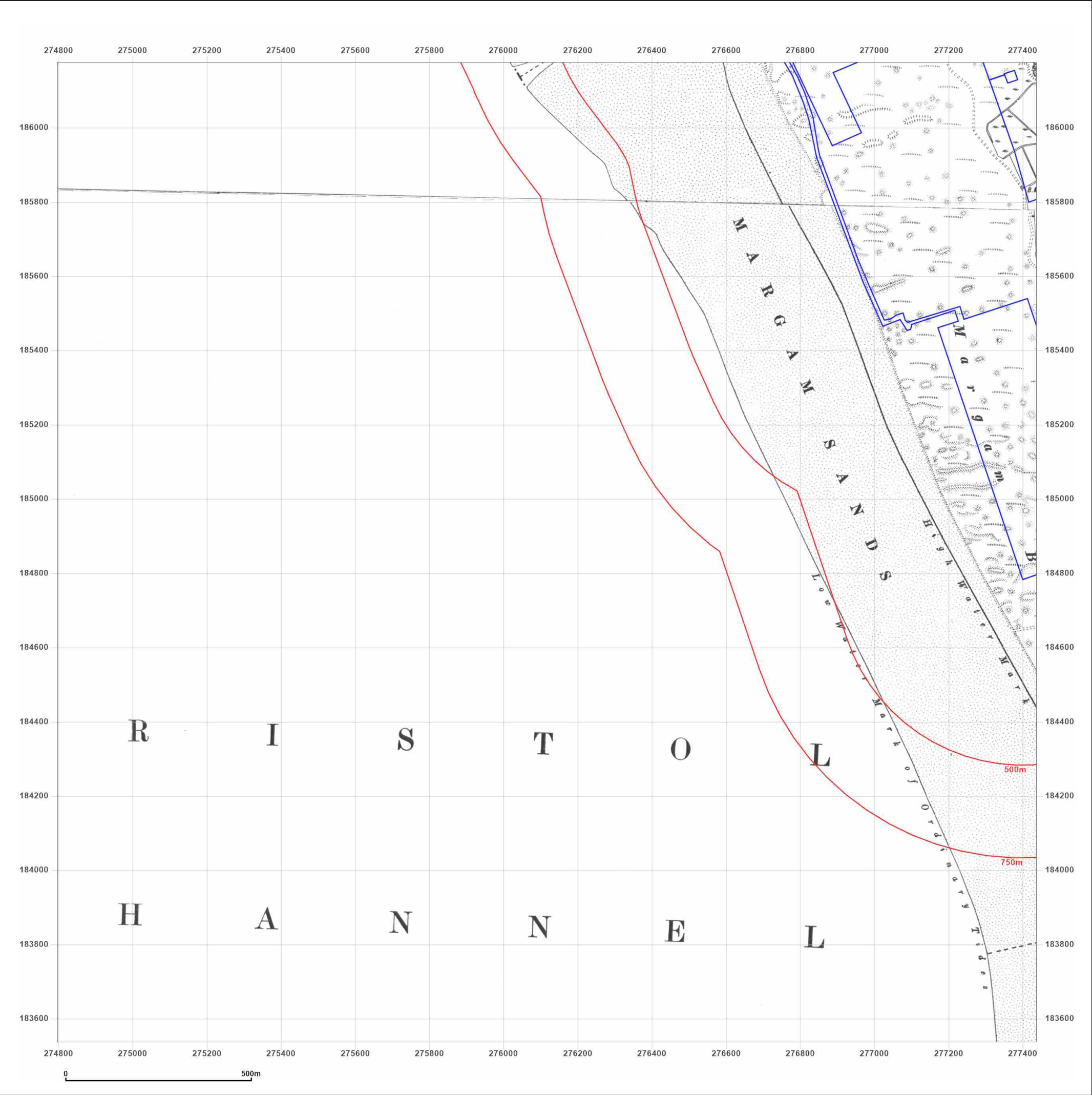


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Production date: 09 May 2024

Map legend available at:
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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: County Series

Map date: 1897-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



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

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

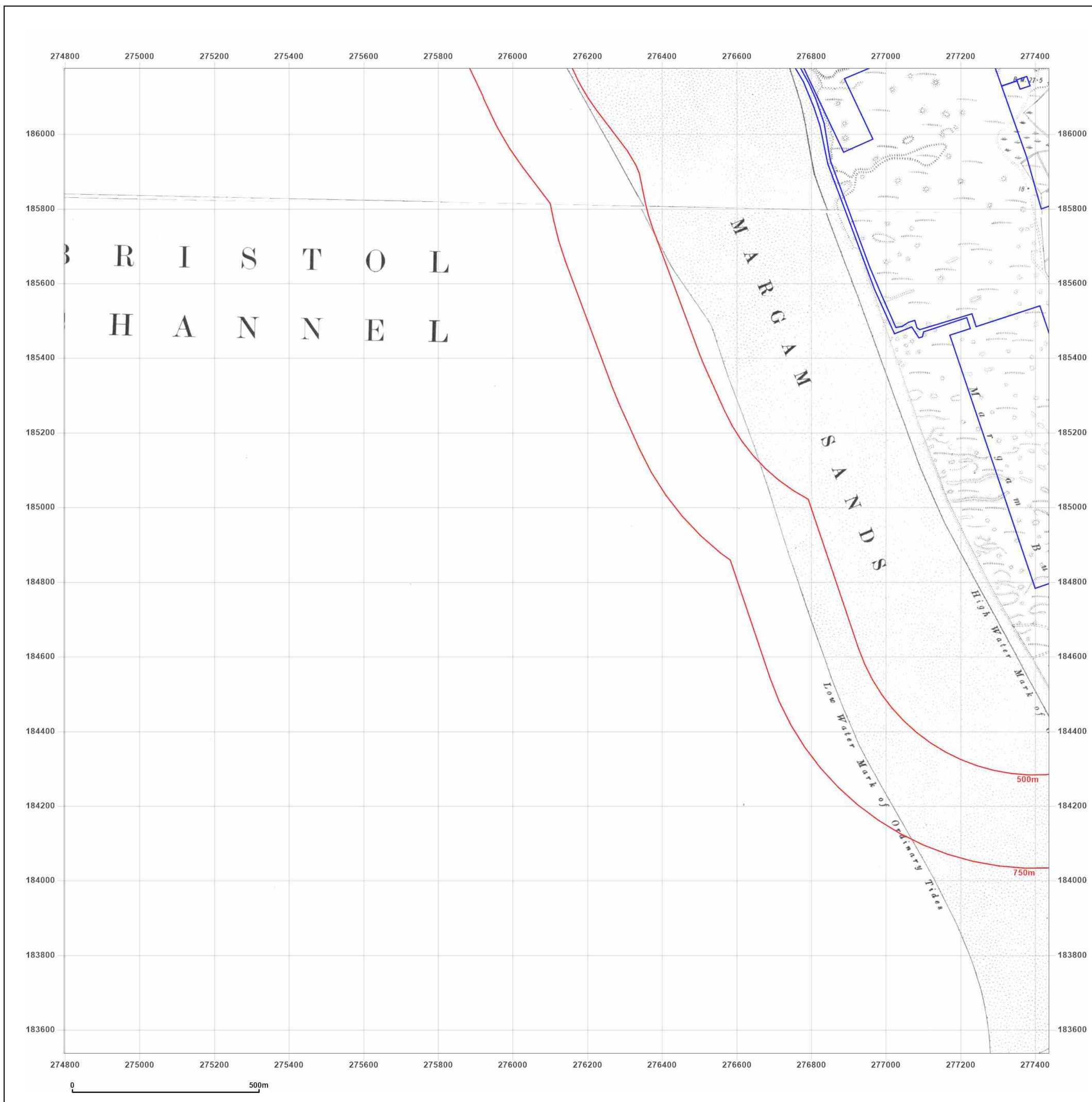


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



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

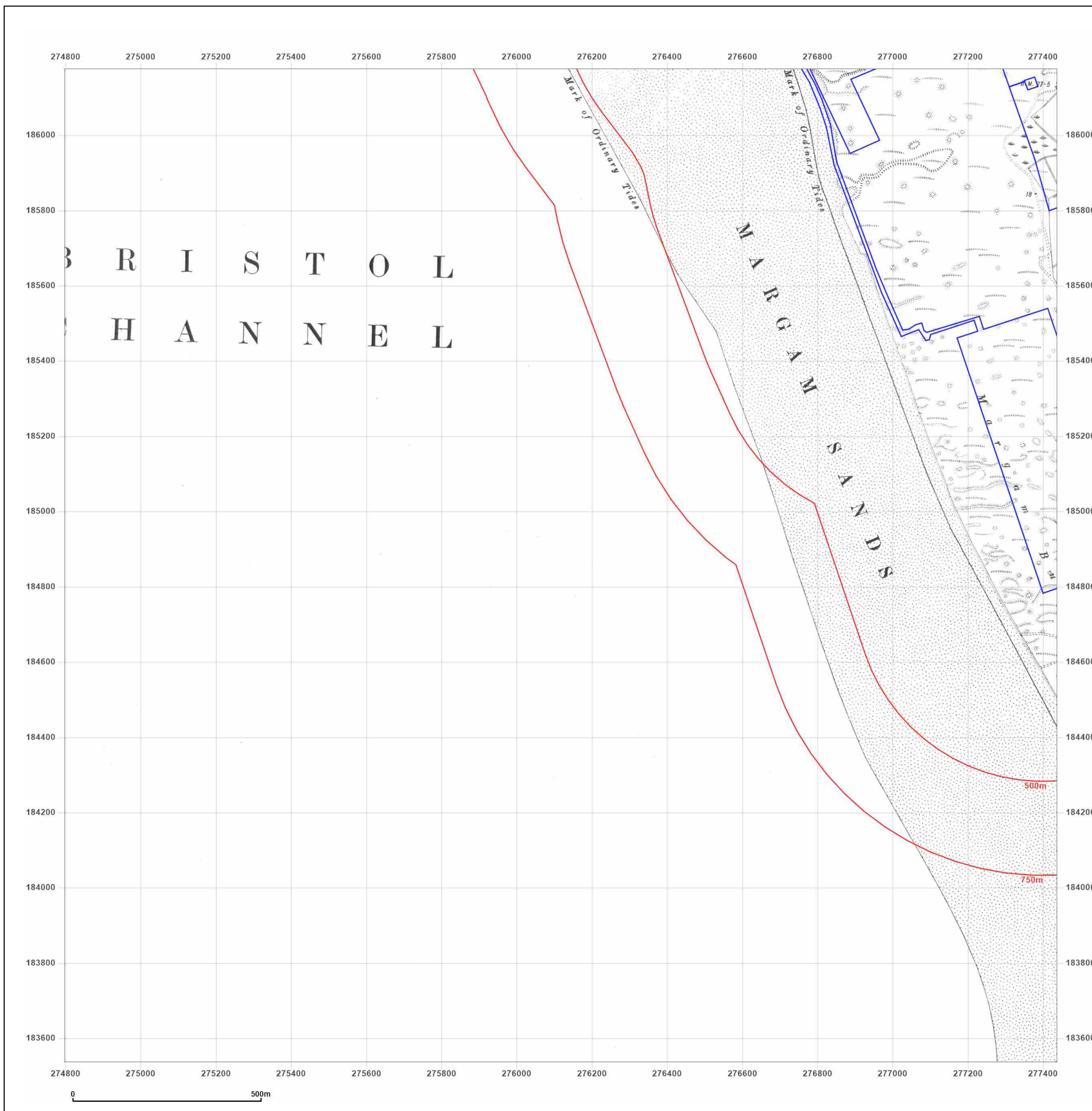


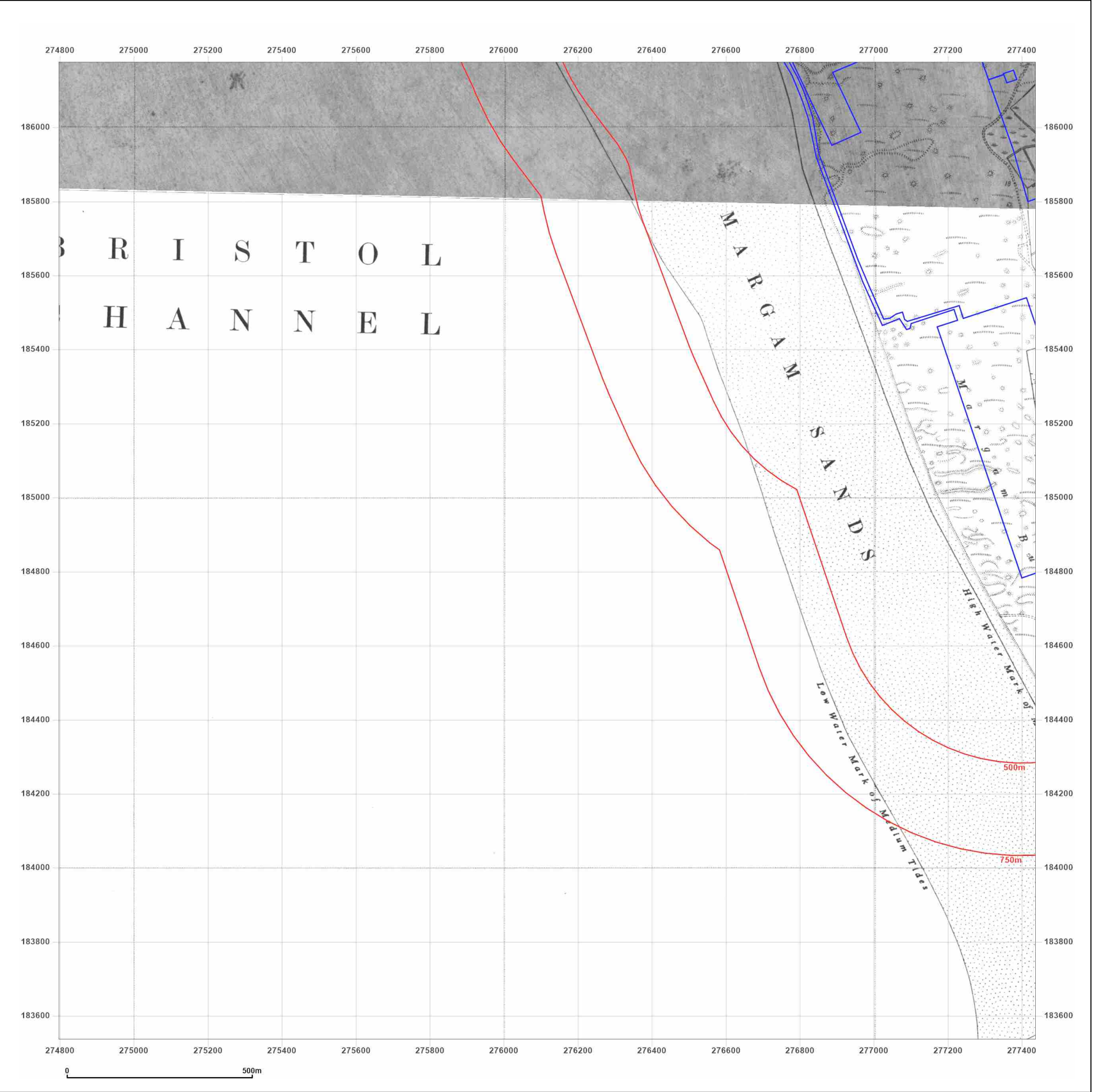
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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



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

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

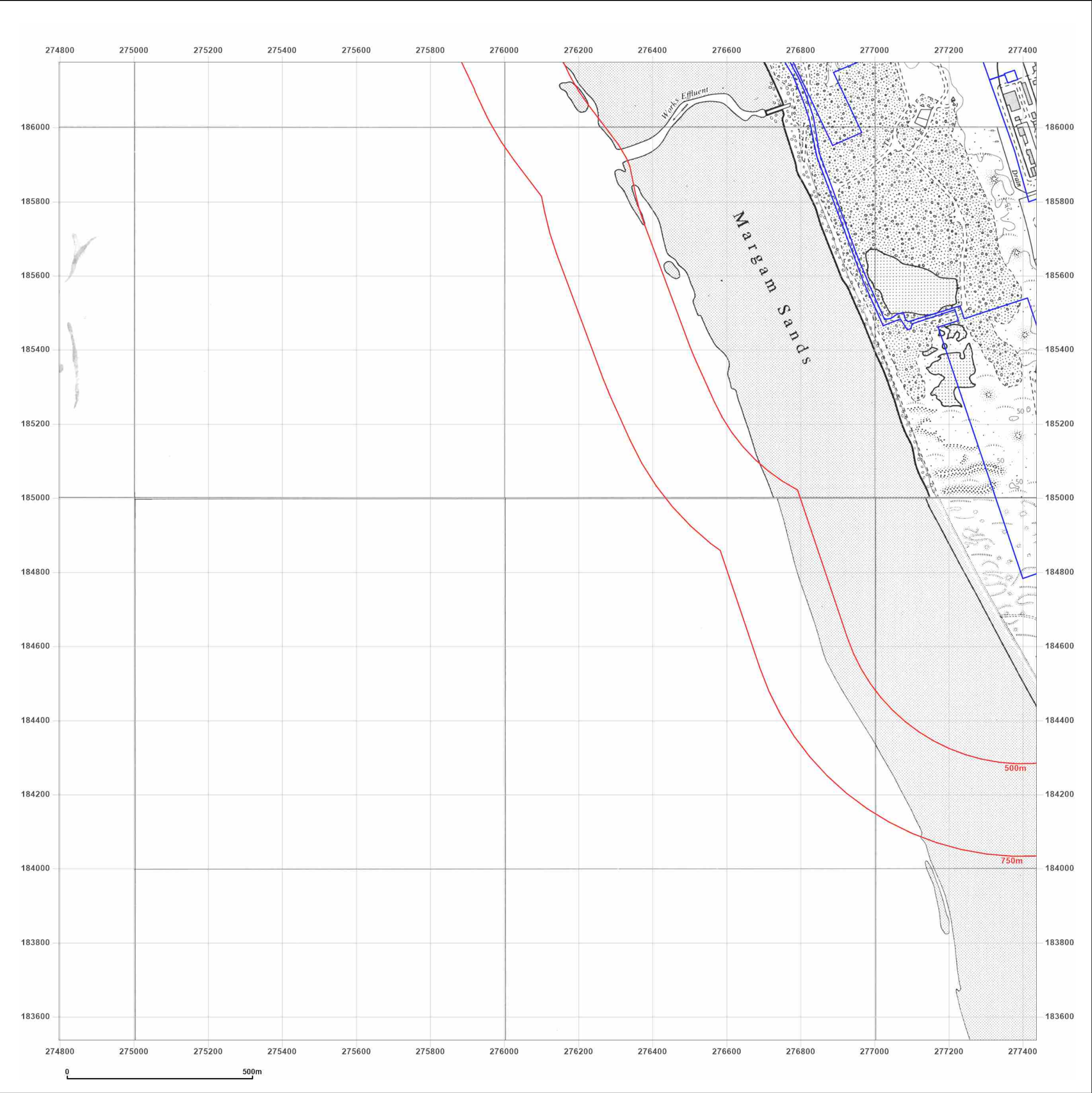


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: Provisional

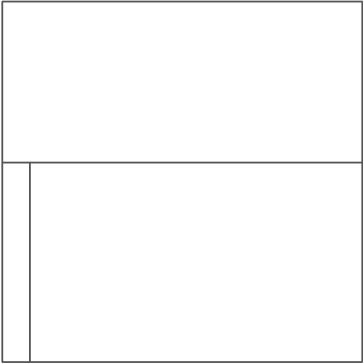
Map date: 1962-1965

Scale: 1:10,560

Printed at: 1:10,560



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



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

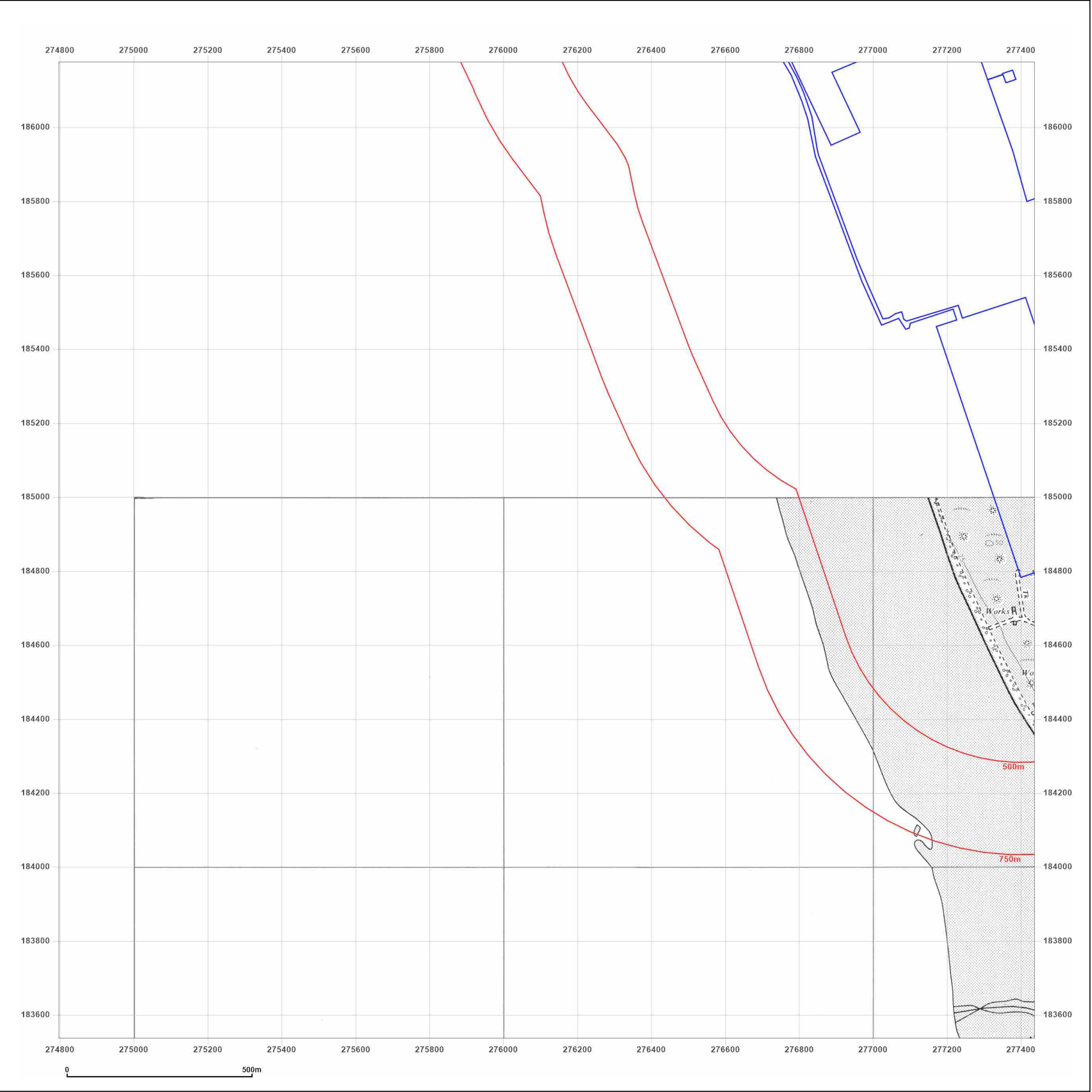


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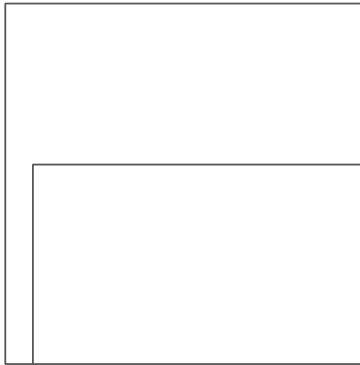
Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: Provisional

Map date: 1969

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1969
Revised 1969
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: National Grid

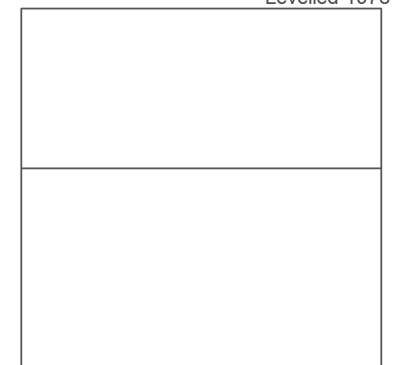
Map date: 1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1982
Edition N/A
Copyright 1982
Levelled 1978

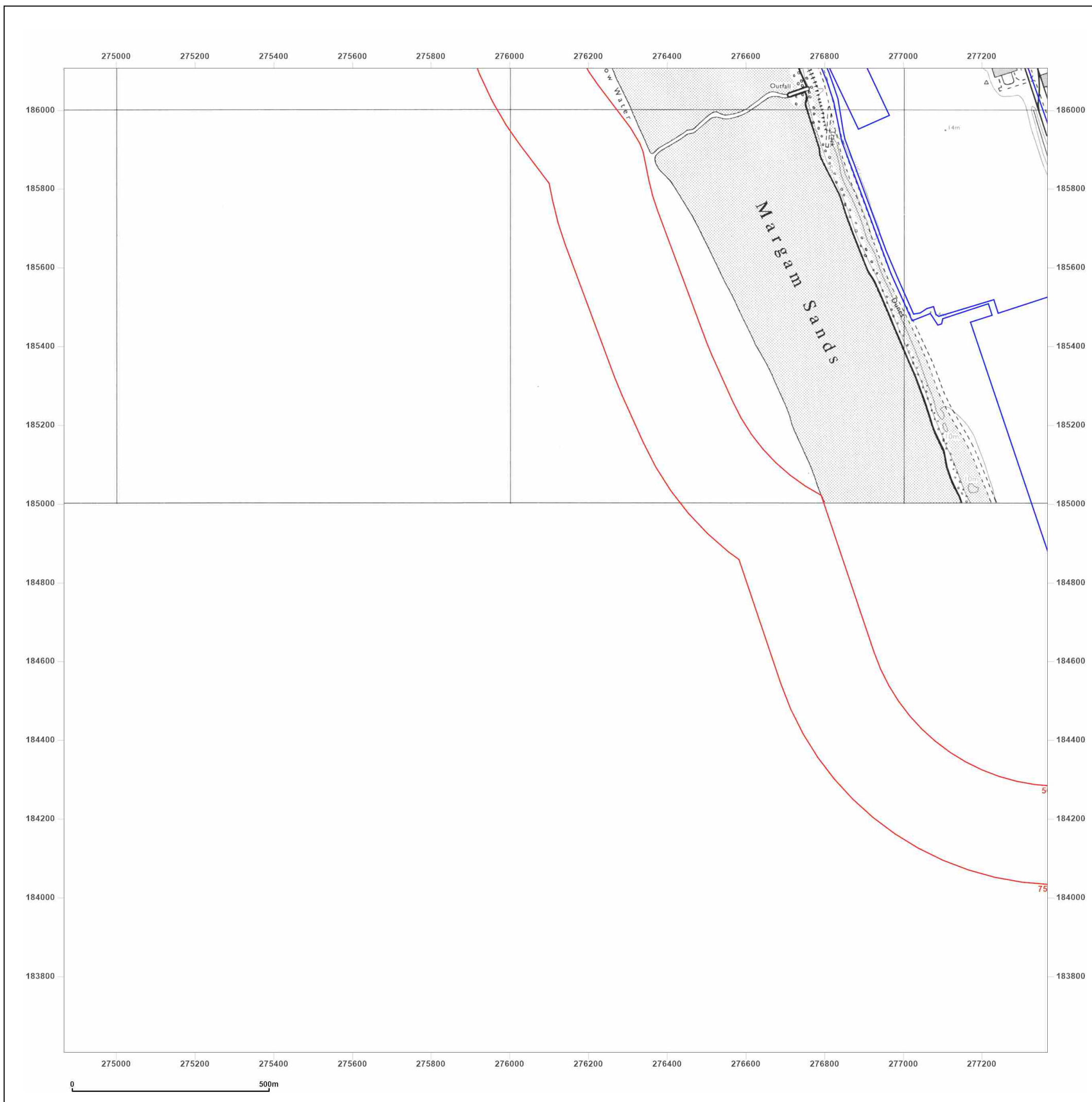


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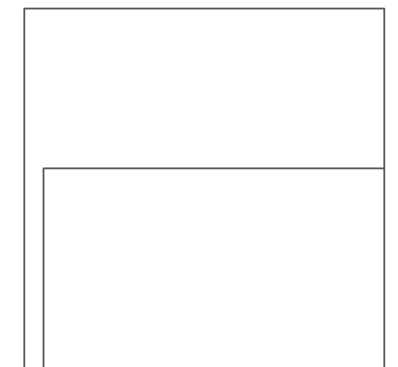
Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: National Grid

Map date: 1989

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1965
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

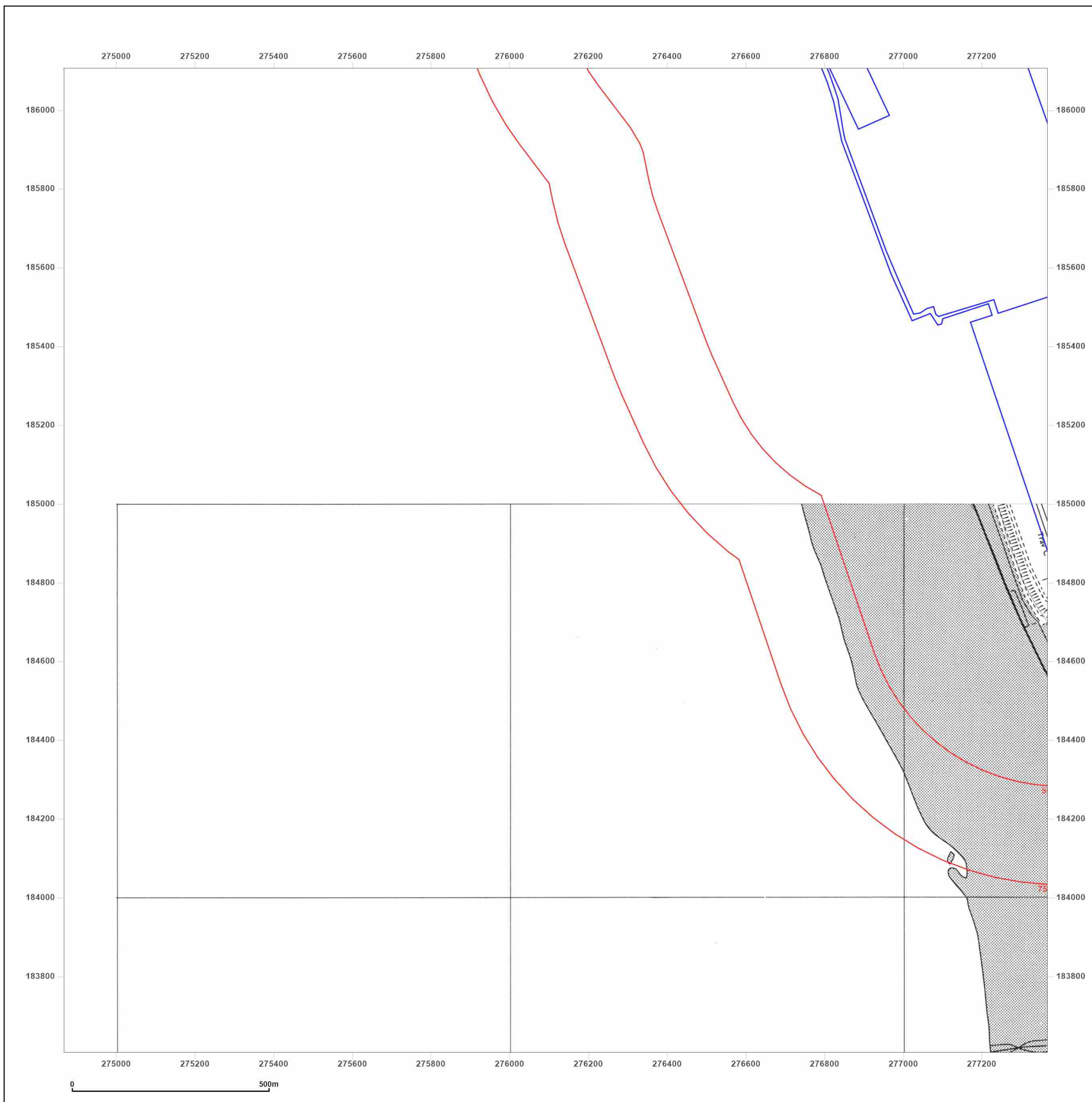


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: National Grid

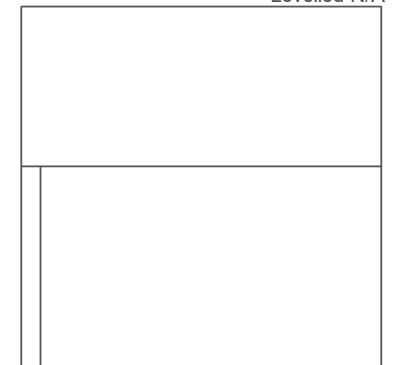
Map date: 1988-1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1991
Revised 1991
Edition N/A
Copyright 1993
Levelled N/A



Surveyed 1968
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

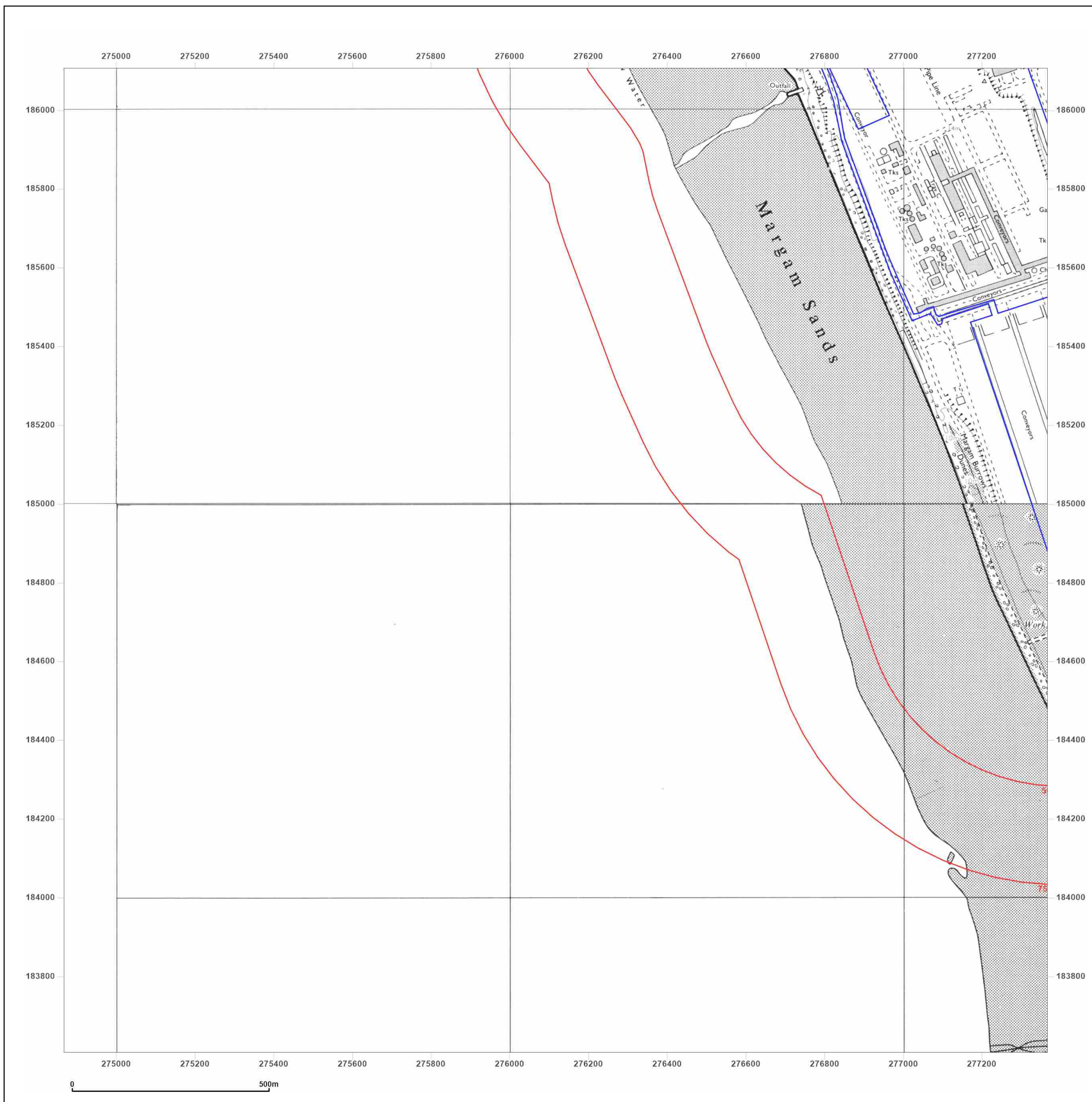


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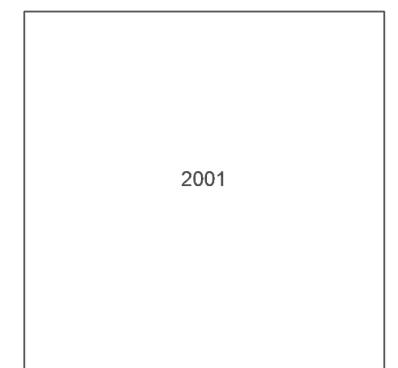
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Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

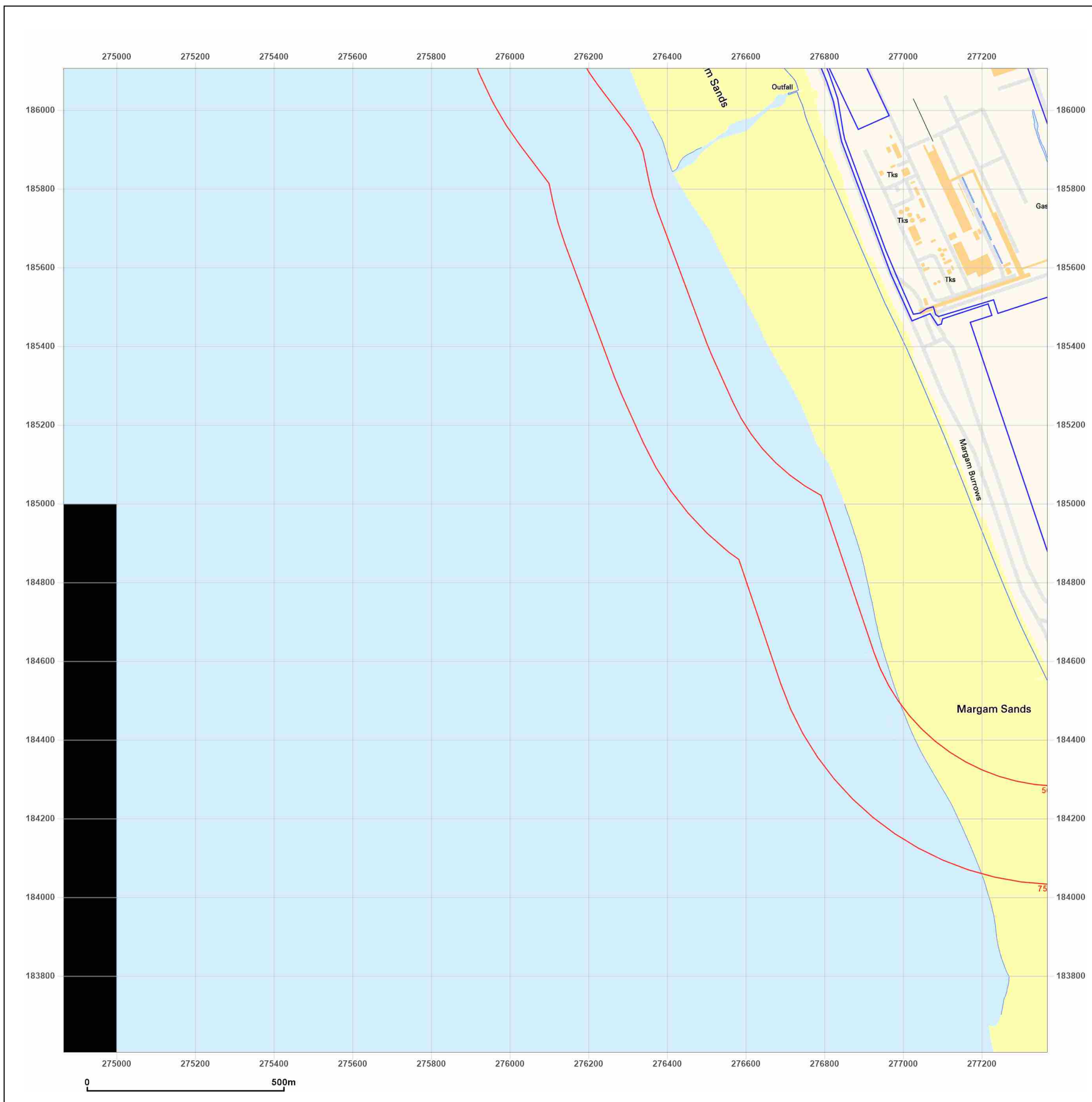


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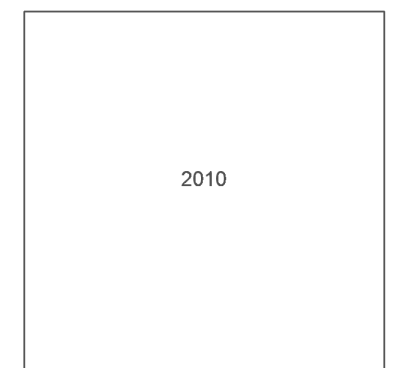
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Report Ref: GSIP-2024-14959-18673_SS_1_1
Grid Ref: 276116, 184856

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

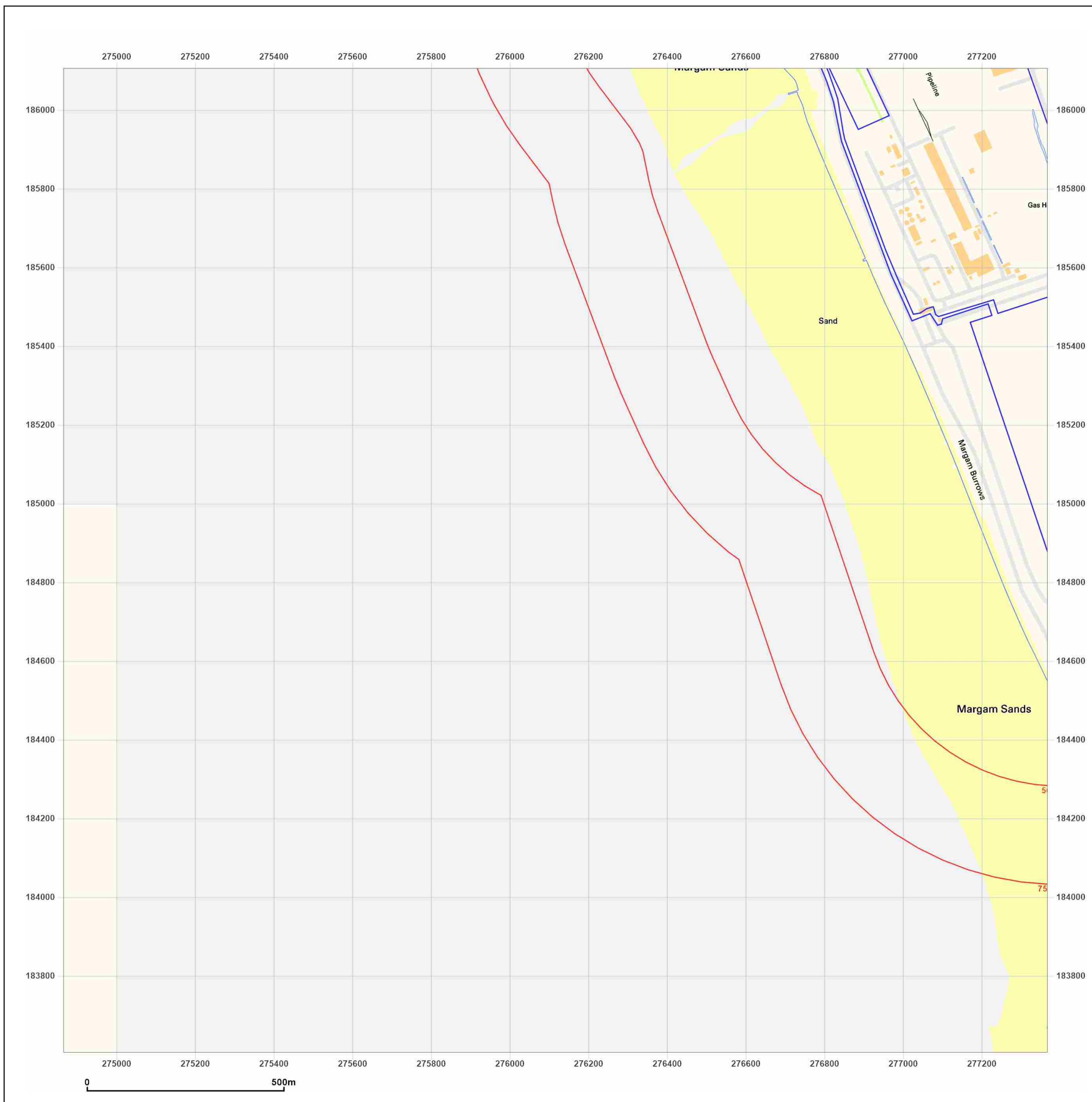


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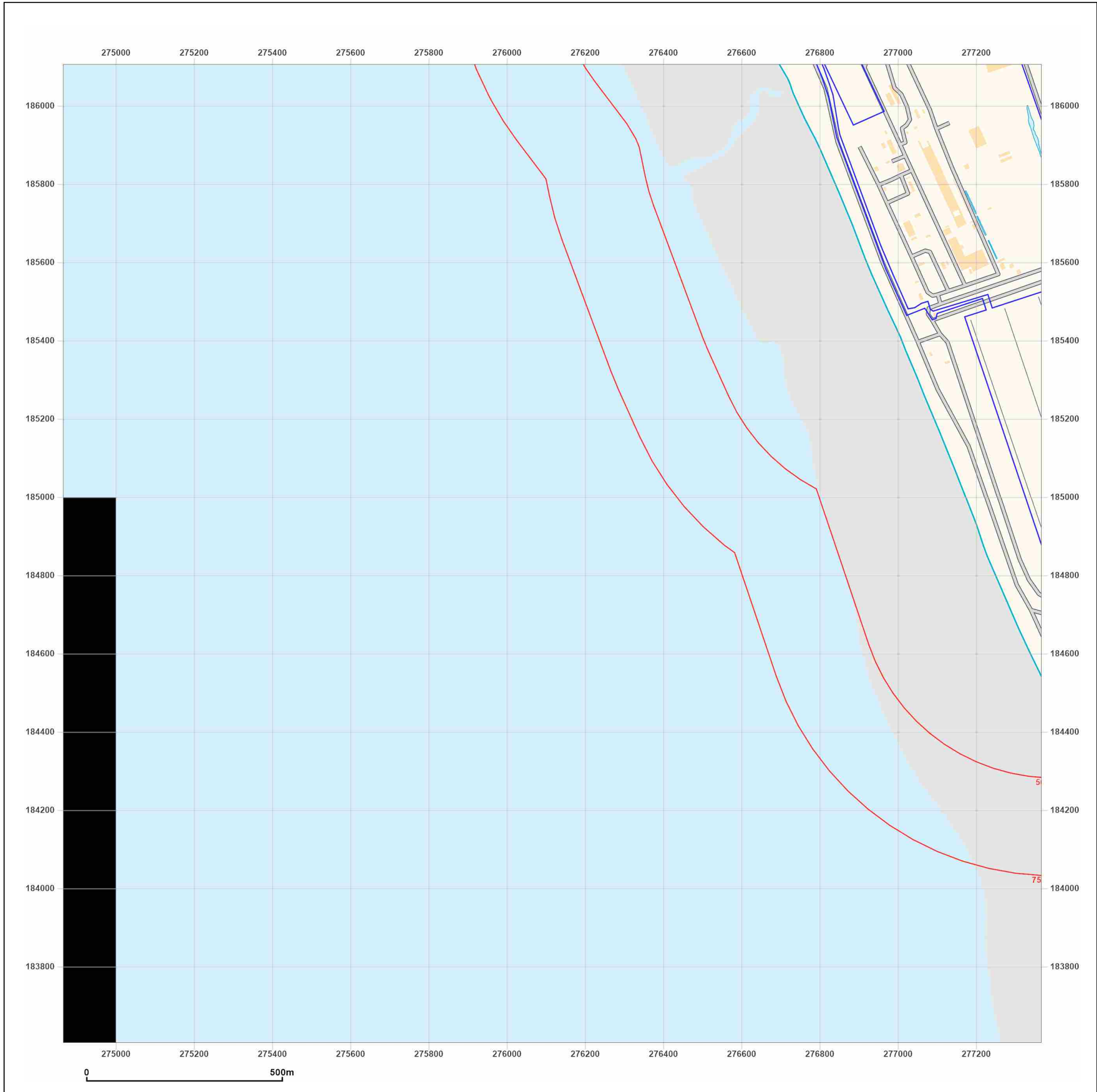
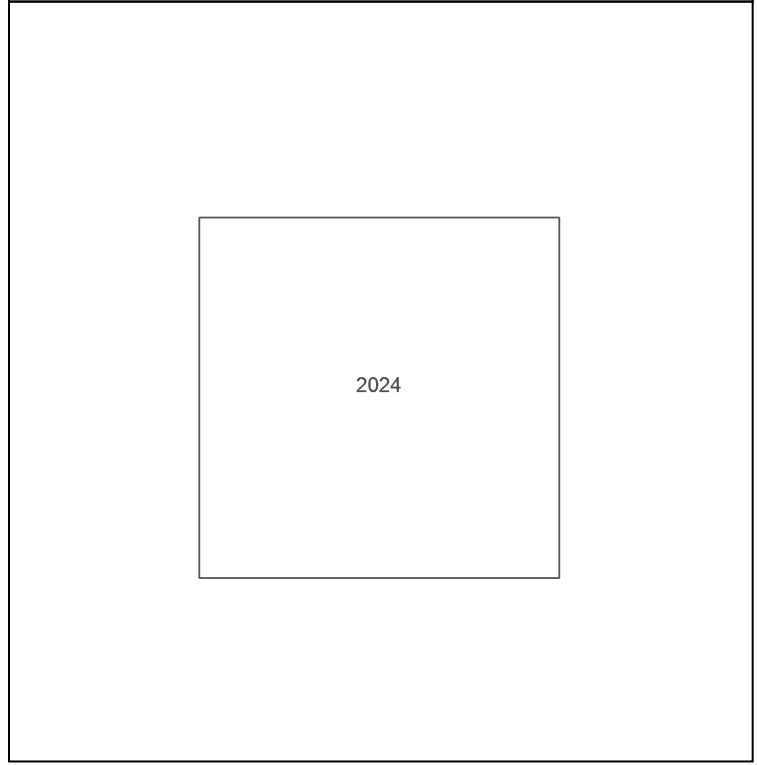
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Report Ref:
Grid Ref:

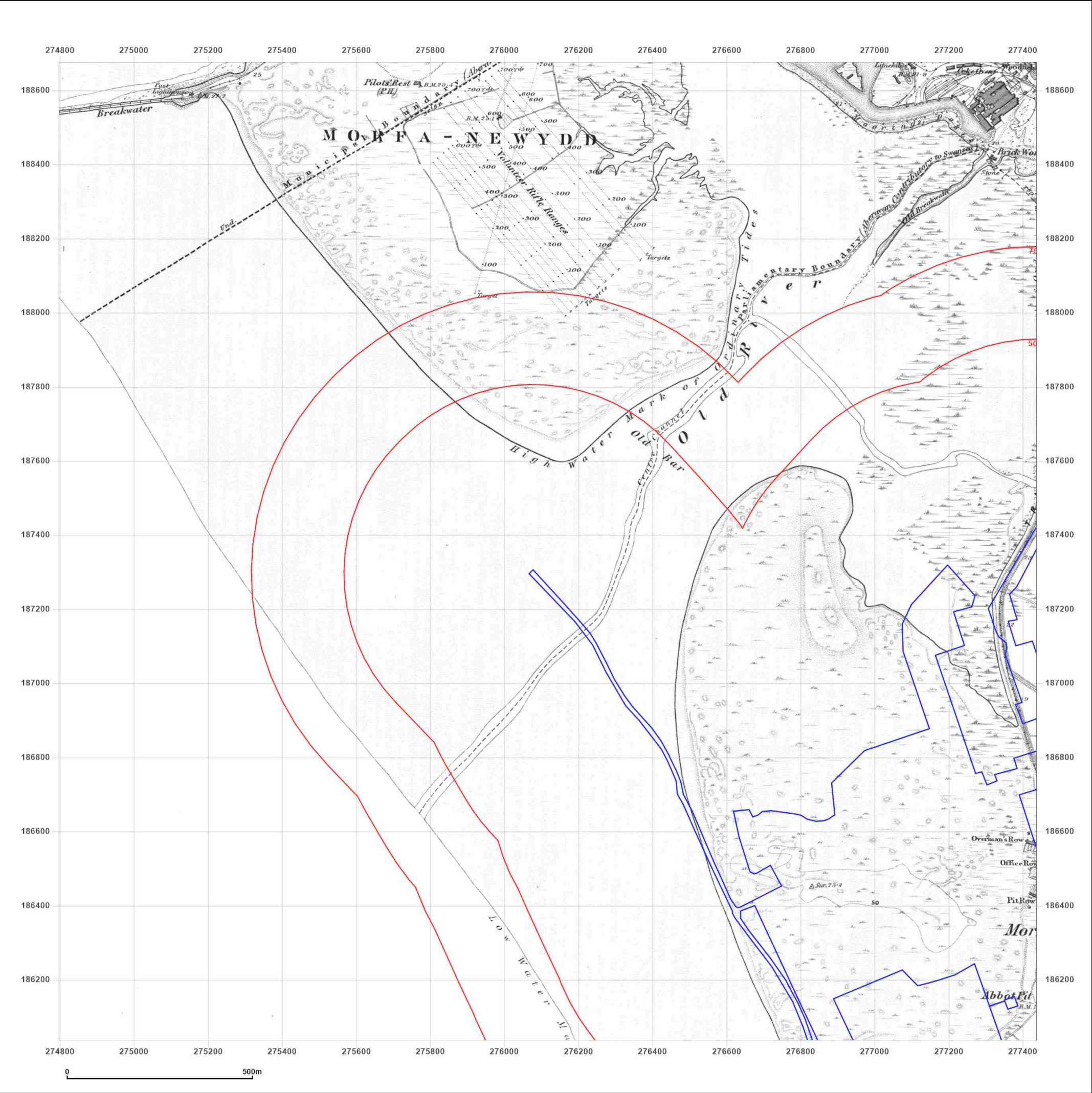
EAF Meltshop Project
GSIP-2024-14959-18673_SS_1_1
276116, 184856

Map Name:
Map date:
Scale:
Printed at:

National Grid
2024
1:10,000
1:10,000







Site Details:

Port Talbot - TCE

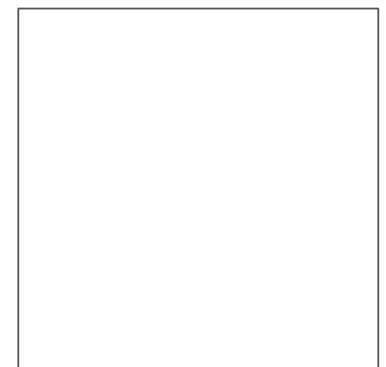
Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: County Series

Map date: 1876

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1876
Edition N/A
Copyright 1885
Levelled N/A



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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: County Series

Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

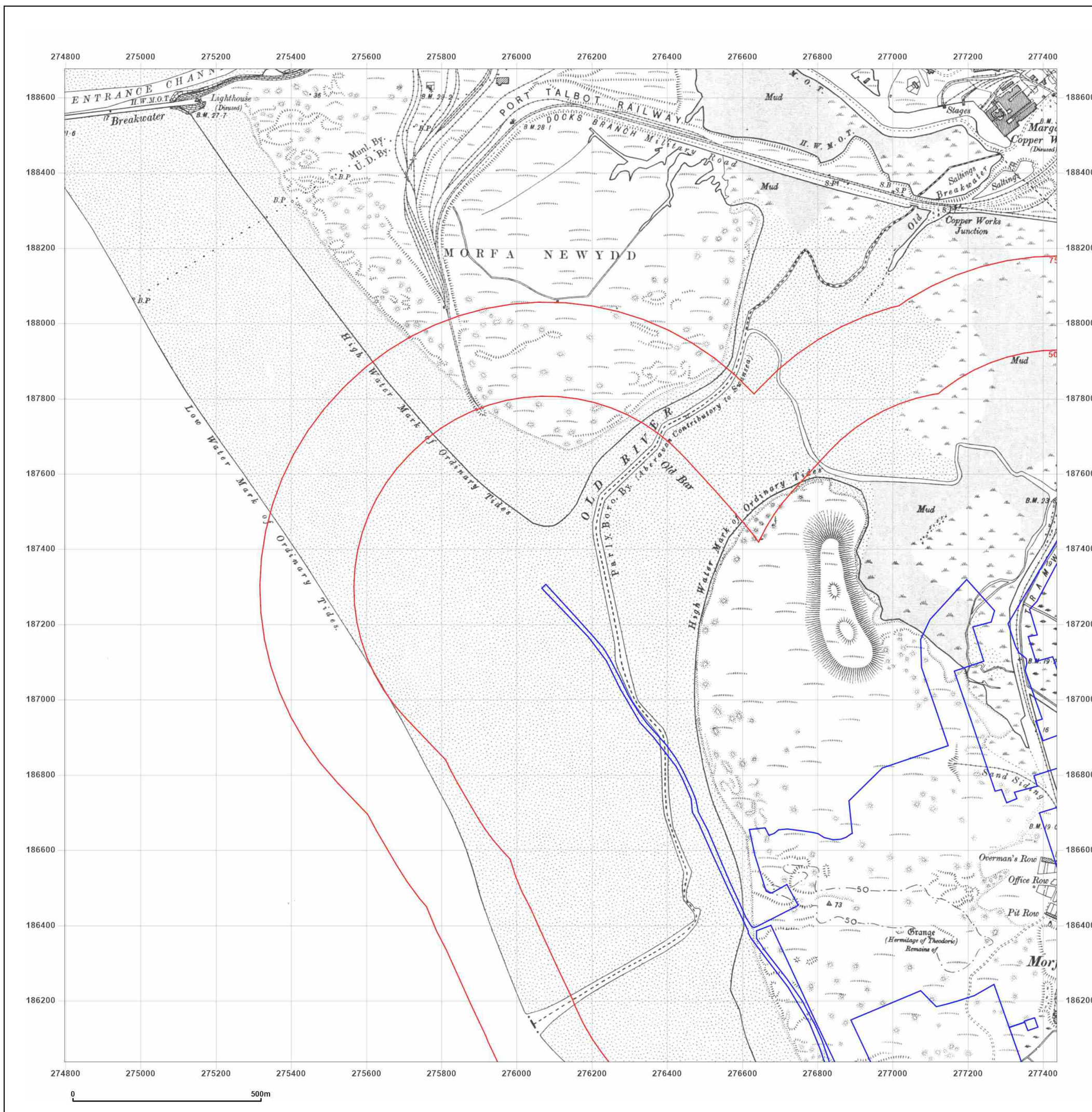


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



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

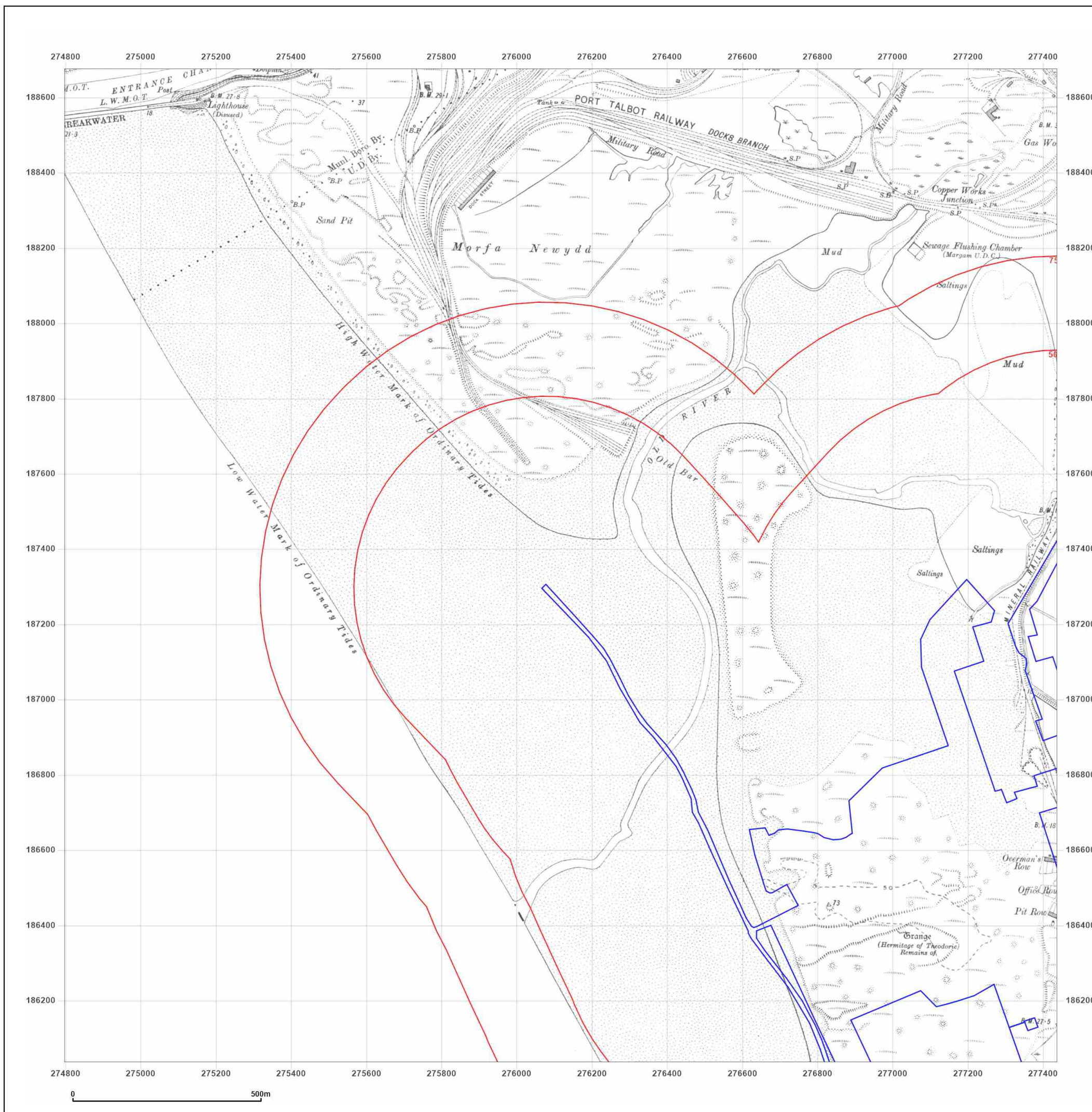


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



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

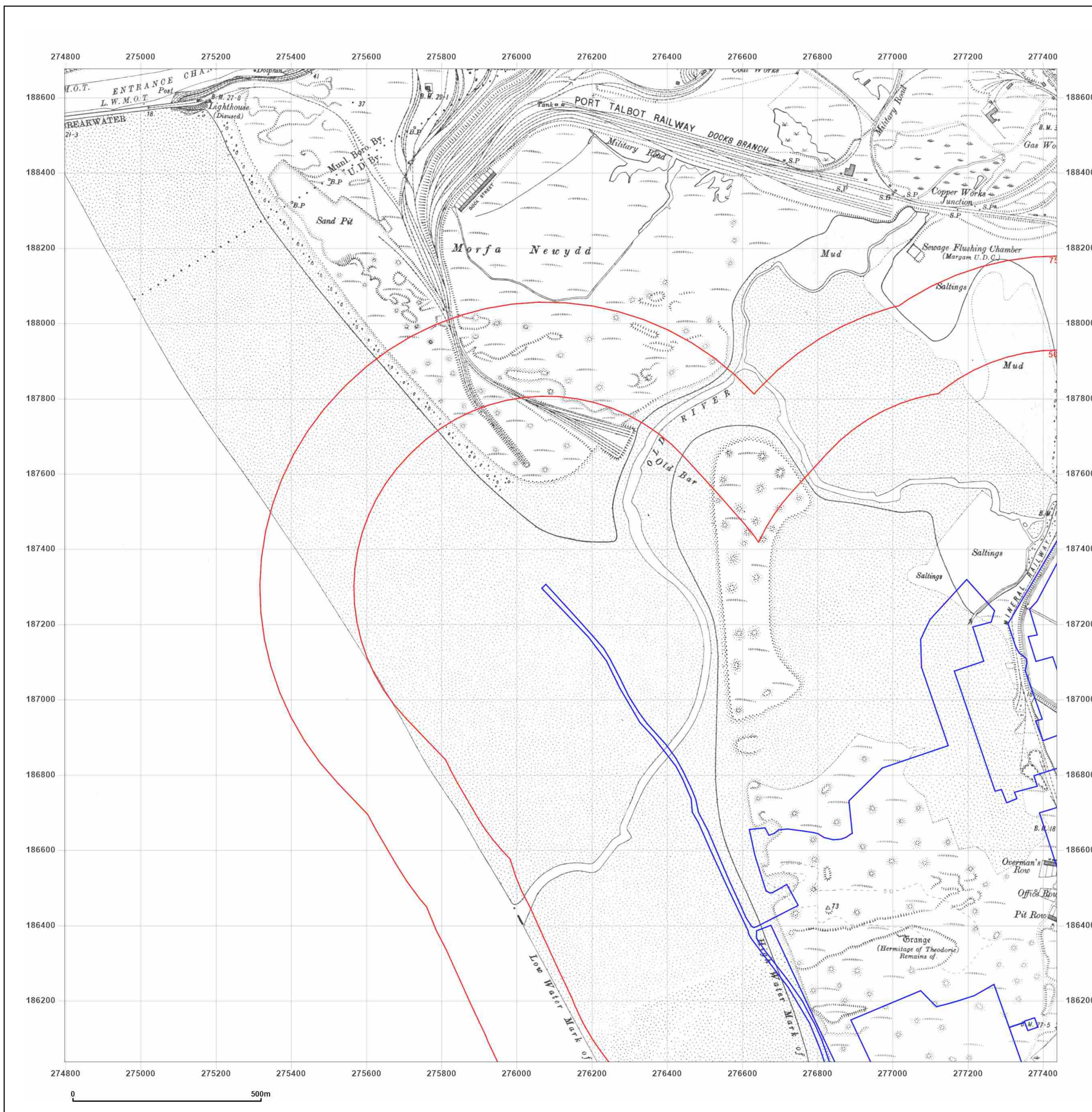


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1938
Edition N/A
Copyright N/A
Levelled 1934

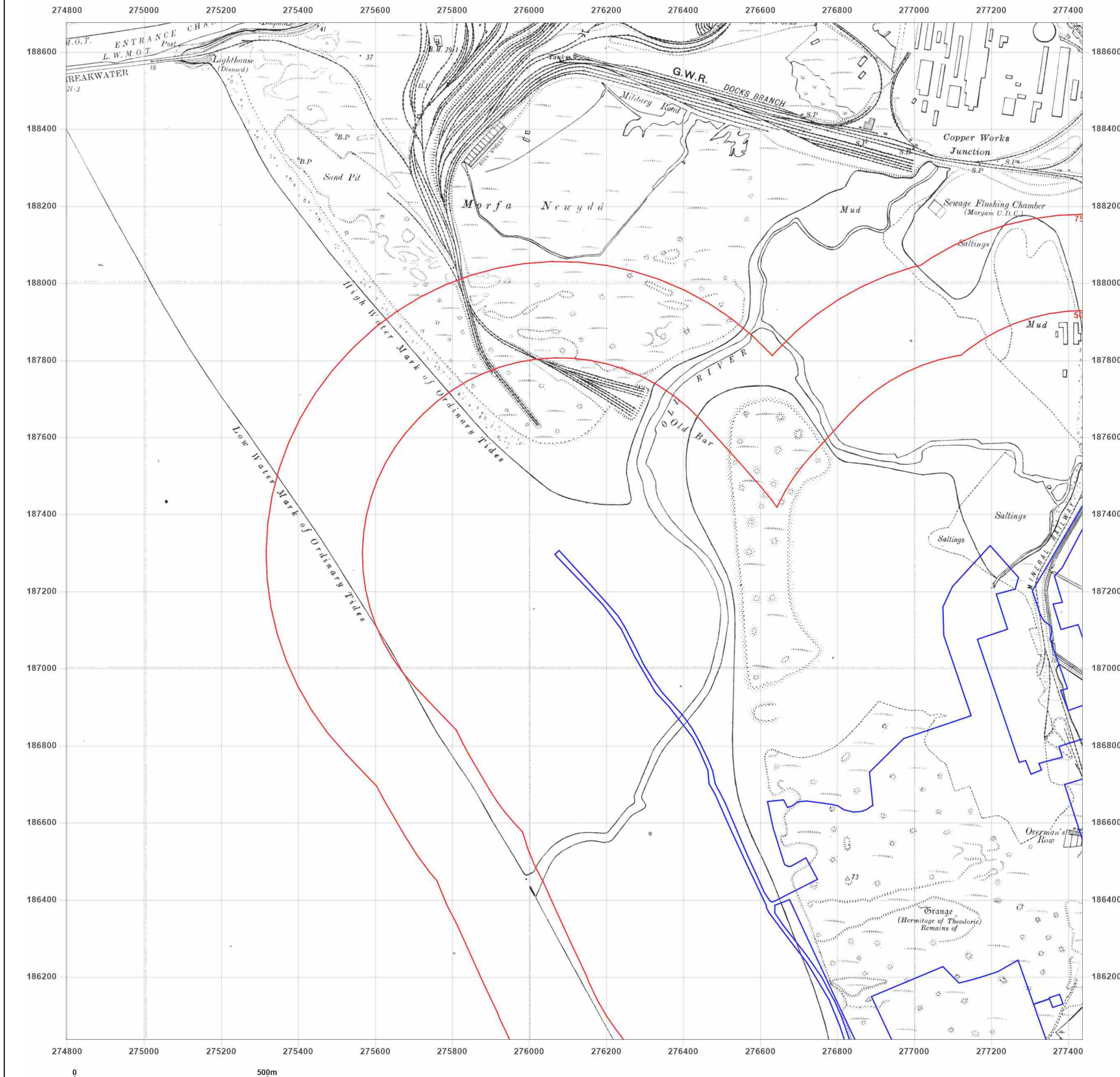


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



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

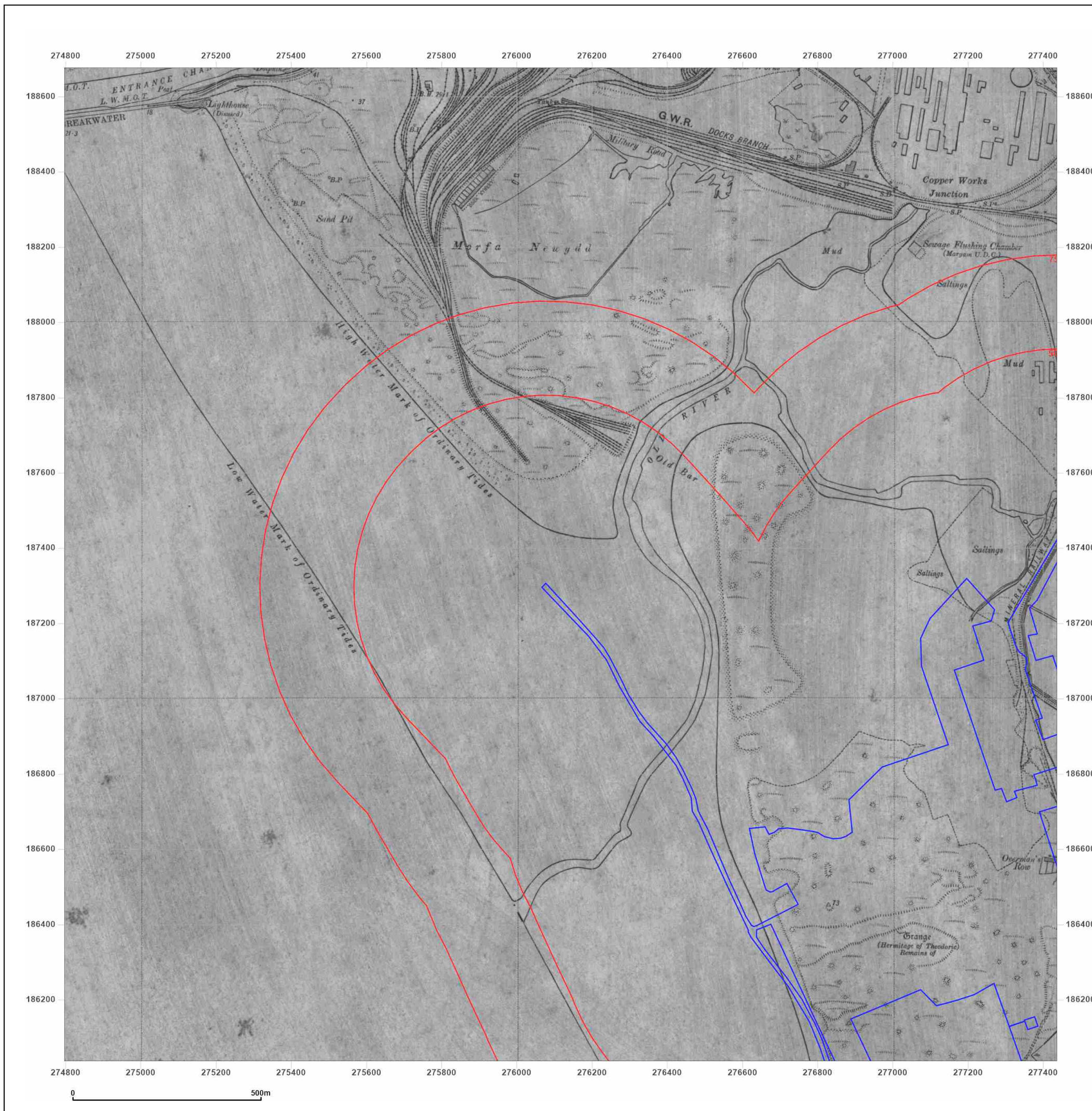


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: County Series

Map date: 1949

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1949
Edition N/A
Copyright N/A
Levelled N/A

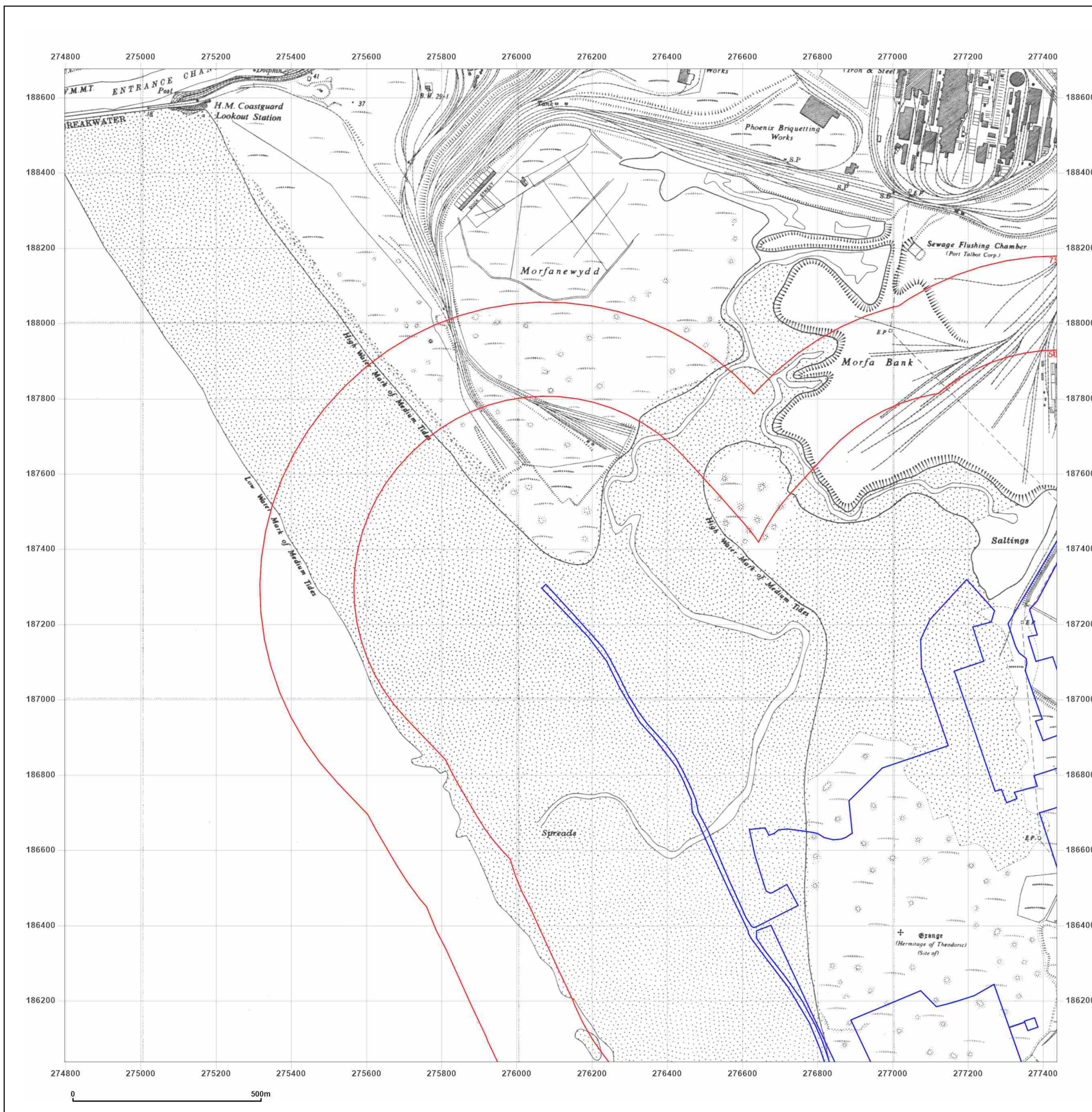


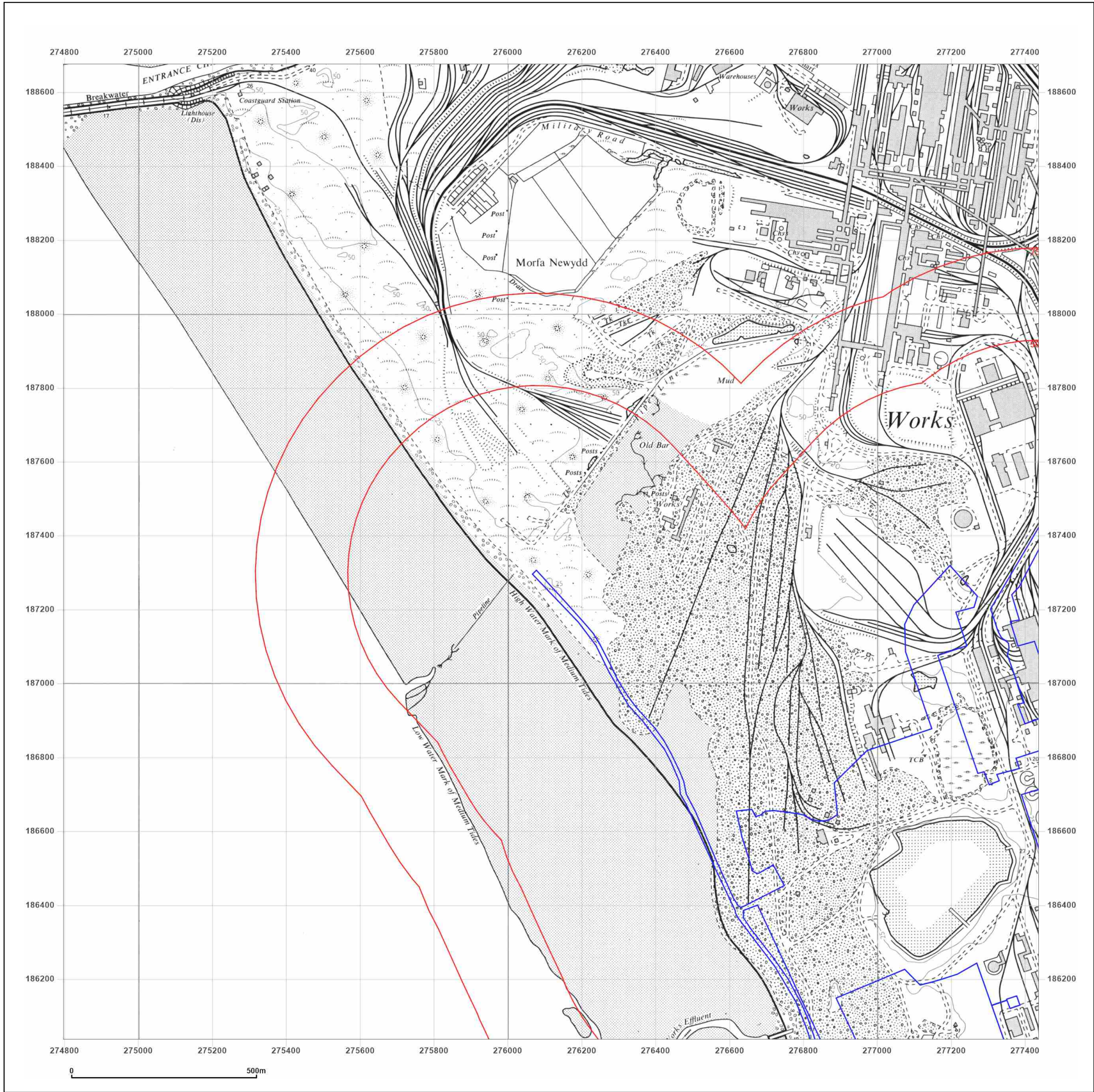
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Site Details:
Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: Provisional
Map date: 1965
Scale: 1:10,560
Printed at: 1:10,560

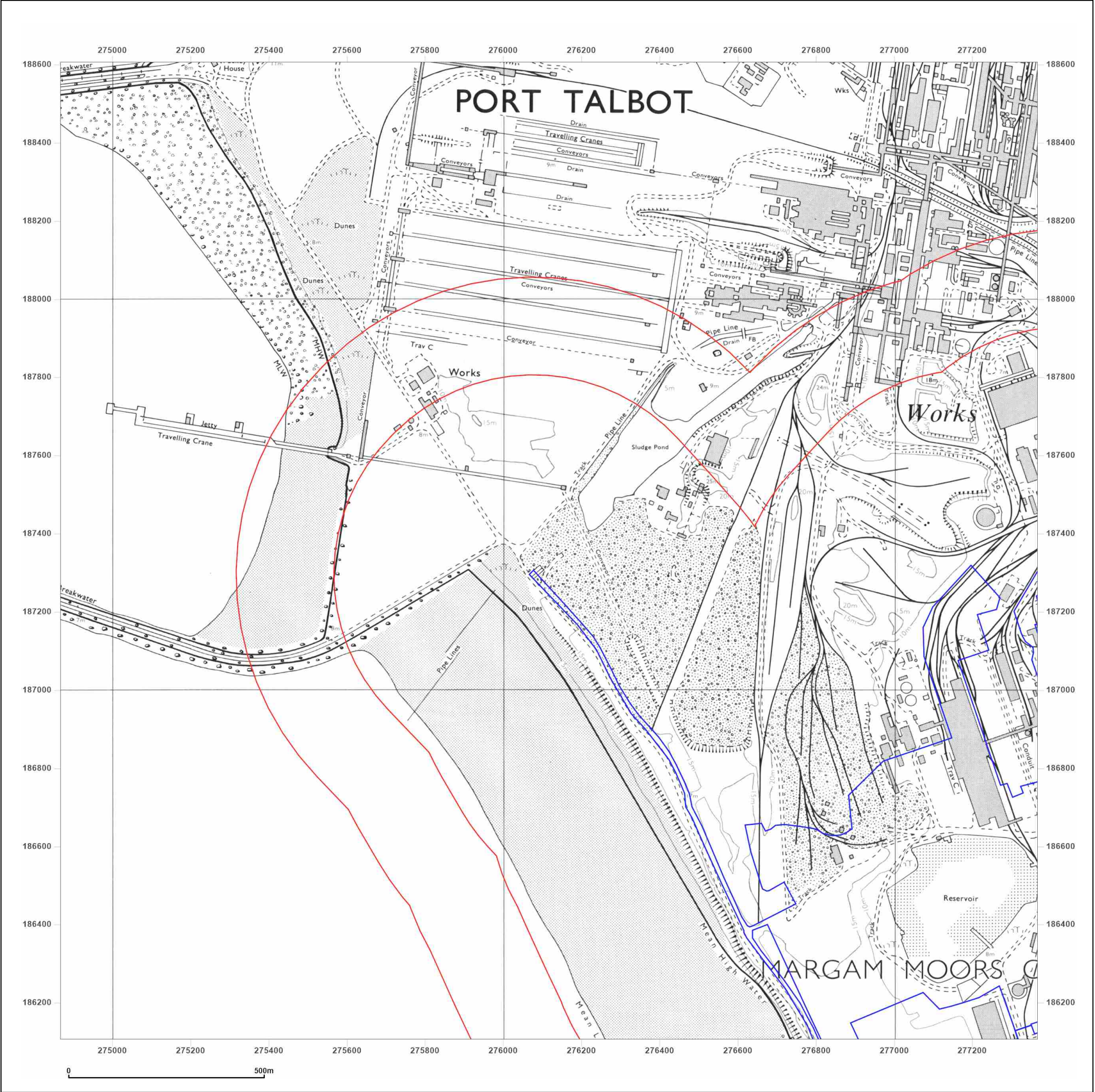
Surveyed 1965
Revised 1965
Edition N/A
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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: National Grid

Map date: 1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1982
Edition N/A
Copyright 1982
Levelled 1978

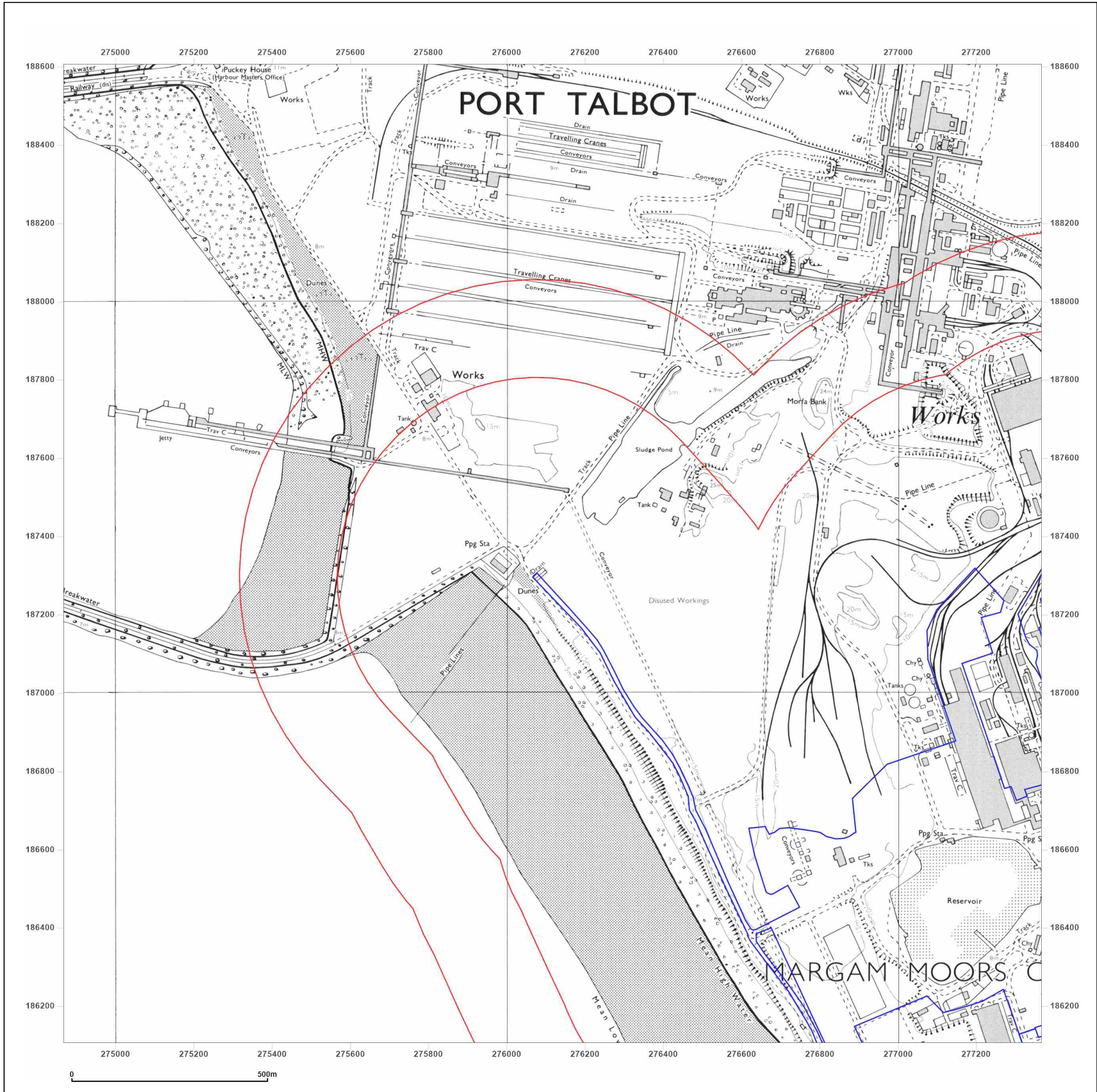


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: National Grid
Map date: 1993
Scale: 1:10,000
Printed at: 1:10,000



Surveyed 1991
Revised 1991
Edition N/A
Copyright 1993
Levelled N/A



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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001



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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

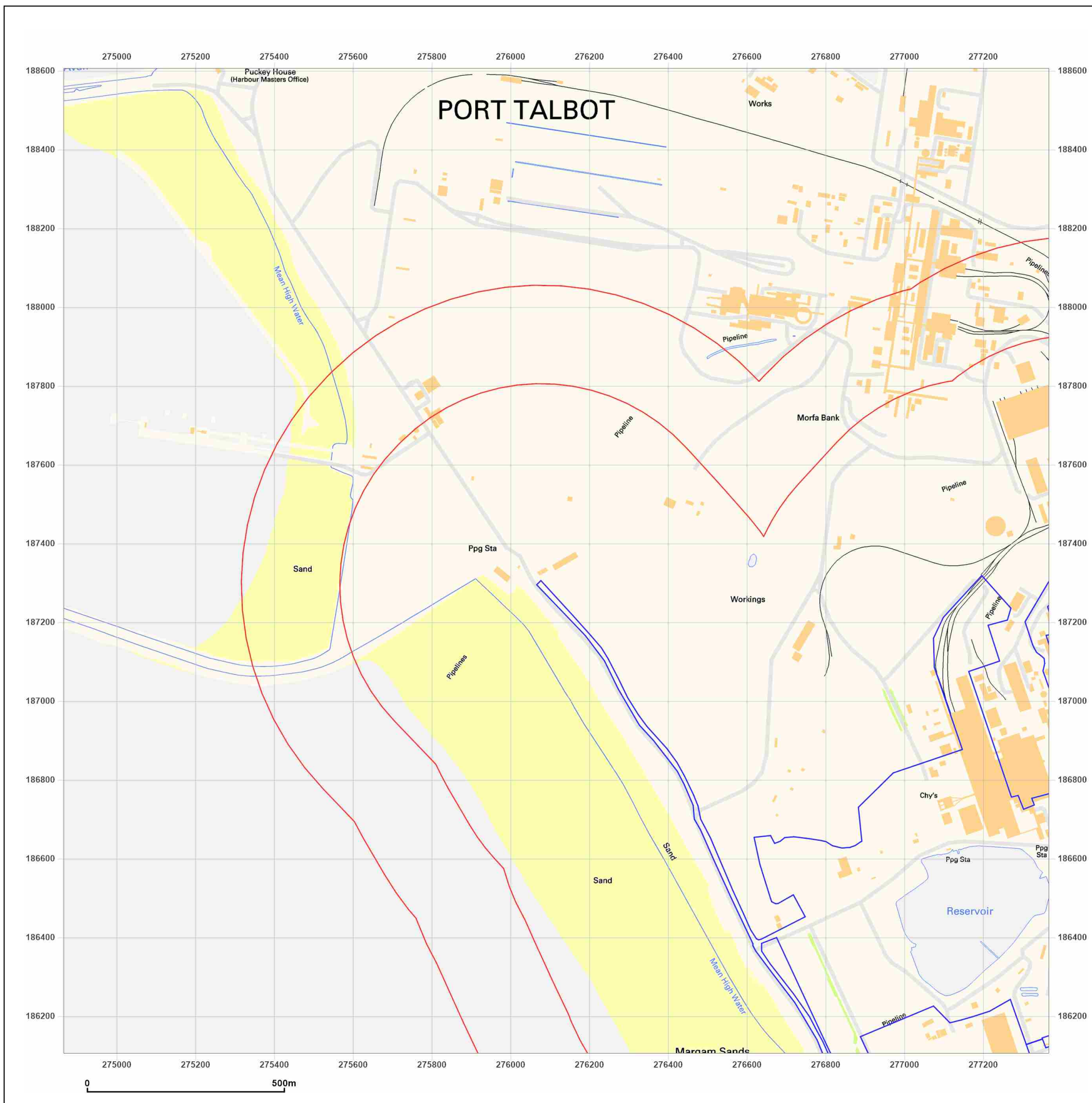


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_1_2
Grid Ref: 276116, 187356

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



2024



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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: County Series

Map date: 1897-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

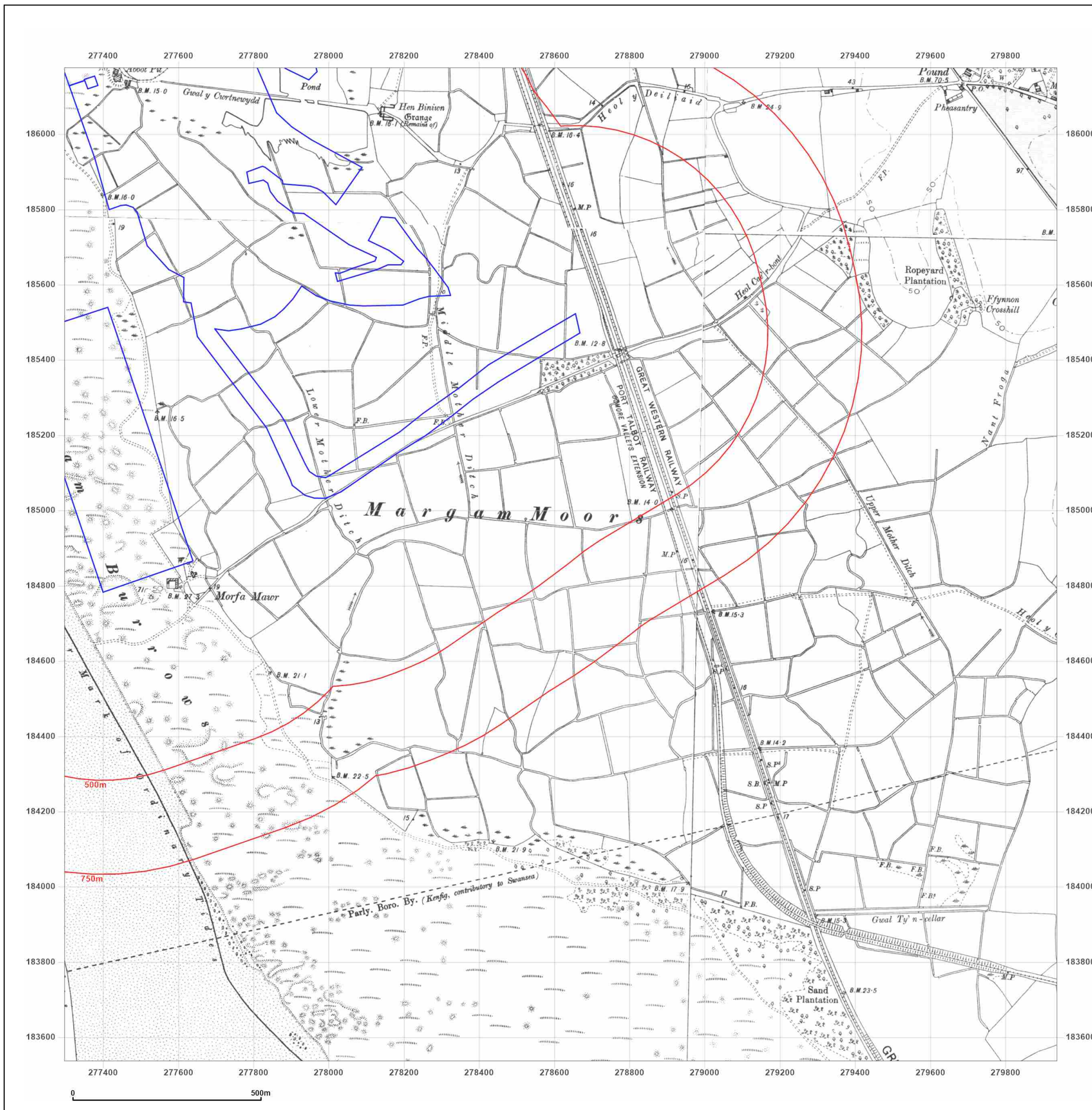


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



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

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

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

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

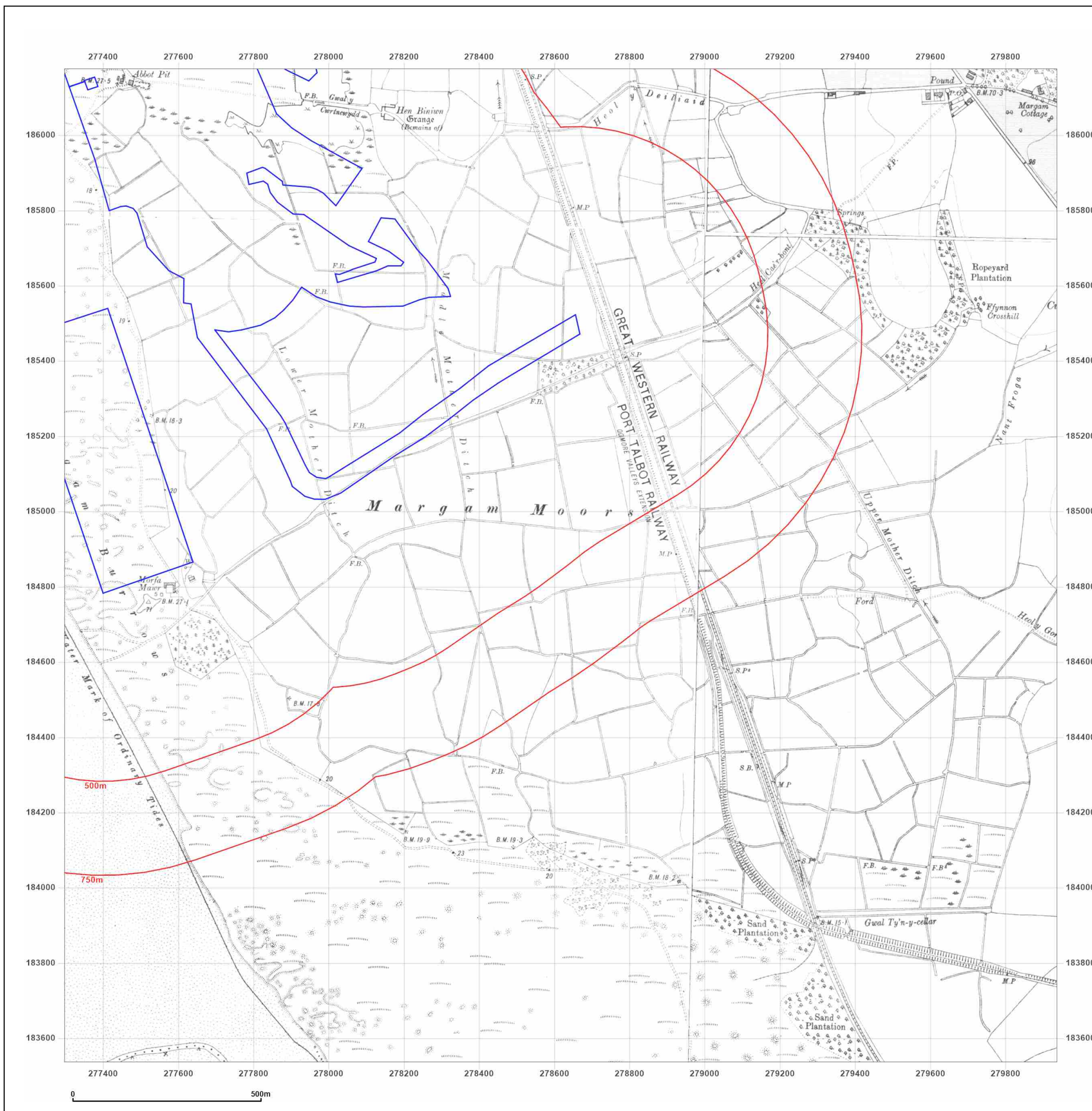


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



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

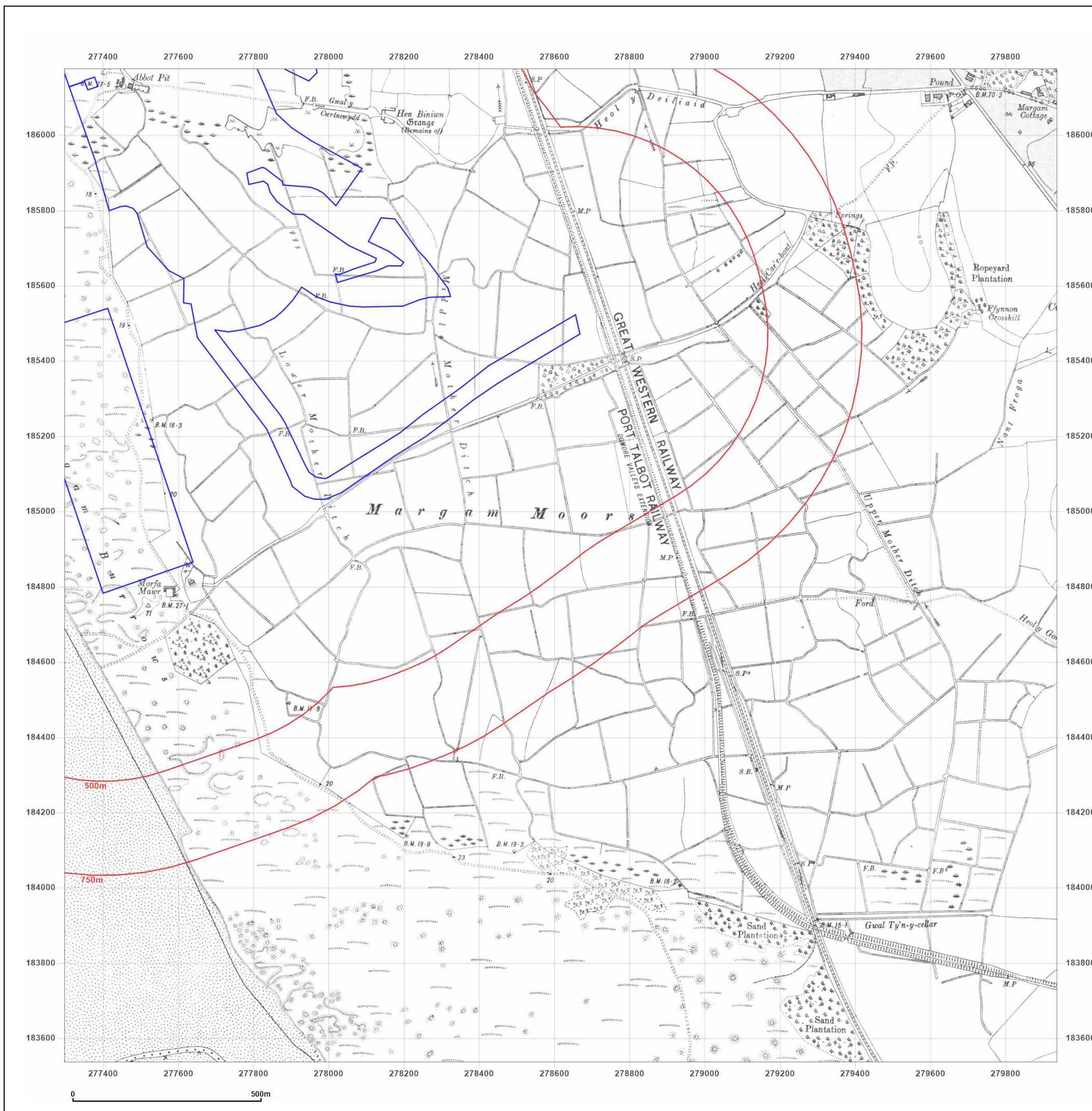


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



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

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

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

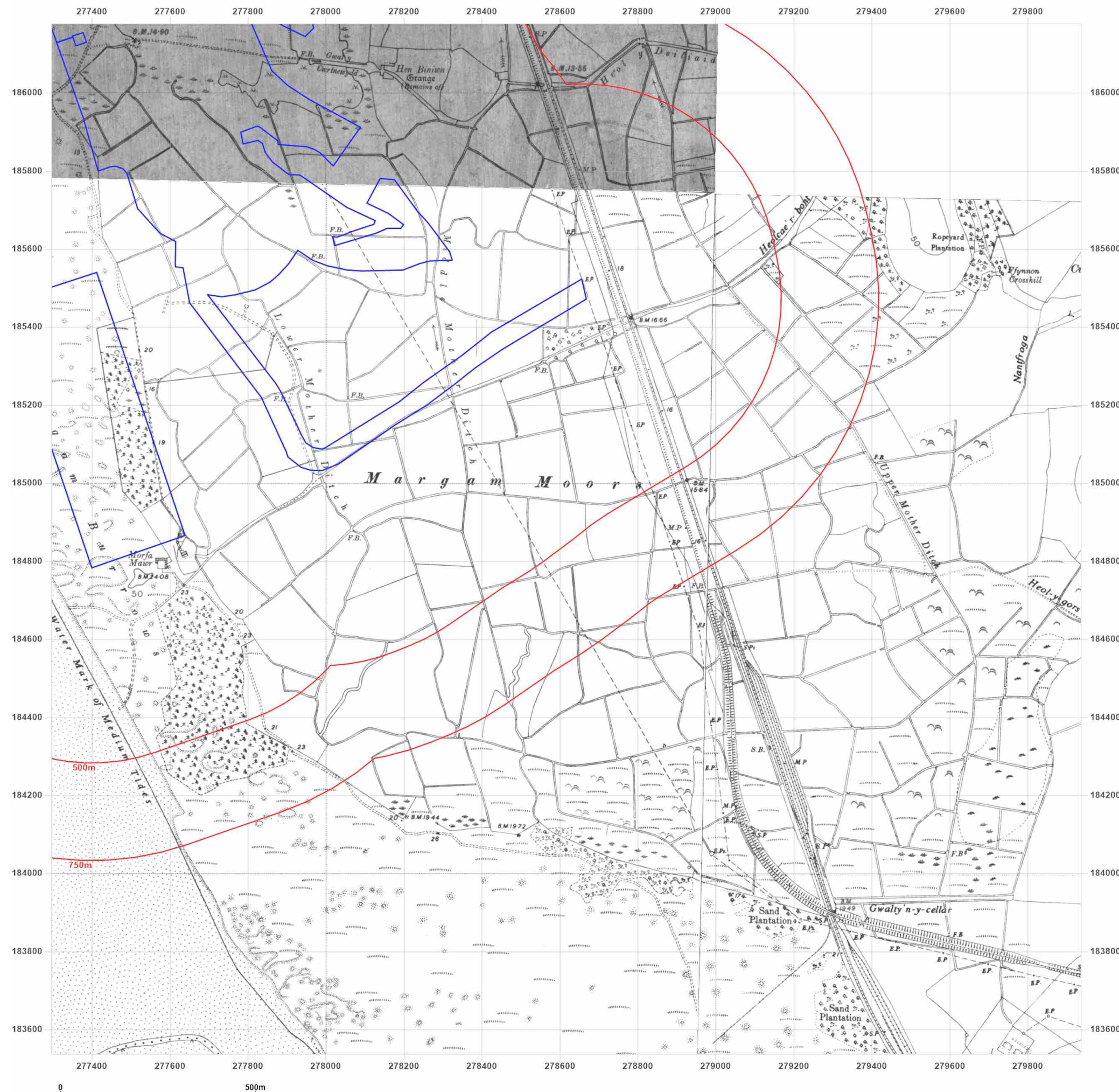


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: Provisional

Map date: 1962-1965

Scale: 1:10,560

Printed at: 1:10,560



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

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

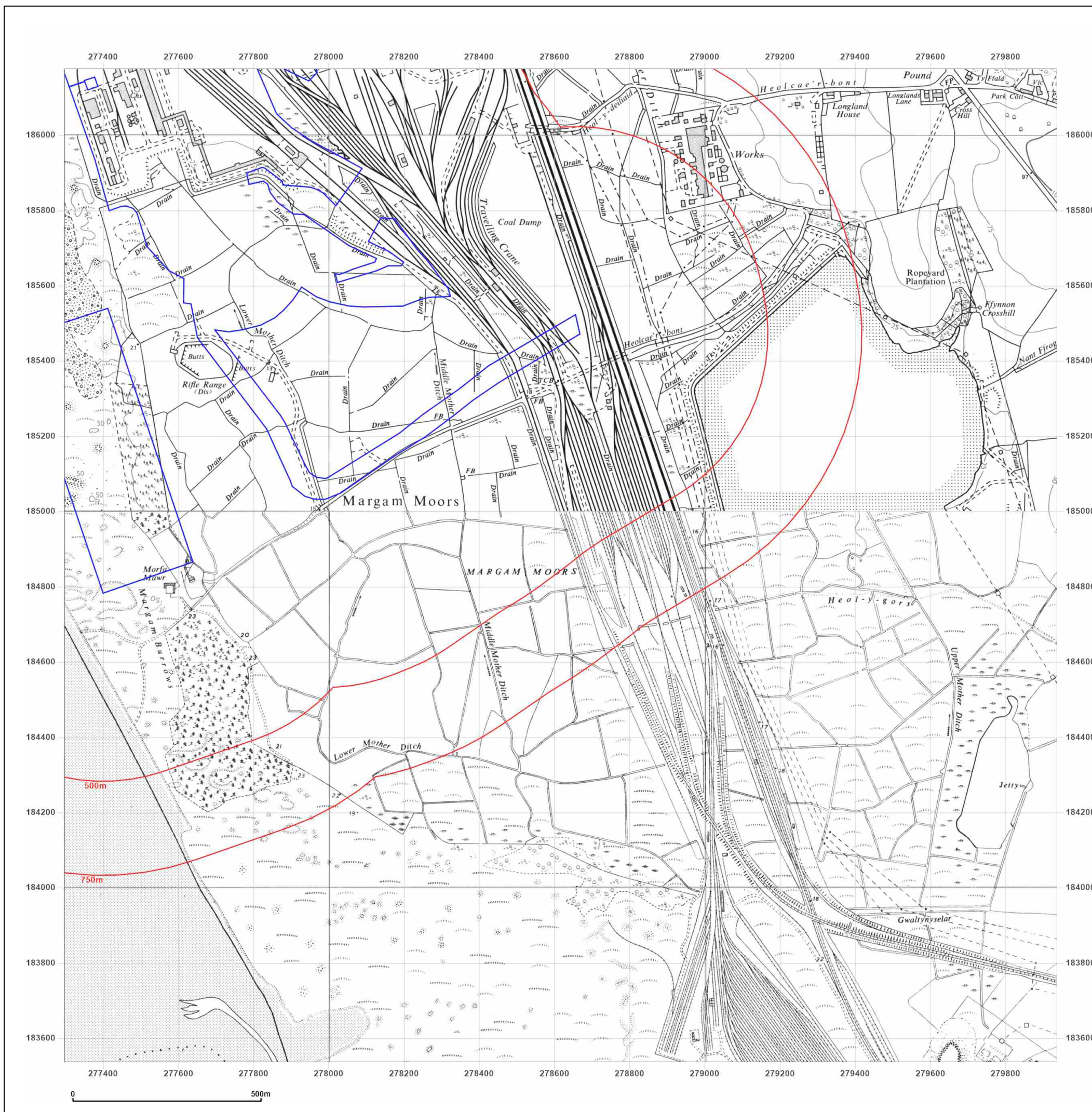


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: Provisional

Map date: 1969

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1969
Revised 1969
Edition N/A
Copyright N/A
Levelled N/A

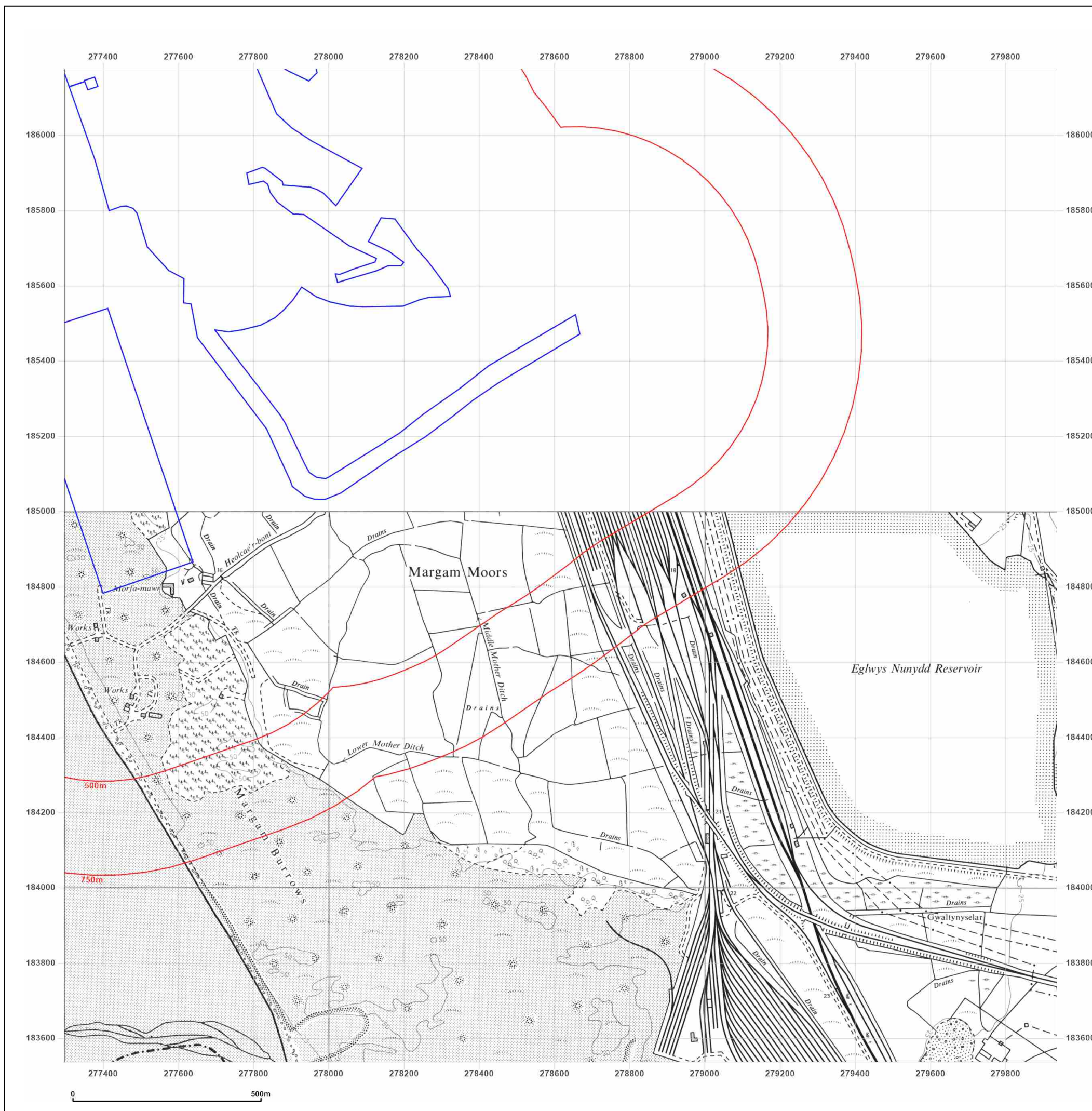


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: National Grid

Map date: 1988-1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1991
Revised 1991
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1968
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

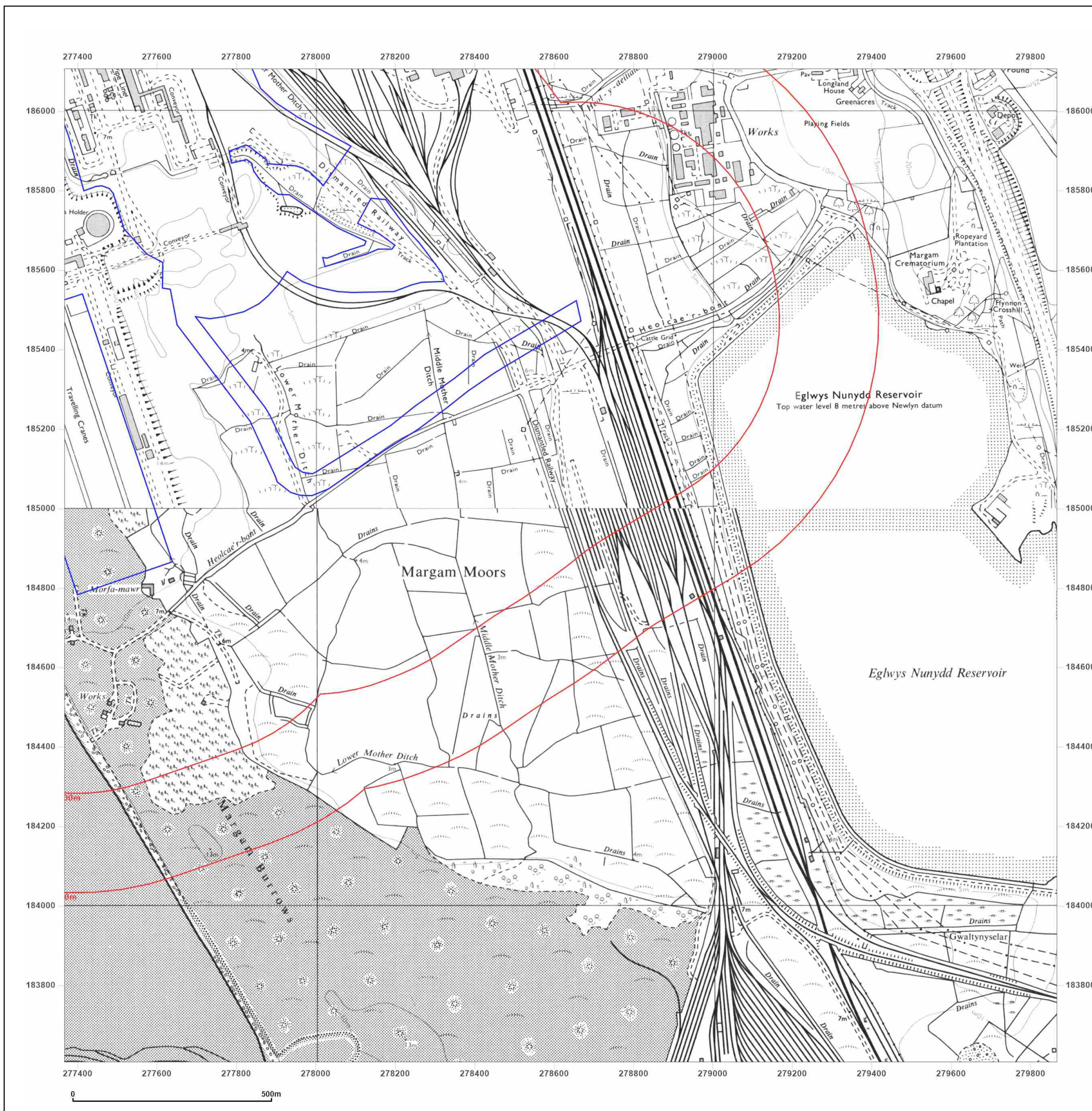


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Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

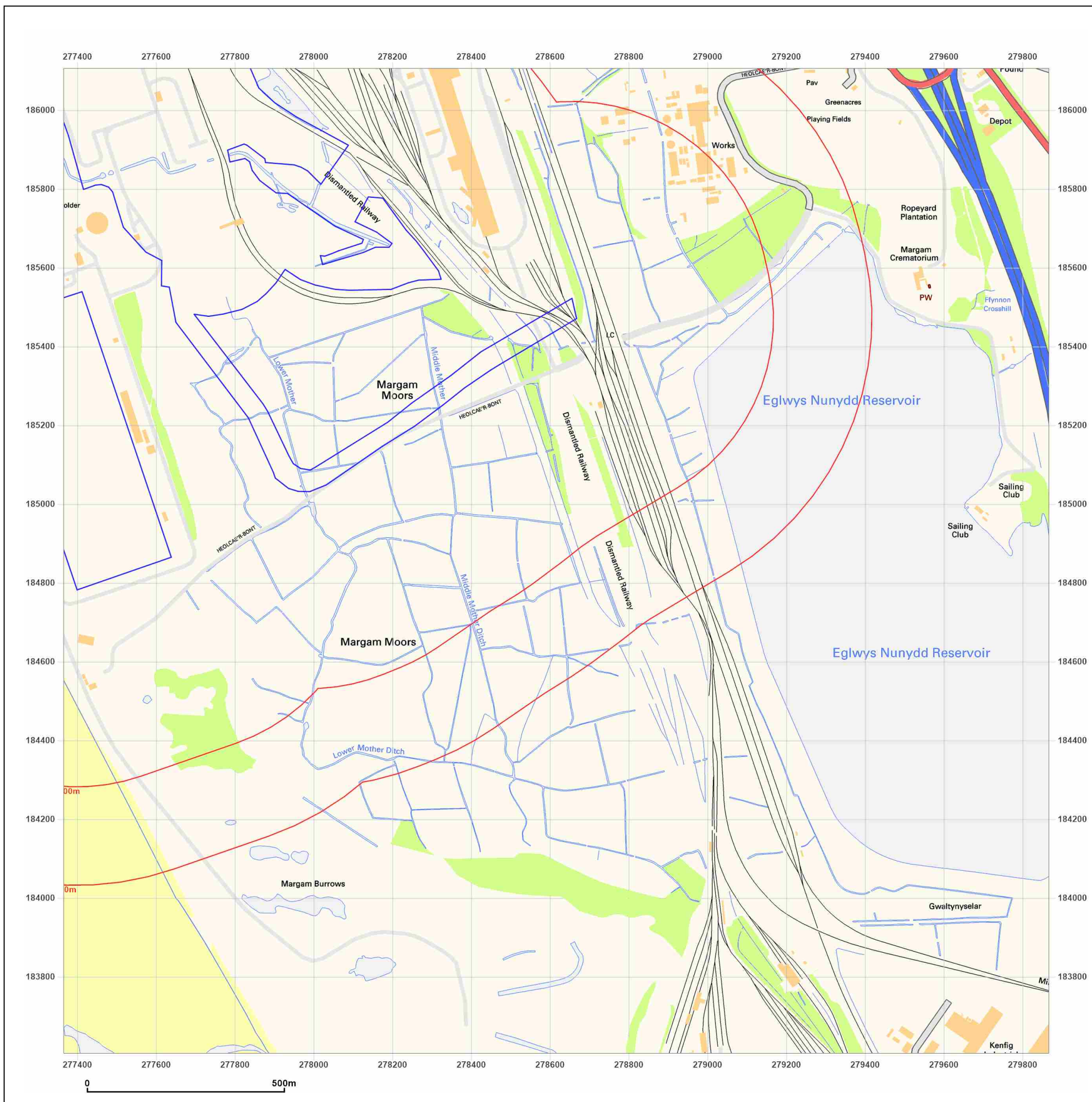


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Report Ref: GSIP-2024-14959-18673_SS_2_1
Grid Ref: 278616, 184856

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



2024

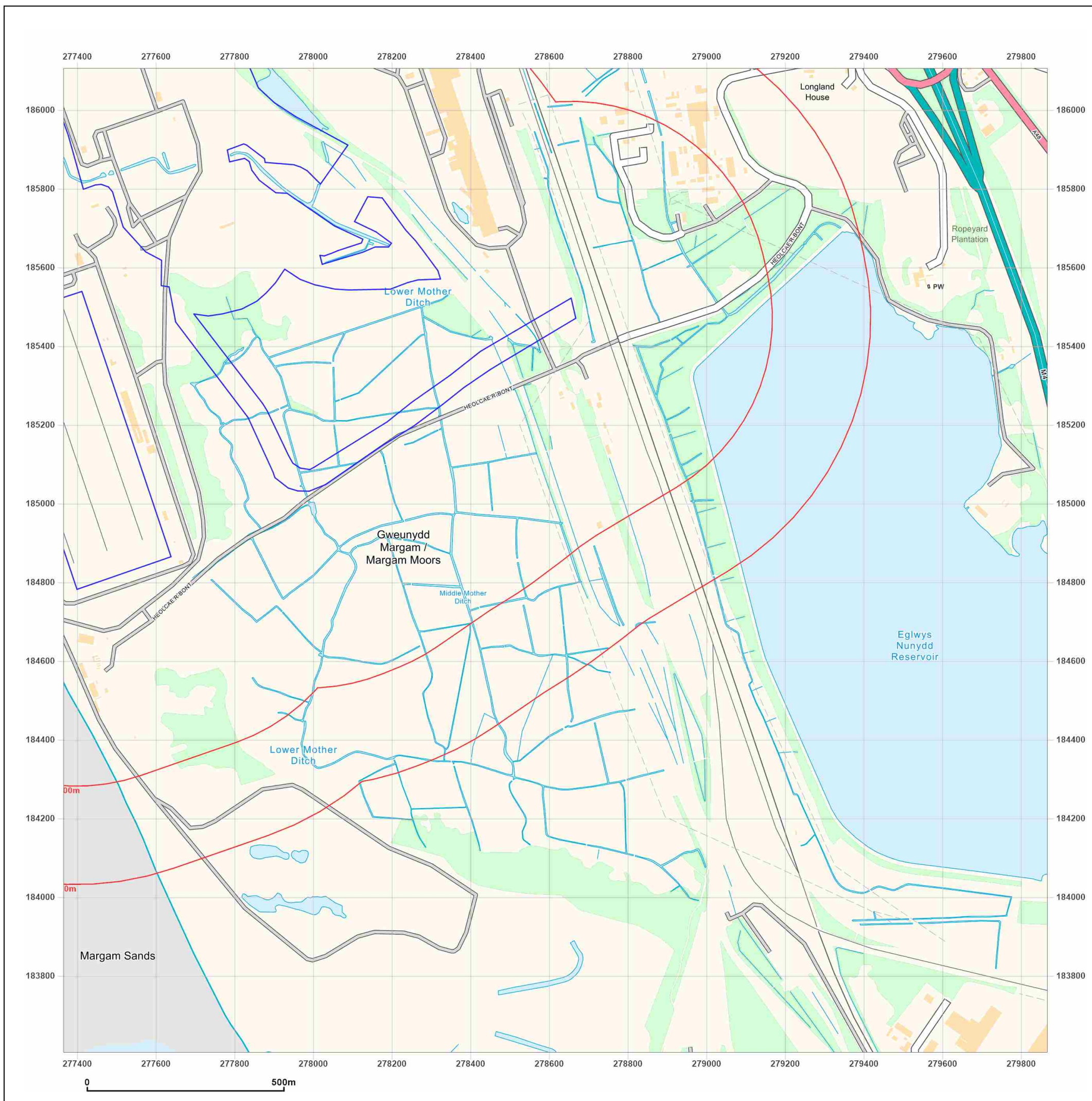


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: County Series

Map date: 1876

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1876
Edition N/A
Copyright 1885
Levelled N/A

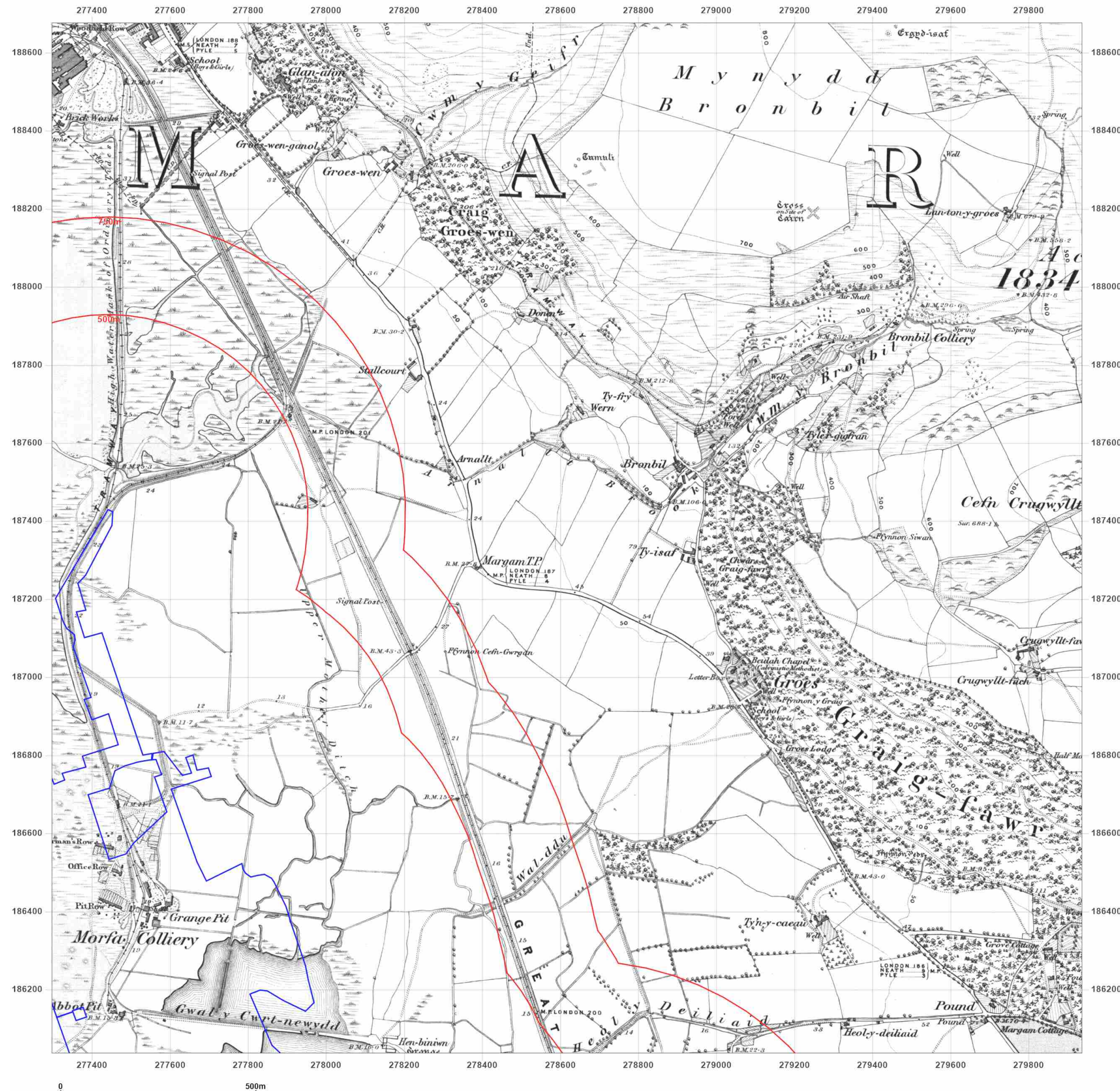


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: County Series

Map date: 1897-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

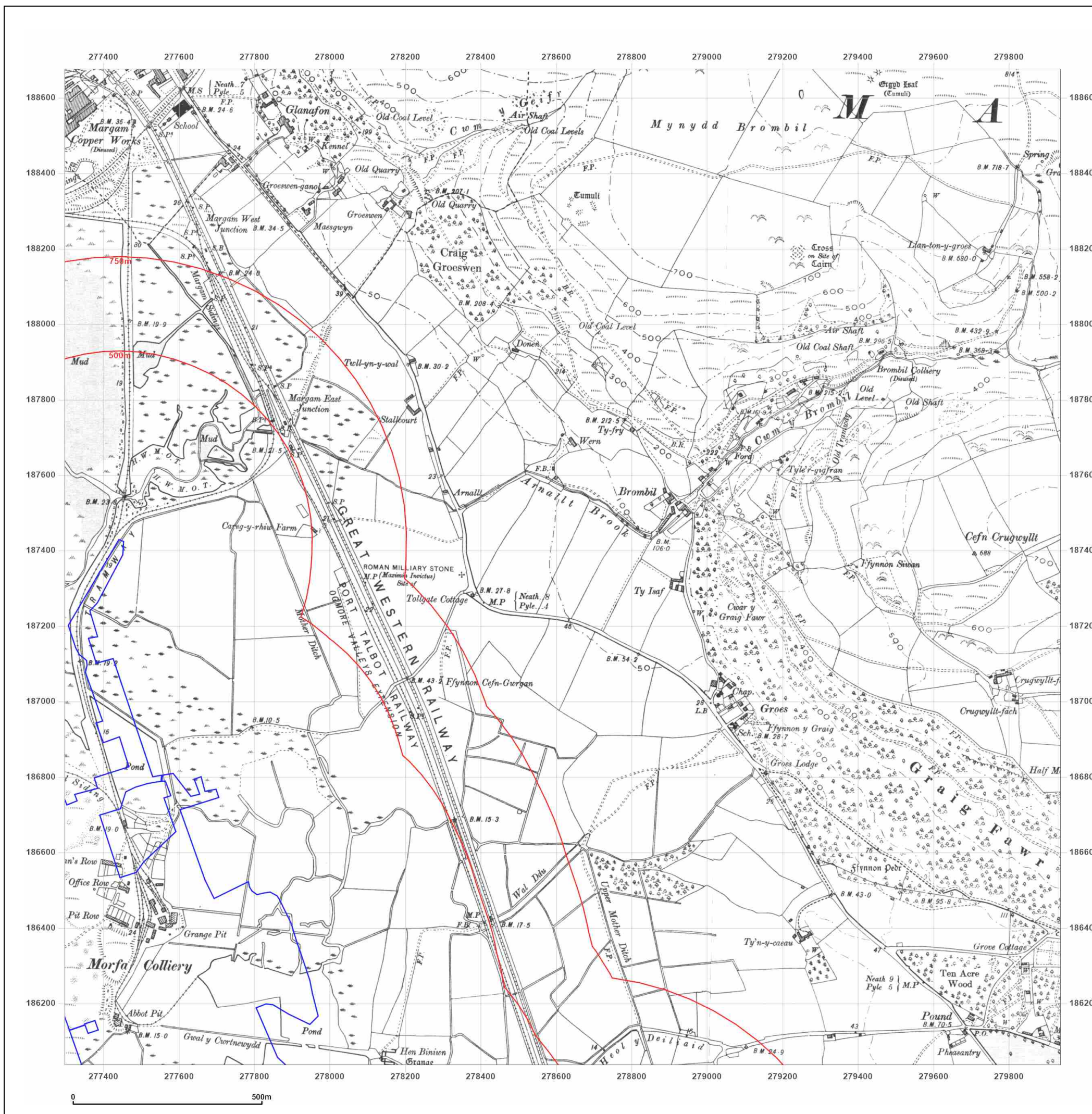


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



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

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

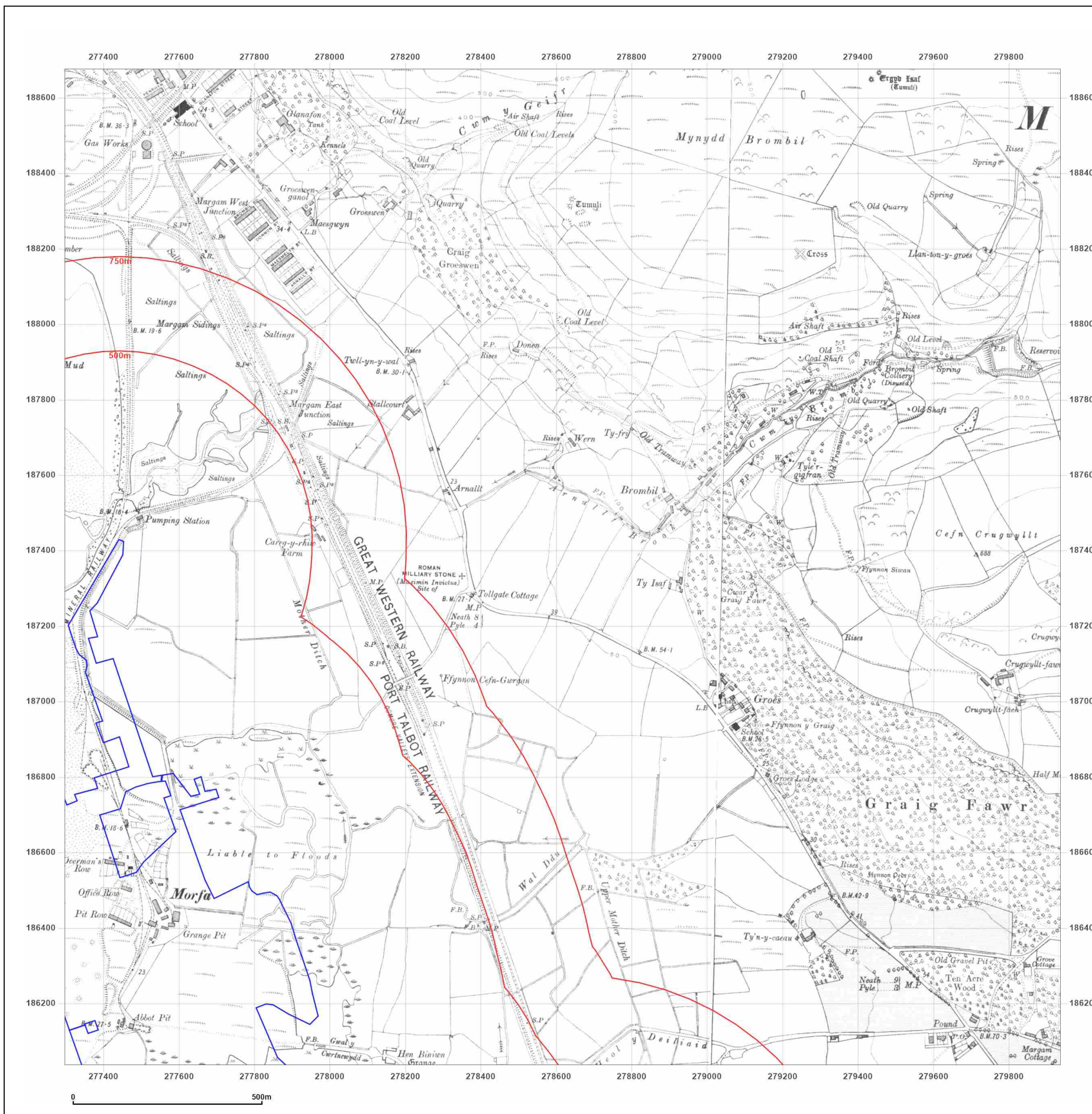


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



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

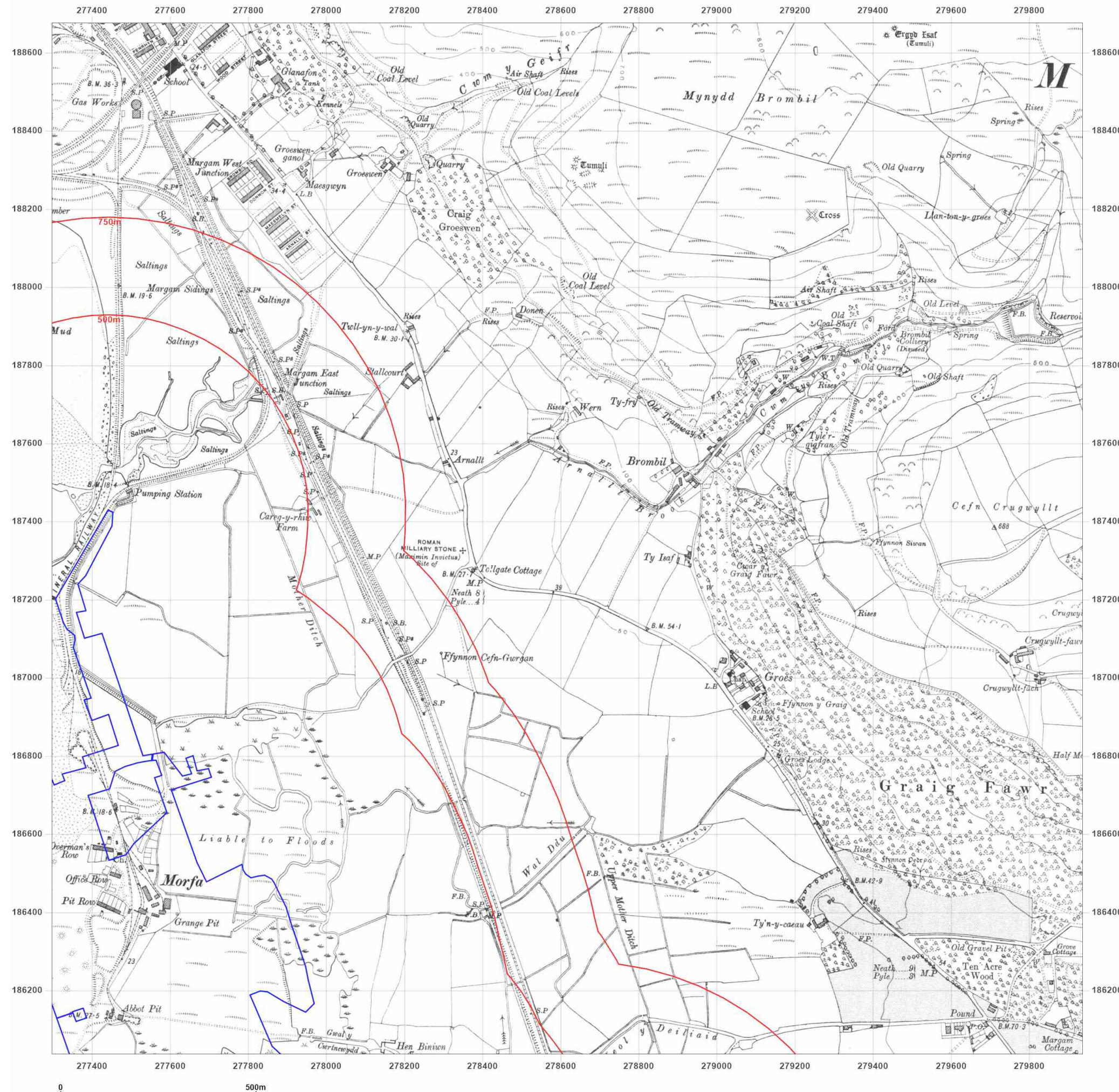


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1938
Edition N/A
Copyright N/A
Levelled 1934

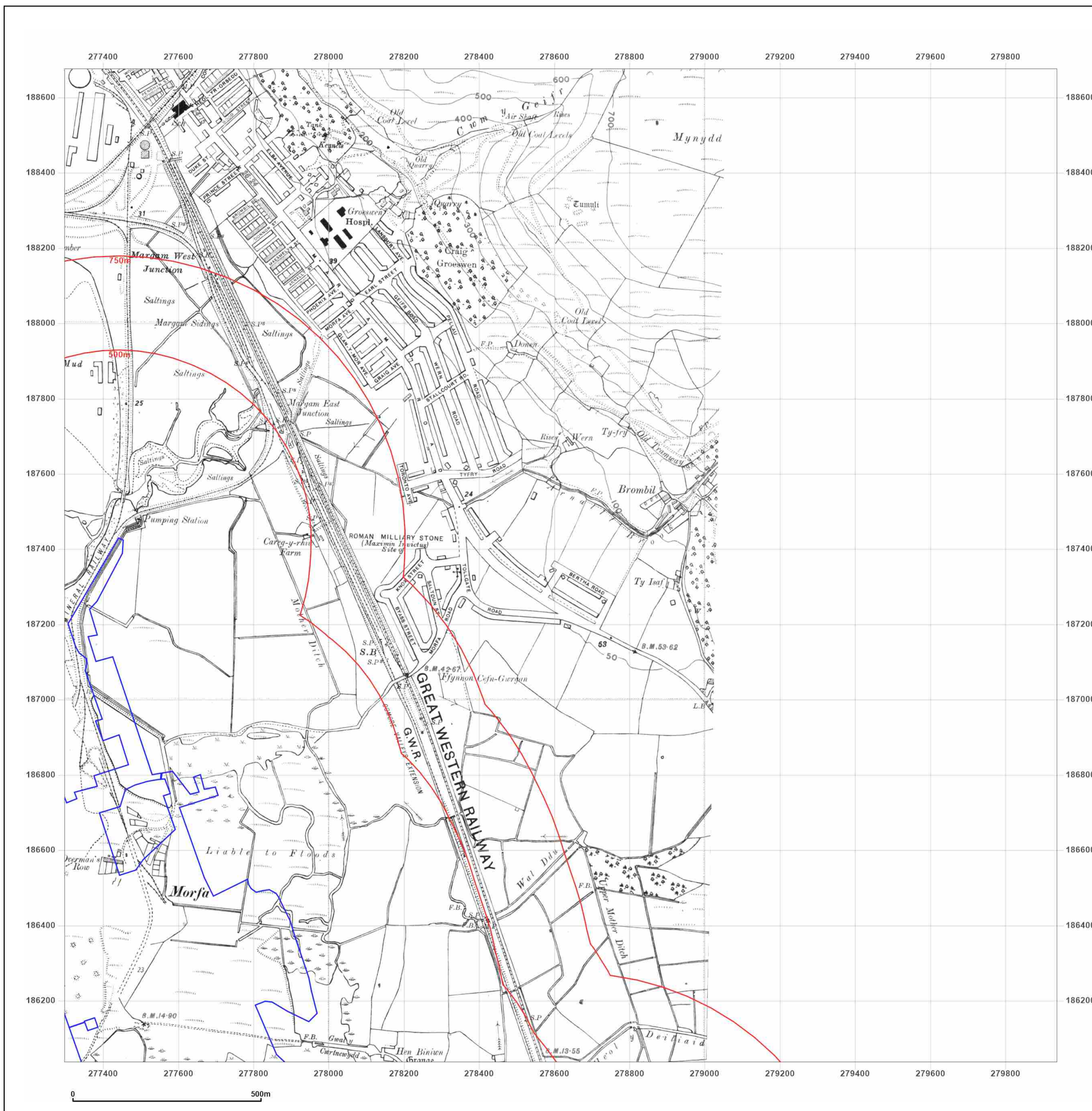


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



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

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

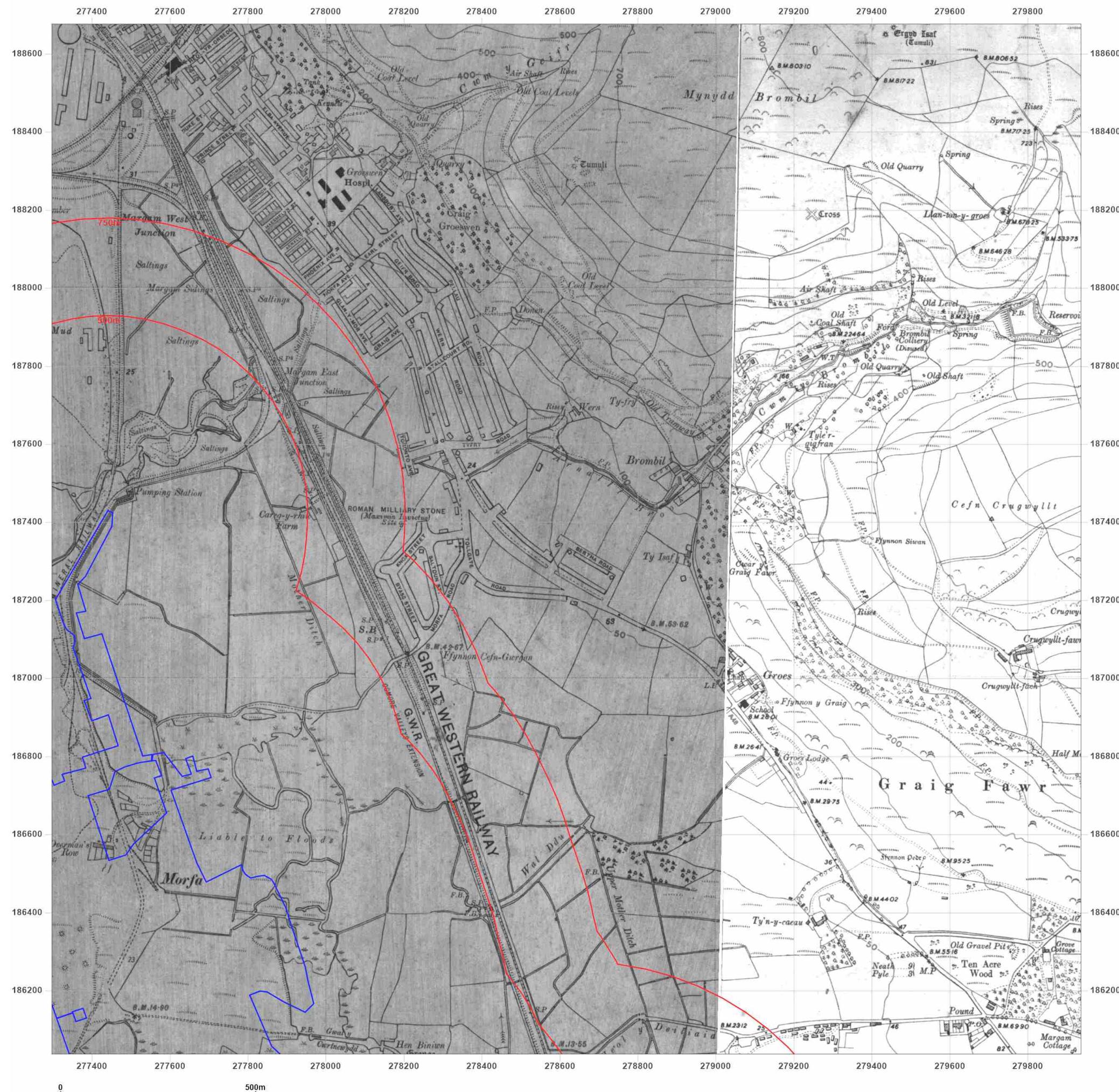


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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: Provisional

Map date: 1965

Scale: 1:10,560

Printed at: 1:10,560



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

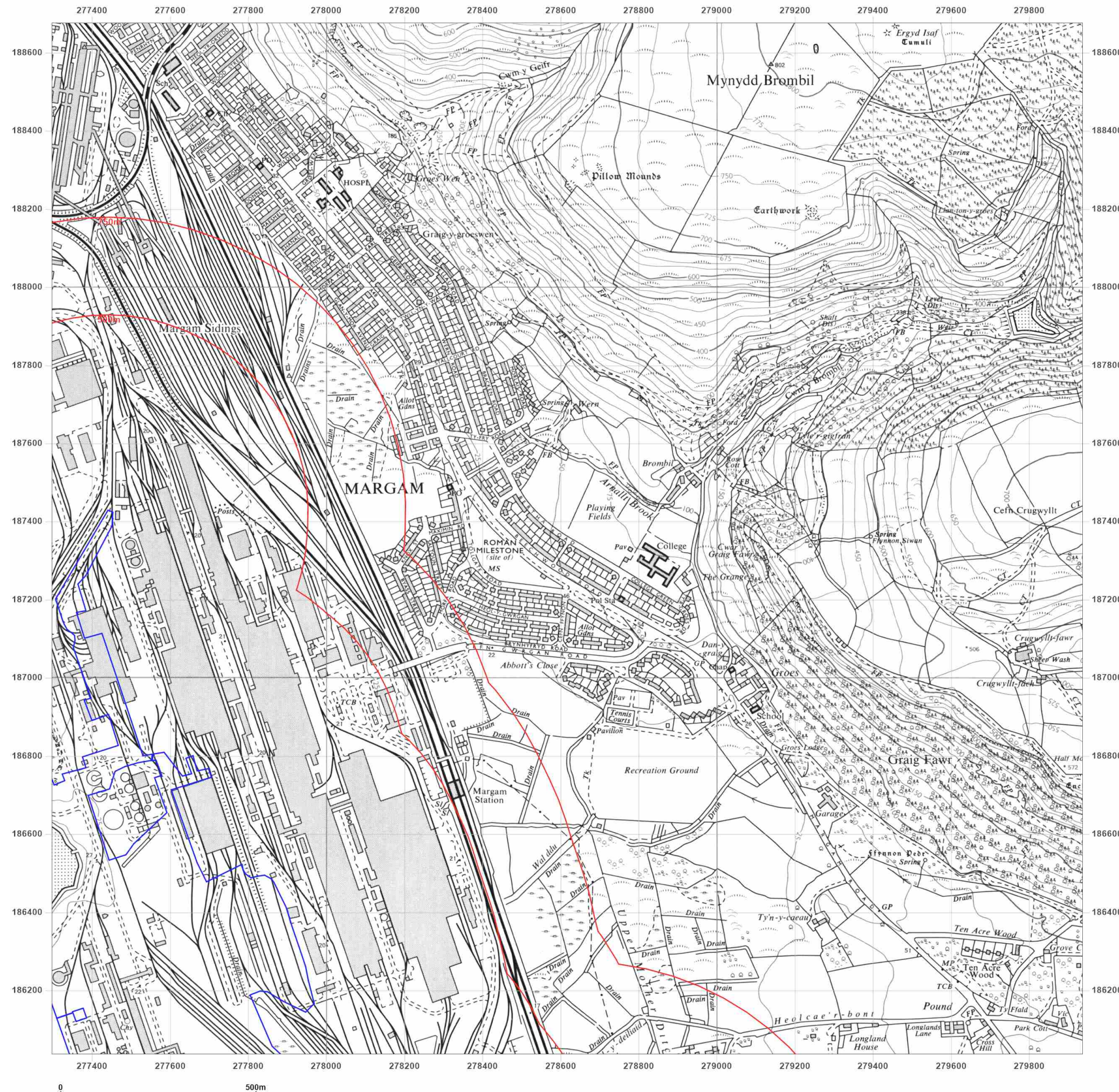


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: National Grid

Map date: 1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1982
Edition N/A
Copyright 1982
Levelled 1978

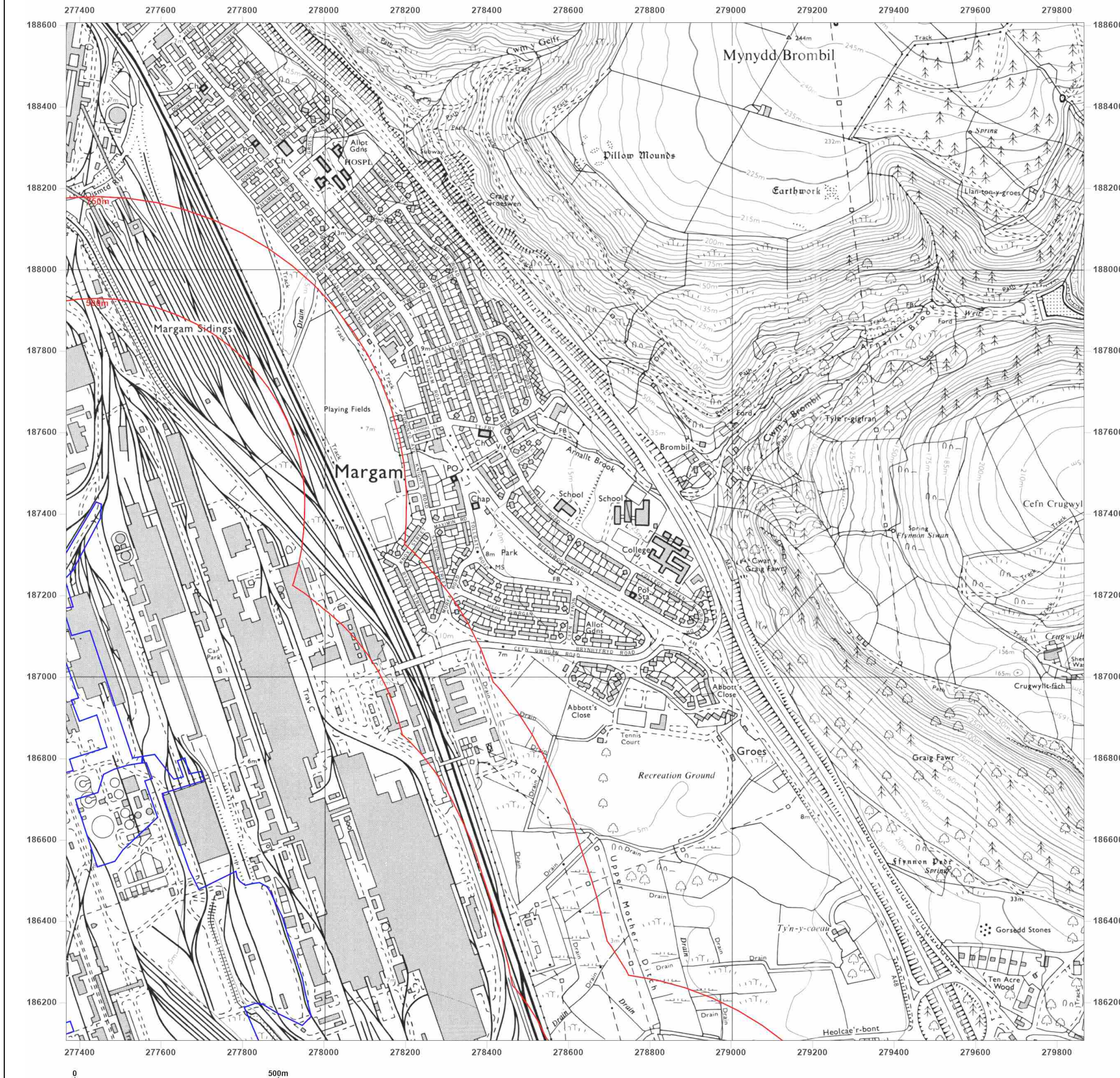


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Site Details:

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Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: National Grid

Map date: 1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1991
Revised 1991
Edition N/A
Copyright 1993
Levelled N/A

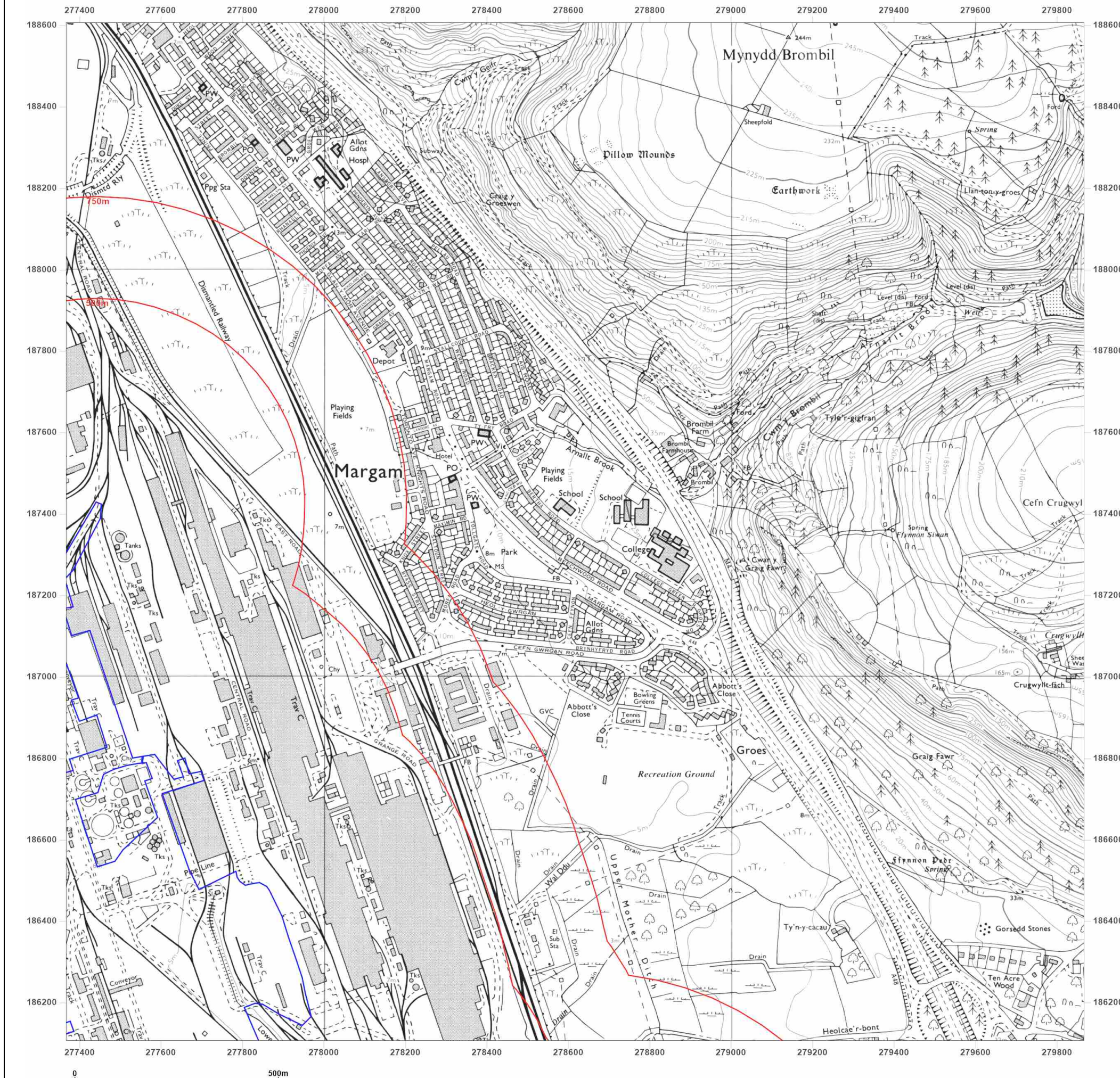


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001

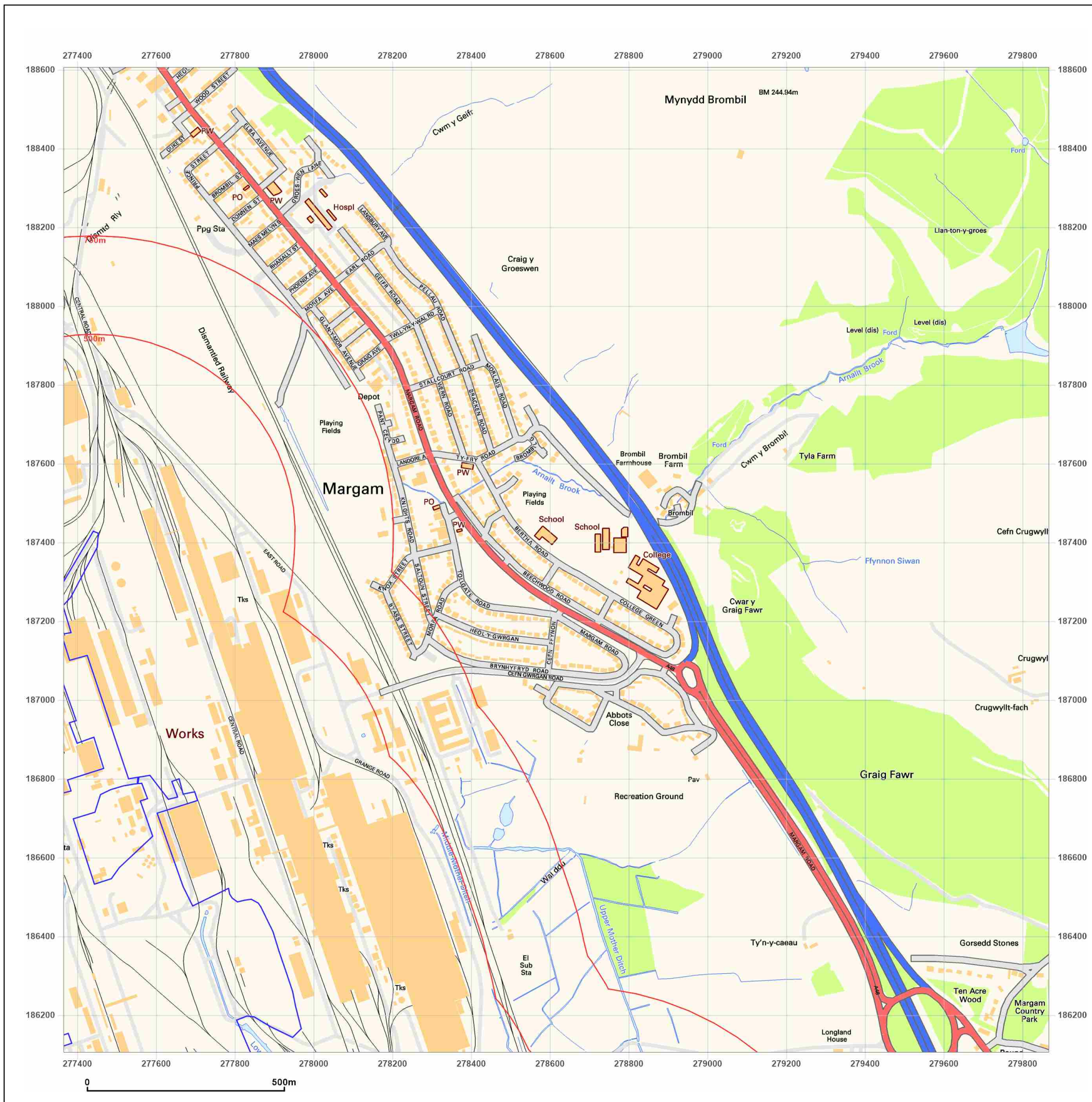


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Site Details:

Port Talbot - TCE

Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

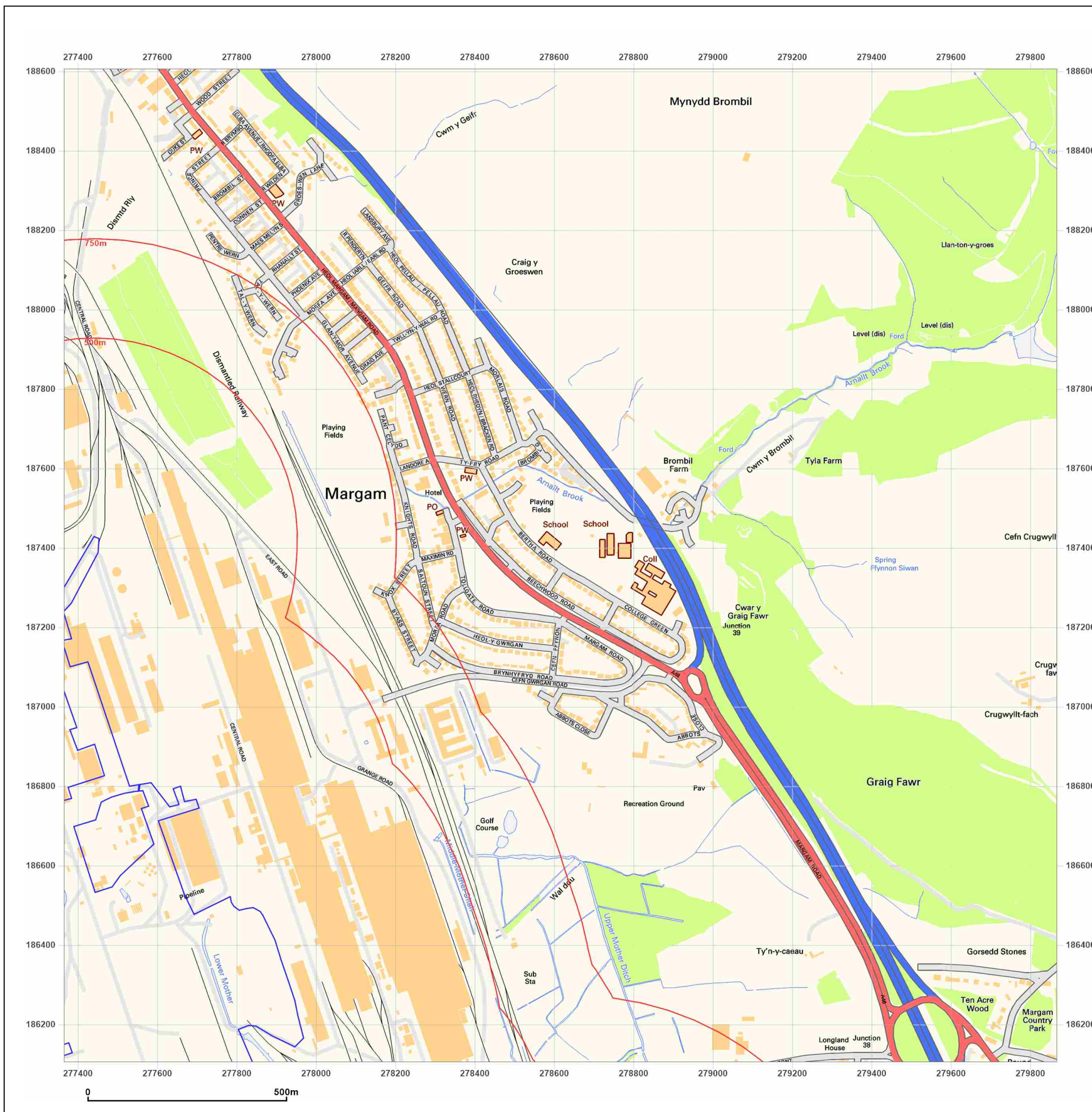


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Site Details:

Port Talbot - TCE

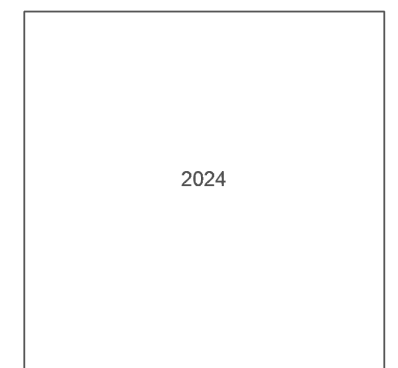
Client Ref: EAF Meltshop Project
Report Ref: GSIP-2024-14959-18673_SS_2_2
Grid Ref: 278616, 187356

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000

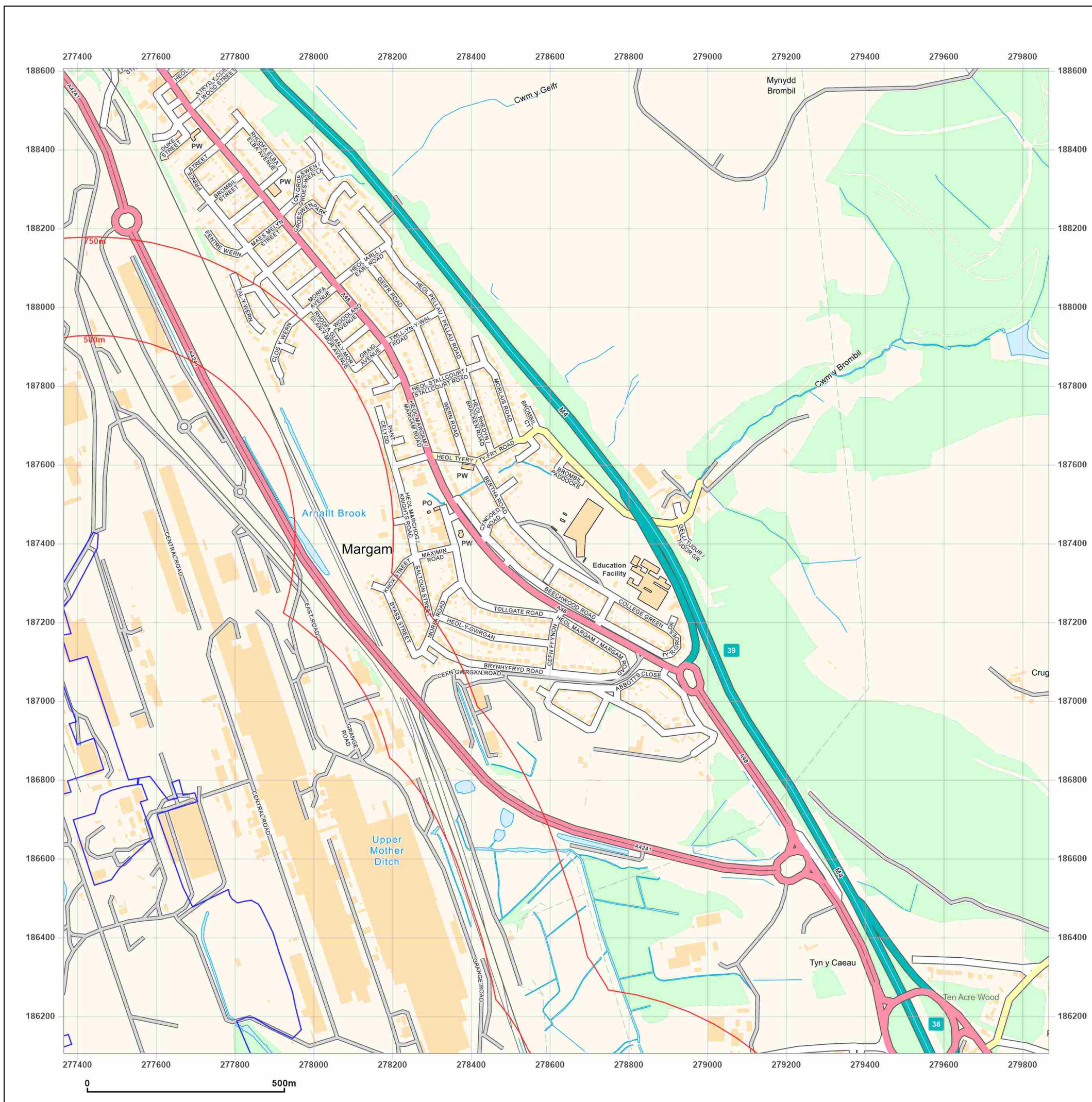


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Production date: 09 May 2024

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



Port Talbot - TCE

Order Details

Date: 10/05/2024
Your ref: EAF Meltshop Project
Our Ref: GSIP-2024-14959-18674

Site Details

Location: 277369 186217
Area: 137.34 ha
Authority: [Castell-nedd Port Talbot - Neath Port Talbot County Borough](#) ↗



Summary of findings

[p. 2](#) >

Aerial image

[p. 9](#) >

OS MasterMap site plan

N/A: >10ha

[Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	69	22	46	41	-
21 >	1.2 >	Historical tanks >	76	47	127	50	-
32 >	1.3 >	Historical energy features >	4	5	12	12	-
34	1.4	Historical petrol stations	0	0	0	0	-
34	1.5	Historical garages	0	0	0	0	-
34	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
35 >	2.1 >	Historical industrial land uses >	81	27	56	49	-
43 >	2.2 >	Historical tanks >	107	84	233	82	-
62 >	2.3 >	Historical energy features >	5	12	29	23	-
64	2.4	Historical petrol stations	0	0	0	0	-
65	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
66 >	3.1 >	Active or recent landfill >	0	0	0	2	-
67	3.2	Historical landfill (BGS records)	0	0	0	0	-
67 >	3.3 >	Historical landfill (LA/mapping records) >	0	1	1	0	-
67	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
68 >	3.5 >	Historical waste sites >	0	0	1	1	-
68 >	3.6 >	Licensed waste sites >	0	2	7	1	-
71	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
72 >	4.1 >	Recent industrial land uses >	101	42	120	-	-
85	4.2	Current or recent petrol stations	0	0	0	0	-
85 >	4.3 >	Electricity cables >	0	0	0	7	-
86	4.4	Gas pipelines	0	0	0	0	-
86	4.5	Sites determined as Contaminated Land	0	0	0	0	-



86 >	4.6 >	Control of Major Accident Hazards (COMAH) >	2	0	1	0	-
87	4.7	Regulated explosive sites	0	0	0	0	-
87 >	4.8 >	Hazardous substance storage/usage >	0	0	2	0	-
87 >	4.9 >	Historical licensed industrial activities (IPC) >	52	0	0	11	-
95 >	4.10 >	Licensed industrial activities (Part A(1)) >	155	0	3	23	-
122	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
123 >	4.12 >	Radioactive Substance Authorisations >	5	0	0	0	-
123 >	4.13 >	Licensed Discharges to controlled waters >	0	1	9	10	-
126	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
127	4.15	Pollutant release to public sewer	0	0	0	0	-
127	4.16	List 1 Dangerous Substances	0	0	0	0	-
127	4.17	List 2 Dangerous Substances	0	0	0	0	-
127 >	4.18 >	Pollution Incidents (EA/NRW) >	21	8	43	16	-
136	4.19	Pollution inventory substances	0	0	0	0	-
137	4.20	Pollution inventory waste transfers	0	0	0	0	-
137	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
138 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
140 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
142 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
145	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
146	5.5	Groundwater vulnerability- local information	None (within 0m)				
147 >	5.6 >	Groundwater abstractions >	0	0	0	4	1
149 >	5.7 >	Surface water abstractions >	6	0	0	1	26
155	5.8	Potable abstractions	0	0	0	0	0
156	5.9	Source Protection Zones	0	0	0	0	-
156	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
157 >	6.1 >	Water Network (OS MasterMap) >	44	50	101	-	-



173 >	6.2 >	Surface water features >	1	12	23	-	-
173 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
173 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
174 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
175 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
176	7.2	Historical Flood Events	0	0	0	-	-
176	7.3	Flood Defences	0	0	0	-	-
176	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
176	7.5	Flood Storage Areas	0	0	0	-	-
177 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
178	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
179 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
181 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
182 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	1	0	1	2
183	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
183 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
184	10.4	Special Protection Areas (SPA)	0	0	0	0	0
184 >	10.5 >	National Nature Reserves (NNR) >	0	0	0	0	1
184 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
184 >	10.7 >	Designated Ancient Woodland >	0	0	0	2	35
186	10.8	Biosphere Reserves	0	0	0	0	0
186	10.9	Forest Parks	0	0	0	0	0
187	10.10	Marine Conservation Zones	0	0	0	0	0
187	10.11	Green Belt	0	0	0	0	0
187	10.12	Proposed Ramsar sites	0	0	0	0	0



187	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
187	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
188	10.15	Nitrate Sensitive Areas	0	0	0	0	0
188	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
189	10.17	SSSI Impact Risk Zones	0	-	-	-	-
189	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
190	11.1	World Heritage Sites	0	0	0	-	-
190	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
190	11.3	National Parks	0	0	0	-	-
190	11.4	Listed Buildings	0	0	0	-	-
191	11.5	Conservation Areas	0	0	0	-	-
191	11.6	Scheduled Ancient Monuments	0	0	0	-	-
191	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
192 >	12.1 >	Agricultural Land Classification >	Grade 5 (within 250m)				
193	12.2	Open Access Land	0	0	0	-	-
194	12.3	Tree Felling Licences	0	0	0	-	-
194	12.4	Environmental Stewardship Schemes	0	0	0	-	-
194	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
195	13.1	Priority Habitat Inventory	0	0	0	-	-
195	13.2	Habitat Networks	0	0	0	-	-
195	13.3	Open Mosaic Habitat	0	0	0	-	-
195	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
196 >	14.1 >	10k Availability >	Identified (within 500m)				
197 >	14.2 >	Artificial and made ground (10k) >	2	0	1	5	-
199 >	14.3 >	Superficial geology (10k) >	7	2	5	14	-



201	14.4	Landslip (10k)	0	0	0	0	-
202 >	14.5 >	Bedrock geology (10k) >	16	3	1	5	-
204 >	14.6 >	Bedrock faults and other linear features (10k) >	34	5	12	11	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
207 >	15.1 >	50k Availability >	Identified (within 500m)				
208 >	15.2 >	Artificial and made ground (50k) >	1	0	1	2	-
209 >	15.3 >	Artificial ground permeability (50k) >	2	0	-	-	-
210 >	15.4 >	Superficial geology (50k) >	5	1	1	5	-
211 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
212	15.6	Landslip (50k)	0	0	0	0	-
212	15.7	Landslip permeability (50k)	None (within 50m)				
213 >	15.8 >	Bedrock geology (50k) >	10	2	0	4	-
214 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
215 >	15.10 >	Bedrock faults and other linear features (50k) >	23	2	6	12	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
218 >	16.1 >	BGS Boreholes >	26	27	82	-	-
Page	Section	Natural ground subsidence >					
224 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
225 >	17.2 >	Running sands >	Moderate (within 50m)				
227 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
229 >	17.4 >	Collapsible deposits >	Negligible (within 50m)				
230 >	17.5 >	Landslides >	Very low (within 50m)				
231 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
233 >	18.1 >	BritPits >	2	0	0	0	-
234 >	18.2 >	Surface ground workings >	68	0	14	-	-
237 >	18.3 >	Underground workings >	3	0	0	0	0
238	18.4	Underground mining extents	0	0	0	0	-
238 >	18.5 >	Historical Mineral Planning Areas >	4	0	0	0	-



238 >	18.6 >	Non-coal mining >	7	0	2	3	2
240	18.7	JPB mining areas	None (within 0m)				
240	18.8	The Coal Authority non-coal mining	0	0	0	0	-
241	18.9	Researched mining	0	0	0	0	-
241	18.10	Mining record office plans	0	0	0	0	-
241	18.11	BGS mine plans	0	0	0	0	-
241 >	18.12 >	Coal mining >	Identified (within 0m)				
242	18.13	Brine areas	None (within 0m)				
242	18.14	Gypsum areas	None (within 0m)				
242	18.15	Tin mining	None (within 0m)				
242	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
243	19.1	Natural cavities	0	0	0	0	-
243	19.2	Mining cavities	0	0	0	0	0
243	19.3	Reported recent incidents	0	0	0	0	-
243	19.4	Historical incidents	0	0	0	0	-
244	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
245 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
247 >	21.1 >	BGS Estimated Background Soil Chemistry >	65	23	-	-	-
252	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
252	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
253	22.1	Underground railways (London)	0	0	0	-	-
253	22.2	Underground railways (Non-London)	0	0	0	-	-
254	22.3	Railway tunnels	0	0	0	-	-
254 >	22.4 >	Historical railway and tunnel features >	27	46	104	-	-
260	22.5	Royal Mail tunnels	0	0	0	-	-



261	22.6	Historical railways	0	0	0	-	-
261 >	22.7 >	Railways >	36	13	83	-	-
266	22.8	Crossrail 1	0	0	0	0	-
266	22.9	Crossrail 2	0	0	0	0	-
266	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 14/04/2020

Site Area: 137.34ha



Recent site history - 2019 aerial photograph



Capture Date: 19/09/2019

Site Area: 137.34ha



Recent site history - 2014 aerial photograph

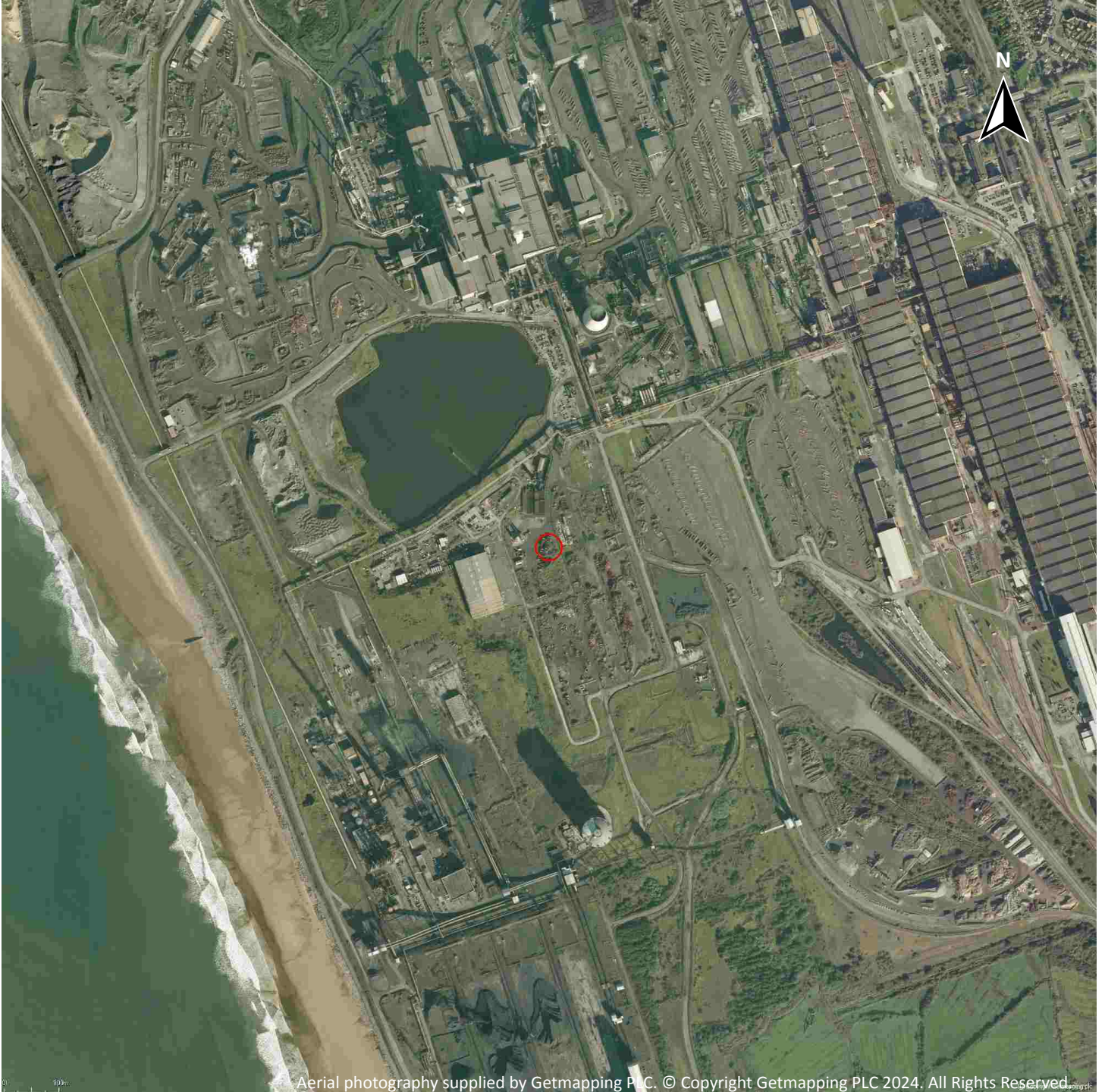


Capture Date: 23/07/2014

Site Area: 137.34ha



Recent site history - 2009 aerial photograph



Capture Date: 12/10/2009

Site Area: 137.34ha



Recent site history - 2000 aerial photograph



Capture Date: 21/07/2000

Site Area: 137.34ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

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1.1 Historical industrial land uses

Records within 500m

178

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

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

ID	Location	Land use	Dates present	Group ID
1	On site	Refuse Heap	1979	318551



ID	Location	Land use	Dates present	Group ID
2	On site	Pumping Station	1991	320519
3	On site	Pumping Station	1991	320520
4	On site	Unspecified Works	1989	320960
5	On site	Unspecified Heap	1914	327813
6	On site	Disused Rifle Range	1965	328150
7	On site	Unspecified Disused Workings	1991	328766
8	On site	Unspecified Ground Workings	1914	333235
9	On site	Cuttings	1991	336805
10	On site	Refuse Heap	1965	338654
11	On site	Refuse Heap	1965	338658
12	On site	Railway Sidings	1991	357464
13	On site	Railway Sidings	1949	371428
14	On site	Mineral Railway Sidings	1938	373172
15	On site	Refuse Heap	1979	374276
A	On site	Unspecified Tank	1991	320072
A	On site	Unspecified Tank	1876	320073
A	On site	Unspecified Ground Workings	1914	333237
A	On site	Chimney	1965	346114
A	On site	Unspecified Tanks	1991	348557
A	On site	Unspecified Heap	1914 - 1921	354837
A	On site	Unspecified Pit	1914 - 1921	356455
A	On site	Unspecified Pit	1900	359315
A	On site	Unspecified Tanks	1965 - 1979	360565
A	On site	Chimney	1991	362732
B	On site	Unspecified Tank	1921	320074
B	On site	Unspecified Shaft	1876	322543
B	On site	Unspecified Heap	1876	327814
B	On site	Unspecified Tanks	1991	328466



ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tanks	1876	328467
B	On site	Unspecified Commercial/Industrial	1921	331174
B	On site	Unspecified Ground Workings	1949	333238
B	On site	Refuse Heap	1876	338678
B	On site	Unspecified Pit	1921	339867
B	On site	Mineral Railway Sidings	1876	343864
B	On site	Colliery	1876 - 1900	346147
B	On site	Unspecified Pit	1876 - 1900	347180
B	On site	Railway Sidings	1875	350621
B	On site	Unspecified Pit	1914	356088
B	On site	Railway Sidings	1938	357894
B	On site	Unspecified Heap	1876	358649
C	On site	Unspecified Heap	1914	327812
C	On site	Refuse Heap	1965	356813
D	On site	Unspecified Heap	1991	327818
E	On site	Unspecified Heap	1914	327821
F	On site	Unspecified Tanks	1991	328410
G	On site	Unspecified Tanks	1991	328462
G	On site	Chimney	1991	331693
G	On site	Unspecified Ground Workings	1949	357217
G	On site	Mineral Railway Sidings	1914 - 1921	358375
G	On site	Railway Sidings	1900	360608
G	On site	Unspecified Ground Workings	1914 - 1921	366237
H	On site	Unspecified Tanks	1991	328465
I	On site	Chimney	1991	331694
J	On site	Unspecified Heap	1914 - 1921	342883
J	On site	Unspecified Heap	1949	344946
K	On site	Railway Sidings	1979	343807



ID	Location	Land use	Dates present	Group ID
K	On site	Unspecified Works	1965	369858
L	On site	Railway Sidings	1962 - 1969	344615
L	On site	Railway Sidings	1947	368145
M	On site	Railway Sidings	1875	350410
M	On site	Refuse Heap	1921 - 1938	379077
N	On site	Unspecified Pit	1949	351324
N	On site	Unspecified Pit	1914	374358
O	On site	Unspecified Heap	1991	367561
O	On site	Unspecified Heap	1965 - 1979	374120
P	On site	Unspecified Tank	1965 - 1979	372885
Q	On site	Unspecified Works	1979	375175
Q	On site	Unspecified Works	1991	379476
G	8m N	Unspecified Tanks	1965 - 1979	375597
G	8m N	Unspecified Tanks	1991	380118
T	8m N	Chimney	1991	331690
G	14m N	Unspecified Tanks	1965 - 1979	341286
G	14m N	Unspecified Tanks	1991	374866
G	17m N	Unspecified Tank	1965 - 1979	342148
G	17m N	Unspecified Tank	1991	362149
T	18m N	Chimney	1991	331689
U	20m W	Unspecified Tanks	1991	373454
W	20m S	Unspecified Commercial/Industrial	1991	331173
T	21m N	Unspecified Tank	1979	320068
W	29m S	Gas Holder	1991	328247
G	30m N	Unspecified Tanks	1965 - 1979	354621
G	30m N	Unspecified Tanks	1991	370377
G	36m N	Railway Building	1876	323920
G	40m N	Railway Building	1921	323919



ID	Location	Land use	Dates present	Group ID
Y	41m SE	Railway Sidings	1897 - 1914	354526
Y	41m SE	Railway Sidings	1947	364122
G	42m N	Unspecified Tanks	1991	328463
Y	48m SE	Railway Sidings	1921	358060
AA	50m N	Unspecified Tank	1979	320071
AA	50m N	Unspecified Tanks	1991	328411
AC	52m N	Unspecified Tank	1965	320076
G	53m N	Unspecified Tanks	1991	328464
X	55m NW	Unspecified Tanks	1979	350742
X	55m NW	Unspecified Tanks	1991	355378
AC	55m N	Unspecified Tanks	1979	347645
AC	55m N	Unspecified Tanks	1991	365302
33	56m NW	Refuse Heap	1979	368285
U	57m SW	Unspecified Tanks	1991	357045
AF	62m N	Pumping Station	1938	373801
AF	63m N	Pumping Station	1875	362983
AF	63m N	Pumping Station	1949	348103
AF	63m N	Pumping Station	1914 - 1921	368066
AE	66m NW	Pumping Station	1991	320521
U	67m SW	Unspecified Tanks	1991	328470
AG	68m S	Chimney	1991	331695
AI	75m W	Unspecified Heap	1914	343290
AI	75m W	Unspecified Heap	1949	344688
37	80m S	Unspecified Works	1969 - 1988	359341
AC	84m N	Unspecified Tank	1965 - 1979	358777
AC	84m N	Unspecified Tank	1991	366737
AJ	87m NE	Unspecified Tank	1979	355253
AJ	89m NE	Unspecified Tank	1991	340355



ID	Location	Land use	Dates present	Group ID
AD	90m SW	Unspecified Tanks	1991	328469
39	90m S	Railway Sidings	1989	337629
AK	107m N	Unspecified Tank	1965 - 1979	377076
AK	107m N	Unspecified Tank	1991	378266
41	111m NW	Refuse Heap	1965	338655
AL	124m N	Unspecified Tanks	1991	328449
AM	125m S	Unspecified Tank	1991	320070
44	144m NW	Refuse Heap	1938	346468
U	154m SW	Unspecified Tank	1991	320067
48	155m N	Railway Sidings	1949	378116
AL	160m N	Unspecified Tanks	1991	328450
50	163m W	Unspecified Pit	1914	335848
51	171m NW	Refuse Heap	1965	338656
AO	172m NW	Sludge Pond	1979	339749
52	175m NW	Refuse Heap	1938	355293
AO	188m NW	Sludge Pond	1991	364509
53	193m E	Coal Dump	1965 - 1979	347718
AQ	216m NE	Unspecified Tanks	1991	328461
AS	217m NW	Unspecified Ground Workings	1949 - 1965	376145
AQ	219m NE	Unspecified Tank	1965 - 1979	351725
54	223m N	Unspecified Heap	1979	327811
55	227m S	Unspecified Works	1969 - 1989	376489
AU	243m NE	Unspecified Tanks	1965 - 1979	341219
AU	243m NE	Unspecified Tanks	1991	358261
AW	255m E	Unspecified Tanks	1991	328460
AX	291m NW	Unspecified Works	1965	320959
AY	308m N	Unspecified Heap	1991	374499
AY	309m N	Unspecified Heap	1965 - 1979	359866



ID	Location	Land use	Dates present	Group ID
AZ	312m NW	Railway Sidings	1949	356709
AZ	317m NW	Railway Sidings	1914	355348
AZ	317m NW	Railway Sidings	1921	370952
59	319m NW	Mineral Railway Sidings	1875	380002
AS	320m NW	Unspecified Pit	1949	335845
BA	333m NW	Unspecified Tank	1991	320066
BD	351m E	Unspecified Tank	1991	320075
BE	359m E	Unspecified Workshop	1965	328772
BE	359m E	Unspecified Works	1979	368971
BE	360m E	Unspecified Works	1991	349721
BF	372m N	Unspecified Tanks	1991	328446
61	372m SE	Railway Sidings	1985 - 1989	378434
62	386m NE	Chimney	1991	331692
BI	391m N	Unspecified Tanks	1991	328448
BJ	406m N	Railway Buildings	1949	319169
BJ	415m N	Railway Buildings	1949	319171
63	418m SE	Mineral Railway Sidings	1989	332682
BK	419m NW	Unspecified Works	1979	349709
BK	419m NW	Unspecified Works	1991	351162
BJ	422m N	Railway Buildings	1949	319168
64	428m E	Railway Sidings	1949	364666
65	429m NE	Unspecified Ground Workings	1949	333239
BE	450m E	Unspecified Tanks	1991	367805
BE	451m E	Unspecified Tanks	1979	375155
BJ	453m N	Railway Buildings	1949	319170
BJ	458m N	Railway Buildings	1949	319166
BM	463m N	Unspecified Tank	1965 - 1979	377191
68	466m NW	Railway Sidings	1900	366947



ID	Location	Land use	Dates present	Group ID
69	471m N	Railway Sidings	1949	341318
70	474m NE	Pumping Station	1949	320527
71	477m NW	Refuse Heap	1938	351422
BE	482m E	Unspecified Tanks	1965	360413
72	485m N	Railway Sidings	1900	359869
73	487m N	Railway Sidings	1949	344971
BN	487m NW	Unspecified Tank	1979	357234
BN	487m NW	Unspecified Tank	1991	368861
74	488m N	Railway Sidings	1914 - 1921	352308

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

300

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

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

ID	Location	Land use	Dates present	Group ID
16	On site	Unspecified Tank	1974	38699
17	On site	Tanks	1974	39737
18	On site	Cooling Tank	1974	39931
19	On site	Unspecified Tank	1995	40167
20	On site	Tanks	1995	42081
21	On site	Unspecified Tank	1995	43465
22	On site	Unspecified Tank	1995	43859
A	On site	Tanks	1988	39738
A	On site	Unspecified Tank	1974	38686



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1963	38702
A	On site	Unspecified Tank	1963	38704
A	On site	Unspecified Tank	1993	38705
A	On site	Unspecified Tank	1963	38710
A	On site	Tanks	1962 - 1974	40021
A	On site	Unspecified Tank	1963 - 1993	40054
A	On site	Unspecified Tank	1988	40185
A	On site	Unspecified Tank	1963 - 1993	40338
A	On site	Tanks	1993	40528
A	On site	Unspecified Tank	1963 - 1993	40857
A	On site	Unspecified Tank	1963 - 1993	40891
A	On site	Tanks	1974	41189
A	On site	Tanks	1963	41870
A	On site	Unspecified Tank	1963 - 1988	42263
A	On site	Unspecified Tank	1962 - 1993	42728
A	On site	Unspecified Tank	1974 - 1993	42876
A	On site	Unspecified Tank	1963 - 1993	43453
A	On site	Unspecified Tank	1899 - 1918	43454
A	On site	Tanks	1962 - 1974	43846
A	On site	Unspecified Tank	1963 - 1993	44058
A	On site	Tanks	1962 - 1963	44332
A	On site	Unspecified Tank	1963 - 1993	44459
B	On site	Tanks	1993	39708
B	On site	Tanks	1993	39709
B	On site	Unspecified Tank	1993	38684
B	On site	Unspecified Tank	1878	38685
B	On site	Unspecified Tank	1993	38708
B	On site	Gasometer	1899 - 1918	40941



ID	Location	Land use	Dates present	Group ID
C	On site	Tanks	1983	39732
F	On site	Cooling Tank	1974	39930
F	On site	Tanks	1995	41651
F	On site	Tanks	1995	42655
F	On site	Tanks	1995	42920
G	On site	Tanks	1993	39710
G	On site	Tanks	1993	39711
G	On site	Unspecified Tank	1974	38683
G	On site	Tanks	1995	41481
G	On site	Tanks	1952	42896
G	On site	Tanks	1952	43177
G	On site	Tanks	1995	43203
G	On site	Unspecified Tank	1952	43529
G	On site	Unspecified Tank	1952	43639
H	On site	Unspecified Tank	1983 - 1999	41312
H	On site	Unspecified Tank	1983 - 1999	43281
I	On site	Unspecified Tank	1993	38703
M	On site	Unspecified Tank	1963	40088
M	On site	Unspecified Tank	1974	41034
M	On site	Unspecified Tank	1963	41038
M	On site	Unspecified Tank	1974	41432
M	On site	Unspecified Tank	1962	41286
M	On site	Unspecified Tank	1974	41750
M	On site	Unspecified Tank	1962	41753
M	On site	Unspecified Tank	1962	41978
M	On site	Unspecified Tank	1974	42170
M	On site	Unspecified Tank	1962	42189
M	On site	Unspecified Tank	1963	42636



ID	Location	Land use	Dates present	Group ID
M	On site	Unspecified Tank	1974	43218
M	On site	Unspecified Tank	1963	43971
M	On site	Unspecified Tank	1963	44392
M	On site	Unspecified Tank	1962	44721
P	On site	Unspecified Tank	1963	41561
P	On site	Unspecified Tank	1962 - 1974	42565
P	On site	Unspecified Tank	1988	44325
R	On site	Tanks	1993	39739
R	On site	Unspecified Tank	1963	38701
S	On site	Tanks	1963 - 1991	41998
S	On site	Unspecified Tank	1995	42319
24	3m N	Unspecified Tank	1974	38697
F	8m NW	Tanks	1962 - 1974	40275
F	8m NW	Tanks	1963	41423
F	8m NW	Tanks	1962 - 1974	43437
G	9m N	Unspecified Tank	1962 - 1974	44433
G	10m N	Unspecified Tank	1993	40346
G	15m N	Tanks	1974 - 1995	42687
25	15m NE	Unspecified Tank	1974 - 1993	44501
26	15m W	Tanks	1983 - 1993	41723
G	15m N	Unspecified Tank	1963	38707
G	15m N	Tanks	1962	40244
G	17m N	Unspecified Tank	1963	41795
G	17m N	Unspecified Tank	1962 - 1974	42958
27	20m W	Tanks	1993	39735
G	20m N	Tanks	1962 - 1995	41931
V	20m N	Tanks	1995	40258
G	20m N	Tanks	1974	42959



ID	Location	Land use	Dates present	Group ID
X	23m N	Unspecified Tank	1974	41117
X	23m N	Unspecified Tank	1995	41029
28	24m W	Tanks	1984 - 1993	42094
G	25m N	Tanks	1962 - 1995	43562
G	27m N	Unspecified Tank	1952 - 1963	44033
G	28m N	Unspecified Tank	1952	40194
G	28m N	Tanks	1993	43638
29	28m N	Tanks	1995	39736
G	28m N	Tanks	1962 - 1974	43820
W	30m S	Gas Holder	1991 - 1995	43101
W	31m S	Gas Holder	1984	42855
X	34m N	Unspecified Tank	1995	43903
G	35m N	Unspecified Tank	1962 - 1974	41067
G	36m N	Unspecified Tank	1993	42344
G	36m N	Unspecified Tank	1963	41917
V	37m N	Unspecified Tank	1995	43687
T	38m N	Tanks	1974	39725
X	39m NW	Unspecified Tank	1995	44010
31	40m SE	Unspecified Tank	1980	38721
X	43m NW	Unspecified Tank	1995	42910
32	44m NW	Unspecified Tank	1983	38698
Z	44m S	Unspecified Tank	1984 - 1995	40587
T	44m N	Unspecified Tank	1963	40942
T	44m N	Tanks	1974	39726
T	44m N	Unspecified Tank	1962	42096
G	46m N	Tanks	1993	39714
AA	46m N	Tanks	1974 - 1995	43005
Z	47m S	Unspecified Tank	1991	41376



ID	Location	Land use	Dates present	Group ID
X	47m NW	Tanks	1974	39727
AA	49m N	Unspecified Tank	1974 - 1995	43815
U	50m SW	Unspecified Tank	1993	42628
G	51m N	Unspecified Tank	1962 - 1974	43656
U	51m SW	Unspecified Tank	1984	42923
G	53m N	Unspecified Tank	1952	38706
AC	53m N	Tanks	1995	43773
AD	54m SW	Tanks	1991	44080
AC	54m N	Unspecified Tank	1952 - 1963	41786
AC	54m N	Unspecified Tank	1952 - 1974	41980
AD	54m SW	Tanks	1984	41135
X	54m NW	Unspecified Tank	1995	41942
X	55m NW	Unspecified Tank	1995	39962
X	55m NW	Unspecified Tank	1974	44149
X	55m NW	Unspecified Tank	1974	43567
G	55m N	Unspecified Tank	1952	39950
G	55m N	Unspecified Tank	1952	39951
G	55m N	Unspecified Tank	1952 - 1963	43938
AD	55m SW	Unspecified Tank	1995	42023
G	56m N	Tanks	1995	44173
X	57m NW	Unspecified Tank	1995	42888
X	57m NW	Unspecified Tank	1974	42361
AC	59m N	Tanks	1974	41521
35	59m NE	Unspecified Tank	1993	38681
AE	61m NW	Unspecified Tank	1993	38695
X	62m NW	Unspecified Tank	1974	40610
AC	62m N	Unspecified Tank	1995	41425
G	64m N	Unspecified Tank	1952	38709



ID	Location	Land use	Dates present	Group ID
U	66m SW	Unspecified Tank	1993	38718
U	66m SW	Tanks	1984	41021
U	66m SW	Unspecified Tank	1993	42393
U	66m SW	Unspecified Tank	1984 - 1993	40427
G	67m N	Unspecified Tank	1974	39938
G	67m N	Unspecified Tank	1995	39955
G	67m N	Unspecified Tank	1995	39956
36	68m S	Tanks	1995	43347
U	68m SW	Unspecified Tank	1984	41737
AA	70m N	Tanks	1995	41566
AG	70m S	Tanks	1991	41989
AG	71m S	Tanks	1984	40096
AG	72m S	Tanks	1995	40972
AA	73m N	Unspecified Tank	1995	42987
AD	77m SW	Tanks	1991 - 1995	44677
AD	77m SW	Tanks	1984	40526
AG	79m S	Tanks	1984	43558
AD	81m SW	Tanks	1984	42212
U	81m SW	Tanks	1991 - 1995	43471
AD	81m SW	Tanks	1995	41716
AD	81m SW	Tanks	1991	43816
AD	82m SW	Tanks	1984	40374
W	82m S	Unspecified Tank	1995	40911
X	82m NW	Unspecified Tank	1995	42364
D	84m NE	Unspecified Tank	1974	38682
AF	85m N	Unspecified Tank	1940	38689
AC	85m N	Unspecified Tank	1952 - 1962	44497
AC	86m N	Unspecified Tank	1952 - 1963	41582



ID	Location	Land use	Dates present	Group ID
AC	86m N	Unspecified Tank	1995	42267
AD	88m SW	Tanks	1991 - 1995	42791
AJ	88m NE	Unspecified Tank	1974 - 1993	42316
38	88m N	Unspecified Tank	1995	43650
AD	88m SW	Tanks	1984	41847
AD	88m SW	Tanks	1984	44608
U	93m SW	Unspecified Tank	1984 - 1991	41214
U	94m SW	Unspecified Tank	1995	44308
U	96m SW	Unspecified Tank	1984 - 1993	40951
U	98m SW	Unspecified Tank	1984	38719
AD	102m SW	Unspecified Tank	1991 - 1995	44386
AD	103m SW	Tanks	1984	39733
U	103m SW	Unspecified Tank	1984 - 1991	41195
U	104m SW	Unspecified Tank	1995	41288
AK	104m N	Unspecified Tank	1962 - 1974	40084
AK	104m N	Unspecified Tank	1963	44212
AE	105m NW	Unspecified Tank	1993	38694
AK	105m N	Unspecified Tank	1995	44152
U	107m SW	Unspecified Tank	1984	38720
U	109m SW	Unspecified Tank	1991	41300
U	109m SW	Unspecified Tank	1984 - 1995	43524
AI	115m W	Unspecified Tank	1993	38700
AD	120m SW	Tanks	1984	44144
AD	120m SW	Tanks	1995	40381
42	122m N	Unspecified Tank	1952	44098
AL	122m N	Unspecified Tank	1962 - 1995	41108
43	122m NE	Tanks	1993	39715
AD	123m SW	Tanks	1984	40250



ID	Location	Land use	Dates present	Group ID
AL	124m N	Unspecified Tank	1995	42925
U	125m SW	Tanks	1984 - 1995	44247
AM	126m S	Unspecified Tank	1995	41472
AD	127m SW	Tanks	1984	40516
AM	127m S	Unspecified Tank	1984 - 1991	43781
AD	128m SW	Unspecified Tank	1995	42051
AL	137m N	Unspecified Tank	1995	42099
AN	142m NE	Tanks	1993	39712
AL	145m N	Tanks	1995	42325
45	148m NW	Unspecified Tank	1963	38696
46	151m N	Unspecified Tank	1952	41751
47	151m SE	Unspecified Tank	1963 - 1980	39978
AL	156m N	Unspecified Tank	1962 - 1963	42378
AL	157m N	Tanks	1995	40143
49	158m NW	Unspecified Tank	1963	38693
AN	166m NE	Tanks	1993	39713
AP	176m NE	Unspecified Tank	1952	40416
AP	176m NE	Unspecified Tank	1952	40411
AP	183m NE	Unspecified Tank	1952	42505
AQ	202m NE	Unspecified Tank	1964	38671
AQ	216m NE	Tanks	1991	43888
AQ	217m NE	Unspecified Tank	1991 - 1995	40825
AQ	218m NE	Unspecified Tank	1951	42006
AQ	219m NE	Tanks	1991	39706
AT	220m E	Unspecified Tank	1991	38679
AQ	221m NE	Unspecified Tank	1951 - 1969	41695
AQ	221m NE	Unspecified Tank	1951 - 1969	41509
AQ	222m NE	Tanks	1969	42545



ID	Location	Land use	Dates present	Group ID
AQ	222m NE	Tanks	1964 - 1969	42236
AQ	222m NE	Tanks	1964 - 1969	41587
AQ	223m NE	Tanks	1969	42377
AQ	223m NE	Tanks	1964 - 1969	42622
AQ	225m NE	Tanks	1964 - 1969	42113
AT	228m E	Unspecified Tank	1951	43574
AQ	229m NE	Unspecified Tank	1969	43242
AQ	229m NE	Tanks	1960 - 1969	40267
AQ	230m NE	Tanks	1960 - 1964	40847
AT	231m E	Tanks	1969	44044
AQ	232m NE	Unspecified Tank	1991 - 1995	43855
AQ	235m NE	Tanks	1991	42366
AQ	236m NE	Tanks	1991	40789
AQ	241m NE	Unspecified Tank	1991	38672
AU	242m NE	Tanks	1960 - 1969	41492
AU	242m NE	Tanks	1991 - 1995	40846
AV	249m N	Unspecified Tank	1962 - 1963	40980
AW	253m E	Tanks	1991	39707
56	256m NE	Unspecified Tank	1952 - 1993	41037
57	260m N	Unspecified Tank	1962	38687
AV	276m N	Unspecified Tank	1952	41321
58	288m N	Unspecified Tank	1952	38688
AV	299m N	Unspecified Tank	1952	43576
BA	326m NW	Unspecified Tank	1978 - 1993	42744
BB	328m N	Tanks	1978	40885
BB	328m N	Tanks	1991	40058
BA	337m NW	Tanks	1978 - 1993	40335
BC	348m S	Unspecified Tank	1962 - 1985	41700



ID	Location	Land use	Dates present	Group ID
AX	349m NW	Tanks	1978	39728
BD	349m E	Unspecified Tank	1991	38680
BC	351m S	Unspecified Tank	1992	38722
AX	351m NW	Tanks	1978	39730
60	352m N	Unspecified Tank	1952	43232
AX	352m NW	Tanks	1978	39729
BA	363m NW	Unspecified Tank	1978	38692
BF	376m N	Tanks	1995	40161
AX	378m NW	Tanks	1978	39731
BI	396m N	Tanks	1962 - 1995	43276
BJ	408m N	Unspecified Tank	1952	43277
BJ	414m N	Unspecified Tank	1993	38559
BH	435m E	Unspecified Tank	1993	38716
BE	450m E	Unspecified Tank	1995	42484
BE	451m E	Unspecified Tank	1980 - 1995	40734
BE	452m E	Unspecified Tank	1980 - 1995	41415
BE	452m E	Unspecified Tank	1980 - 1995	42162
67	463m N	Unspecified Tank	1962	38670
BM	465m N	Unspecified Tank	1962 - 1963	41536
BE	475m E	Unspecified Tank	1963 - 1990	43967
BE	477m E	Unspecified Tank	1980 - 1995	41429
BE	479m E	Tanks	1980 - 1990	43489
BE	480m E	Tanks	1980 - 1990	40191
BE	480m E	Unspecified Tank	1980	38717
BE	481m E	Tanks	1963	43115
BE	481m E	Tanks	1963	39689
BE	481m E	Tanks	1963	44637
BE	485m E	Unspecified Tank	1980	38715



ID	Location	Land use	Dates present	Group ID
BN	487m NW	Unspecified Tank	1993	42930
BK	487m NW	Tanks	1993	40284
BN	487m NW	Unspecified Tank	1977	44081
BK	488m NW	Tanks	1977	40396
BN	489m NW	Unspecified Tank	1981	41717
BK	489m NW	Unspecified Tanks	1981	39166
BK	492m NW	Tanks	1977	43548
BE	495m E	Unspecified Tank	1980 - 1990	41417
BE	496m E	Unspecified Tank	1980	38714
BE	496m E	Tanks	1963	39688
BE	499m E	Unspecified Tank	1980	38713

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

33

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

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

ID	Location	Land use	Dates present	Group ID
23	On site	Electricity Substation	1984	19313
B	On site	Gasometer	1899 - 1918	20724
C	On site	Electricity Substation	1983	19300
H	On site	Electricity Substation	1983	19295
W	30m S	Gas Holder	1991 - 1995	23049
30	31m S	Electricity Substation	1985 - 1992	20704
W	31m S	Gas Holder	1984	21098



ID	Location	Land use	Dates present	Group ID
AB	46m S	Electricity Substation	1995	20629
AB	46m S	Electricity Substation	1984 - 1991	21582
34	59m NW	Electricity Substation	1983	19294
AH	74m S	Electricity Substation	1991 - 1995	21940
AH	75m S	Electricity Substation	1984	20147
40	95m S	Electricity Substation	1984 - 1995	21768
U	110m SW	Electricity Substation	1995	22401
U	119m SW	Electricity Substation	1984 - 1991	20489
E	139m SW	Electricity Substation	1984 - 1995	20556
E	140m SW	Electricity Substation	1991	22510
AD	161m SW	Electricity Substation	1995	22824
AD	161m SW	Electricity Substation	1984 - 1991	22841
AR	204m SE	Electricity Substation	1990	21976
AR	206m SE	Electricity Substation	1995	23487
BB	328m N	Electricity Substation	1978	19292
BG	379m E	Electricity Substation	1980	20463
BG	379m E	Electricity Substation	1990 - 1995	22183
BH	385m E	Electricity Substation	1995	22402
BG	403m E	Electricity Substation	1991	19305
BG	406m E	Electricity Substation	1989	20890
66	429m NW	Electricity Substation	1978	23376
BL	454m NE	Electricity Transmission Station	1962 - 1969	22606
BL	454m NE	Electricity Substation	1951 - 1995	20964
BL	455m NE	Electricity Substation	1951 - 1991	21802
BN	477m NW	Electricity Substation	1977 - 1981	21125
75	496m E	Electricity Substation	1980	23449

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

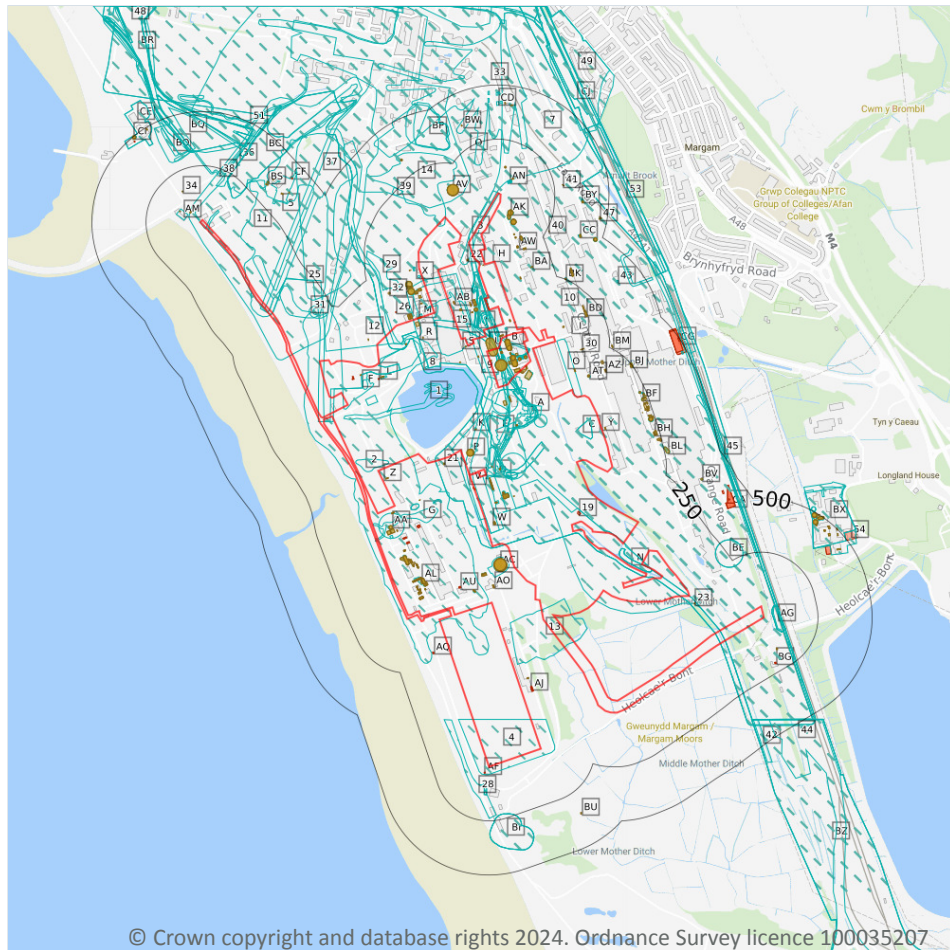
Records within 500m**0**

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
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

213

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 35](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Ground Workings	1914	333235
2	On site	Unspecified Heap	1914	327813
3	On site	Railway Sidings	1949	371428



ID	Location	Land Use	Date	Group ID
4	On site	Unspecified Works	1989	320960
5	On site	Unspecified Disused Workings	1991	328766
6	On site	Cuttings	1991	336805
7	On site	Mineral Railway Sidings	1938	373172
8	On site	Pumping Station	1991	320520
9	On site	Pumping Station	1991	320519
10	On site	Railway Sidings	1991	357464
11	On site	Refuse Heap	1979	318551
12	On site	Refuse Heap	1979	374276
13	On site	Disused Rifle Range	1965	328150
14	On site	Refuse Heap	1965	338654
15	On site	Refuse Heap	1965	338658
A	On site	Unspecified Ground Workings	1949	333238
A	On site	Unspecified Tanks	1991	328466
A	On site	Railway Sidings	1938	357894
A	On site	Railway Sidings	1875	350621
A	On site	Railway Sidings	1875	350621
A	On site	Colliery	1900	346147
A	On site	Unspecified Pit	1900	347180
A	On site	Unspecified Tank	1921	320074
A	On site	Unspecified Commercial/Industrial	1921	331174
A	On site	Unspecified Pit	1921	339867
A	On site	Mineral Railway Sidings	1876	343864
A	On site	Unspecified Tanks	1876	328467
A	On site	Colliery	1876	346147
A	On site	Unspecified Heap	1876	358649
A	On site	Unspecified Heap	1876	327814
A	On site	Refuse Heap	1876	338678



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Pit	1876	347180
A	On site	Unspecified Shaft	1876	322543
A	On site	Unspecified Pit	1914	356088
B	On site	Unspecified Ground Workings	1949	357217
B	On site	Unspecified Ground Workings	1914	366237
B	On site	Mineral Railway Sidings	1914	358375
B	On site	Unspecified Tanks	1991	328462
B	On site	Chimney	1991	331693
B	On site	Railway Sidings	1900	360608
B	On site	Mineral Railway Sidings	1921	358375
B	On site	Unspecified Ground Workings	1921	366237
C	On site	Unspecified Pit	1949	351324
C	On site	Unspecified Pit	1914	374358
D	On site	Unspecified Ground Workings	1914	333237
D	On site	Unspecified Pit	1914	356455
D	On site	Unspecified Heap	1914	354837
D	On site	Unspecified Pit	1900	359315
D	On site	Chimney	1991	362732
D	On site	Unspecified Tank	1991	320072
D	On site	Unspecified Tanks	1991	348557
D	On site	Unspecified Heap	1921	354837
D	On site	Unspecified Pit	1921	356455
D	On site	Unspecified Tank	1876	320073
D	On site	Unspecified Tanks	1979	360565
D	On site	Chimney	1965	346114
D	On site	Unspecified Tanks	1965	360565
E	On site	Unspecified Heap	1949	344946
E	On site	Unspecified Heap	1914	342883



ID	Location	Land Use	Date	Group ID
E	On site	Unspecified Heap	1921	342883
F	On site	Unspecified Heap	1914	327812
F	On site	Refuse Heap	1965	356813
G	On site	Unspecified Heap	1914	327821
H	On site	Unspecified Works	1991	379476
H	On site	Unspecified Works	1979	375175
I	On site	Unspecified Works	1965	369858
I	On site	Railway Sidings	1979	343807
J	On site	Refuse Heap	1938	379077
J	On site	Railway Sidings	1875	350410
J	On site	Railway Sidings	1875	350410
J	On site	Refuse Heap	1921	379077
K	On site	Chimney	1991	331694
L	On site	Unspecified Tanks	1991	328465
M	On site	Unspecified Tanks	1991	328410
N	On site	Unspecified Heap	1991	367561
N	On site	Unspecified Heap	1979	374120
N	On site	Unspecified Heap	1965	374120
O	On site	Unspecified Heap	1991	327818
P	On site	Unspecified Tank	1979	372885
P	On site	Unspecified Tank	1965	372885
Q	On site	Railway Sidings	1965	344615
B	8m N	Unspecified Tanks	1991	380118
B	8m N	Unspecified Tanks	1979	375597
B	8m N	Unspecified Tanks	1965	375597
X	8m N	Chimney	1991	331690
B	14m N	Unspecified Tanks	1991	374866
B	14m N	Unspecified Tanks	1979	341286



ID	Location	Land Use	Date	Group ID
B	14m N	Unspecified Tanks	1965	341286
B	17m N	Unspecified Tank	1991	362149
B	17m N	Unspecified Tank	1979	342148
B	17m N	Unspecified Tank	1965	342148
X	18m N	Chimney	1991	331689
AA	20m W	Unspecified Tanks	1991	373454
AC	20m S	Unspecified Commercial/Industrial	1991	331173
X	21m N	Unspecified Tank	1979	320068
AC	29m S	Gas Holder	1991	328247
B	30m N	Unspecified Tanks	1991	370377
B	30m N	Unspecified Tanks	1979	354621
B	30m N	Unspecified Tanks	1965	354621
B	36m N	Railway Building	1876	323920
B	40m N	Railway Building	1921	323919
AG	41m SE	Railway Sidings	1947	364122
AG	41m SE	Railway Sidings	1914	354526
AG	41m SE	Railway Sidings	1897	354526
B	42m N	Unspecified Tanks	1991	328463
AG	48m SE	Railway Sidings	1921	358060
AI	50m N	Unspecified Tanks	1991	328411
AI	50m N	Unspecified Tank	1979	320071
AK	52m N	Unspecified Tank	1965	320076
B	53m N	Unspecified Tanks	1991	328464
AD	55m NW	Unspecified Tanks	1991	355378
AD	55m NW	Unspecified Tanks	1979	350742
AK	55m N	Unspecified Tanks	1991	365302
AK	55m N	Unspecified Tanks	1979	347645
25	56m NW	Refuse Heap	1979	368285



ID	Location	Land Use	Date	Group ID
AA	57m SW	Unspecified Tanks	1991	357045
AN	62m N	Pumping Station	1938	373801
AN	63m N	Pumping Station	1875	362983
AN	63m N	Pumping Station	1875	362983
AN	63m N	Pumping Station	1949	348103
AN	63m N	Pumping Station	1914	368066
AN	63m N	Pumping Station	1921	368066
AM	66m NW	Pumping Station	1991	320521
AA	67m SW	Unspecified Tanks	1991	328470
AP	68m S	Chimney	1991	331695
AR	75m W	Unspecified Heap	1949	344688
AR	75m W	Unspecified Heap	1914	343290
AS	80m S	Unspecified Works	1988	359341
AS	80m S	Unspecified Works	1969	359341
AK	84m N	Unspecified Tank	1991	366737
AK	84m N	Unspecified Tank	1979	358777
AK	84m N	Unspecified Tank	1965	358777
AT	87m NE	Unspecified Tank	1979	355253
AT	89m NE	Unspecified Tank	1991	340355
AL	90m SW	Unspecified Tanks	1991	328469
28	90m S	Railway Sidings	1989	337629
AV	107m N	Unspecified Tank	1991	378266
AV	107m N	Unspecified Tank	1979	377076
AV	107m N	Unspecified Tank	1965	377076
29	111m NW	Refuse Heap	1965	338655
AW	124m N	Unspecified Tanks	1991	328449
AY	125m S	Unspecified Tank	1991	320070
31	144m NW	Refuse Heap	1938	346468



ID	Location	Land Use	Date	Group ID
AA	154m SW	Unspecified Tank	1991	320067
33	155m N	Railway Sidings	1949	378116
AW	160m N	Unspecified Tanks	1991	328450
35	163m W	Unspecified Pit	1914	335848
36	171m NW	Refuse Heap	1965	338656
BC	172m NW	Sludge Pond	1979	339749
37	175m NW	Refuse Heap	1938	355293
BC	188m NW	Sludge Pond	1991	364509
BE	193m E	Coal Dump	1979	347718
BE	193m E	Coal Dump	1965	347718
BF	216m NE	Unspecified Tanks	1991	328461
38	217m NW	Unspecified Ground Workings	1949	376145
BF	219m NE	Unspecified Tank	1979	351725
BF	219m NE	Unspecified Tank	1965	351725
39	223m N	Unspecified Heap	1979	327811
BI	227m S	Unspecified Works	1988	376489
BI	227m S	Unspecified Works	1969	376489
BI	227m S	Unspecified Works	1989	376489
BJ	243m NE	Unspecified Tanks	1991	358261
BJ	243m NE	Unspecified Tanks	1979	341219
BJ	243m NE	Unspecified Tanks	1965	341219
BL	255m E	Unspecified Tanks	1991	328460
BN	291m NW	Unspecified Works	1965	320959
BO	297m NW	Unspecified Ground Workings	1965	376145
BP	308m N	Unspecified Heap	1991	374499
BP	309m N	Unspecified Heap	1965	359866
BQ	312m NW	Railway Sidings	1949	356709
BP	312m N	Unspecified Heap	1979	359866



ID	Location	Land Use	Date	Group ID
BQ	317m NW	Railway Sidings	1914	355348
BQ	317m NW	Railway Sidings	1921	370952
BR	319m NW	Mineral Railway Sidings	1875	380002
BR	319m NW	Mineral Railway Sidings	1875	380002
BO	320m NW	Unspecified Pit	1949	335845
BS	333m NW	Unspecified Tank	1991	320066
BV	351m E	Unspecified Tank	1991	320075
BX	359m E	Unspecified Works	1979	368971
BX	359m E	Unspecified Workshop	1965	328772
BX	360m E	Unspecified Works	1991	349721
BY	372m N	Unspecified Tanks	1991	328446
BZ	372m SE	Railway Sidings	1988	378434
BZ	372m SE	Railway Sidings	1962	344615
BZ	372m SE	Railway Sidings	1969	344615
42	376m SE	Railway Sidings	1989	378434
43	386m NE	Chimney	1991	331692
CC	391m N	Unspecified Tanks	1991	328448
CD	406m N	Railway Buildings	1949	319169
CD	415m N	Railway Buildings	1949	319171
44	418m SE	Mineral Railway Sidings	1989	332682
CE	419m NW	Unspecified Works	1991	351162
CE	419m NW	Unspecified Works	1979	349709
CD	422m N	Railway Buildings	1949	319168
45	428m E	Railway Sidings	1949	364666
46	429m NE	Unspecified Ground Workings	1949	333239
BX	450m E	Unspecified Tanks	1991	367805
BX	451m E	Unspecified Tanks	1979	375155
CD	453m N	Railway Buildings	1949	319170



ID	Location	Land Use	Date	Group ID
CD	458m N	Railway Buildings	1949	319166
CH	463m N	Unspecified Tank	1979	377191
CH	463m N	Unspecified Tank	1965	377191
48	466m NW	Railway Sidings	1900	366947
49	471m N	Railway Sidings	1949	341318
50	474m NE	Pumping Station	1949	320527
51	477m NW	Refuse Heap	1938	351422
BX	482m E	Unspecified Tanks	1965	360413
52	485m N	Railway Sidings	1900	359869
53	487m N	Railway Sidings	1949	344971
CI	487m NW	Unspecified Tank	1991	368861
CI	487m NW	Unspecified Tank	1979	357234
CJ	488m N	Railway Sidings	1914	352308
CJ	488m N	Railway Sidings	1921	352308

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

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

Features are displayed on the Past land use - un-grouped map on [page 35 >](#)

ID	Location	Land Use	Date	Group ID
16	On site	Unspecified Tank	1974	38699
17	On site	Cooling Tank	1974	39931
18	On site	Tanks	1974	39737
A	On site	Unspecified Tank	1878	38685
A	On site	Gasometer	1899	40941
A	On site	Gasometer	1918	40941



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1993	38684
A	On site	Unspecified Tank	1993	38708
A	On site	Tanks	1993	39709
A	On site	Tanks	1993	39708
B	On site	Tanks	1995	43203
B	On site	Tanks	1995	41481
B	On site	Unspecified Tank	1974	38683
B	On site	Tanks	1952	42896
B	On site	Tanks	1952	43177
B	On site	Unspecified Tank	1952	43639
B	On site	Tanks	1952	42896
B	On site	Tanks	1952	43177
B	On site	Unspecified Tank	1952	43529
B	On site	Tanks	1993	39711
B	On site	Tanks	1993	39710
B	On site	Tanks	1995	41481
B	On site	Tanks	1995	43203
D	On site	Unspecified Tank	1899	43454
D	On site	Unspecified Tank	1918	43454
D	On site	Tanks	1974	40021
D	On site	Tanks	1974	43846
D	On site	Tanks	1974	41189
D	On site	Unspecified Tank	1974	42728
D	On site	Unspecified Tank	1974	42876
D	On site	Unspecified Tank	1974	38686
D	On site	Tanks	1962	43846
D	On site	Unspecified Tank	1962	42728
D	On site	Tanks	1962	44332



ID	Location	Land Use	Date	Group ID
D	On site	Tanks	1962	40021
D	On site	Unspecified Tank	1963	38704
D	On site	Unspecified Tank	1963	38702
D	On site	Unspecified Tank	1963	44459
D	On site	Unspecified Tank	1963	40338
D	On site	Unspecified Tank	1963	43453
D	On site	Unspecified Tank	1963	44058
D	On site	Unspecified Tank	1963	40054
D	On site	Unspecified Tank	1963	40857
D	On site	Unspecified Tank	1963	40891
D	On site	Unspecified Tank	1963	42263
D	On site	Tanks	1963	41870
D	On site	Tanks	1963	44332
D	On site	Unspecified Tank	1963	38710
D	On site	Unspecified Tank	1988	40185
D	On site	Tanks	1988	39738
D	On site	Unspecified Tank	1988	42263
D	On site	Unspecified Tank	1993	38705
D	On site	Unspecified Tank	1993	40891
D	On site	Unspecified Tank	1993	40857
D	On site	Unspecified Tank	1993	40054
D	On site	Unspecified Tank	1993	44058
D	On site	Unspecified Tank	1993	43453
D	On site	Unspecified Tank	1993	40338
D	On site	Unspecified Tank	1993	44459
D	On site	Unspecified Tank	1993	42728
D	On site	Tanks	1993	40528
D	On site	Unspecified Tank	1993	42876



ID	Location	Land Use	Date	Group ID
F	On site	Tanks	1983	39732
J	On site	Unspecified Tank	1974	41034
J	On site	Unspecified Tank	1974	41750
J	On site	Unspecified Tank	1974	42170
J	On site	Unspecified Tank	1974	41432
J	On site	Unspecified Tank	1974	43218
J	On site	Unspecified Tank	1962	41286
J	On site	Unspecified Tank	1962	42189
J	On site	Unspecified Tank	1962	44721
J	On site	Unspecified Tank	1962	41753
J	On site	Unspecified Tank	1962	41978
J	On site	Unspecified Tank	1963	42636
J	On site	Unspecified Tank	1963	41038
J	On site	Unspecified Tank	1963	44392
J	On site	Unspecified Tank	1963	40088
J	On site	Unspecified Tank	1963	43971
K	On site	Unspecified Tank	1993	38703
L	On site	Unspecified Tank	1983	41312
L	On site	Unspecified Tank	1983	43281
L	On site	Unspecified Tank	1999	43281
L	On site	Unspecified Tank	1999	41312
M	On site	Tanks	1995	41651
M	On site	Tanks	1995	42655
M	On site	Cooling Tank	1974	39930
M	On site	Tanks	1995	42920
P	On site	Unspecified Tank	1974	42565
P	On site	Unspecified Tank	1962	42565
P	On site	Unspecified Tank	1963	41561



ID	Location	Land Use	Date	Group ID
P	On site	Unspecified Tank	1988	44325
R	On site	Unspecified Tank	1995	43859
R	On site	Unspecified Tank	1995	43859
S	On site	Unspecified Tank	1995	40167
S	On site	Unspecified Tank	1995	40167
T	On site	Unspecified Tank	1995	43465
T	On site	Unspecified Tank	1995	43465
U	On site	Tanks	1995	42081
U	On site	Tanks	1995	42081
V	On site	Unspecified Tank	1963	38701
V	On site	Tanks	1993	39739
W	On site	Tanks	1984	41998
W	On site	Tanks	1963	41998
W	On site	Tanks	1991	41998
W	On site	Tanks	1991	41998
W	On site	Unspecified Tank	1995	42319
W	On site	Unspecified Tank	1995	42319
20	3m N	Unspecified Tank	1974	38697
M	8m NW	Tanks	1974	40275
M	8m NW	Tanks	1963	41423
M	8m NW	Tanks	1974	43437
M	8m NW	Tanks	1962	43437
M	8m NW	Tanks	1962	40275
B	9m N	Unspecified Tank	1963	44433
B	10m N	Unspecified Tank	1993	40346
B	10m N	Unspecified Tank	1974	44433
B	10m N	Unspecified Tank	1962	44433
B	15m N	Tanks	1995	42687



ID	Location	Land Use	Date	Group ID
B	15m N	Tanks	1995	42687
Y	15m NE	Unspecified Tank	1993	44501
B	15m N	Unspecified Tank	1963	38707
B	15m N	Tanks	1962	40244
Y	15m NE	Unspecified Tank	1974	44501
Z	15m W	Tanks	1993	41723
B	16m N	Tanks	1974	42687
Z	16m W	Tanks	1983	41723
B	17m N	Unspecified Tank	1963	41795
B	17m N	Unspecified Tank	1974	42958
B	17m N	Unspecified Tank	1962	42958
21	20m W	Tanks	1993	39735
B	20m N	Tanks	1995	41931
B	20m N	Tanks	1995	41931
B	20m N	Tanks	1963	41931
B	20m N	Tanks	1962	41931
AB	20m N	Tanks	1995	40258
AB	20m N	Tanks	1995	40258
B	20m N	Tanks	1974	42959
AD	23m N	Unspecified Tank	1974	41117
AD	23m N	Unspecified Tank	1995	41029
AD	23m N	Unspecified Tank	1995	41029
AE	24m W	Tanks	1984	42094
AE	24m W	Tanks	1993	42094
B	25m N	Tanks	1995	43562
B	25m N	Tanks	1995	43562
B	25m N	Tanks	1963	43562
B	25m N	Tanks	1962	43562



ID	Location	Land Use	Date	Group ID
B	26m N	Tanks	1974	43562
B	27m N	Unspecified Tank	1952	44033
B	27m N	Unspecified Tank	1963	44033
B	28m N	Unspecified Tank	1952	40194
B	28m N	Tanks	1993	43638
22	28m N	Tanks	1995	39736
B	28m N	Tanks	1974	43820
B	28m N	Tanks	1962	43820
AC	30m S	Gas Holder	1991	43101
AC	30m S	Gas Holder	1991	43101
AC	31m S	Gas Holder	1984	42855
AC	32m S	Gas Holder	1995	43101
AC	32m S	Gas Holder	1995	43101
AD	34m N	Unspecified Tank	1995	43903
AD	34m N	Unspecified Tank	1995	43903
B	35m N	Unspecified Tank	1963	41067
B	36m N	Unspecified Tank	1993	42344
B	36m N	Unspecified Tank	1974	41067
B	36m N	Unspecified Tank	1962	41067
B	36m N	Unspecified Tank	1963	41917
AB	37m N	Unspecified Tank	1995	43687
AB	37m N	Unspecified Tank	1995	43687
X	38m N	Tanks	1974	39725
AD	39m NW	Unspecified Tank	1995	44010
AD	39m NW	Unspecified Tank	1995	44010
23	40m SE	Unspecified Tank	1980	38721
AD	43m NW	Unspecified Tank	1995	42910
AD	43m NW	Unspecified Tank	1995	42910



ID	Location	Land Use	Date	Group ID
24	44m NW	Unspecified Tank	1983	38698
AH	44m S	Unspecified Tank	1995	40587
AH	44m S	Unspecified Tank	1995	40587
X	44m N	Unspecified Tank	1963	40942
X	44m N	Tanks	1974	39726
X	44m N	Unspecified Tank	1962	42096
AH	45m S	Unspecified Tank	1984	40587
B	46m N	Tanks	1993	39714
AI	46m N	Tanks	1995	43005
AI	46m N	Tanks	1995	43005
AI	46m N	Tanks	1974	43005
AH	47m S	Unspecified Tank	1991	41376
AH	47m S	Unspecified Tank	1991	41376
AD	47m NW	Tanks	1974	39727
AI	49m N	Unspecified Tank	1974	43815
AI	49m N	Unspecified Tank	1995	43815
AI	49m N	Unspecified Tank	1995	43815
AA	50m SW	Unspecified Tank	1993	42628
B	51m N	Unspecified Tank	1974	43656
B	51m N	Unspecified Tank	1962	43656
AA	51m SW	Unspecified Tank	1984	42923
B	53m N	Unspecified Tank	1952	38706
AK	53m N	Tanks	1995	43773
AL	54m SW	Tanks	1991	44080
AL	54m SW	Tanks	1991	44080
AK	54m N	Unspecified Tank	1952	41786
AK	54m N	Unspecified Tank	1963	41786
AK	54m N	Unspecified Tank	1974	41980



ID	Location	Land Use	Date	Group ID
AK	54m N	Unspecified Tank	1952	41980
AK	54m N	Unspecified Tank	1962	41980
AL	54m SW	Tanks	1984	41135
AD	54m NW	Unspecified Tank	1995	41942
AD	55m NW	Unspecified Tank	1995	39962
AD	55m NW	Unspecified Tank	1995	39962
AD	55m NW	Unspecified Tank	1974	44149
AD	55m NW	Unspecified Tank	1974	43567
B	55m N	Unspecified Tank	1952	39950
B	55m N	Unspecified Tank	1952	43938
B	55m N	Unspecified Tank	1963	43938
AL	55m SW	Unspecified Tank	1995	42023
AL	55m SW	Unspecified Tank	1995	42023
B	56m N	Tanks	1995	44173
B	56m N	Tanks	1995	44173
AD	57m NW	Unspecified Tank	1995	42888
AD	57m NW	Unspecified Tank	1995	42888
AD	57m NW	Unspecified Tank	1974	42361
AK	59m N	Tanks	1974	41521
27	59m NE	Unspecified Tank	1993	38681
AM	61m NW	Unspecified Tank	1993	38695
AK	61m N	Unspecified Tank	1962	41980
AK	61m N	Unspecified Tank	1962	41980
AK	61m N	Unspecified Tank	1952	41980
AD	62m NW	Unspecified Tank	1974	40610
AD	62m NW	Unspecified Tank	1995	41942
AD	62m NW	Unspecified Tank	1995	41942
AK	62m N	Unspecified Tank	1995	41425



ID	Location	Land Use	Date	Group ID
AK	62m N	Unspecified Tank	1995	41425
B	64m N	Unspecified Tank	1952	38709
AA	66m SW	Unspecified Tank	1993	38718
AA	66m SW	Tanks	1984	41021
AA	66m SW	Unspecified Tank	1993	42393
AA	66m SW	Unspecified Tank	1993	40427
B	67m N	Unspecified Tank	1974	39938
B	67m N	Unspecified Tank	1952	39951
B	67m N	Unspecified Tank	1995	39955
B	67m N	Unspecified Tank	1995	39956
AA	67m W	Unspecified Tank	1984	40427
AO	68m S	Tanks	1995	43347
AO	68m S	Tanks	1995	43347
AA	68m SW	Unspecified Tank	1984	41737
AI	70m N	Tanks	1995	41566
AI	70m N	Tanks	1995	41566
AP	70m S	Tanks	1991	41989
AP	70m S	Tanks	1991	41989
AP	71m S	Tanks	1984	40096
AP	72m S	Tanks	1995	40972
AP	72m S	Tanks	1995	40972
AI	73m N	Unspecified Tank	1995	42987
AI	73m N	Unspecified Tank	1995	42987
AL	77m SW	Tanks	1991	44677
AL	77m SW	Tanks	1991	44677
AL	77m SW	Tanks	1984	40526
AL	78m SW	Tanks	1995	44677
AL	78m SW	Tanks	1995	44677

ID	Location	Land Use	Date	Group ID
AP	79m S	Tanks	1984	43558
AL	81m SW	Tanks	1984	42212
AA	81m SW	Tanks	1991	43471
AA	81m SW	Tanks	1991	43471
AL	81m SW	Tanks	1995	41716
AL	81m SW	Tanks	1995	41716
AL	81m SW	Tanks	1991	43816
AL	81m SW	Tanks	1991	43816
AA	82m SW	Tanks	1995	43471
AA	82m SW	Tanks	1995	43471
AL	82m SW	Tanks	1984	40374
AC	82m S	Unspecified Tank	1995	40911
AC	82m S	Unspecified Tank	1995	40911
AD	82m NW	Unspecified Tank	1995	42364
AD	82m NW	Unspecified Tank	1995	42364
O	84m NE	Unspecified Tank	1974	38682
AN	85m N	Unspecified Tank	1940	38689
AK	85m N	Unspecified Tank	1962	44497
AK	85m N	Unspecified Tank	1962	44497
AK	85m N	Unspecified Tank	1952	44497
AK	86m N	Unspecified Tank	1952	41582
AK	86m N	Unspecified Tank	1963	41582
AK	86m N	Unspecified Tank	1995	42267
AK	86m N	Unspecified Tank	1995	42267
AL	88m SW	Tanks	1991	42791
AL	88m SW	Tanks	1991	42791
AT	88m NE	Unspecified Tank	1993	42316
AL	88m SW	Tanks	1995	42791



ID	Location	Land Use	Date	Group ID
AL	88m SW	Tanks	1995	42791
Q	88m N	Unspecified Tank	1995	43650
Q	88m N	Unspecified Tank	1995	43650
AL	88m SW	Tanks	1984	41847
AL	88m SW	Tanks	1984	44608
AT	89m NE	Unspecified Tank	1974	42316
AA	93m SW	Unspecified Tank	1991	41214
AA	93m SW	Unspecified Tank	1991	41214
AA	93m SW	Unspecified Tank	1984	41214
AA	94m SW	Unspecified Tank	1995	44308
AA	94m SW	Unspecified Tank	1995	44308
AA	96m SW	Unspecified Tank	1993	40951
AA	96m SW	Unspecified Tank	1984	40951
AA	98m SW	Unspecified Tank	1984	38719
AL	102m SW	Unspecified Tank	1991	44386
AL	102m SW	Unspecified Tank	1991	44386
AL	103m SW	Tanks	1984	39733
AA	103m SW	Unspecified Tank	1991	41195
AA	103m SW	Unspecified Tank	1991	41195
AL	104m SW	Unspecified Tank	1995	44386
AL	104m SW	Unspecified Tank	1995	44386
AA	104m SW	Unspecified Tank	1995	41288
AA	104m SW	Unspecified Tank	1995	41288
AA	104m SW	Unspecified Tank	1984	41195
AV	104m N	Unspecified Tank	1974	40084
AV	104m N	Unspecified Tank	1962	40084
AV	104m N	Unspecified Tank	1963	44212
AM	105m NW	Unspecified Tank	1993	38694



ID	Location	Land Use	Date	Group ID
AV	105m N	Unspecified Tank	1995	44152
AA	107m SW	Unspecified Tank	1984	38720
AA	109m SW	Unspecified Tank	1991	41300
AA	109m SW	Unspecified Tank	1991	41300
AA	109m SW	Unspecified Tank	1995	43524
AA	109m SW	Unspecified Tank	1995	43524
AA	109m SW	Unspecified Tank	1984	43524
AR	115m W	Unspecified Tank	1993	38700
AL	120m SW	Tanks	1984	44144
AL	120m SW	Tanks	1995	40381
AL	120m SW	Tanks	1995	40381
AW	122m N	Unspecified Tank	1995	41108
AW	122m N	Unspecified Tank	1995	41108
AX	122m N	Unspecified Tank	1952	44098
AX	122m N	Unspecified Tank	1952	44098
30	122m NE	Tanks	1993	39715
AW	122m N	Unspecified Tank	1962	41108
AW	122m N	Unspecified Tank	1962	41108
AL	123m SW	Tanks	1984	40250
AW	123m N	Unspecified Tank	1963	41108
AW	124m N	Unspecified Tank	1995	42925
AW	124m N	Unspecified Tank	1995	42925
AA	125m SW	Tanks	1991	44247
AA	125m SW	Tanks	1991	44247
AA	126m SW	Tanks	1995	44247
AA	126m SW	Tanks	1995	44247
AA	126m SW	Tanks	1984	44247
AY	126m S	Unspecified Tank	1995	41472



ID	Location	Land Use	Date	Group ID
AY	126m S	Unspecified Tank	1995	41472
AL	127m SW	Tanks	1984	40516
AY	127m S	Unspecified Tank	1984	43781
AL	128m SW	Unspecified Tank	1995	42051
AL	128m SW	Unspecified Tank	1995	42051
AY	128m S	Unspecified Tank	1991	43781
AY	128m S	Unspecified Tank	1991	43781
AW	137m N	Unspecified Tank	1995	42099
AW	137m N	Unspecified Tank	1995	42099
AZ	142m NE	Tanks	1993	39712
AW	145m N	Tanks	1995	42325
AW	145m N	Tanks	1995	42325
32	148m NW	Unspecified Tank	1963	38696
BA	151m N	Unspecified Tank	1952	41751
BB	151m SE	Unspecified Tank	1980	39978
BA	151m N	Unspecified Tank	1952	41751
BB	154m SE	Unspecified Tank	1963	39978
AW	156m N	Unspecified Tank	1962	42378
AW	156m N	Unspecified Tank	1962	42378
AW	157m N	Unspecified Tank	1963	42378
AW	157m N	Tanks	1995	40143
AW	157m N	Tanks	1995	40143
34	158m NW	Unspecified Tank	1963	38693
AZ	166m NE	Tanks	1993	39713
BD	176m NE	Unspecified Tank	1952	40416
BD	176m NE	Unspecified Tank	1952	40411
BD	183m NE	Unspecified Tank	1952	42505
BD	183m NE	Unspecified Tank	1952	42505



ID	Location	Land Use	Date	Group ID
BF	202m NE	Unspecified Tank	1964	38671
BF	216m NE	Tanks	1991	43888
BF	217m NE	Unspecified Tank	1995	40825
BF	218m NE	Unspecified Tank	1991	40825
BF	218m NE	Unspecified Tank	1951	42006
BF	218m NE	Unspecified Tank	1951	42006
BF	219m NE	Tanks	1991	39706
BH	220m E	Unspecified Tank	1991	38679
BF	221m NE	Unspecified Tank	1962	41695
BF	221m NE	Unspecified Tank	1951	41695
BF	221m NE	Unspecified Tank	1969	41695
BF	221m NE	Unspecified Tank	1960	41509
BF	221m NE	Unspecified Tank	1964	41509
BF	221m NE	Unspecified Tank	1969	41509
BF	221m NE	Unspecified Tank	1951	41509
BF	222m NE	Tanks	1969	42545
BF	222m NE	Tanks	1964	42236
BF	222m NE	Tanks	1969	42236
BF	222m NE	Tanks	1969	41587
BF	222m NE	Tanks	1964	41587
BF	222m NE	Tanks	1969	41587
BF	223m NE	Tanks	1969	42377
BF	223m NE	Tanks	1964	42622
BF	223m NE	Tanks	1969	42622
BF	225m NE	Tanks	1969	42113
BF	226m NE	Tanks	1964	42113
BF	226m NE	Tanks	1969	42113
BH	228m E	Unspecified Tank	1951	43574



ID	Location	Land Use	Date	Group ID
BH	228m E	Unspecified Tank	1951	43574
BF	229m NE	Unspecified Tank	1969	43242
BF	229m NE	Tanks	1962	40267
BF	229m NE	Tanks	1969	40267
BF	230m NE	Tanks	1960	40847
BF	230m NE	Tanks	1964	40847
BF	230m NE	Tanks	1962	40847
BF	230m NE	Unspecified Tank	1969	43242
BF	230m NE	Tanks	1960	40267
BF	230m NE	Tanks	1964	40267
BF	230m NE	Tanks	1969	40267
BH	231m E	Tanks	1969	44044
BH	231m E	Tanks	1969	44044
BF	232m NE	Unspecified Tank	1995	43855
BF	232m NE	Unspecified Tank	1991	43855
BF	235m NE	Tanks	1991	42366
BF	236m NE	Tanks	1991	40789
BF	241m NE	Unspecified Tank	1991	38672
BJ	242m NE	Tanks	1960	41492
BJ	242m NE	Tanks	1995	40846
BJ	242m NE	Tanks	1962	41492
BJ	242m NE	Tanks	1969	41492
BJ	242m NE	Tanks	1991	40846
BJ	243m NE	Tanks	1969	41492
BK	249m N	Unspecified Tank	1963	40980
BK	249m N	Unspecified Tank	1962	40980
BL	253m E	Tanks	1991	39707
BM	256m NE	Unspecified Tank	1993	41037



ID	Location	Land Use	Date	Group ID
BM	257m NE	Unspecified Tank	1952	41037
BM	257m NE	Unspecified Tank	1952	41037
40	260m N	Unspecified Tank	1962	38687
BK	276m N	Unspecified Tank	1952	41321
BK	276m N	Unspecified Tank	1952	41321
41	288m N	Unspecified Tank	1952	38688
BK	299m N	Unspecified Tank	1952	43576
BK	300m N	Unspecified Tank	1952	43576
BS	326m NW	Unspecified Tank	1993	42744
BS	327m NW	Unspecified Tank	1978	42744
BT	328m N	Tanks	1978	40885
BT	328m N	Tanks	1991	40058
BS	337m NW	Tanks	1993	40335
BS	338m NW	Tanks	1978	40335
BU	348m S	Unspecified Tank	1985	41700
BU	348m S	Unspecified Tank	1962	41700
BN	349m NW	Tanks	1978	39728
BV	349m E	Unspecified Tank	1991	38680
BU	351m S	Unspecified Tank	1992	38722
BN	351m NW	Tanks	1978	39730
BW	352m N	Unspecified Tank	1952	43232
BN	352m NW	Tanks	1978	39729
BW	353m N	Unspecified Tank	1952	43232
BS	363m NW	Unspecified Tank	1978	38692
BY	376m N	Tanks	1995	40161
BY	376m N	Tanks	1995	40161
BN	378m NW	Tanks	1978	39731
CC	396m N	Tanks	1962	43276



ID	Location	Land Use	Date	Group ID
CC	396m N	Tanks	1995	43276
CC	396m N	Tanks	1995	43276
CD	408m N	Unspecified Tank	1952	43277
CD	409m N	Unspecified Tank	1952	43277
CD	414m N	Unspecified Tank	1993	38559
CB	435m E	Unspecified Tank	1993	38716
BX	450m E	Unspecified Tank	1995	42484
BX	450m E	Unspecified Tank	1995	42484
BX	451m E	Unspecified Tank	1980	40734
BX	451m E	Unspecified Tank	1990	40734
BX	451m E	Unspecified Tank	1995	40734
BX	451m E	Unspecified Tank	1995	40734
BX	452m E	Unspecified Tank	1995	41415
BX	452m E	Unspecified Tank	1995	41415
BX	452m E	Unspecified Tank	1995	42162
BX	452m E	Unspecified Tank	1995	42162
BX	453m E	Unspecified Tank	1980	41415
BX	453m E	Unspecified Tank	1990	41415
BX	453m E	Unspecified Tank	1980	42162
BX	453m E	Unspecified Tank	1990	42162
47	463m N	Unspecified Tank	1962	38670
CH	465m N	Unspecified Tank	1962	41536
CH	465m N	Unspecified Tank	1962	41536
CH	465m N	Unspecified Tank	1963	41536
BX	475m E	Unspecified Tank	1980	43967
BX	475m E	Unspecified Tank	1990	43967
BX	476m E	Unspecified Tank	1963	43967
BX	477m E	Unspecified Tank	1995	41429



ID	Location	Land Use	Date	Group ID
BX	477m E	Unspecified Tank	1995	41429
BX	477m E	Unspecified Tank	1980	41429
BX	477m E	Unspecified Tank	1990	41429
BX	479m E	Tanks	1980	43489
BX	479m E	Tanks	1990	43489
BX	480m E	Tanks	1980	40191
BX	480m E	Tanks	1990	40191
BX	480m E	Unspecified Tank	1980	38717
BX	481m E	Tanks	1963	43115
BX	481m E	Tanks	1963	39689
BX	481m E	Tanks	1963	44637
BX	485m E	Unspecified Tank	1980	38715
CI	487m NW	Unspecified Tank	1993	42930
CE	487m NW	Tanks	1993	40284
CI	487m NW	Unspecified Tank	1977	44081
CE	488m NW	Tanks	1977	40396
CI	489m NW	Unspecified Tank	1981	41717
CE	489m NW	Unspecified Tanks	1981	39166
CE	492m NW	Tanks	1977	43548
BX	495m E	Unspecified Tank	1980	41417
BX	495m E	Unspecified Tank	1990	41417
BX	496m E	Unspecified Tank	1980	38714
BX	496m E	Tanks	1963	39688
BX	499m E	Unspecified Tank	1980	38713

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

69

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

Features are displayed on the Past land use - un-grouped map on [page 35 >](#)

ID	Location	Land Use	Date	Group ID
19	On site	Electricity Substation	1984	19313
A	On site	Gasometer	1899	20724
A	On site	Gasometer	1918	20724
F	On site	Electricity Substation	1983	19300
L	On site	Electricity Substation	1983	19295
AC	30m S	Gas Holder	1991	23049
AC	30m S	Gas Holder	1991	23049
AF	31m S	Electricity Substation	1985	20704
AC	31m S	Gas Holder	1984	21098
AC	32m S	Gas Holder	1995	23049
AC	32m S	Gas Holder	1995	23049
AF	32m S	Electricity Substation	1992	20704
AJ	46m S	Electricity Substation	1995	20629
AJ	46m S	Electricity Substation	1995	20629
AJ	46m S	Electricity Substation	1984	21582
AJ	49m S	Electricity Substation	1991	21582
AJ	49m S	Electricity Substation	1991	21582
26	59m NW	Electricity Substation	1983	19294
AQ	74m S	Electricity Substation	1991	21940
AQ	74m S	Electricity Substation	1991	21940
AQ	75m S	Electricity Substation	1995	21940
AQ	75m S	Electricity Substation	1995	21940
AQ	75m S	Electricity Substation	1984	20147



ID	Location	Land Use	Date	Group ID
AU	95m S	Electricity Substation	1991	21768
AU	95m S	Electricity Substation	1991	21768
AU	96m S	Electricity Substation	1995	21768
AU	96m S	Electricity Substation	1995	21768
AU	96m S	Electricity Substation	1984	21768
AA	110m SW	Electricity Substation	1995	22401
AA	110m SW	Electricity Substation	1995	22401
AA	119m SW	Electricity Substation	1991	20489
AA	119m SW	Electricity Substation	1991	20489
AA	119m SW	Electricity Substation	1984	20489
G	139m SW	Electricity Substation	1995	20556
G	139m SW	Electricity Substation	1995	20556
G	140m SW	Electricity Substation	1991	22510
G	140m SW	Electricity Substation	1991	22510
G	140m SW	Electricity Substation	1984	20556
AL	161m SW	Electricity Substation	1995	22824
AL	161m SW	Electricity Substation	1995	22824
AL	161m SW	Electricity Substation	1984	22841
AL	162m SW	Electricity Substation	1991	22841
AL	162m SW	Electricity Substation	1991	22841
BG	204m SE	Electricity Substation	1990	21976
BG	206m SE	Electricity Substation	1995	23487
BG	206m SE	Electricity Substation	1995	23487
BT	328m N	Electricity Substation	1978	19292
CA	379m E	Electricity Substation	1980	20463
CA	379m E	Electricity Substation	1990	22183
CA	380m E	Electricity Substation	1995	22183
CA	380m E	Electricity Substation	1995	22183



ID	Location	Land Use	Date	Group ID
CB	385m E	Electricity Substation	1995	22402
CB	385m E	Electricity Substation	1995	22402
CA	394m E	Electricity Substation	1991	22183
CA	394m E	Electricity Substation	1995	22183
CA	394m E	Electricity Substation	1995	22183
CA	403m E	Electricity Substation	1991	19305
CA	406m E	Electricity Substation	1989	20890
CF	429m NW	Electricity Substation	1978	23376
CF	429m NW	Electricity Substation	1978	23376
CG	454m NE	Electricity Transmission Station	1962	22606
CG	454m NE	Electricity Transmission Station	1969	22606
CG	454m NE	Electricity Substation	1951	20964
CG	455m NE	Electricity Substation	1951	21802
CI	477m NW	Electricity Substation	1977	21125
CI	477m NW	Electricity Substation	1981	21125
CG	492m NE	Electricity Substation	1995	20964
CG	492m NE	Electricity Substation	1991	21802
54	496m E	Electricity Substation	1980	23449

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 (LA/OS)
- Historical waste sites
- Licensed waste sites

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 66](#) >

ID	Location	Details	
4	263m S	Operator: Corus (U K) Ltd Site Address: Port Talbot Works, Abbey Works, Margam, Port Talbot, N P T, SA13 2NG	WML Number: 34000 EPR Reference: BRI003 Landfill type: A7 : Industrial Waste Landfill (Factory curtilage) Status: Modified IPPC Reference: - EPR Number: EAEP\EA/EPR/AP3292LT/V009



ID	Location	Details	
C	349m S	Operator: Corus U K Ltd Site Address: Port Talbot Works, Port Talbot, N P T, SA13 2NG	WML Number: 34270 EPR Reference: COR002 Landfill type: A7 : Industrial Waste Landfill (Factory curtilage) Status: To PPC IPPC Reference: - EPR Number: EAEPR\EA/EPR/YP3598FY/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	2
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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 66 >](#)

ID	Location	Site address	Source	Data type
1	16m W	Refuse Tip	1974 mapping	Polygon
2	78m N	Refuse Tip	1952 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	0
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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.

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

3.5 Historical waste sites

Records within 500m	2
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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 66 >](#)

ID	Location	Address	Further Details	Date
3	223m S	Site Address: Hoel Caer Bont, Margam, PORT TALBOT, West Glamorgan, SA13 2TA	Type of Site: Waste Transfer Unit Planning application reference: P/2005/1436 Description: Scheme comprises proposed construction of industrial unit and hardstanding for the recovery of quality material from waste tyres. An application (ref: P/2005/1436) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 14th September 2005. Data source: Historic Planning Application Data Type: Point	-
5	456m NE	Site Address: Corus Strip Products, Port Talbot Works, Margam, PORT TALBOT, West Glamorgan, SA13 2NG	Type of Site: Recycling Building Planning application reference: P/2006/111 Description: Scheme comprises construction of single storey steel framed building to accommodate emptying of waste skips and sorting of waste for recycling/landfill. Construction - steel frame. An application (ref: P/2006/111) for Detailed Planning permission was submitted to Neath & Port Talbot B.C. on 23rd January 2006. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	10
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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 66 >](#)



ID	Location	Details		
A	12m NW	Site Name: - Site Address: Afan Combined Heat And Power Facility, Afan Combined Heat And Power Facility, Phoenix Walk, Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: - Environmental Permitting Regulations (Waste) Licence Number: ZP3032KQ EPR reference: - Operator: Dwr Cymru Cyfyngedig Waste Management licence No: - Annual Tonnage: 0	Issue Date: 24/09/2018 Effective Date: 24/09/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
A	12m NW	Site Name: - Site Address: Afan Combined Heat And Power Facility, Afan Combined Heat And Power Facility, Phoenix Walk, Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: - Environmental Permitting Regulations (Waste) Licence Number: ZP3032KQ EPR reference: - Operator: Dwr Cymru Cyfyngedig Waste Management licence No: - Annual Tonnage: 0	Issue Date: 24/09/2018 Effective Date: 24/09/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	102m NW	Site Name: Afan Combined Heat And Power Facility Site Address: Afan Waste Water Treatment Works, Harbour Road, Phoenix Walk, Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DCC008 EPR reference: EA/EPR/ZP3032KQ/V002 Operator: Dwr Cymru Cyfyngedig Waste Management licence No: 400062 Annual Tonnage: 0	Issue Date: 27/03/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	102m NW	Site Name: Afan Combined Heat And Power Facility Site Address: Dwr Cymru Cyfyngedig, Afan Combined Heat And Power Facility, Phoenix Walk, Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3032KQ EPR reference: - Operator: Dwr Cymru Cyfyngedig Waste Management licence No: 400062 Annual Tonnage: 0	Issue Date: 26/05/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	102m NW	Site Name: - Site Address: Afan Combined Heat And Power Facility, Port Talbot, Phoenix Walk, Neath Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3032KQ EPR reference: - Operator: Dwr Cymru Pentwyn Road Waste Management licence No: 400062 Annual Tonnage: 0	Issue Date: 26/05/2010 Effective Date: 26/05/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	102m NW	Site Name: - Site Address: Afan Combined Heat And Power Facility, Phoenix Walk, Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3032KQ EPR reference: - Operator: - Waste Management licence No: 400062 Annual Tonnage: 0	Issue Date: 26/05/2010 Effective Date: 26/05/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	102m NW	Site Name: - Site Address: Afan Combined Heat And Power Facility, Phoenix Walk, Neath Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3032KQ EPR reference: - Operator: Dwr Cymru Pentwyn Road Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 26/05/2010 Effective Date: 26/05/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	102m NW	Site Name: - Site Address: Afan Combined Heat And Power Facility, Port Talbot, Phoenix Walk, Neath Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3032KQ EPR reference: - Operator: DWR CYMRU CYFYNGEDIG Waste Management licence No: 400062 Annual Tonnage: 0	Issue Date: 26/05/2010 Effective Date: 26/05/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	109m NW	Site Name: Afan Combined Heat And Power Facility Site Address: Afan Waste Water Treatment Works, Harbour Road, Phoenix Walk, Port Talbot, SA13 1RA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: DCC008 EPR reference: ZP3032KQ/V002 Operator: Dwr Cymru Cyfyngedig Waste Management licence No: 400062 Annual Tonnage: 0	Issue Date: 27/03/2013 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued
C	487m S	Site Name: Morfa Hazardous Landfill Site Address: - Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: COR002 EPR reference: - Operator: Corus Uk Ltd Waste Management licence No: 34270 Annual Tonnage: 0	Issue Date: 24/06/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC

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

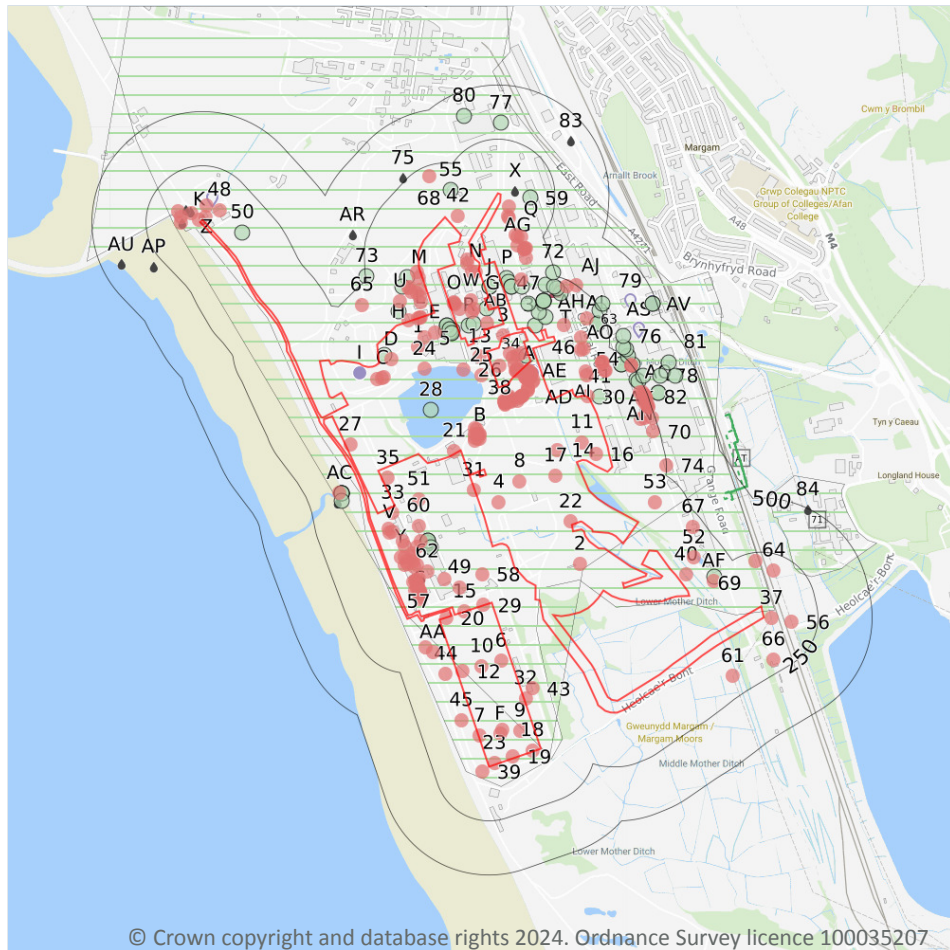
3.7 Waste exemptions

Records within 500m	0
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

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
- Electricity cables
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- Part A(1) industrial activities
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

263

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 72 >](#)

ID	Location	Company	Address	Activity	Category
1	On site	Chimneys	West Glamorgan, SA13	Chimneys	Industrial Features
2	On site	Hopper	West Glamorgan, SA13	Hoppers and Silos	Farming
3	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
4	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
5	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
6	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
7	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
8	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
9	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
10	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
11	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
12	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
13	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
14	On site	Works	West Glamorgan, SA13	Unspecified Works Or Factories	Industrial Features
15	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
16	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
17	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
18	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
19	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
20	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
21	On site	Works	West Glamorgan, SA13	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
22	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
23	On site	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
24	On site	Pumping Station	West Glamorgan, SA13	Water Pumping Stations	Industrial Features
25	On site	Pumping Station	West Glamorgan, SA13	Water Pumping Stations	Industrial Features
26	On site	Pontoon	West Glamorgan, SA13	Moorings and Unloading Facilities	Water
27	On site	Works	West Glamorgan, SA13	Unspecified Works Or Factories	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
B	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
C	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
C	On site	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
C	On site	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
D	On site	Gantry	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
E	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
F	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
F	On site	Works	West Glamorgan, SA13	Unspecified Works Or Factories	Industrial Features
G	On site	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
L	1m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
L	1m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
29	1m S	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
L	1m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
30	2m NE	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
L	4m NW	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
A	4m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
31	6m W	Tanks	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	6m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
32	7m S	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
A	9m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	10m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	12m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
K	12m NW	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features



ID	Location	Company	Address	Activity	Category
M	14m N	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
A	15m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
M	16m N	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
N	17m N	Hopper	West Glamorgan, SA13	Hoppers and Silos	Farming
A	18m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
K	21m NW	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
O	21m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
O	21m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
O	22m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
33	25m W	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
34	26m N	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
35	26m W	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	29m N	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
H	30m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
N	32m N	Electricity Sub Stations	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
N	34m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
37	35m SE	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
38	35m N	Cooling Tower	West Glamorgan, SA13	Chimneys	Industrial Features
39	36m S	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
O	36m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
40	39m SE	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
H	39m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	40m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
N	41m N	Electricity Sub Stations	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
H	45m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Q	47m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
H	48m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
42	48m N	Sludge Tanks	West Glamorgan, SA13	Waste Storage, Processing and Disposal	Infrastructure and Facilities
A	50m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
43	52m S	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
44	53m S	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
45	53m S	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
K	57m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	57m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	58m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
V	60m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
V	62m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Q	62m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
W	63m N	Tanks	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	64m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
W	65m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
A	67m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
46	68m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
H	69m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	70m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Z	71m NW	Sewage Works	West Glamorgan, SA13	Waste Storage, Processing and Disposal	Infrastructure and Facilities
Q	71m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
H	72m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
Y	75m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	76m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
V	76m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
W	77m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
H	78m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AA	78m S	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
S	81m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	83m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	83m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	87m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	87m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
K	88m NW	Outfall	West Glamorgan, SA13	Waste Storage, Processing and Disposal	Infrastructure and Facilities
48	88m NW	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
S	89m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	89m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	89m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AB	90m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	91m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
K	91m NW	Pumping Station	West Glamorgan, SA13	Water Pumping Stations	Industrial Features
S	91m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	92m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AD	93m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	93m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	94m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	96m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	96m SW	Tanks	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
49	98m S	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
S	99m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AC	100m W	Outfall	West Glamorgan, SA13	Waste Storage, Processing and Disposal	Infrastructure and Facilities
U	103m NW	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
AA	103m SW	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
Y	104m SW	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
S	105m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AD	105m NE	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
Y	106m SW	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
K	112m NW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	113m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
S	113m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
51	115m W	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
52	116m E	Mast	West Glamorgan, SA13	Telecommunications Features	Infrastructure and Facilities
Y	118m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
53	119m E	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
54	121m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	125m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AE	125m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	126m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	127m SW	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AF	129m SE	Electricity Sub Stations	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AG	129m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
56	130m SE	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AG	133m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
57	133m SW	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
AE	134m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
58	136m S	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
60	143m SW	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AG	144m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AG	145m N	Electricity Sub Stations	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AI	147m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AG	147m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AI	149m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AG	150m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AG	153m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AG	156m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
Y	157m SW	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
61	158m SE	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AG	160m N	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
62	161m SW	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AI	172m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
63	172m NE	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
AI	174m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
64	175m E	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AI	176m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
65	180m NW	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
Y	183m SW	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
AK	186m NE	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features



ID	Location	Company	Address	Activity	Category
66	189m SE	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
67	201m E	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
AK	201m NE	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
68	203m N	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
69	209m E	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
70	221m E	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	222m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	223m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AJ	225m N	Electricity Sub Station	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AN	229m NE	Chimneys	West Glamorgan, SA13	Chimneys	Industrial Features
AN	234m NE	Chimney	West Glamorgan, SA13	Chimneys	Industrial Features
AN	234m NE	Pylon	West Glamorgan, SA13	Electrical Features	Infrastructure and Facilities
AN	234m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	235m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	236m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AK	236m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	236m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	237m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	237m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	237m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AN	239m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AM	246m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
74	249m E	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features
AJ	249m N	Travelling Crane	West Glamorgan, SA13	Travelling Cranes and Gantries	Industrial Features
AM	250m NE	Tank	West Glamorgan, SA13	Tanks (Generic)	Industrial Features



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	7
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High voltage underground electricity transmission cables.

Features are displayed on the Current industrial land use map on [page 72 >](#)

ID	Location	Cable Set	Cable Route	Details	
AT	394m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
AT	400m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
AT	413m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
AT	413m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
AT	414m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
AT	414m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
AT	435m E	SGT2 66KV CABLE	MARGAM 275KV S/S	Cable Make: BICC/BKI 66KV Cable Type: A/C Operating Voltage (kV): 66	Year of installation: 1968 Cable in tunnel? Not specified

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**3**

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

Features are displayed on the Current industrial land use map on [page 72 >](#)

ID	Location	Company	Address	Operational status	Tier
E	On site	Tata Steel UK Limited	Tata Steel UK Limited, Port Talbot Steelworks, Port Talbot Works, Port Talbot, Neath & Port Talbot, SA13 1RE	Current COMAH Site	COMAH Upper Tier Operator
H	On site	British Steel Strip Products	British Steel Strip Products, Port Talot Works, Port Talbot, SA13 2NG	Historical NIHHS Site	-
71	234m E	BOC Limited	BOC Limited, Margam Longlands Lane, BOC Margam, Longlands Lane, Port Talbot, West Glamorgan, SA13 2NS	Current COMAH Site	COMAH Upper Tier Operator

This data is sourced from the Health and Safety Executive.



4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

2

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

Features are displayed on the Current industrial land use map on [page 72 >](#)

ID	Location	Details	
AJ	188m N	Application reference number: 92/8975 Application status: Historical Consent Application date: 01/01/1992 Address: British Steel Works, Margam, Port Talbot, SA13 2NG	Details: Storage of hazardous substances. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
AJ	188m N	Application reference number: 99/1162 Application status: Approved Application date: 01/02/2000 Address: Tata Steel UK Ltd pka Corus UK Ltd, Port Talbot Works, Docks Road, Port Talbot, Neath & Port Talbot, Wales, SA13 2NG	Details: Additional storage. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

63

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.

Features are displayed on the Current industrial land use map on [page 72 >](#)



ID	Location	Details	
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: AA2780	Original Permit Number: IPCAIRAPP Date Approved: 30-11-1991 Effective Date: 30-11-1991 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AF8661	Original Permit Number: IPCAIRAPP Date Approved: 14-6-1993 Effective Date: 14-6-1993 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: AF9609	Original Permit Number: IPCMINVAR Date Approved: 15-1-1993 Effective Date: 15-1-1993 Status: Superseded By Variation
A	On site	Operator: British Steel Strip Products Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AG3550	Original Permit Number: IPCAIRAPP Date Approved: 19-11-1992 Effective Date: 19-11-1992 Status: Revoked
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: AL0729	Original Permit Number: IPCMINVAR Date Approved: 15-1-1994 Effective Date: 15-1-1994 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AL2411	Original Permit Number: IPCMINVAR Date Approved: 1-1-1994 Effective Date: 1-1-1994 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AO7762	Original Permit Number: IPCAPP Date Approved: 3-1-1995 Effective Date: 7-1-1995 Status: Revoked
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AR0357	Original Permit Number: IPCAIRAPP Date Approved: 1-8-1995 Effective Date: 28-8-1995 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AR4409	Original Permit Number: IPCMINVAR Date Approved: 29-9-1995 Effective Date: 1-11-1995 Status: Superseded By Variation



ID	Location	Details	
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AT1326	Original Permit Number: IPCMINVAR Date Approved: 5-2-1996 Effective Date: 14-2-1996 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: AU4568	Original Permit Number: IPCMINVAR Date Approved: 5-2-1996 Effective Date: 14-2-1996 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AV3419	Original Permit Number: IPCMINVAR Date Approved: 11-4-1996 Effective Date: 1-5-1996 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AW3473	Original Permit Number: IPCMINVAR Date Approved: 19-11-1996 Effective Date: 26-11-1996 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AW4895	Original Permit Number: IPCMINVAR Date Approved: 19-11-1996 Effective Date: 26-11-1996 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AZ3445	Original Permit Number: IPCMAJVAR Date Approved: 23-3-1998 Effective Date: 1-4-1998 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BA3110	Original Permit Number: IPCMINVAR Date Approved: 24-12-1997 Effective Date: 31-12-1997 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BA6011	Original Permit Number: IPCMINVAR Date Approved: 9-2-1998 Effective Date: 15-2-1998 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BB3492	Original Permit Number: IPCMINVAR Date Approved: 1-6-1998 Effective Date: 2-6-1998 Status: Superseded By Variation



ID	Location	Details	
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: BB9954	Original Permit Number: IPCMINVAR Date Approved: 11-11-1998 Effective Date: 13-11-1998 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BD6816	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BE4835	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: BE6153	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BF1475	Original Permit Number: IPCMINVAR Date Approved: 28-1-1999 Effective Date: 31-1-1999 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: BF1556	Original Permit Number: IPCMINVAR Date Approved: 28-1-1999 Effective Date: 31-1-1999 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BF1572	Original Permit Number: IPCMINVAR Date Approved: 28-1-1999 Effective Date: 31-1-1999 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BF5292	Original Permit Number: IPCMINVAR Date Approved: 31-3-1999 Effective Date: 1-4-1999 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BF8038	Original Permit Number: IPCMINVAR Date Approved: 31-3-1999 Effective Date: 7-4-1999 Status: Superseded By Variation



ID	Location	Details	
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Combustion Processes Permit Number: BF8054	Original Permit Number: IPCMINVAR Date Approved: 31-3-1999 Effective Date: 7-4-1999 Status: Revoked
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BG0482	Original Permit Number: IPCMINVAR Date Approved: 2-9-1999 Effective Date: 10-9-1999 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BG0865	Original Permit Number: IPCMINVAR Date Approved: 8-9-1999 Effective Date: 12-9-1999 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BH1212	Original Permit Number: IPCMINVAR Date Approved: 7-12-2000 Effective Date: 5-1-2001 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BH5048	Original Permit Number: IPCMINVAR Date Approved: 31-1-2001 Effective Date: 7-2-2001 Status: Revoked
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BH7695	Original Permit Number: IPCMINVAR Date Approved: 27-1-2000 Effective Date: 31-1-2000 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BH7725	Original Permit Number: IPCMINVAR Date Approved: 27-1-2000 Effective Date: 31-1-2000 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BJ1729	Original Permit Number: IPCMINVAR Date Approved: 30-8-2000 Effective Date: 31-8-2000 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BK8516	Original Permit Number: IPCMINVAR Date Approved: 29-3-2001 Effective Date: 30-3-2001 Status: Superseded By Variation



ID	Location	Details	
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BL2530	Original Permit Number: IPCMINVAR Date Approved: 4-7-2001 Effective Date: 30-7-2001 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BM0885	Original Permit Number: IPCMINVAR Date Approved: 8-11-2001 Effective Date: 12-11-2001 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BS5096	Original Permit Number: IPCMAJVAR Date Approved: 11-10-2002 Effective Date: 14-10-2002 Status: Superseded By Variation
A	On site	Operator: Corus UK Ltd Address: Strip Products, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BV1607	Original Permit Number: IPCMINVAR Date Approved: 2-10-2003 Effective Date: 7-10-2003 Status: Revoked - Now lppc
I	On site	Operator: Multiserv Group Ltd Address: Abbey Steelworks, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AQ9880	Original Permit Number: IPCAIRAPP Date Approved: 24-7-1995 Effective Date: 30-7-1995 Status: Revoked
I	On site	Operator: Multiserv (asr) Ltd Address: Abbey Steelworks, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AQ9901	Original Permit Number: IPCAIRAPP Date Approved: 24-7-1995 Effective Date: 30-7-1995 Status: Superseded By Variation
I	On site	Operator: Multiserv (asr) Ltd Address: Abbey Steelworks, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AV2005	Original Permit Number: IPCMINVAR Date Approved: 19-11-1996 Effective Date: 26-11-1996 Status: Superseded By Variation
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AY8247	Original Permit Number: IPCAPP Date Approved: 2-10-1997 Effective Date: 5-10-1997 Status: Superseded By Variation
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: AY8263	Original Permit Number: IPCAPP Date Approved: 3-10-1997 Effective Date: 5-10-1997 Status: Superseded By Variation



ID	Location	Details	
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BB2640	Original Permit Number: IPCMINVAR Date Approved: 20-10-1998 Effective Date: 27-10-1998 Status: Superseded By Variation
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BC0766	Original Permit Number: IPCMAJVAR Date Approved: 21-12-1998 Effective Date: 24-12-1998 Status: Revoked - Now Ippc
I	On site	Operator: Multiserv (asr) Ltd Address: Abbey Steelworks, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BD5534	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BD9718	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BE4690	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BE7699	Original Permit Number: IPCMINVAR Date Approved: 21-12-1998 Effective Date: 24-12-1998 Status: Superseded By Variation
I	On site	Operator: Multiserv (asr) Ltd Address: British Steel Strip Products, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Iron And Steel Permit Number: BK2291	Original Permit Number: IPCMINVAR Date Approved: 25-1-2001 Effective Date: 31-1-2001 Status: Revoked - Now Ippc
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AF8645	Original Permit Number: IPCAIRAPP Date Approved: 1-6-1993 Effective Date: 1-6-1993 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AL2390	Original Permit Number: IPCMINVAR Date Approved: 1-1-1994 Effective Date: 1-1-1994 Status: Superseded By Variation



ID	Location	Details	
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AN1254	Original Permit Number: IPCMINVAR Date Approved: 1-7-1994 Effective Date: 1-7-1994 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AT8819	Original Permit Number: IPCMAJVAR Date Approved: 29-3-1996 Effective Date: 1-4-1996 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AW3481	Original Permit Number: IPCMINVAR Date Approved: 19-11-1996 Effective Date: 26-11-1996 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: AZ6053	Original Permit Number: IPCMINVAR Date Approved: 3-12-1997 Effective Date: 10-12-1997 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BE1020	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BF1513	Original Permit Number: IPCMINVAR Date Approved: 28-1-1999 Effective Date: 31-1-1999 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BF8097	Original Permit Number: IPCMINVAR Date Approved: 31-3-1999 Effective Date: 7-4-1999 Status: Superseded By Variation
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BH3894	Original Permit Number: IPCMINVAR Date Approved: 31-1-2001 Effective Date: 7-2-2001 Status: Revoked - Now Ippc
AV	477m NE	Operator: Corus UK Ltd Address: Morfa Coke Oven Plant, Port Talbot Works, Port Talbot, West Glamorgan, SA13 2NG Process: Carbonisation And Associated Processes Permit Number: BH7709	Original Permit Number: IPCMINVAR Date Approved: 27-1-2000 Effective Date: 31-1-2000 Status: Superseded By Variation



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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	181
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Records of Part A(1) 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 72 >](#)

ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING ETC IN CRUCIBLES ETC (UNLESS 2.1 A (2) (A) OR (D)) Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: NU ROCK SONICS LTD Installation Name: - Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: BS6165 Original Permit Number: BS6165	EPR Reference: - Issue Date: 30/10/2002 Effective Date: 30/10/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: CREATED BY IED - DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
A	On site	Operator: MULTISERV GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: BP3635MR Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 30/10/2006 Effective Date: 30/10/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: AP3330BE Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 04/11/2004 Effective Date: 08/11/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: AP3330BE Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 04/11/2004 Effective Date: 08/11/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: AP3330BE Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 04/11/2004 Effective Date: 08/11/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: AP3330BE Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 04/11/2004 Effective Date: 08/11/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: COMBUSTION; ANY FUEL =>50MW Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: AP3734CK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/07/2012 Effective Date: 12/07/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EA/EPR/BL7108IM/V008 Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: BL7108IM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EA/EPR/BL7108IM/V008 Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: BL7108IM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EA/EPR/BL7108IM/V008 Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: BL7108IM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EA/EPR/BL7108IM/V008 Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: BL7108IM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EA/EPR/BL7108IM/V008 Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: BL7108IM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: BP3933LD Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 01/10/2005 Effective Date: 01/10/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: BP3933LD Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 01/10/2005 Effective Date: 01/10/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: BP3933LD Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 01/10/2005 Effective Date: 01/10/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: BP3933LD Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 01/10/2005 Effective Date: 01/10/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: FP3935LM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 03/02/2006 Effective Date: 03/02/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: BV4037ID Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 14/10/2003 Effective Date: 17/10/2003 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: FP3935LM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 03/02/2006 Effective Date: 03/02/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: FP3935LM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 03/02/2006 Effective Date: 03/02/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: FP3935LM Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 03/02/2006 Effective Date: 03/02/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: BL7191IQ Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 06/06/2003 Effective Date: 06/06/2003 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: BX3805IK Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 27/02/2004 Effective Date: 01/03/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: BX9374IT Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 23/07/2004 Effective Date: 23/07/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: BX9374IT Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 23/07/2004 Effective Date: 23/07/2004 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: KP3035LE Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 31/01/2006 Effective Date: 31/01/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: KP3035LE Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 31/01/2006 Effective Date: 31/01/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: WP3337SD Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 28/09/2005 Effective Date: 01/10/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SHORT BROS (PLANT) LTD Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: WP3337SD Original Permit Number: BL7191IQ	EPR Reference: - Issue Date: 28/09/2005 Effective Date: 01/10/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: CORUS UK LTD Installation Name: - Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: BL7108 Original Permit Number: BL7108	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
A	On site	Operator: MULTISERV (ASR) LTD Installation Name: - Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: BX9374 Original Permit Number: BL7191	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: COMBUSTION; ANY FUEL =>50MW Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING ETC IN CRUCIBLES ETC (UNLESS 2.1 A (2) (A) OR (D)) Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: GP3933CV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 02/02/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: CORUS UK LTD Installation Name: - Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: BL7108 Original Permit Number: BL7108	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING; OPERATING COKE OVENS Permit Number: BX6987IB Original Permit Number: BX6987IB	EPR Reference: - Issue Date: 08/07/2005 Effective Date: 08/07/2005 Last date noted as effective: 01/04/2013 Status: SUPERCEDED
A	On site	Operator: CORUS UK LTD Installation Name: - Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: BV7311 Original Permit Number: BV7311	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: MULTISERV (ASR) LTD Installation Name: - Process: ASSOCIATED PROCESS Permit Number: BL7191 Original Permit Number: BL7191	EPR Reference: - Issue Date: 06/06/2003 Effective Date: 06/06/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
A	On site	Operator: MULTISERV (ASR) LTD Installation Name: - Process: ASSOCIATED PROCESS Permit Number: BX9374 Original Permit Number: BL7191	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: CORUS UK LTD Installation Name: - Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: BL7108 Original Permit Number: BL7108	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: CORUS UK LTD Installation Name: - Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: BL7108 Original Permit Number: BL7108	EPR Reference: - Issue Date: 31/03/2004 Effective Date: 31/03/2004 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: MULTISERV (ASR) LTD Installation Name: - Process: ASSOCIATED PROCESS Permit Number: BV4037 Original Permit Number: BL7191	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: COMBUSTION; ANY FUEL =>50MW Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ASSOCIATED PROCESS Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: FERROUS METALS; PRODUCING ETC IN CRUCIBLES ETC (UNLESS 2.1 A (2) (A) OR (D)) Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING; OPERATING COKE OVENS Permit Number: BX6987IB Original Permit Number: BX6987IB	EPR Reference: - Issue Date: 08/07/2005 Effective Date: 08/07/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING; REFINING GAS => 1000 TE/12 MONTHS Permit Number: BX6987IB Original Permit Number: BX6987IB	EPR Reference: - Issue Date: 08/07/2005 Effective Date: 08/07/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; CRUSHING ETC OF COAL ETC (UNLESS EXEMPT LOCATION) Permit Number: BX6987IB Original Permit Number: BX6987IB	EPR Reference: - Issue Date: 08/07/2005 Effective Date: 08/07/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING; OPERATING COKE OVENS Permit Number: SP3339ZL Original Permit Number: BX6987IB	EPR Reference: - Issue Date: 12/12/2012 Effective Date: 12/12/2012 Last date noted as effective: 17/11/2015 Status: SURRENDER EFFECTIVE



ID	Location	Details	
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING; REFINING GAS => 1000 TE/12 MONTHS Permit Number: SP3339ZL Original Permit Number: BX6987IB	EPR Reference: - Issue Date: 12/12/2012 Effective Date: 12/12/2012 Last date noted as effective: 17/11/2015 Status: SURRENDER EFFECTIVE
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; CRUSHING ETC OF COAL ETC (UNLESS EXEMPT LOCATION) Permit Number: SP3339ZL Original Permit Number: BX6987IB	EPR Reference: - Issue Date: 12/12/2012 Effective Date: 12/12/2012 Last date noted as effective: 17/11/2015 Status: SURRENDER EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: GASIFICATION, LIQUIFAC. AND REFINING Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: JP3631ZK Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 26/06/2013 Effective Date: 26/06/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: COMBUSTION; ANY FUEL =>50MW Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING ETC IN CRUCIBLES ETC (UNLESS 2.1 A (2) (A) OR (D)) Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: NP3938GZ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 29/06/2009 Effective Date: 29/06/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: PP3837SQ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/05/2006 Effective Date: 12/05/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: PP3837SQ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/05/2006 Effective Date: 12/05/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: PP3837SQ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/05/2006 Effective Date: 12/05/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: PP3837SQ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 12/05/2006 Effective Date: 12/05/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: RP3730BV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 18/02/2005 Effective Date: 20/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: RP3730BV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 18/02/2005 Effective Date: 20/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: RP3730BV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 18/02/2005 Effective Date: 20/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: RP3730BV Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 18/02/2005 Effective Date: 20/02/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: COMBUSTION; ANY FUEL =>50MW Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING ETC IN CRUCIBLES ETC (UNLESS 2.1 A (2) (A) OR (D)) Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: UP3130TB Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: COMBUSTION; ANY FUEL =>50MW Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING ETC IN CRUCIBLES ETC (UNLESS 2.1 A (2) (A) OR (D)) Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: ZP3535HC Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 19/11/2010 Effective Date: 19/11/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: GP3133CP Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 14/06/2012 Effective Date: 14/06/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: GP3133CP Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 14/06/2012 Effective Date: 14/06/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: UP3033CC Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 16/06/2012 Effective Date: 16/06/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: UP3033CC Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 16/06/2012 Effective Date: 16/06/2012 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS EPR/BP3635MR Process: ASSOCIATED PROCESS Permit Number: WP3132EV Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 18/03/2014 Effective Date: 18/03/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS EPR/BP3635MR Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: WP3132EV Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 18/03/2014 Effective Date: 18/03/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
A	On site	Operator: SUN COKE COMPANY Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING; OPERATING COKE OVENS Permit Number: SP3339ZL Original Permit Number: BX6987IB	EPR Reference: - Issue Date: - Effective Date: 12/12/2012 Last date noted as effective: 01/04/2013 Status: SURRENDER EFFECTIVE
A	On site	Operator: NU ROCK SONICS LTD Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: BS6165IW Original Permit Number: BS6165IW	EPR Reference: - Issue Date: 30/10/2002 Effective Date: 31/03/2005 Last date noted as effective: 17/11/2015 Status: REVOKED
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: ASSOCIATED PROCESS Permit Number: XP3030TS Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: XP3030TS Original Permit Number: BP3635MR	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
A	On site	Operator: CORUS UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING, MELTING OR REFINING Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 01/04/2008 Status: EFFECTIVE
A	On site	Operator: Harsco Metals Group Ltd Installation Name: Port Talbot Steel Works Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 75 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC—TREATMENT OF SLAGS AND ASHES Permit Number: BP3635MR Original Permit Number: -	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: - Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: - Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective



ID	Location	Details	
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 75 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC—TREATMENT OF SLAGS AND ASHES Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ORE WITH OR WITHOUT OTHER MATERIALS Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Harsco Metals Group Ltd Installation Name: Port Talbot Steel Works Process: - Permit Number: BP3635MR Original Permit Number: -	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: PROCESSING FERROUS METALS AND THEIR ALLOYS BY USING HOT-ROLLING MILLS WITH A PRODUCTION CAPACITY OF MORE THAN 20 TONNES OF CRUDE STEEL PER HOUR Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: PRODUCING, MELTING OR REFINING IRON OR STEEL OR ANY FERROUS ALLOY, INCLUDING CONTINUOUS CASTING, EXCEPT WHERE THE ONLY FURNACES USED ARE CUPOLA, CRUCIBLE, REVERBERATORY, ROTARY, INDUCTION, VACUUM, ELECTRO-SLAG OR RESISTANCE FURNACES Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective



ID	Location	Details	
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: UNLESS FALLING WITHIN PART A(2) OF THIS SECTION, SURFACE TREATING METALS AND PLASTIC MATERIALS USING AN ELECTROLYTIC OR CHEMICAL PROCESS WHERE THE AGGREGATED VOLUME OF THE TREATMENT VATS IS MORE THAN 30M3 Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: LOADING, UNLOADING OR OTHERWISE HANDLING OR STORING MORE THAN 500,000 TONNES IN TOTAL IN ANY 12-MONTH PERIOD OF IRON ORE, EXCEPT IN THE COURSE OF MINING OPERATIONS, OR BURNT PYRITES Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES - PHYSICO-CHEMICAL TREATMENT Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: BURNING ANY FUEL IN AN APPLIANCE WITH A RATED THERMAL INPUT OF 50 OR MORE MEGAWATTS Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ORE WITH OR WITHOUT OTHER MATERIALS Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ORE WITH OR WITHOUT OTHER MATERIALS Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective



ID	Location	Details	
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ORE WITH OR WITHOUT OTHER MATERIALS Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/05/2023 Effective Date: 26/05/2023 Last date noted as effective: 02/04/2024 Status: Effective
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: - Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2017 Status: DULY MADE
A	On site	Operator: RUNTECH LTD Installation Name: PORT TALBOT STEEL WORKS Process: - Permit Number: AB3595FF Original Permit Number: WP3132EV	EPR Reference: - Issue Date: 29/09/2017 Effective Date: 01/10/2017 Last date noted as effective: 01/12/2022 Status: EFFECTIVE
A	On site	Operator: Industrial Chemicals Limited Installation Name: Cold Mill Effluent Treatment Plant Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES - PHYSICO-CHEMICAL TREATMENT Permit Number: AB3192HQ Original Permit Number: -	EPR Reference: - Issue Date: 15/03/2021 Effective Date: 15/03/2021 Last date noted as effective: 23/11/2023 Status: Effective
A	On site	Operator: INDUSTRIAL CHEMICALS LIMITED Installation Name: COLD MILL EFFLUENT TREATMENT PLANT Process: - Permit Number: AB3192HQ Original Permit Number: -	EPR Reference: - Issue Date: 04/07/2016 Effective Date: 04/07/2016 Last date noted as effective: 01/04/2017 Status: ISSUED
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: - Permit Number: BP3635MR Original Permit Number: WP3132EV	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
A	On site	Operator: Tata Steel UK Limited Installation Name: Port Talbot Steel Works Process: OPERATING COKE OVENS Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 26/06/2018 Effective Date: 26/06/2018 Last date noted as effective: 25/05/2023 Status: Effective



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: - Permit Number: BL7108IM Original Permit Number: -	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2017 Status: ISSUED
A	On site	Operator: RUNTECH LTD Installation Name: PORT TALBOT STEEL WORKS Process: - Permit Number: AB3595FF Original Permit Number: WP3132EV	EPR Reference: - Issue Date: 29/09/2017 Effective Date: 01/10/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: INDUSTRIAL CHEMICALS LIMITED Installation Name: COLD MILL EFFLUENT TREATMENT PLANT Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ... Permit Number: AB3192HQ Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 04/07/2016 Effective Date: 04/07/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OR NON-HAZARDOUS WASTE WITH A CAPACIT... Permit Number: BP3635MR Original Permit Number: WP3132EV	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: HARSCO METALS GROUP LTD Installation Name: PORT TALBOT STEEL WORKS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OR NON-HAZARDOUS WASTE WITH A CAPACIT... Permit Number: BP3635MR Original Permit Number: WP3132EV	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE



ID	Location	Details	
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
A	On site	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL7108IM Process: ROASTING OR SINTERING METAL ORE, INCLUDING SULPHIDE ORE, OR ANY MIXTURE OF IRON ... Permit Number: BL7108IM Original Permit Number: JP3631ZK	EPR Reference: - Issue Date: 08/02/2016 Effective Date: 08/02/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
Z	102m NW	Operator: DWR CYMRU CYFYNGEDIG (WELSH WATER) Installation Name: AFAN WASTEWATER TREATMENT WORKS Process: ASSOCIATED PROCESS Permit Number: QP3634ZY Original Permit Number: ZP3032KQ	EPR Reference: - Issue Date: 27/03/2013 Effective Date: 27/03/2013 Last date noted as effective: 01/04/2013 Status: EFFECTIVE
Z	102m NW	Operator: DWR CYMRU CYFYNGEDIG (WELSH WATER) Installation Name: AFAN WASTEWATER TREATMENT WORKS EA/EPR/ZP3032KQ/A001 Process: COMBUSTION; WASTE OIL =>3MW BUT 50MW Permit Number: ZP3032KQ Original Permit Number: ZP3032KQ	EPR Reference: - Issue Date: 26/05/2010 Effective Date: 26/05/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AN	234m NE	Operator: Tata Steel Installation Name: Cold Mill Effluent Treatment Plant Process: - Permit Number: AB3192HQ Original Permit Number: -	EPR Reference: - Issue Date: 20/11/2023 Effective Date: 20/11/2023 Last date noted as effective: 02/04/2024 Status: Effective



ID	Location	Details	
79	388m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: KP3033MC Original Permit Number: BV7311IE	EPR Reference: - Issue Date: 05/12/2006 Effective Date: 05/12/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AS	389m NE	Operator: TATA STEEL UK LIMITED Installation Name: MORFA NON-HAZARDOUS LANDFILL EPR/BV7311IE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: GP3430MH Original Permit Number: BV7311IE	EPR Reference: - Issue Date: 29/03/2010 Effective Date: 29/03/2010 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
AS	389m NE	Operator: Tata Steel UK Limited Installation Name: Morfa Non-Hazardous Landfill Process: THE DISPOSAL OF WASTE IN A LANDFILL RECEIVING MORE THAN 10 TONNES OF WASTE IN ANY DAY, OR WITH A TOTAL CAPACITY OF MORE THAN 25,000 TONNES, BUT EXCLUDING DISPOSALS IN A LANDFILL TAKING ONLY INERT WASTE. Permit Number: BV7311IE Original Permit Number: -	EPR Reference: - Issue Date: 07/10/2021 Effective Date: 07/10/2021 Last date noted as effective: 02/04/2024 Status: Effective
AS	389m NE	Operator: TATA STEEL UK LIMITED Installation Name: MORFA NON-HAZARDOUS LANDFILL EPR/BV7311IE Process: - Permit Number: BV7311IE Original Permit Number: GP3430MH	EPR Reference: - Issue Date: 29/03/2010 Effective Date: 29/03/2010 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
AS	389m NE	Operator: TATA STEEL UK LIMITED Installation Name: MORFA NON-HAZARDOUS LANDFILL Process: THE DISPOSAL OF WASTE IN A LANDFILL RECEIVING MORE THAN 10 TONNES OF WASTE IN AN... Permit Number: BV7311IE Original Permit Number: GP3430MH	EPR Reference: - Issue Date: 22/09/2017 Effective Date: 22/09/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: BV7311IE Original Permit Number: BV7311IE	EPR Reference: - Issue Date: 19/05/2005 Effective Date: 19/05/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
AV	477m NE	Operator: CAMBRIAN STONE LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: BX0873IK Original Permit Number: BL5636IF	EPR Reference: - Issue Date: 05/12/2003 Effective Date: 07/12/2003 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: CAMBRIAN STONE LIMITED Installation Name: PORT TALBOT STEEL WORKS EPR/BL5636IF Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: GP3433CX Original Permit Number: BL5636IF	EPR Reference: - Issue Date: 06/02/2012 Effective Date: 06/02/2012 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
AV	477m NE	Operator: CAMBRIAN STONE LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: UP3430TG Original Permit Number: BL5636IF	EPR Reference: - Issue Date: 09/08/2010 Effective Date: 09/08/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: COMBUSTION; ANY FUEL =>50MW Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HANDLING ETC >500,000 TONNES/12 MONTHS Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; HOT ROLLING >20T/HR Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; PRODUCING ETC IN CRUCIBLES ETC (UNLESS 2.1 A (2) (A) OR (D)) Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: FERROUS METALS; ROASTING/SINTERING IRON ORE, INCLUDING MIXTURES AND SULPHIDE ORE Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: GASIFICATION, LIQUIFAC. AND REFINING Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION) Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TATA STEEL UK LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M Permit Number: TP3139XJ Original Permit Number: BL7108IM	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 21/12/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
AV	477m NE	Operator: TARMAC TRADING LIMITED Installation Name: Port Talbot Steel Works Process: - Permit Number: BL5636IF Original Permit Number: -	EPR Reference: - Issue Date: 14/11/2022 Effective Date: 14/11/2022 Last date noted as effective: 02/04/2024 Status: Effective



ID	Location	Details	
AV	477m NE	Operator: TARMAC TRADING LIMITED Installation Name: Port Talbot Steel Works Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 75 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC—TREATMENT OF SLAGS AND ASHES Permit Number: BL5636IF Original Permit Number: -	EPR Reference: - Issue Date: 14/11/2022 Effective Date: 14/11/2022 Last date noted as effective: 02/04/2024 Status: Effective
AV	477m NE	Operator: CAMBRIAN STONE LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: - Permit Number: BL5636IF Original Permit Number: GP3433CX	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
AV	477m NE	Operator: CAMBRIAN STONE LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OR NON-HAZARDOUS WASTE WITH A CAPACIT... Permit Number: BL5636IF Original Permit Number: GP3433CX	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
AV	477m NE	Operator: CAMBRIAN STONE LIMITED Installation Name: PORT TALBOT STEEL WORKS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OR NON-HAZARDOUS WASTE WITH A CAPACIT... Permit Number: BL5636IF Original Permit Number: GP3433CX	EPR Reference: - Issue Date: 02/03/2016 Effective Date: 02/03/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE

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

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

Records within 500m	0
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m	5
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

Features are displayed on the Current industrial land use map on [page 72 >](#)

ID	Location	Address	Details	
A	On site	Corus Uk Ltd, Strip Products, Port Talbot, West Glamorgan, SA13 2NG	Operator: Corus Uk Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BA6321 Date of approval: 01/06/1998	Effective from: 01/06/1998 Last date of update: 01/01/2015 Status: Superseded By Variation
A	On site	Corus Uk Ltd, Strip Products, Port Talbot, West Glamorgan, SA13 2NG	Operator: Corus Uk Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BA6321 Date of approval: 26/06/2000	Effective from: 21/07/2000 Last date of update: 01/01/2015 Status: Superseded By Variation
A	On site	Corus Uk Ltd, Strip Products, Port Talbot, West Glamorgan, SA13 2NG	Operator: Corus Uk Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BA6321 Date of approval: 01/02/2002	Effective from: 01/02/2002 Last date of update: 01/01/2015 Status: Superseded By Variation
A	On site	Corus Uk Ltd, Strip Products, Port Talbot, West Glamorgan, SA13 2NG	Operator: Corus Uk Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BA6321 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
A	On site	Corus Uk Ltd, Strip Products, Port Talbot, West Glamorgan, SA13 2NG	Operator: Corus Uk Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BA6321 Date of approval: 14/11/2008	Effective from: 12/12/2008 Last date of update: 01/01/2015 Status: Revoked/cancelled

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

4.13 Licensed Discharges to controlled waters

Records within 500m	20
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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 72 >](#)



ID	Location	Address	Details	
K	On site	AFAN WWTW, AFAN WWTW, PHOENIX WHARF, HARBOUR ROAD, PORT TALBOT, SA13 1RA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BP0284701 Permit Version: 0 Receiving Water: SWANSEA BAY	Status: Effective Issue date: 26/03/2021 Effective Date: 26/03/2021 Revocation Date: -
K	63m NW	CSO and EO at Abbey SPS, Phoenix Wharf, Steelworks, Port Talbot, SA13 1RB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BW0202801 Permit Version: 0 Receiving Water: Swansea Bay	Status: Effective Issue date: 21/07/2022 Effective Date: 21/07/2022 Revocation Date: -
K	63m NW	CSO and EO at Abbey SPS, Phoenix Wharf, Steelworks, Port Talbot, SA13 1RB	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BW0202801 Permit Version: 0 Receiving Water: Swansea Bay	Status: Effective Issue date: 21/07/2022 Effective Date: 21/07/2022 Revocation Date: -
X	68m N	CSO 122 18 DUKE STREET AFAN, CSO 122, 18 DUKE STREET, AFAN, NEATH PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0046201 Permit Version: 2 Receiving Water: CROESERW BROOK	Status: Effective Issue date: 07/02/2003 Effective Date: 08/02/2003 Revocation Date: -
X	68m N	CSO 122 18 DUKE STREET AFAN, CSO 122, 18 DUKE STREET, AFAN, NEATH PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BP0320201 Permit Version: 2 Receiving Water: UNDESIGNATED WATER	Status: Surrendered Issue date: 31/03/2009 Effective Date: 31/03/2010 Revocation Date: -
K	84m NW	AFAN PS, AFAN, NEATH PORT TALBOT CBC, WALESWN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BB3024901 Permit Version: 2 Receiving Water: TO SEA	Status: REVOKED (WRA 91, S88 & SCHD 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/12/2000 Effective Date: 22/12/2000 Revocation Date: 07/02/2007
K	85m NW	AFAN WWTW PHOENIX WHARF HARBOUR RD, AFAN WWTW, PHOENIX WHARF HARBOUR RD, PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BP0287701 Permit Version: 0 Receiving Water: SWANSEA BAY	Status: Effective Issue date: 01/12/2000 Effective Date: 01/12/2000 Revocation Date: -



ID	Location	Address	Details	
K	85m NW	AFAN WWTW PHOENIX WHARF HARBOUR RD, AFAN WWTW, PHOENIX WHARF HARBOUR RD, PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BP028770101 Permit Version: 1 Receiving Water: SWANSEA BAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 01/12/2000 Effective Date: 01/12/2000 Revocation Date: -
AC	123m W	PORT TALBOT STRIP PRODUCT WKS (ABBE, PORT TALBOT STRIP PRODUCT WKS (A, (ABBEY OUTFALL)	Effluent Type: FRESHWATER - UNSPECIFIED Permit Number: BP0059201 Permit Version: 2 Receiving Water: ABBEY BEACH (BRISTOL CHANNEL)	Status: REVOKED AND REPLACED BY IPC AUTHORISATION Issue date: 10/12/1992 Effective Date: 10/12/1992 Revocation Date: 30/08/1995
AC	123m W	PORT TALBOT STRIP PRODUCT WKS (ABBE, PORT TALBOT STRIP PRODUCT WKS (A, (ABBEY OUTFALL)	Effluent Type: SEWERAGE SYSTEM DISCHARGE Permit Number: BP0059201 Permit Version: 1 Receiving Water: ABBEY BEACH (BRISTOL CHANNEL)	Status: REVOKED - UNSPECIFIED Issue date: 16/09/1987 Effective Date: 16/09/1987 Revocation Date: 09/12/1992
75	266m N	ABERDULAIS SPS, ABERDULAIS, NEATH, NEATH PORT TALBOT	Effluent Type: UNSPECIFIED Permit Number: BW0202801 Permit Version: 1 Receiving Water: SWANSEA BAY VIA BETSI LAGOON	Status: REVOKED - UNSPECIFIED Issue date: 01/01/1901 Effective Date: 01/01/1901 Revocation Date: 09/05/1993
AP	298m NW	ABBAY SPS BRITISH STEEL SITE, ABBAY SPS, BRITISH STEEL SITE, PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BW0202801 Permit Version: 3 Receiving Water: Swansea Bay	Status: Effective Issue date: 01/12/2000 Effective Date: 01/12/2000 Revocation Date: -
AP	298m NW	ABBAY SPS BRITISH STEEL SITE, ABBAY SPS, BRITISH STEEL SITE, PORT TALBOT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BW0202801 Permit Version: 3 Receiving Water: Swansea Bay	Status: Effective Issue date: 01/12/2000 Effective Date: 01/12/2000 Revocation Date: -
AR	314m NW	MULTISERV GROUP LIMITED, CENTRAL WORKSHOP, METAL RECOVERY SITE, PORT TALBOT, WEST GLAMORGAN, SA13 1RA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WQD002493 Permit Version: 0 Receiving Water: Groundwater via infiltration system	Status: Effective Issue date: 26/11/2012 Effective Date: 26/11/2012 Revocation Date: -



ID	Location	Address	Details	
AR	314m NW	MULTISERV GROUP LIMITED, CENTRAL WORKSHOP, METAL RECOVERY SITE, PORT TALBOT, WEST GLAMORGAN, SA13 1RA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD002493 Permit Version: 1 Receiving Water: GROUNDWATERS VIA A SOAKAWAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 21/08/2008 Effective Date: 21/08/2008 Revocation Date: 25/11/2012
83	406m N	STP @ TATA STEEL STRIP PRODUCTS, LIMITED, TATA STEEL, PORT TALBOT STEELWORKS, PORT TALBOT, SA13 3NG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: XP3522XR Permit Version: 0 Receiving Water: ARNALLT BROOK	Status: Effective Issue date: 19/12/2012 Effective Date: 19/12/2012 Revocation Date: -
AU	415m NW	PORT TALBOT STRIP PRODUCT WORKS MAR, PORT TALBOT STRIP PRODUCT WORKS, STRIP PRODUCT WORKS MARGAM OUTFA, MARGAM OUTFALL	Effluent Type: SEWERAGE SYSTEM DISCHARGE Permit Number: BP0059202 Permit Version: 1 Receiving Water: SWANSEA BAY	Status: REVOKED - UNSPECIFIED Issue date: 16/09/1987 Effective Date: 16/09/1987 Revocation Date: 06/03/1993
AU	415m NW	PORT TALBOT STRIP PRODUCT WORKS MAR, PORT TALBOT STRIP PRODUCT WORKS, STRIP PRODUCT WORKS MARGAM OUTFA, MARGAM OUTFALL	Effluent Type: SEWERAGE SYSTEM DISCHARGE Permit Number: BP0059202 Permit Version: 3 Receiving Water: SWANSEA BAY	Status: REVOKED AND REPLACED BY IPC AUTHORISATION Issue date: 31/07/1995 Effective Date: 01/08/1995 Revocation Date: 30/08/1995
AU	415m NW	PORT TALBOT STRIP PRODUCT WORKS MAR, PORT TALBOT STRIP PRODUCT WORKS, STRIP PRODUCT WORKS MARGAM OUTFA, MARGAM OUTFALL	Effluent Type: SEWERAGE SYSTEM DISCHARGE Permit Number: BP0059202 Permit Version: 2 Receiving Water: SWANSEA BAY	Status: REVOKED - UNSPECIFIED Issue date: 07/12/1992 Effective Date: 07/03/1993 Revocation Date: 31/07/1995
84	495m E	BOC WORKS MARGAM - POINT D SURFACE, BOC WORKS MARGAM - POINT D SURFA, MARGAM - POINT D SURFACE WATER	Effluent Type: UNSPECIFIED Permit Number: BP0094104 Permit Version: 1 Receiving Water: MOTHER DITCH	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 11/08/1988 Effective Date: 11/08/1988 Revocation Date: 19/10/1992

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

4.14 Pollutant release to surface waters (Red List)

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

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



4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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**88**

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 72 >](#)

ID	Location	Details	
28	On site	Incident Date: 10/08/2001 Incident Identification: 23475 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	On site	Incident Date: 31/12/2015 Incident Identification: 1398595 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
E	On site	Incident Date: 12/08/2015 Incident Identification: 1363834 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	On site	Incident Date: 18/09/2014 Incident Identification: 1279023 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	On site	Incident Date: 18/09/2014 Incident Identification: 1278980 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	On site	Incident Date: 25/07/2015 Incident Identification: 1358510 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	On site	Incident Date: 27/09/2015 Incident Identification: 1376269 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	On site	Incident Date: 22/10/2015 Incident Identification: 1382824 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	On site	Incident Date: 12/08/2015 Incident Identification: 1363625 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	On site	Incident Date: 30/05/2016 Incident Identification: 1602784 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 31/05/2016 Incident Identification: 1602793 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 08/06/2016 Incident Identification: 1603101 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)



ID	Location	Details	
E	On site	Incident Date: 29/03/2016 Incident Identification: 1601282 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 07/08/2016 Incident Identification: 1604455 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 08/06/2016 Incident Identification: 1603101 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 07/08/2016 Incident Identification: 1604455 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 29/03/2016 Incident Identification: 1601282 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 30/05/2016 Incident Identification: 1602784 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
E	On site	Incident Date: 31/05/2016 Incident Identification: 1602793 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
J	On site	Incident Date: 04/06/2001 Incident Identification: 7480 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
J	On site	Incident Date: 04/06/2001 Incident Identification: 7480 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
G	5m N	Incident Date: 05/02/2002 Incident Identification: 56620 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)



ID	Location	Details	
A	11m N	Incident Date: 16/03/2002 Incident Identification: 64445 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)
36	27m N	Incident Date: 28/04/2001 Incident Identification: 3732 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	29m N	Incident Date: 02/04/2013 Incident Identification: 1099091 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	32m N	Incident Date: 12/06/2001 Incident Identification: 8742 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
P	35m N	Incident Date: 02/05/2001 Incident Identification: 4157 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	35m N	Incident Date: 19/06/2001 Incident Identification: 10219 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
41	46m NE	Incident Date: 24/03/2003 Incident Identification: 145304 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
R	54m N	Incident Date: 23/06/2015 Incident Identification: 1347680 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	58m N	Incident Date: 21/08/2013 Incident Identification: 1150322 Pollutant: Other Pollutant Pollutant Description: Radionuclid	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
T	58m N	Incident Date: 20/06/2003 Incident Identification: 167471 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
U	59m NW	Incident Date: 17/07/2015 Incident Identification: 1355980 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	67m NW	Incident Date: 20/10/2014 Incident Identification: 1288134 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AB	82m N	Incident Date: 09/05/2003 Incident Identification: 156989 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)
T	83m N	Incident Date: 20/06/2003 Incident Identification: 167479 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
47	85m N	Incident Date: 09/01/2003 Incident Identification: 130002 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)
AC	90m W	Incident Date: 02/08/2001 Incident Identification: 21679 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AC	90m W	Incident Date: 02/08/2001 Incident Identification: 21679 Pollutant: Inorganic Chemicals/Products:Organic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product:Hydrocarbons	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AC	90m W	Incident Date: 08/02/2001 Incident Identification: 21679 Pollutant: Organic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product Hydrocarbons	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AC	90m W	Incident Date: 08/02/2001 Incident Identification: 21679 Pollutant: Inorganic Chemicals/Products : Organic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product :Hydrocarbons	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)



ID	Location	Details	
AC	90m W	Incident Date: 02/08/2001 Incident Identification: 21679 Pollutant: Organic Chemicals/Products Pollutant Description: Hydrocarbons	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
50	97m NW	Incident Date: 08/08/2002 Incident Identification: 98648 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)
H	99m NW	Incident Date: 14/09/2001 Incident Identification: 30875 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AC	102m W	Incident Date: 01/07/2001 Incident Identification: 12537 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
55	128m N	Incident Date: 16/07/2002 Incident Identification: 91853 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AH	131m N	Incident Date: 29/09/2003 Incident Identification: 193066 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)
AH	131m N	Incident Date: 29/09/2003 Incident Identification: 193047 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)
AH	131m N	Incident Date: 29/09/2003 Incident Identification: 193071 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)
AH	131m N	Incident Date: 29/09/2003 Incident Identification: 193094 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)
59	138m N	Incident Date: 16/08/2003 Incident Identification: 182664 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	
AF	140m SE	Incident Date: 09/10/2001 Incident Identification: 35422 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
AJ	183m N	Incident Date: 10/03/2003 Incident Identification: 142109 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AJ	190m N	Incident Date: 13/03/2003 Incident Identification: 142945 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AJ	195m N	Incident Date: 02/08/2002 Incident Identification: 97000 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AJ	203m N	Incident Date: 03/04/2001 Incident Identification: 1507 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)
Y	208m SW	Incident Date: 29/04/2016 Incident Identification: 1602085 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
Y	208m SW	Incident Date: 29/04/2016 Incident Identification: 1602085 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
AL	211m NE	Incident Date: 18/05/2003 Incident Identification: 159086 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)
AL	211m NE	Incident Date: 18/05/2003 Incident Identification: 159087 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)
AL	211m NE	Incident Date: 18/05/2003 Incident Identification: 159088 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
Y	212m SW	Incident Date: 11/02/2016 Incident Identification: 1601372 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: No Details Air Impact: Category 2 (Significant)
Y	215m SW	Incident Date: 13/04/2016 Incident Identification: 1601692 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
Y	215m SW	Incident Date: 13/04/2016 Incident Identification: 1601692 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: No Details Air Impact: Category 3 (Minor)
AM	216m NE	Incident Date: 29/07/2002 Incident Identification: 95260 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AM	216m NE	Incident Date: 29/07/2002 Incident Identification: 95260 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Y	218m SW	Incident Date: 26/02/2021 Incident Identification: 2102141 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: No Details Land Impact: No Details Air Impact: Category 2 (Significant)
AN	234m NE	Incident Date: 13/08/2003 Incident Identification: 181885 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)
AN	238m NE	Incident Date: 24/04/2003 Incident Identification: 153701 Pollutant: Contaminated Water Pollutant Description: Backwash Effluent	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
72	240m N	Incident Date: 11/02/2014 Incident Identification: 1205855 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
73	244m NW	Incident Date: 24/01/2015 Incident Identification: 1308754 Pollutant: Multiple Pollutants Pollutant Description: 3 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
AO	245m NE	Incident Date: 02/04/2001 Incident Identification: 1412 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)
AM	253m NE	Incident Date: 05/06/2003 Incident Identification: 163461 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
AM	265m NE	Incident Date: 09/10/2001 Incident Identification: 35394 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
AO	269m NE	Incident Date: 07/08/2014 Incident Identification: 1265950 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
AN	269m NE	Incident Date: 26/08/2003 Incident Identification: 185124 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)
AM	282m NE	Incident Date: 26/05/2003 Incident Identification: 160773 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)
AM	284m NE	Incident Date: 04/02/2003 Incident Identification: 134884 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)
AQ	300m NE	Incident Date: 07/03/2003 Incident Identification: 141848 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
AQ	300m NE	Incident Date: 07/03/2003 Incident Identification: 141848 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
76	315m NE	Incident Date: 16/05/2013 Incident Identification: 1113220 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
77	324m N	Incident Date: 26/04/2019 Incident Identification: 1902676 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: No Details Land Impact: No Details Air Impact: Category 2 (Significant)
78	340m NE	Incident Date: 03/08/2001 Incident Identification: 21721 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
80	391m N	Incident Date: 16/03/2002 Incident Identification: 64447 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)
81	404m NE	Incident Date: 20/04/2002 Incident Identification: 73347 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
82	404m NE	Incident Date: 24/09/2014 Incident Identification: 1280978 Pollutant: Multiple Pollutants Pollutant Description: 2 Pollutants Including Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AV	480m NE	Incident Date: 08/09/2002 Incident Identification: 106758 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
AV	480m NE	Incident Date: 25/01/2003 Incident Identification: 133389 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)

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

4.19 Pollution inventory substances

Records within 500m	0
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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

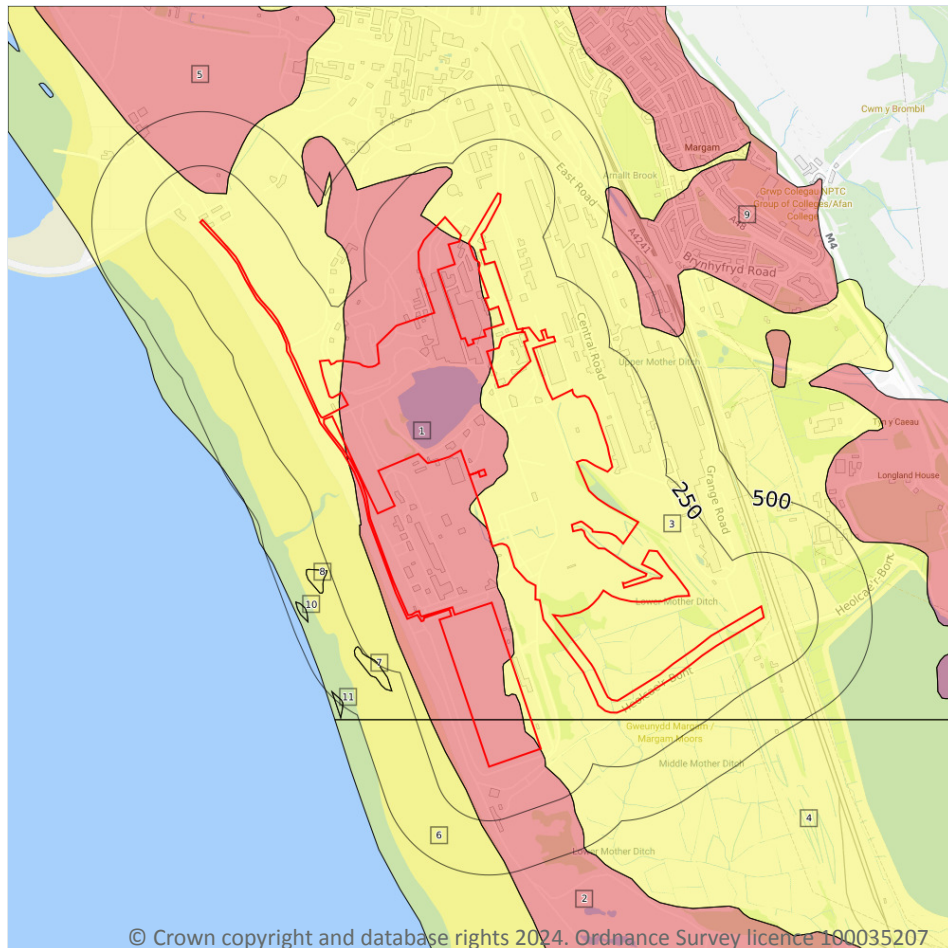
0

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

11

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 138](#) >

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

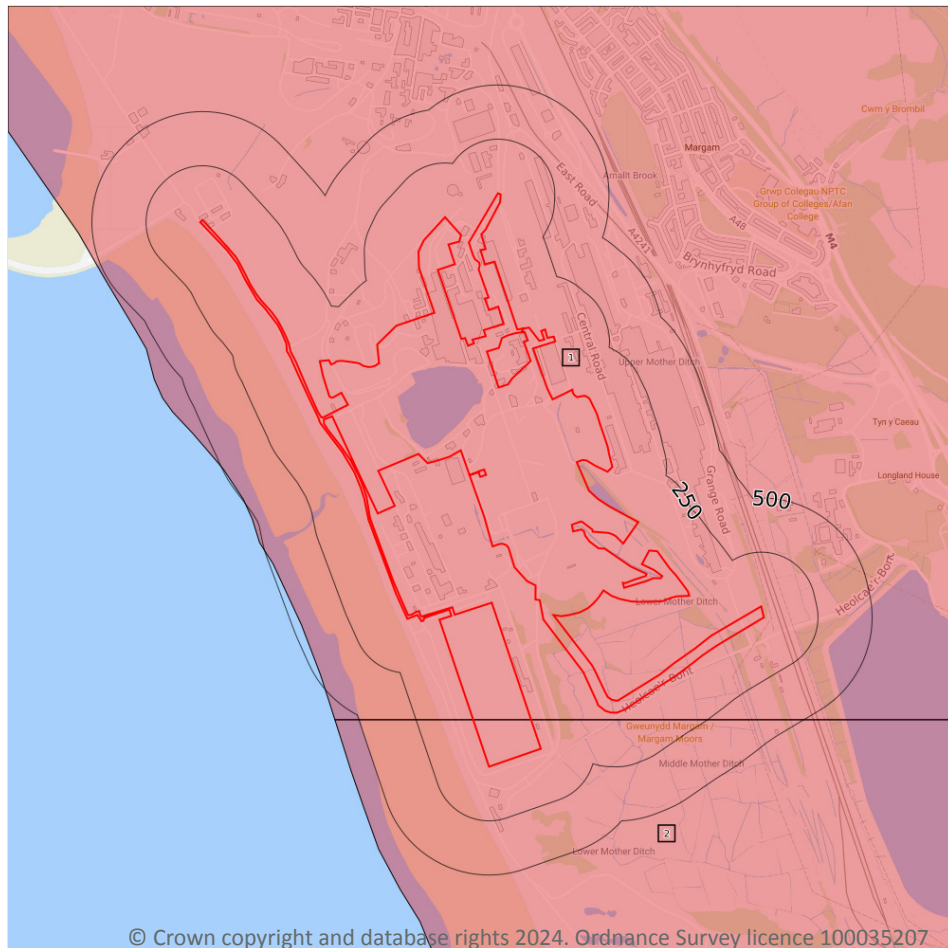


ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	125m NW	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
6	144m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	244m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	262m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	408m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
10	416m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	483m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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

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5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 140](#) >

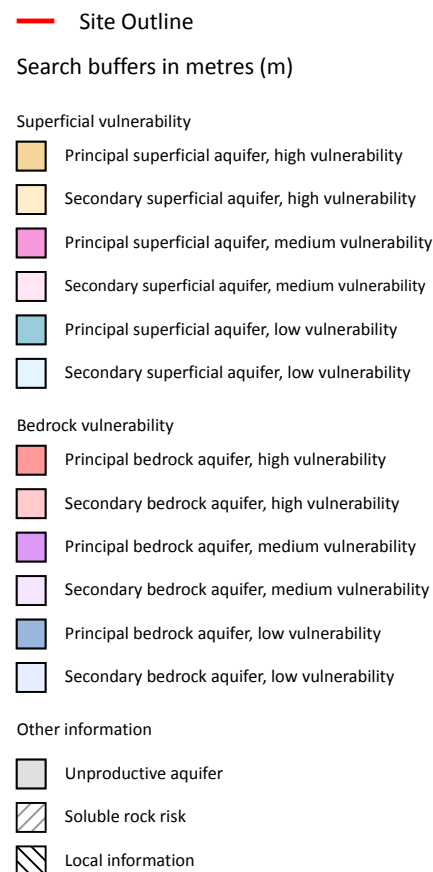
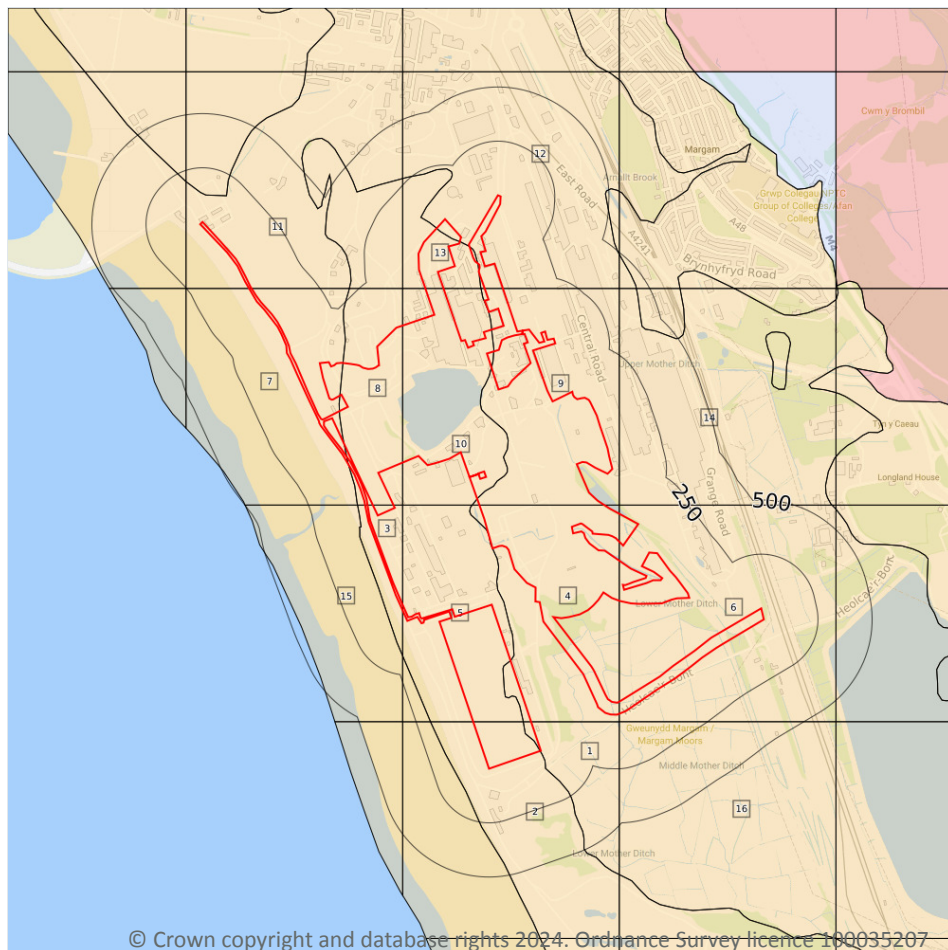
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary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

16

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 142](#) >



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: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: No Data% Dilution value: No Datamm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	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: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	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: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	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: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



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



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	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: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
14	32m E	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
15	34m W	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: No Data% Dilution value: No Datamm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
16	34m SE	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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



5.5 Groundwater vulnerability- local information

Records on site

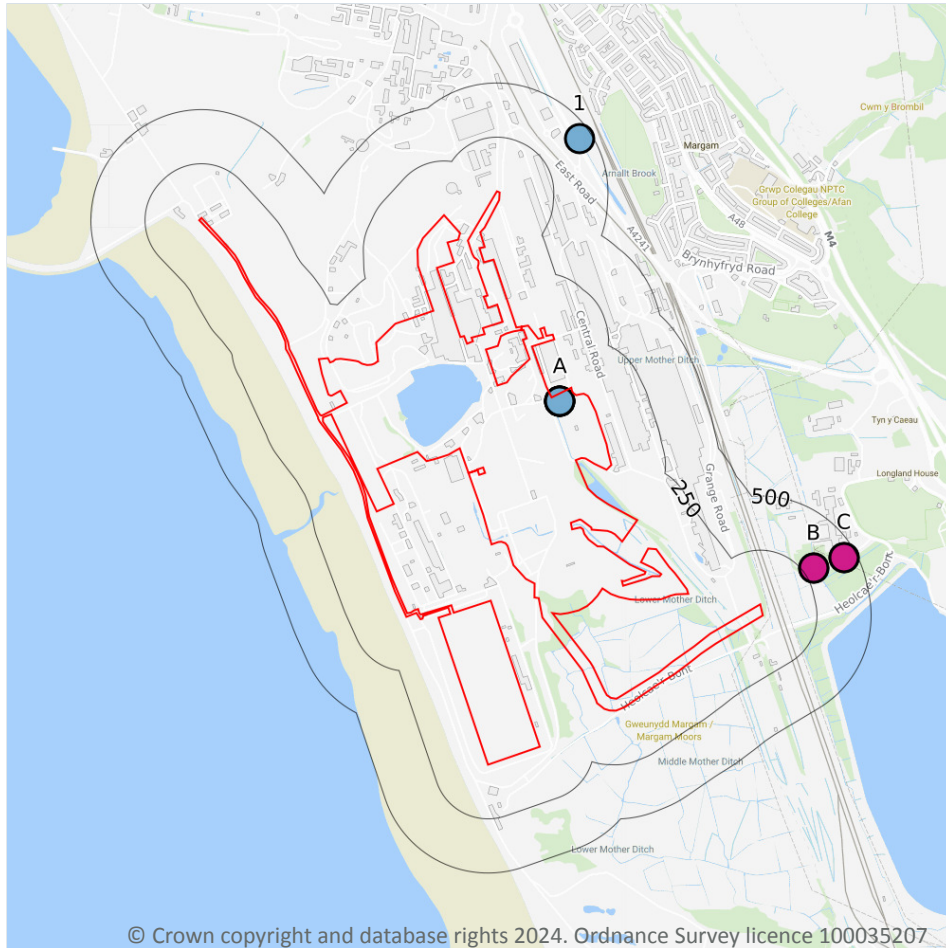
0

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

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



Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

5

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 147](#) >

ID	Location	Details	
B	296m E	Status: Active Licence No: 21/58/34/0003 Details: Evaporative Cooling - High Direct Source: Superficial Gravels Point: - Data Type: Point Name: - Easting: 278900 Northing: 185690	Annual Volume (m ³): 183960 Max Daily Volume (m ³): 501.6 Original Application No: - Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
B	296m E	Status: Historical Licence No: 21/58/34/0003 Details: Evaporative Cooling Direct Source: EAW Groundwater Point: BOREHOLE 1 AT BOC MARGAM Data Type: Point Name: BOC Limited Easting: 278900 Northing: 185690	Annual Volume (m ³): 183960 Max Daily Volume (m ³): 501.6 Original Application No: - Original Start Date: 16/01/2009 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 16/01/2009 Version End Date: -
C	441m E	Status: Active Licence No: 21/58/34/0003 Details: Evaporative Cooling - High Direct Source: Superficial Gravels Point: - Data Type: Point Name: - Easting: 279040 Northing: 185740	Annual Volume (m ³): 0 Max Daily Volume (m ³): 501.6 Original Application No: - Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
C	441m E	Status: Historical Licence No: 21/58/34/0003 Details: Evaporative Cooling Direct Source: EAW Groundwater Point: BOREHOLE 2 AT BOC MARGAM Data Type: Point Name: BOC Limited Easting: 279040 Northing: 185740	Annual Volume (m ³): 183960 Max Daily Volume (m ³): 501.6 Original Application No: - Original Start Date: 16/01/2009 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 16/01/2009 Version End Date: -
-	1613m SE	Status: Historical Licence No: 21/58/44/0033 Details: Spray Irrigation - Storage Direct Source: EAW Groundwater Point: LAKESIDE GOLF CLUB PRODUCTION BOREHOLE Data Type: Point Name: SPEED9280 LTD Easting: 280160 Northing: 184860	Annual Volume (m ³): 2700 Max Daily Volume (m ³): 35 Original Application No: - Original Start Date: 21/02/2005 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2006 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m

33

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 147 >](#)

ID	Location	Details	
A	On site	Status: Active Licence No: 21/58/34/0002 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 277730 Northing: 186460	Annual Volume (m ³): 1227420 Max Daily Volume (m ³): 3364.04 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	On site	Status: Active Licence No: 21/58/34/0002 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 277730 Northing: 186460	Annual Volume (m ³): 1227420 Max Daily Volume (m ³): 3364 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	On site	Status: Historical Licence No: 21/58/34/0002 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 277730 Northing: 186460	Annual Volume (m ³): 1227420 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	On site	Status: Historical Licence No: 21/58/34/0002 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 277730 Northing: 186460	Annual Volume (m ³): 1227420 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
A	On site	Status: Historical Licence No: 21/58/34/0002 Details: Process Water Direct Source: EAW Surface Water Point: DITCH PASSING THROUGH ABBEY WORKS (MOTHER DITCH POINT B) Data Type: Point Name: Tata Steel UK Limited Easting: 277730 Northing: 186460	Annual Volume (m³): 1227420 Max Daily Volume (m³): 3364.04 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
A	On site	Status: Historical Licence No: 21/58/34/0002 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: DITCH PASSING THROUGH ABBEY WORKS (MOTHER DITCH POINT B) Data Type: Point Name: Tata Steel UK Limited Easting: 277730 Northing: 186460	Annual Volume (m³): 1227420 Max Daily Volume (m³): 3364.04 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
1	443m N	Status: Historical Licence No: WA/058/0034/001 Details: Dust Suppression Direct Source: EAW Surface Water Point: ARNALLT CULVERT-BROOK PORT TALBOT Data Type: Point Name: Costain Limited Easting: 277820 Northing: 187673	Annual Volume (m³): 36800 Max Daily Volume (m³): 200 Original Application No: - Original Start Date: 05/08/2011 Expiry Date: 31/12/2014 Issue No: 1 Version Start Date: 05/08/2011 Version End Date: -
-	1283m N	Status: Active Licence No: 21/58/61/0012 Details: Non Evaporative Cooling - Low Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m³): 206615700 Max Daily Volume (m³): 590980 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1283m N	Status: Active Licence No: 21/58/61/0012 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m³): 206615700 Max Daily Volume (m³): 590980 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	1283m N	Status: Historical Licence No: 21/58/61/0012 Details: Non Evaporative Cooling - Low Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1283m N	Status: Historical Licence No: 21/58/61/0012 Details: Non-Evaporative Cooling Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS Data Type: Point Name: Tata Steel UK Limited Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): 590980 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
-	1283m N	Status: Historical Licence No: 21/58/61/0012 Details: Process Water Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS Data Type: Point Name: Tata Steel UK Limited Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): 590980 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
-	1283m N	Status: Historical Licence No: 21/58/61/0012 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276890 Northing: 188590	Annual Volume (m ³): 206615700 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1469m N	Status: Active Licence No: 21/58/61/0024 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.36 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	1469m N	Status: Active Licence No: 21/58/61/0024 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.4 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1469m N	Status: Historical Licence No: 21/58/61/0024 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1469m N	Status: Historical Licence No: 21/58/61/0024 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1469m N	Status: Historical Licence No: 21/58/61/0024 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: RIVER FFRWDWYLLT Data Type: Point Name: Tata Steel UK Limited Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.36 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
-	1469m N	Status: Historical Licence No: 21/58/61/0024 Details: Process Water Direct Source: EAW Surface Water Point: RIVER FFRWDWYLLT Data Type: Point Name: Tata Steel UK Limited Easting: 277150 Northing: 188870	Annual Volume (m ³): 2273000 Max Daily Volume (m ³): 9819.36 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -



ID	Location	Details	
-	1561m NW	Status: Historical Licence No: 21/58/61/0042 Details: Dust Suppression Direct Source: EAW Surface Water Point: CIVIL & MARINE SLAG CEMENT LTD QUAY AT PORT TALBOT DOCKS Data Type: Point Name: Civil and Marine Ltd Easting: 276240 Northing: 188860	Annual Volume (m ³): 5000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 15/04/2002 Expiry Date: 14/04/2017 Issue No: 3 Version Start Date: 12/09/2008 Version End Date: -
-	1575m N	Status: Historical Licence No: WA/058/0061/004 Details: Dust Suppression Direct Source: EAW Surface Water Point: PORT TALBOT DOCK AT MARGAM MOORS Data Type: Point Name: Costain Limited Easting: 276967 Northing: 188933	Annual Volume (m ³): 36800 Max Daily Volume (m ³): 200 Original Application No: - Original Start Date: 05/08/2011 Expiry Date: 31/12/2014 Issue No: 1 Version Start Date: 05/08/2011 Version End Date: -
-	1580m NW	Status: Active Licence No: 21/58/61/0042 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276230 Northing: 188880	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 01/05/2014 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1580m NW	Status: Historical Licence No: 21/58/61/0042 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 276230 Northing: 188880	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 397.44 Original Application No: - Original Start Date: 01/05/2014 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1580m NW	Status: Historical Licence No: 21/58/61/0042 Details: Dust Suppression Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS PORT TALBOT Data Type: Point Name: Civil and Marine Ltd Easting: 276230 Northing: 188880	Annual Volume (m ³): 5000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 15/04/2002 Expiry Date: 14/04/2017 Issue No: 4 Version Start Date: 21/05/2010 Version End Date: -



ID	Location	Details	
-	1580m NW	Status: Historical Licence No: 21/58/61/0042 Details: Process Water Direct Source: EAW Surface Water Point: PORT TALBOT DOCKS PORT TALBOT Data Type: Point Name: Civil and Marine Ltd Easting: 276230 Northing: 188880	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 49.68 Original Application No: - Original Start Date: 15/04/2002 Expiry Date: 31/03/2029 Issue No: 5 Version Start Date: 01/05/2014 Version End Date: -
-	1736m E	Status: Active Licence No: 21/58/51/0004 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 280400 Northing: 185370	Annual Volume (m ³): 0 Max Daily Volume (m ³): 60007.2 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1736m E	Status: Active Licence No: 21/58/51/0004 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 280400 Northing: 185370	Annual Volume (m ³): 11819600 Max Daily Volume (m ³): 60007.2 Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1736m E	Status: Historical Licence No: 21/58/51/0004 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 280400 Northing: 185370	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1736m E	Status: Historical Licence No: 21/58/51/0004 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: TYDU BROOK (CASTLE STREAM) Data Type: Point Name: Tata Steel UK Limited Easting: 280400 Northing: 185370	Annual Volume (m ³): 11819600 Max Daily Volume (m ³): 92738 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -



ID	Location	Details	
-	1736m E	Status: Historical Licence No: 21/58/51/0004 Details: Process Water Direct Source: EAW Surface Water Point: TYDU BROOK (CASTLE STREAM) Data Type: Point Name: Tata Steel UK Limited Easting: 280400 Northing: 185370	Annual Volume (m ³): 11819600 Max Daily Volume (m ³): 92738 Original Application No: - Original Start Date: 25/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 12/11/2010 Version End Date: -
-	1736m E	Status: Historical Licence No: 21/58/51/0004 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 280400 Northing: 185370	Annual Volume (m ³): 11819600 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1818m E	Status: Active Licence No: WA/058/0051/0002 Details: Hydro-electric Power Generation - Very Low Direct Source: Fish Pond on Nant Cwm Philip Point: - Data Type: Point Name: - Easting: 280270 Northing: 186360	Annual Volume (m ³): 7884400 Max Daily Volume (m ³): 21600 Original Application No: - Original Start Date: 03/09/2018 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1818m E	Status: Historical Licence No: WA/058/0051/0002 Details: Hydro-electric Power Generation - Very Low Direct Source: Fish Pond on Nant Cwm Philip Point: - Data Type: Point Name: - Easting: 280270 Northing: 186360	Annual Volume (m ³): 7884400 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/09/2018 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

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

5.8 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
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

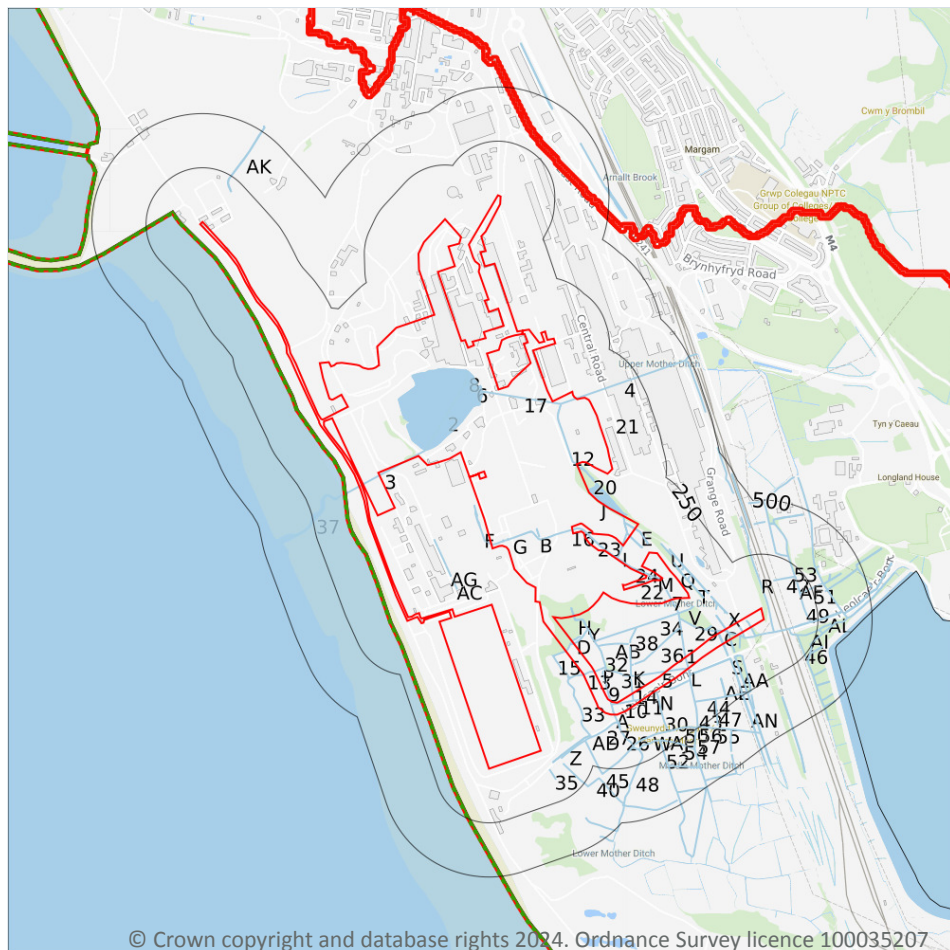
Records within 500m	0
---------------------	---

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

195

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 157 >](#)

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



ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Mother Ditch
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Mother Ditch
4	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Upper Mother Ditch
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
6	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Mother Ditch
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
8	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
10	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
12	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
13	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
15	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
17	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Upper Mother Ditch
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Middle Mother Ditch
M	3m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
I	3m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
23	4m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	4m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
N	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	6m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
C	7m 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
C	7m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	8m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
M	8m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	8m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	11m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	11m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	12m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	14m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	16m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	16m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	24m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	24m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	24m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Middle Mother Ditch



ID	Location	Type of water feature	Ground level	Permanence	Name
J	24m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
L	25m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	27m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	27m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	27m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	30m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	32m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	32m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	32m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	33m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	33m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	35m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
A	35m 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
T	35m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
27	35m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	36m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	36m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	40m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	42m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	42m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	42m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
V	44m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	45m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	45m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
30	45m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	46m 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
L	46m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	48m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Middle Mother Ditch
C	50m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	50m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
31	53m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
P	53m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
Q	54m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	55m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
32	55m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
X	57m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
33	58m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	58m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	59m 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
Q	59m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	61m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	65m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	66m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	66m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	66m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
34	67m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	68m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
K	72m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	74m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	77m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	77m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	78m 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
Y	78m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	80m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	80m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	81m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	84m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	91m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
35	94m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	94m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	100m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	100m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	100m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
36	101m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
37	102m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Upper Mother Ditch



ID	Location	Type of water feature	Ground level	Permanence	Name
38	108m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	109m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	111m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	114m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
40	117m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	123m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	123m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	124m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AD	125m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	125m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	125m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
X	126m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	127m 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
AD	128m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	128m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	132m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
42	139m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
43	140m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Middle Mother Ditch
44	140m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	146m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	151m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	152m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	158m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
45	159m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	162m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
W	166m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch



ID	Location	Type of water feature	Ground level	Permanence	Name
46	170m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	170m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	177m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	177m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
W	177m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
47	185m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	185m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	187m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
48	187m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lower Mother Ditch
AJ	188m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
49	190m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
50	190m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	191m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AK	191m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
51	192m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	192m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	195m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
52	201m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	201m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	201m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	208m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AG	208m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	208m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	211m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	212m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	213m 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
53	214m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	223m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
54	228m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	231m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	238m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AE	242m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	242m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	243m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	244m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
55	244m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
56	244m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Middle Mother Ditch
57	245m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Middle Mother Ditch

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

36

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 157 >](#)

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 157 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
20	On site	Coastal catchment	Not part of a river WB catchment	329	Kenfig	Tawe to Cadoxton

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 157 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
28	40m W	Coastal	Swansea Bay	GB641008260000	Moderate	Fail	Good	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 157 >](#)

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

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



Distance	Flood risk category
On site	Medium
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

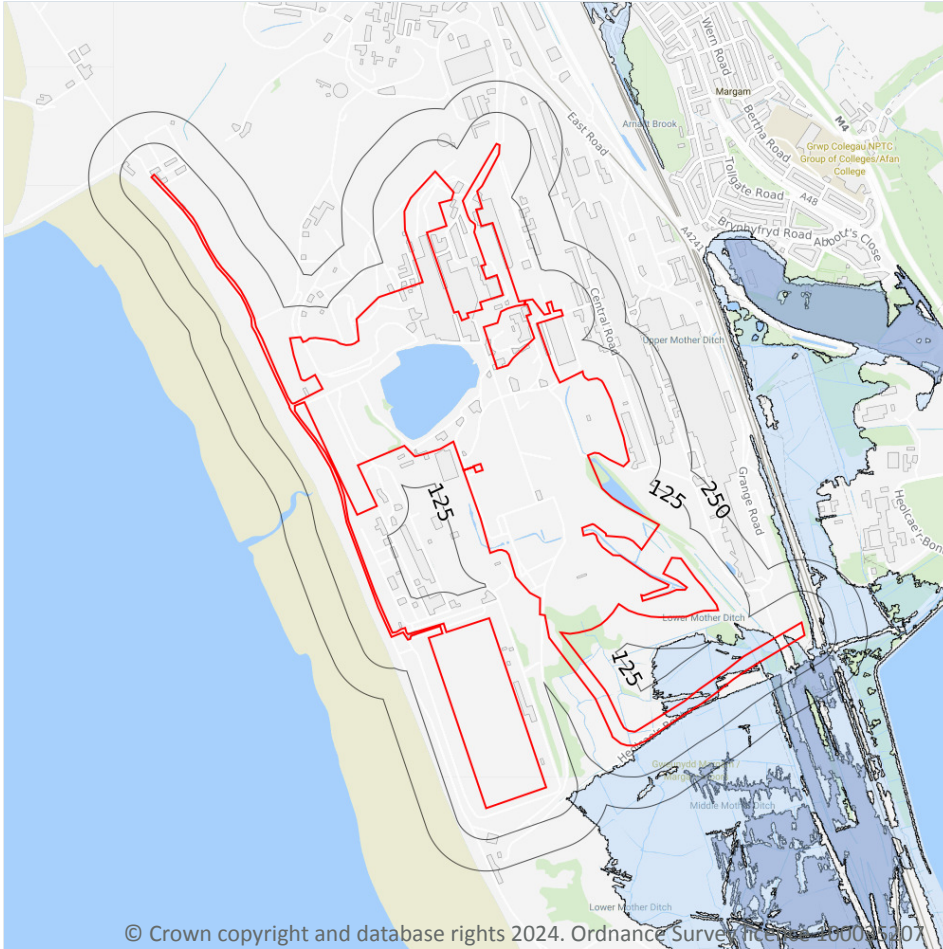
Records within 250m	0
---------------------	---

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

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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 175 >](#)

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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



7.7 Flood Zone 3

Records within 50m
0

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.

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on [page 179 >](#)

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



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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Between 0.3m and 1.0m

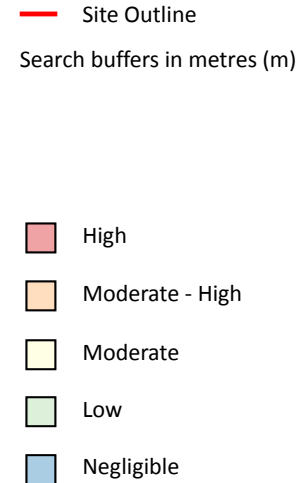
This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



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9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

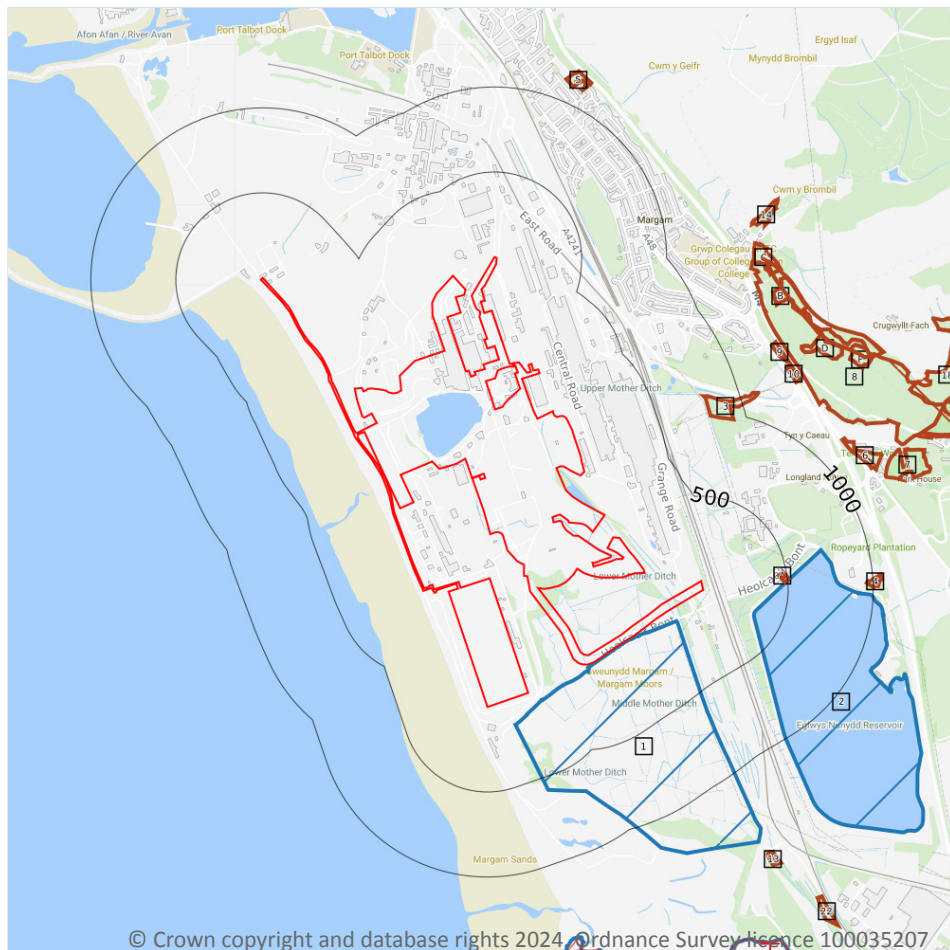
Moderate

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 181](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- X National Nature Reserves (NNR)
- + Local Nature Reserves (LNR)
- / Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

4

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 182](#) >

ID	Location	Name	Data source
1	3m SE	Margam Moors	Natural Resources Wales



ID	Location	Name	Data source
2	331m SE	Eglwys Nunydd Reservoir	Natural Resources Wales
11	1452m S	Cynffig / Kenfig	Natural Resources Wales
-	1561m S	Cynffig / Kenfig	Natural Resources Wales

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

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 182 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
E	1452m S	Kenfig / Cynffig	Intertidal mudflats and sandflats; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Shifting dunes with marram; Dune grassland; Coastal dune heathland; Dunes with sea-buckthorn; Dunes with creeping willow; Humid dune slacks; Calcium-rich nutrient-poor lakes, lochs and pools; Dry grasslands and scrublands on chalk or limestone; Alder woodland on floodplains; Great crested newt; Lesser horseshoe bat; Petalwort; Fen orchid.	Broad-leaved deciduous woodland; Coastal sand dunes, Sand beaches, Machair; Inland water bodies (Standing water, Running water); Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Shingle, Sea cliffs, Islets; Heath, Scrub, Maquis and Garrigue, Phygrana; Bogs, Marshes, Water fringed vegetation, Fens	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 182 >](#)

ID	Location	Name	Data source
12	1462m S	Kenfig Pool And Dunes	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 182 >](#)

ID	Location	Name	Data source
E	1493m S	Kenfig Pool and Dunes	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**37**

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 182 >](#)

ID	Location	Name	Woodland Type
A	453m E	Unknown	Ancient Semi Natural Woodland
A	467m E	Unknown	Ancient Woodland Site of Unknown Category
3	798m NE	Unknown	Restored Ancient Woodland Site
4	962m E	Unknown	Restored Ancient Woodland Site
5	1101m N	Unknown	Ancient Semi Natural Woodland
6	1169m E	Unknown	Restored Ancient Woodland Site
7	1248m E	Unknown	Restored Ancient Woodland Site
8	1253m E	Unknown	Ancient Semi Natural Woodland
9	1275m NE	Unknown	Ancient Semi Natural Woodland
10	1296m E	Unknown	Ancient Semi Natural Woodland
B	1406m NE	Unknown	Plantation on Ancient Woodland Site
C	1406m NE	Unknown	Plantation on Ancient Woodland Site
D	1433m NE	Unknown	Plantation on Ancient Woodland Site
C	1478m NE	Unknown	Ancient Semi Natural Woodland
B	1480m NE	Unknown	Plantation on Ancient Woodland Site
C	1482m NE	Unknown	Plantation on Ancient Woodland Site
B	1484m NE	Unknown	Plantation on Ancient Woodland Site
B	1490m NE	Unknown	Ancient Semi Natural Woodland
13	1500m SE	Unknown	Ancient Semi Natural Woodland
D	1512m NE	Unknown	Ancient Semi Natural Woodland
14	1516m NE	Unknown	Ancient Semi Natural Woodland
D	1532m NE	Unknown	Ancient Woodland Site of Unknown Category
-	1560m E	Unknown	Ancient Semi Natural Woodland
17	1565m E	Unknown	Ancient Semi Natural Woodland
D	1567m NE	Unknown	Plantation on Ancient Woodland Site
F	1572m E	Unknown	Plantation on Ancient Woodland Site



ID	Location	Name	Woodland Type
F	1620m E	Unknown	Plantation on Ancient Woodland Site
-	1645m E	Unknown	Restored Ancient Woodland Site
F	1663m E	Unknown	Ancient Semi Natural Woodland
18	1667m E	Unknown	Plantation on Ancient Woodland Site
-	1676m E	Unknown	Ancient Woodland Site of Unknown Category
-	1702m E	Unknown	Restored Ancient Woodland Site
20	1791m E	Unknown	Ancient Semi Natural Woodland
-	1807m E	Unknown	Restored Ancient Woodland Site
22	1882m SE	Unknown	Ancient Semi Natural Woodland
-	1973m E	Unknown	Ancient Semi Natural Woodland
-	1995m E	Unknown	Ancient Semi Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**0**

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

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

0

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

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



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site	0
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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

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

0

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.



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

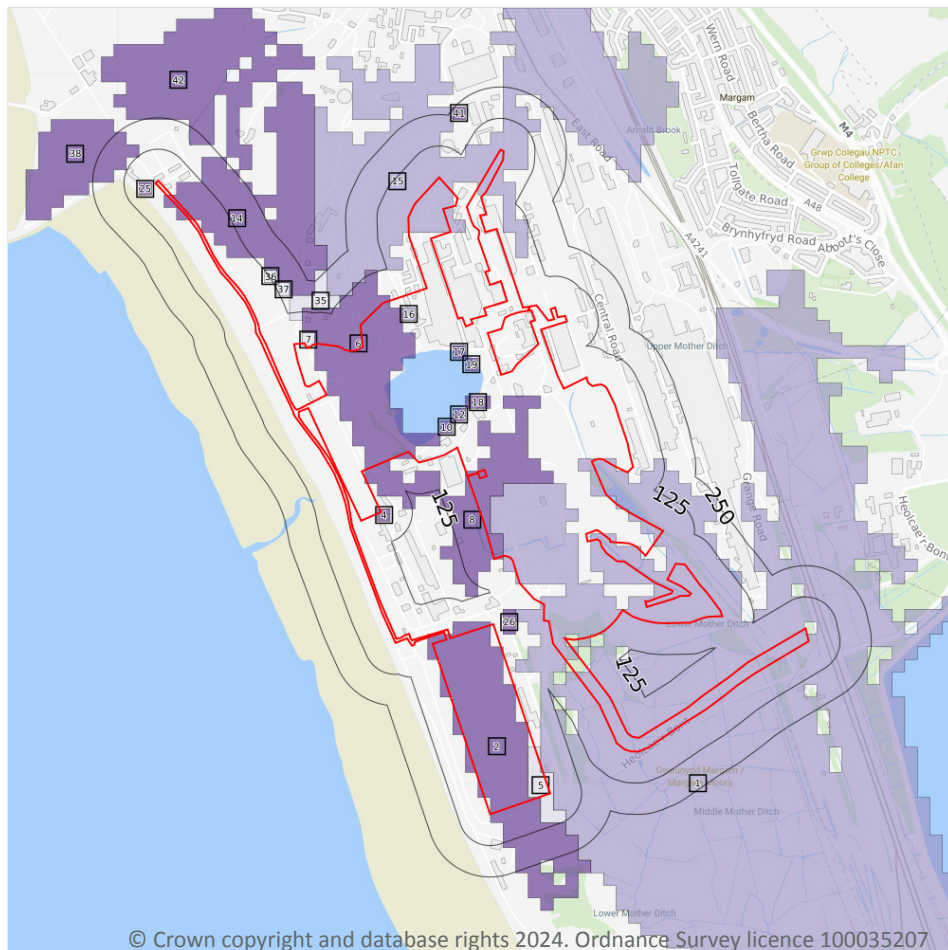
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

23

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 192](#) >

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



ID	Location	Classification	Description
5	On site	Grade 3b	Moderate quality agricultural land
6	On site	Grade 5	Very poor quality agricultural land
7	On site	Grade 3b	Moderate quality agricultural land
8	On site	Grade 5	Very poor quality agricultural land
10	On site	Grade 5	Very poor quality agricultural land
12	On site	Grade 5	Very poor quality agricultural land
14	On site	Grade 5	Very poor quality agricultural land
15	On site	Grade 4	Poor quality agricultural land
16	On site	Grade 4	Poor quality agricultural land
17	On site	Grade 5	Very poor quality agricultural land
18	On site	Grade 5	Very poor quality agricultural land
19	On site	Grade 5	Very poor quality agricultural land
25	16m NW	Grade 5	Very poor quality agricultural land
26	24m S	Grade 5	Very poor quality agricultural land
35	91m NW	Grade 3b	Moderate quality agricultural land
36	95m NW	Grade 3b	Moderate quality agricultural land
37	115m NW	Grade 3b	Moderate quality agricultural land
38	120m NW	Grade 5	Very poor quality agricultural land
41	184m N	Grade 5	Very poor quality agricultural land
42	189m NW	Grade 5	Very poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

0

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

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



12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

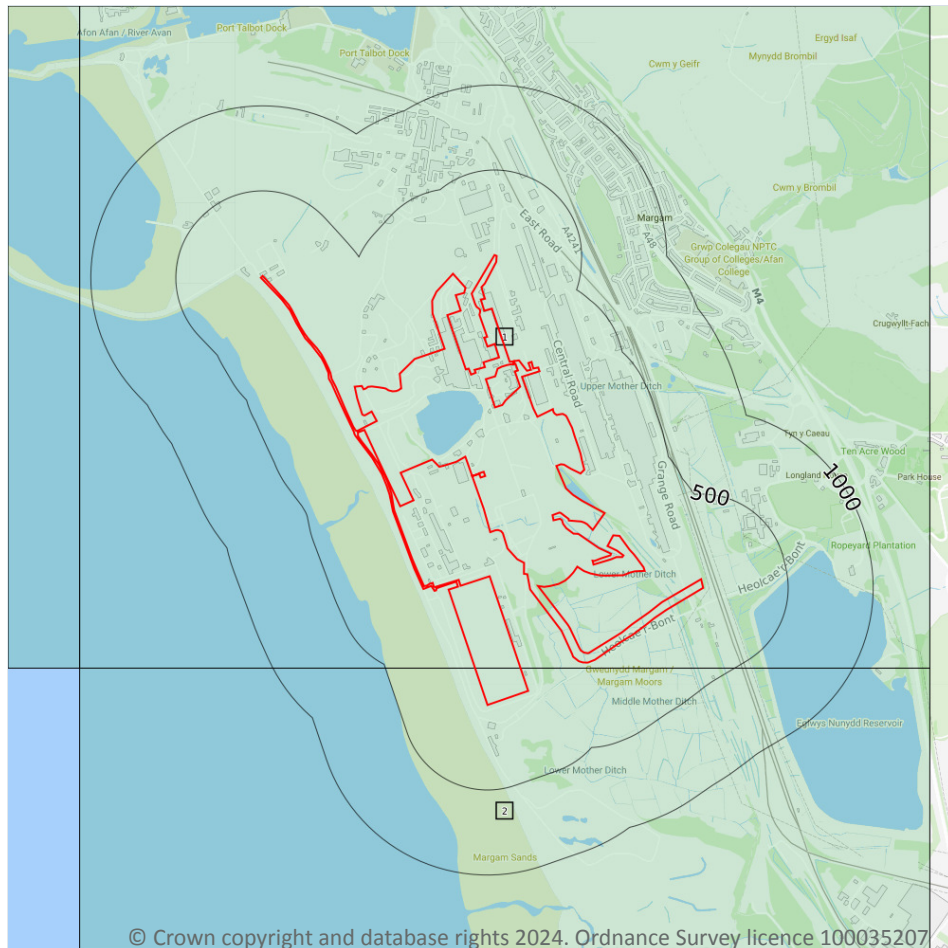
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Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

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

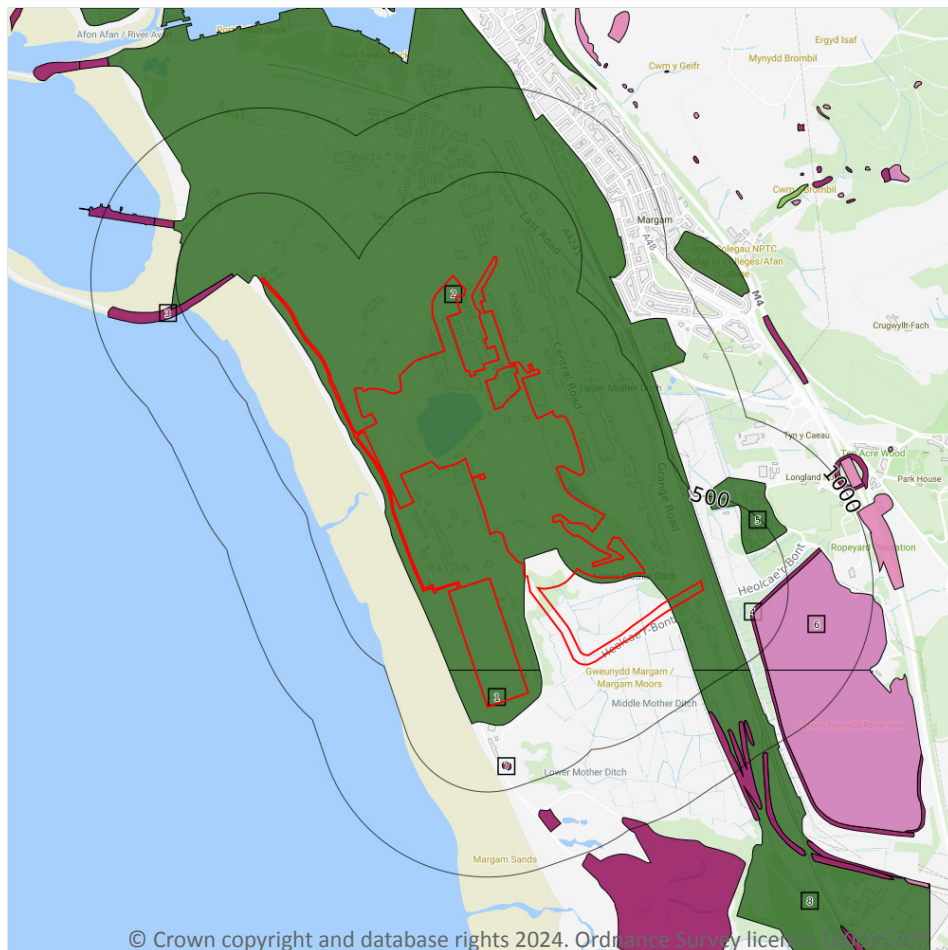
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 196](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SS78NE
2	On site	Full	Full	Full	No coverage	SS78SE

This data is sourced from the British Geological Survey.



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



— Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m

8

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 197](#) >

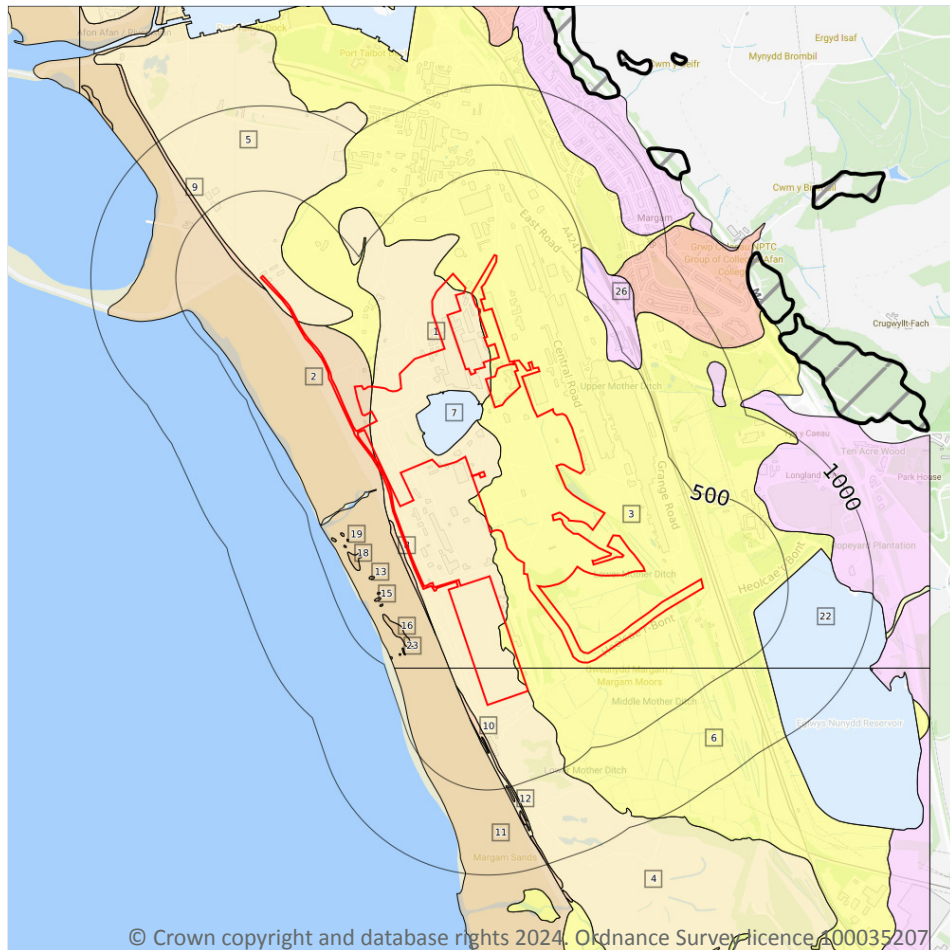
ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
2	On site	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
3	159m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	308m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit



ID	Location	LEX Code	Description	Rock description
5	311m E	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
6	331m SE	WGR-VOID	Worked Ground (Undivided)	Void
7	338m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	373m SE	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

28

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 199](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	BSA-S	Blown Sand - Sand	Sand
2	On site	BCHD-XSV	Beach Deposits - Sand And Gravel	Sand And Gravel
3	On site	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
4	On site	BSA-S	Blown Sand - Sand	Sand



ID	Location	LEX Code	Description	Rock description
5	On site	BSA-S	Blown Sand - Sand	Sand
6	On site	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand
7	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
8	21m SW	STOB-V	Storm Beach Deposits - Gravel	Gravel
9	22m NW	STOB-V	Storm Beach Deposits - Gravel	Gravel
10	100m S	STOB-V	Storm Beach Deposits - Gravel	Gravel
11	128m S	BCHD-XSV	Beach Deposits - Sand And Gravel	Sand And Gravel
12	133m S	BSA-S	Blown Sand - Sand	Sand
13	237m SW	SUF-P	Submerged Forest - Peat	Peat
14	241m SW	SUF-P	Submerged Forest - Peat	Peat
15	251m SW	SUF-P	Submerged Forest - Peat	Peat
16	255m SW	SUF-P	Submerged Forest - Peat	Peat
17	255m SW	SUF-P	Submerged Forest - Peat	Peat
18	263m SW	SUF-P	Submerged Forest - Peat	Peat
19	305m W	SUF-P	Submerged Forest - Peat	Peat
20	318m W	SUF-P	Submerged Forest - Peat	Peat
21	330m SW	SUF-P	Submerged Forest - Peat	Peat
22	331m SE	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
23	362m SW	SUF-P	Submerged Forest - Peat	Peat
24	373m W	SUF-P	Submerged Forest - Peat	Peat
25	387m SW	SUF-P	Submerged Forest - Peat	Peat
26	407m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
27	442m SW	SUF-P	Submerged Forest - Peat	Peat
28	488m S	STOB-V	Storm Beach Deposits - Gravel	Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

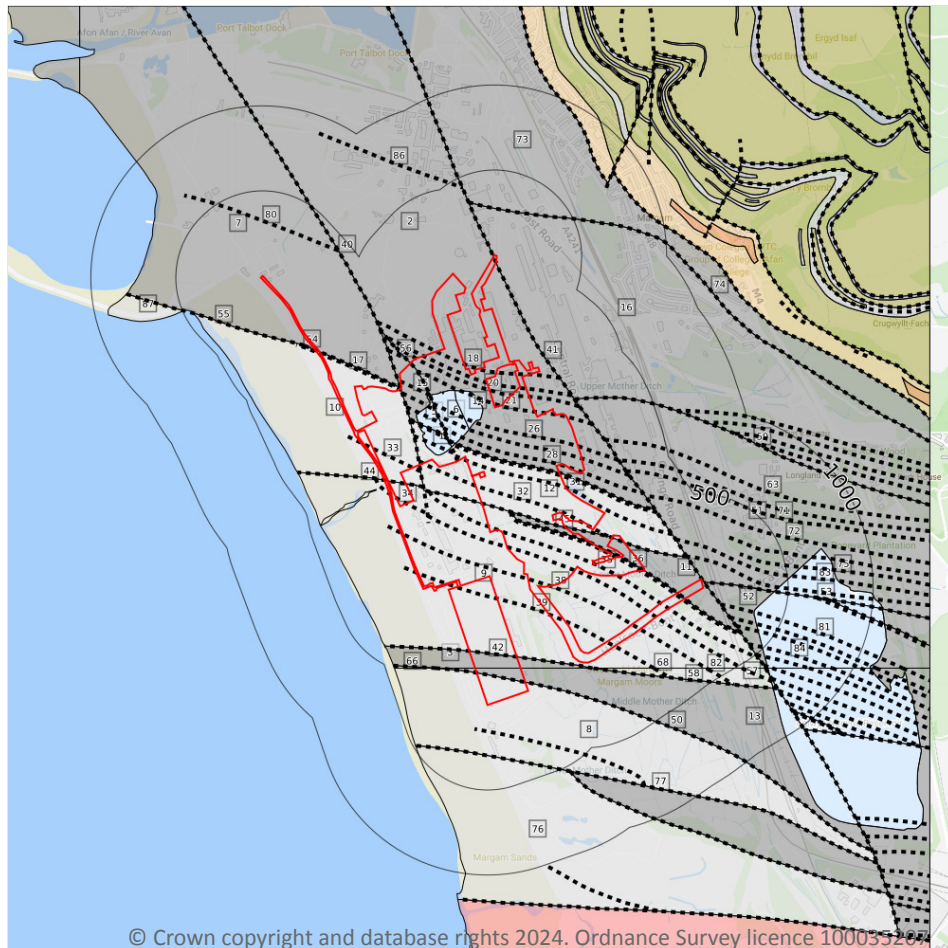
0

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

25

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 202](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	BEDNM-UKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
2	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
3	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
4	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
5	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
6	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
7	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
8	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
12	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
13	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
14	On site	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
15	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
16	On site	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
51	4m SE	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
52	13m SE	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
57	41m SE	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
66	220m S	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
73	270m N	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
76	293m S	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
81	331m SE	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
83	418m E	BEDNM-UNKNOWN	Bedrock Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	No Details
87	490m NW	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	62
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Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 202](#) >

ID	Location	Category	Description
17	On site	ROCK	Coal seam, inferred ()
18	On site	ROCK	Coal seam, inferred (2 FT 9)
19	On site	ROCK	Coal seam, inferred (U 4 FT)
20	On site	ROCK	Coal seam, inferred (L 4 FT)
21	On site	ROCK	Coal seam, inferred (6 FT)
22	On site	ROCK	Coal seam, inferred (U 9 FT)
23	On site	ROCK	Coal seam, inferred (L 9 FT)
24	On site	ROCK	Coal seam, inferred (BUTE)
25	On site	ROCK	Coal seam, inferred ()
26	On site	ROCK	Coal seam, inferred (U 9 FT)
27	On site	ROCK	Coal seam, inferred (L 9 FT)
28	On site	ROCK	Coal seam, inferred (BUTE)



ID	Location	Category	Description
29	On site	ROCK	Coal seam, inferred ()
30	On site	ROCK	Coal seam, inferred (YARD)
31	On site	ROCK	Coal seam, inferred ()
32	On site	ROCK	Coal seam, inferred (M 7 FT)
33	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 5 FT)
34	On site	ROCK	Coal seam, inferred ()
35	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF YARD)
36	On site	ROCK	Coal seam, inferred ()
37	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF M 7 FT)
38	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 5 FT)
39	On site	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF GELLIDEG)
40	On site	FAULT	Normal fault, inferred
41	On site	FAULT	Normal fault, inferred
42	On site	FAULT	Normal fault, inferred
43	On site	FAULT	Normal fault, observed
44	On site	FAULT	Normal fault, inferred
45	On site	FAULT	Normal fault, inferred
46	On site	FOSSIL_HORIZON	Fossil horizon, marine band (CONJECTURAL POSITION OF AMMAN MARINE BAND)
47	On site	FOSSIL_HORIZON	Fossil horizon, marine band (AMMAN MARINE BAND)
48	On site	FOSSIL_HORIZON	Fossil horizon, marine band (AMB)
49	On site	FOSSIL_HORIZON	Fossil horizon, marine band (CONJECTURAL POSITION OF AMMAN MARINE BAND)
50	On site	FOSSIL_HORIZON	Fossil horizon, marine band (AMMAN MARINE BAND)
53	13m SE	FAULT	Normal fault, inferred
54	33m NW	FOSSIL_HORIZON	Fossil horizon, marine band ()
55	36m NW	FOSSIL_HORIZON	Fossil horizon, marine band ()
56	39m NW	ROCK	Coal seam, inferred (6 FT)
58	41m SE	FAULT	Normal fault, inferred
59	109m NE	FAULT	Normal fault, inferred

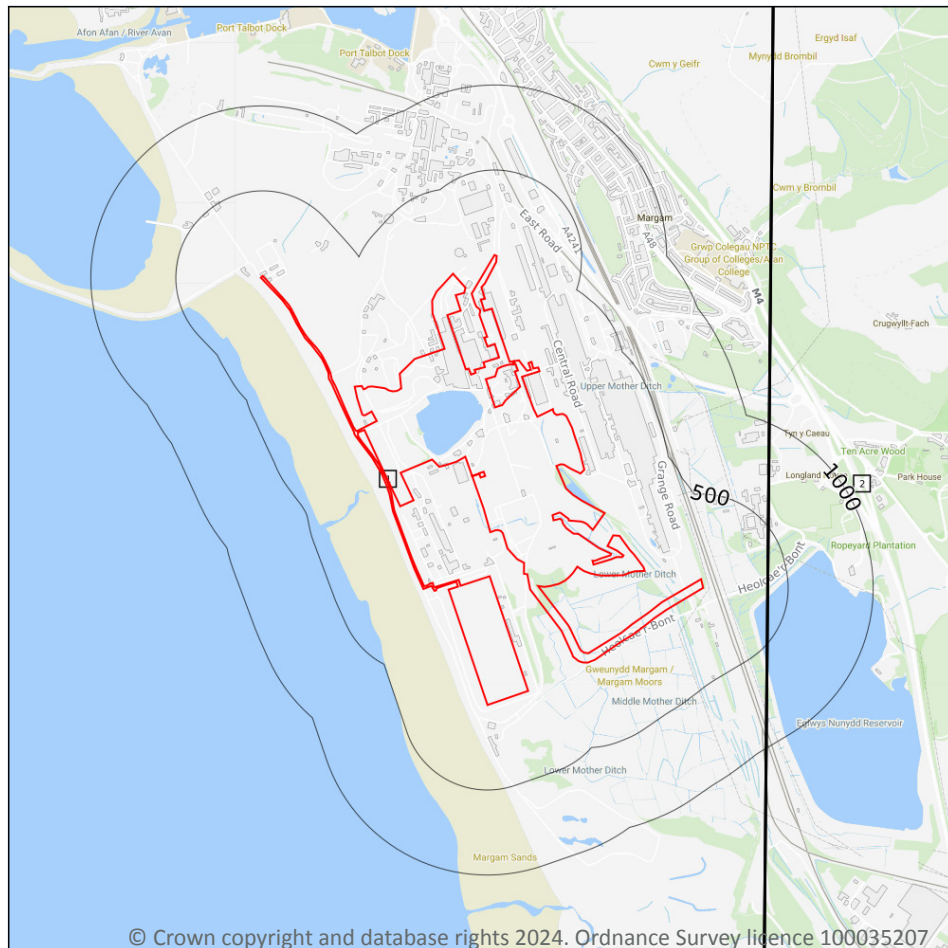


ID	Location	Category	Description
60	116m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 9 FT)
61	141m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 2 FT 9)
62	153m S	ROCK	Coal seam, inferred (GELLIDEG)
63	160m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 2 FT 9)
64	185m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 9 FT)
65	211m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 4 FT)
67	220m S	FOSSIL_HORIZON	Fossil horizon, marine band (AMMAN MARINE BAND)
68	233m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF GELLIDEG)
69	234m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 4 FT)
70	235m SE	ROCK	Coal seam, inferred ()
71	245m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF L 4 FT)
72	259m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 6 FT)
74	270m N	FAULT	Normal fault, inferred
75	272m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF RV)
77	293m S	FAULT	Normal fault, inferred
78	295m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF L 4 FT)
79	296m E	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF Ca)
80	303m NW	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 2 FT-9)
82	415m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF U 5 FT)
84	425m SE	ROCK	Coal seam, inferred (CONJECTURAL POSITION OF 6 FT)
85	427m SE	ROCK	Coal seam, inferred ()
86	439m N	FAULT	Normal fault, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

2

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

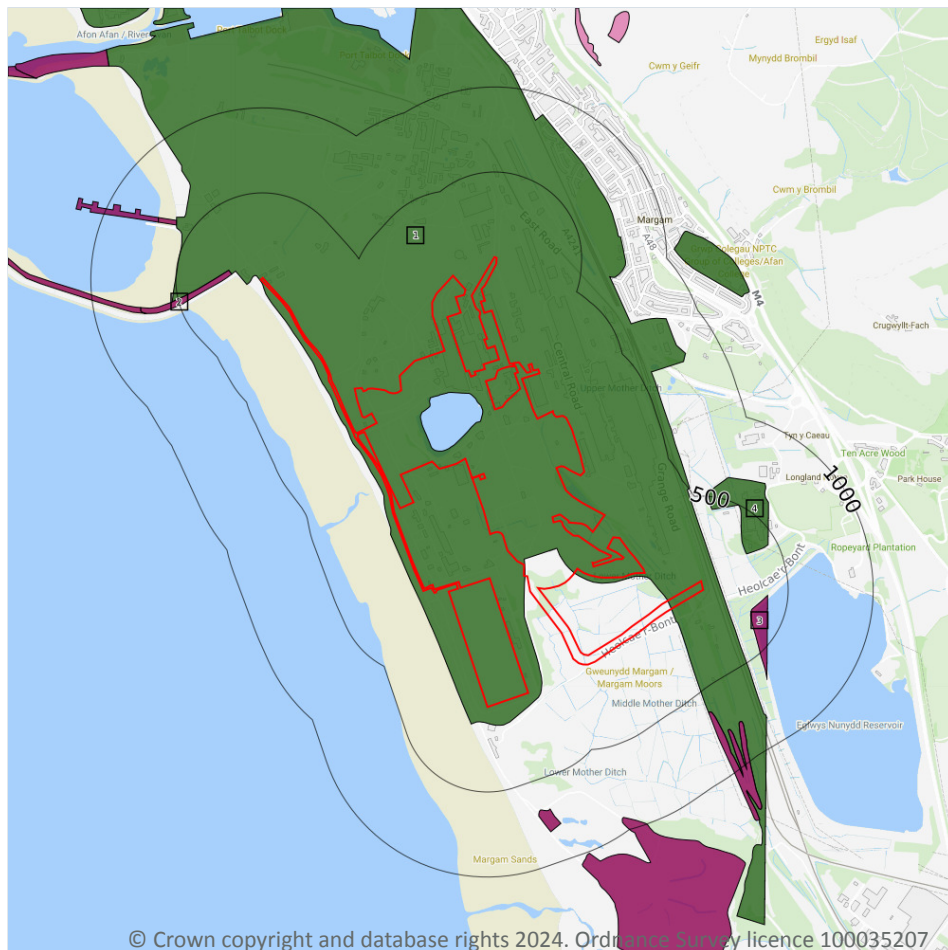
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 207](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW247_swansea_v4
2	380m E	No coverage	Full	Full	Full	EW248_pontypridd_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

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15.2 Artificial and made ground (50k)

Records within 500m

4

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 208 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
2	174m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	308m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	311m E	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND



This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

2

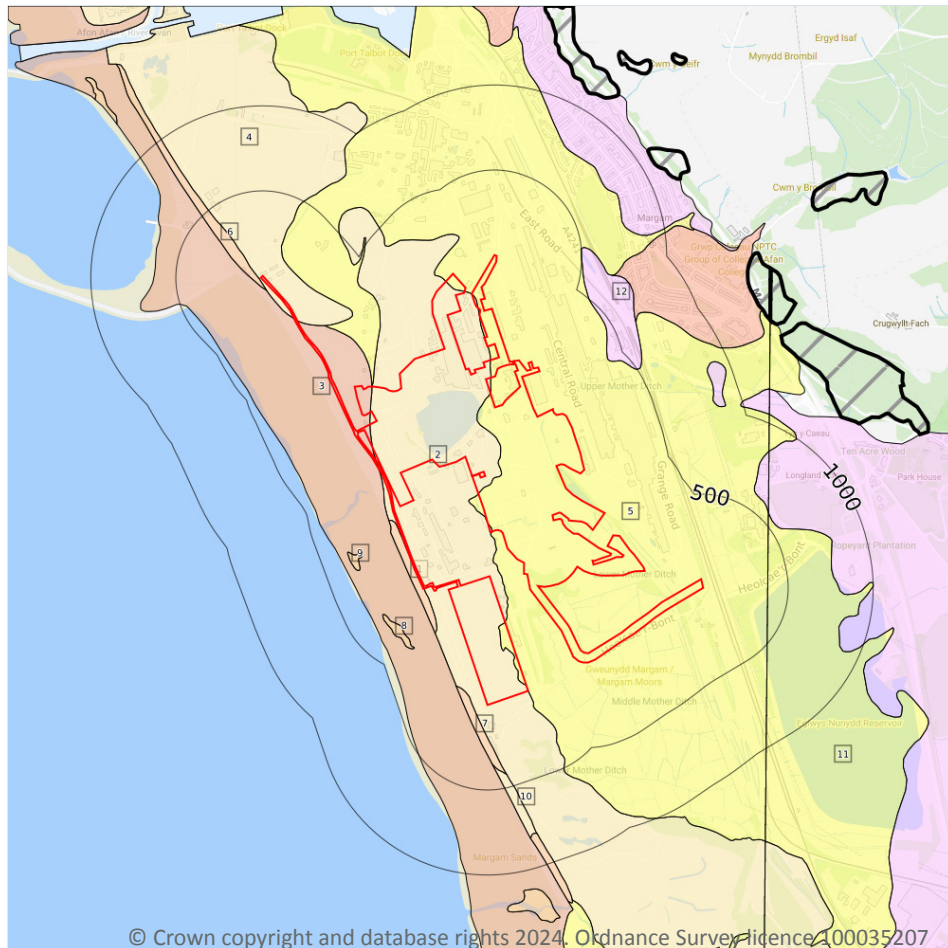
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

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

12

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 210](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	STOB-V	STORM BEACH DEPOSITS	GRAVEL
2	On site	BSA-S	BLOWN SAND	SAND
3	On site	MBD-XSV	MARINE BEACH DEPOSITS	SAND AND GRAVEL
4	On site	BSA-S	BLOWN SAND	SAND



ID	Location	LEX Code	Description	Rock description
5	On site	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
6	12m NW	STOB-V	STORM BEACH DEPOSITS	GRAVEL
7	82m S	STOB-V	STORM BEACH DEPOSITS	GRAVEL
8	255m SW	RSBD-XSV	RAISED STORM BEACH DEPOSITS	SAND AND GRAVEL
9	263m SW	RSBD-XSV	RAISED STORM BEACH DEPOSITS	SAND AND GRAVEL
10	350m S	BSA-S	BLOWN SAND	SAND
11	379m E	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
12	407m NE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	8
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	Moderate	Very Low
On site	Intergranular	Moderate	Very Low
On site	Intergranular	Very High	Very High
11m NW	Intergranular	Very High	Very High

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

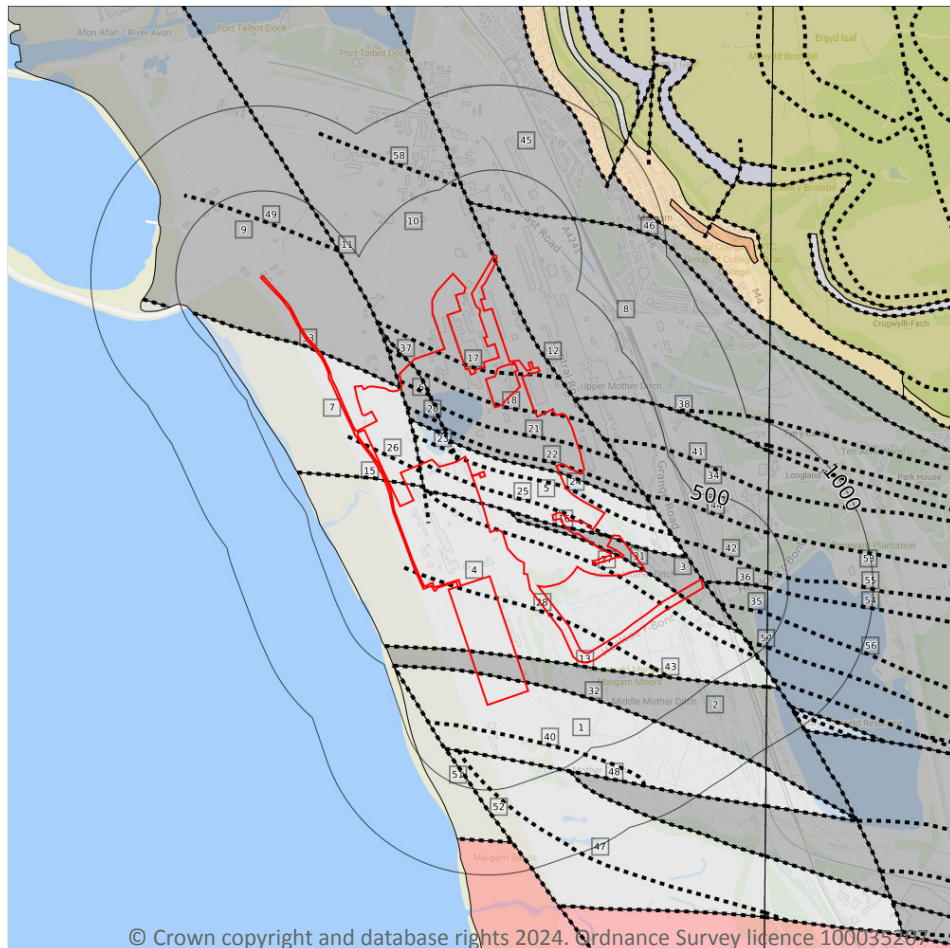
0

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

16

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 213](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
3	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
4	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
34	4m SE	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
35	13m SE	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
45	270m N	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
47	293m S	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
51	350m S	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
53	379m E	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	6
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).



Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
41m SE	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	43
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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 213 >](#)

ID	Location	Category	Description
11	On site	FAULT	Fault, inferred, displacement unknown
12	On site	FAULT	Fault, inferred, displacement unknown
13	On site	FAULT	Reverse or thrust fault, inferred
14	On site	FAULT	Fault, observed, displacement unknown
15	On site	FAULT	Reverse or thrust fault, inferred
16	On site	FAULT	Reverse or thrust fault, inferred
17	On site	ROCK	Coal seam, inferred
18	On site	ROCK	Coal seam, inferred
19	On site	ROCK	Coal seam, inferred
20	On site	ROCK	Coal seam, inferred
21	On site	ROCK	Coal seam, inferred
22	On site	ROCK	Coal seam, inferred
23	On site	ROCK	Coal seam, inferred
24	On site	ROCK	Coal seam, inferred



ID	Location	Category	Description
25	On site	ROCK	Coal seam, inferred
26	On site	ROCK	Coal seam, inferred
27	On site	ROCK	Coal seam, inferred
28	On site	ROCK	Coal seam, inferred
29	On site	FOSSIL_HORIZON	Marine band
30	On site	FOSSIL_HORIZON	Marine band
31	On site	FOSSIL_HORIZON	Marine band
32	On site	FOSSIL_HORIZON	Marine band
33	On site	FOSSIL_HORIZON	Marine band
36	13m SE	FAULT	Fault, inferred, displacement unknown
37	39m NW	ROCK	Coal seam, inferred
38	109m NE	FAULT	Reverse or thrust fault, inferred
39	141m SE	ROCK	Coal seam, inferred
40	153m S	ROCK	Coal seam, inferred
41	160m E	ROCK	Coal seam, inferred
42	185m E	ROCK	Coal seam, inferred
43	235m SE	ROCK	Coal seam, inferred
44	259m E	ROCK	Coal seam, inferred
46	270m N	FAULT	Fault, inferred, displacement unknown
48	293m S	FAULT	Reverse or thrust fault, inferred
49	303m NW	ROCK	Coal seam, inferred
50	318m S	ROCK	Coal seam, inferred
52	350m S	FAULT	Fault, inferred, displacement unknown
54	380m E	FAULT	Reverse or thrust fault, inferred
55	391m E	ROCK	Coal seam, inferred
56	408m SE	ROCK	Coal seam, inferred
57	414m SE	ROCK	Coal seam, inferred
58	439m N	FAULT	Fault, inferred, displacement unknown

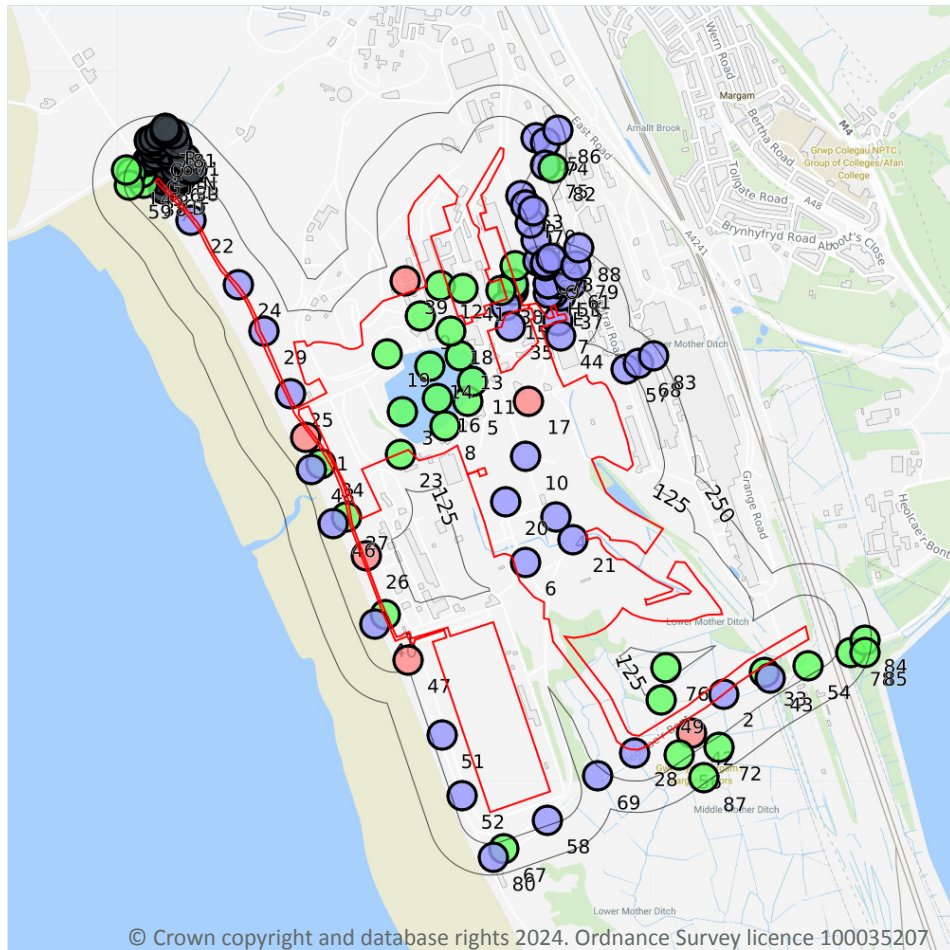


ID	Location	Category	Description
59	479m E	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

135

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

Features are displayed on the Boreholes map on [page 218](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	276980 185572	PORT TALBOT PDR STAGE TWO 11	15.0	N	370888 ↗
2	On site	278328 185254	PORT TALBOT PDR STAGE TWO 15	10.0	N	370891 ↗
3	On site	277050 186380	MARGAM STEEL WORKS. NO.R12	12.5	N	370775 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	277660 185960	MARGAM STEEL WORKS. NO.WR5	4.57	N	370794 ↗
5	On site	277310 186420	MARGAM STEEL WORKS. NO.R7	12.19	N	370770 ↗
6	On site	277540 185780	MARGAM STEEL WORKS. NO.WR1	6.1	N	370790 ↗
7	On site	277670 186740	MARGAM STEEL WORKS. NO.DD2	7.92	N	370751 ↗
8	On site	277220 186320	MARGAM STEEL WORKS. NO.R8	12.19	N	370771 ↗
9	On site	277120 186760	MARGAM STEEL WORKS. NO.R4	12.5	N	370767 ↗
10	On site	277540 186200	MARGAM STEEL WORKS. NO.WR3	3.96	N	370792 ↗
11	On site	277330 186500	MARGAM STEEL WORKS. NO.R1	16.15	N	370764 ↗
12	On site	277200 186880	MARGAM STEEL WORKS. NO.R5	13.72	N	370768 ↗
13	On site	277280 186600	MARGAM STEEL WORKS. NO.R2	15.24	N	370765 ↗
14	On site	277160 186560	MARGAM STEEL WORKS. NO.R10	12.19	N	370773 ↗
15	On site	277460 186800	MARGAM STEEL WORKS. NO.WC13	6.1	N	370783 ↗
16	On site	277190 186430	MARGAM STEEL WORKS. NO.R9	11.89	N	370772 ↗
17	On site	277550 186420	MORFA COLLIERY, GRANGE PIT, PORT TALBOT	371.94	N	370671 ↗
18	On site	277240 186700	MARGAM STEEL WORKS. NO.R3	15.24	N	370766 ↗
19	On site	276990 186610	MARGAM STEEL WORKS. NO.R11	12.19	N	370774 ↗
20	On site	277460 186020	MARGAM STEEL WORKS. NO.WR2	6.4	N	370791 ↗
21	On site	277730 185870	MARGAM STEEL WORKS. NO.WR4	6.09	N	370793 ↗
A	On site	276097 187267	2U - Afan Advanced Digestion Scheme TP4	-	Y	N/A
A	On site	276100 187264	2U - Afan Advanced Digestion Scheme BH4	-	Y	N/A
B	On site	277490 186860	MARGAM STEEL WORKS. NO.CT1	10.06	N	370747 ↗
B	On site	277490 186880	MARGAM STEEL WORKS. NO.WC11	7.47	N	370781 ↗
B	On site	277490 186890	MARGAM STEEL WORKS. NO.CT2	14.94	N	370748 ↗
22	1m NW	276208 187141	PORT TALBOT PDR STAGE TWO TH 7	3.1	N	370901 ↗
23	3m W	277040 186210	MARGAM STEEL WORKS. NO.R13	13.11	N	370776 ↗
24	4m NW	276397 186885	PORT TALBOT PDR STAGE TWO TH 8	2.9	N	370902 ↗
25	8m NW	276604 186451	PORT TALBOT PDR STAGE TWO TH 10	3.0	N	370904 ↗
26	10m SW	276906 185806	PORT TALBOT PDR STAGE TWO 10	40.25	N	370887 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
27	10m W	276825 185958	PORT TALBOT PDR STAGE TWO 9	15.0	N	370886 ↗
28	13m SE	277975 185020	PORT TALBOT PDR STAGE TWO 14	10.0	N	370890 ↗
29	15m NW	276499 186700	PORT TALBOT PDR STAGE TWO TH 9	2.9	N	370903 ↗
30	15m N	277440 186860	MARGAM STEEL WORKS. NO.CT3	17.37	N	370749 ↗
C	16m NW	276103 187301	AFAN WWTW PORT TALBOT 105	-	Y	N/A
31	21m W	276663 186277	PORT TALBOT PDR STAGE TWO 7	40.6	N	370884 ↗
32	23m N	277500 186960	ABBEY WORKS, 1957 CEMENTATION CO. LTD. 4	24.38	N	370703 ↗
33	23m SE	278490 185340	ABBEY WORKS V SCHEME H9	18.59	N	370697 ↗
34	28m W	276726 186172	PORT TALBOT PDR STAGE TWO 8	11.5	N	370885 ↗
D	32m NW	276134 187292	2U - Afan Advanced Digestion Scheme BH3	-	Y	N/A
35	33m N	277480 186720	MARGAM STEEL WORKS. NO.WC12	8.38	N	370782 ↗
C	37m NW	276112 187322	AFAN WWTW PORT TALBOT TP104	-	Y	N/A
D	37m NW	276144 187288	2U - Afan Advanced Digestion Scheme TP3	-	Y	N/A
36	39m NW	276077 187346	AFAN WWTW PORT TALBOT TP102	-	Y	N/A
37	45m N	277680 186840	MARGAM STEEL WORKS. NO.F13	8.69	N	370746 ↗
38	46m NW	276020 187290	SEA OUTFALL PUMPING STATION PORT TALBOT 2	20.0	N	370837 ↗
C	46m NW	276103 187345	AFAN WWTW PORT TALBOT 104	-	Y	N/A
39	48m NW	277060 186900	STEEL CO. WALES, ABBEY WKS, 1959 SOIL MECHANICS. 1	36.58	N	370702 ↗
40	49m SW	276938 185533	PORT TALBOT PDR STAGE TWO TH 13	3.0	N	370907 ↗
E	49m N	277650 186850	MARGAM STEEL WORKS. NO.F15	9.75	N	370732 ↗
E	49m N	277650 186850	MARGAM STEEL WORKS. NO.F29	8.53	N	370734 ↗
E	49m N	277650 186850	MARGAM STEEL WORKS. NO.F28	8.23	N	370733 ↗
C	52m NW	276104 187351	AFAN WWTW PORT TALBOT R104	-	Y	N/A
41	54m N	277290 186870	MARGAM STEEL WORKS. NO.R6	12.34	N	370769 ↗
42	54m SE	278200 185100	ABBEY WORKS V SCHEME H3	30.48	N	370693 ↗
43	55m SE	278515 185317	PORT TALBOT PDR STAGE TWO TH 19	4.0	N	370909 ↗
E	55m N	277630 186850	MARGAM STEEL WORKS. NO.DD4	6.71	N	370752 ↗
44	56m NE	277680 186680	MARGAM STEEL WORKS. NO.DD1	7.32	N	370750 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
C	59m NW	276105 187359	2U - Afan Advanced Digestion Scheme BH5	-	Y	N/A
45	65m NW	276010 187330	SEA OUTFALL PUMPING STATION PORT TALBOT B	25.57	N	370835 ↗
F	66m NW	276164 187309	2U - Afan Advanced Digestion Scheme BH2A	-	Y	N/A
46	67m W	276772 185932	PORT TALBOT PDR STAGE TWO TH 12	3.2	N	370906 ↗
47	67m SW	277072 185389	PORT TALBOT PDR STAGE TWO 12	40.0	N	370889 ↗
F	70m NW	276161 187318	2U - Afan Advanced Digestion Scheme TP2	-	Y	N/A
48	72m W	276688 186150	PORT TALBOT PDR STAGE TWO TH 11	3.0	N	370905 ↗
49	75m SE	278080 185230	ABBEY WORKS V SCHEME H5	17.22	N	370694 ↗
50	81m NW	276147 187349	AFAN WWTW PORT TALBOT TP106	-	Y	N/A
G	82m NW	276033 187377	AFAN WWTW PORT TALBOT 101	-	Y	N/A
G	84m NW	276051 187387	PORT TALBOT PDR STAGE TWO TH 6	3.1	N	370900 ↗
51	84m S	277206 185091	PORT TALBOT PDR STAGE TWO TH 14	2.9	N	370908 ↗
52	86m S	277286 184850	PORT TALBOT PDR STAGE TWO TH 15	4.1	N	370988 ↗
G	87m NW	276049 187390	AFAN WWTW PORT TALBOT R101	-	Y	N/A
53	90m N	277670 186890	MARGAM STEEL WORKS. NO.F26	7.92	N	370745 ↗
54	90m SE	278665 185366	PORT TALBOT PDR STAGE TWO 16	15.7	N	370892 ↗
H	93m N	277630 186890	MARGAM STEEL WORKS. NO.F14	7.47	N	370731 ↗
H	93m N	277630 186890	MARGAM STEEL WORKS. NO.F27	8.84	N	370730 ↗
G	94m NW	276069 187401	AFAN WWTW PORT TALBOT 103	-	Y	N/A
55	99m NW	276149 187374	AFAN WWTW PORT TALBOT 108	-	Y	N/A
56	100m SE	278150 185010	ABBEY WORKS V SCHEME H6	18.59	N	370695 ↗
I	101m NW	275970 187330	SEA OUTFALL PUMPING STATION PORT TALBOT 1	15.0	N	370836 ↗
57	104m NE	277940 186550	MARGAM STEEL WORKS. NO.WC4	6.1	N	370778 ↗
58	104m S	277626 184752	PORT TALBOT PDR STAGE TWO TH 17	3.5	N	370990 ↗
J	105m NW	276117 187404	AFAN WWTW PORT TALBOT R123A	-	Y	N/A
59	107m NW	275960 187280	SEA OUTFALL PUMPING STATION PORT TALBOT A	22.0	N	370834 ↗
K	109m N	277720 186890	MARGAM STEEL WORKS. NO.F18	8.53	N	370736 ↗
K	109m N	277720 186890	MARGAM STEEL WORKS. NO.F16	7.92	N	370735 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
60	114m N	277590 186980	MARGAM STEEL WORKS. NO.F22	7.92	N	370741 ↗
L	117m NW	276194 187351	2U - Afan Advanced Digestion Scheme TP1	-	Y	N/A
L	117m NW	276202 187343	2U - Afan Advanced Digestion Scheme BH1	-	Y	N/A
J	122m NW	276117 187422	AFAN WWTW PORT TALBOT 107	-	Y	N/A
M	124m NW	276057 187429	AFAN WWTW PORT TALBOT TP101	-	Y	N/A
I	124m NW	275950 187340	PORT TALBOT, HOLST SOIL ENGINEERING. NO.6	15.25	N	370713 ↗
L	124m NW	276211 187344	AFAN WWTW PORT TALBOT 113	-	Y	N/A
61	130m N	277710 186920	MARGAM STEEL WORKS. NO.F24	7.32	N	370744 ↗
62	130m N	277580 187060	MARGAM STEEL WORKS. NO.DD11	4.27	N	370759 ↗
M	131m NW	276068 187438	AFAN WWTW PORT TALBOT R121	-	Y	N/A
63	132m N	277520 187240	MARGAM STEEL WORKS. NO.F20	7.32	N	370739 ↗
N	132m NW	276178 187391	AFAN WWTW PORT TALBOT R112	-	Y	N/A
64	134m N	277560 187130	MARGAM STEEL WORKS. NO.DD10	4.57	N	370758 ↗
N	134m NW	276184 187388	AFAN WWTW PORT TALBOT 112	-	Y	N/A
65	136m N	277580 187470	MARGAM STEEL WORKS. NO.DD6	7.62	N	370754 ↗
O	136m N	277620 186960	MARGAM STEEL WORKS. NO.F25	7.92	N	370743 ↗
O	140m N	277620 186970	MARGAM STEEL WORKS. NO.F23	7.32	N	370742 ↗
P	144m N	277540 187200	MARGAM STEEL WORKS. NO.DD8	3.96	N	370756 ↗
P	144m N	277540 187200	MARGAM STEEL WORKS. NO.DD9	5.39	N	370757 ↗
66	147m NW	276094 187453	AFAN WWTW PORT TALBOT R122	-	Y	N/A
Q	151m NW	276047 187455	AFAN WWTW PORT TALBOT R102	-	Y	N/A
Q	155m NW	276042 187458	AFAN WWTW PORT TALBOT 102	-	Y	N/A
67	155m S	277453 184638	PORT TALBOT PDR STAGE TWO 13	23.5	N	370987 ↗
68	156m NE	277990 186570	MARGAM STEEL WORKS. NO.WC3	6.1	N	370777 ↗
69	157m S	277827 184927	PORT TALBOT PDR STAGE TWO TH 18	4.0	N	370991 ↗
70	160m N	277570 187180	MARGAM STEEL WORKS. NO.F19	8.53	N	370738 ↗
71	160m NW	276152 187448	AFAN WWTW PORT TALBOT 111	-	Y	N/A
Q	161m NW	276060 187467	AFAN WWTW PORT TALBOT TP103	-	Y	N/A

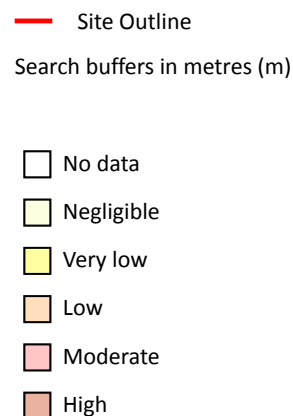
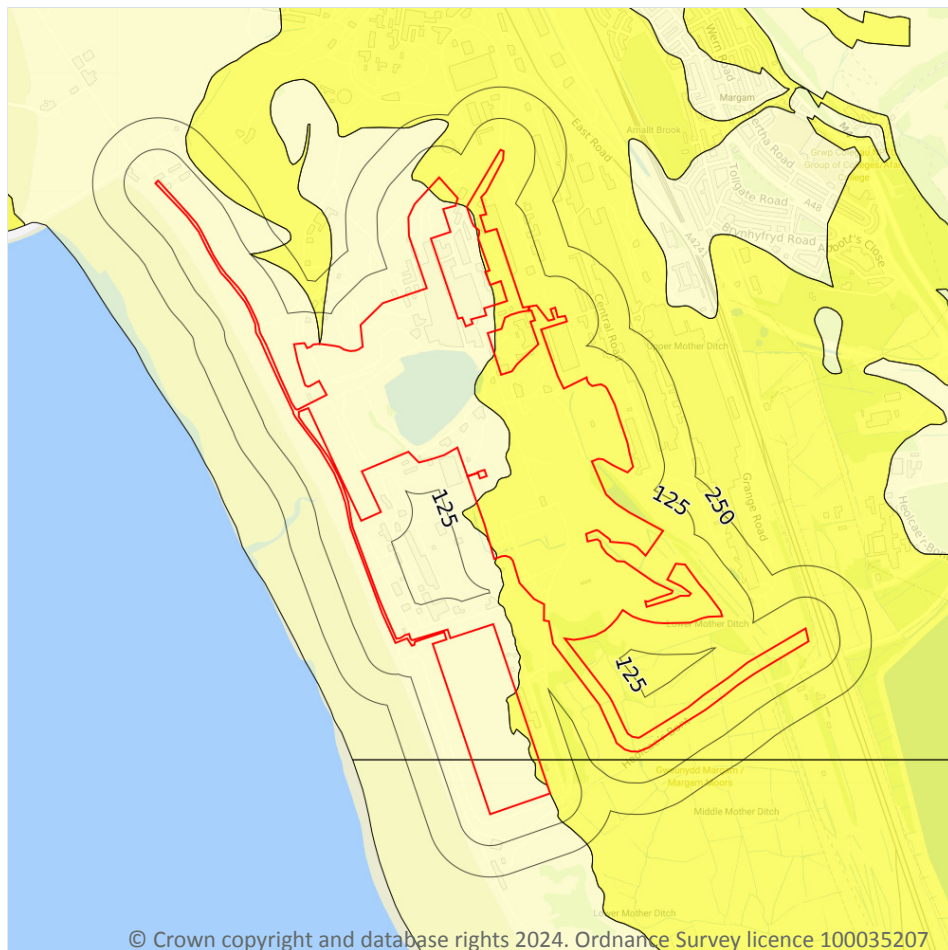


ID	Location	Grid reference	Name	Length	Confidential	Web link
72	164m SE	278310 185040	ABBEY WORKS V SCHEME H8	20.12	N	370696 ↗
73	165m N	277640 186990	MARGAM STEEL WORKS. NO.F21	7.47	N	370740 ↗
74	170m N	277620 187450	MARGAM STEEL WORKS. NO.DD5	3.96	N	370753 ↗
75	172m N	277620 187360	MARGAM STEEL WORKS. NO.DD7	4.27	N	370755 ↗
76	173m SE	278100 185360	ABBEY WORKS V SCHEME H1	19.81	N	370692 ↗
77	173m NW	276082 187480	AFAN WWTW PORT TALBOT 106	-	Y	N/A
78	175m SE	278834 185419	PORT TALBOT PDR STAGE TWO 17	17.0	N	370893 ↗
79	179m N	277740 186960	MARGAM STEEL WORKS. NO.F17	7.62	N	370737 ↗
80	181m S	277410 184603	PORT TALBOT PDR STAGE TWO TH 16	3.0	N	370989 ↗
R	186m NW	276105 187491	AFAN WWTW PORT TALBOT TP107	-	Y	N/A
81	187m NW	276138 187483	AFAN WWTW PORT TALBOT TP108	-	Y	N/A
R	191m NW	276112 187495	AFAN WWTW PORT TALBOT R110	-	Y	N/A
82	204m N	277650 187350	MORFA BANK, MARGAM. NO.8	11.51	N	370724 ↗
R	204m NW	276105 187509	AFAN WWTW PORT TALBOT 110	-	Y	N/A
83	222m NE	278050 186600	MARGAM STEEL WORKS. NO.WC6	6.4	N	370779 ↗
84	223m SE	278890 185470	BOC MARGAM OBS 7	11.0	N	18113365 ↗
85	229m SE	278890 185420	STEEL CO. OF WALES EGLWYSNYYDD 40	16.15	N	370690 ↗
86	230m N	277670 187500	MARGAM STEEL WORKS. NO.WC22	7.01	N	370784 ↗
87	231m SE	278250 184920	ABBEY WORKS V SCHEME H4	18.59	N	370955 ↗
88	247m N	277750 187030	MARGAM STEEL WORKS. NO.DD12	3.66	N	370760 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

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

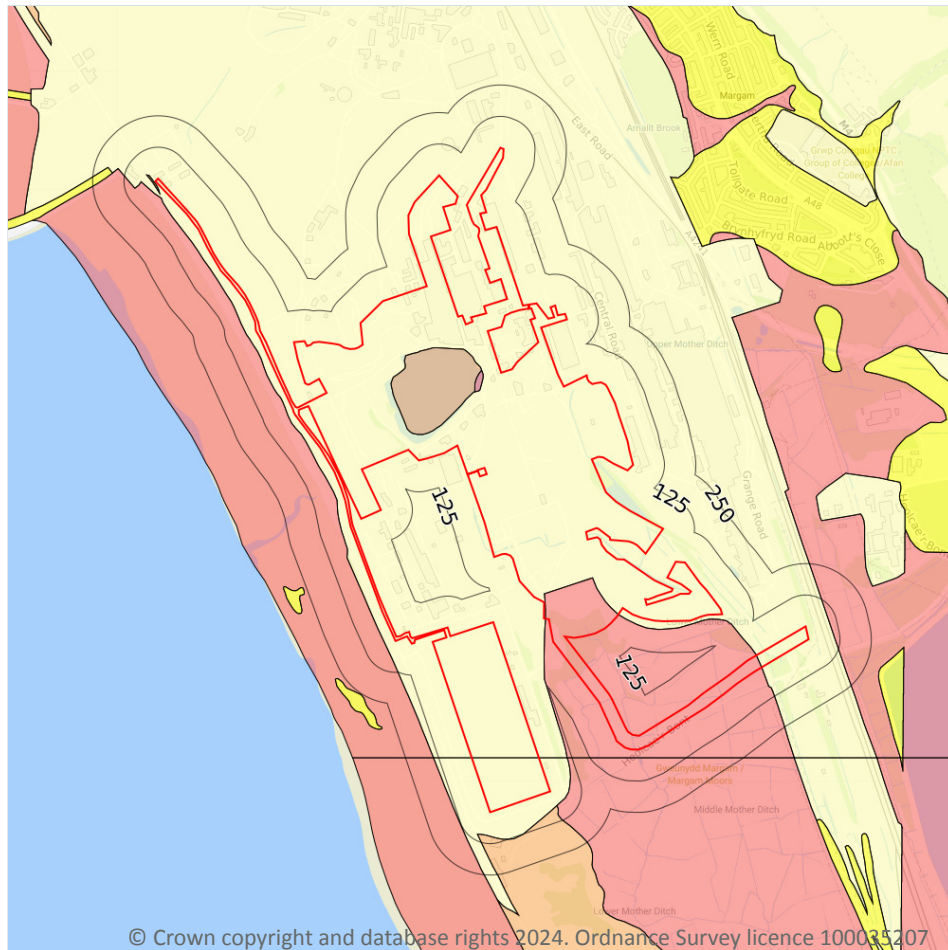
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 224 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

6

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 225 >](#)

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

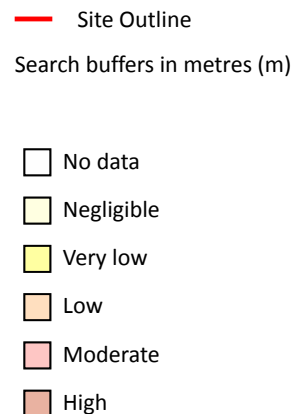
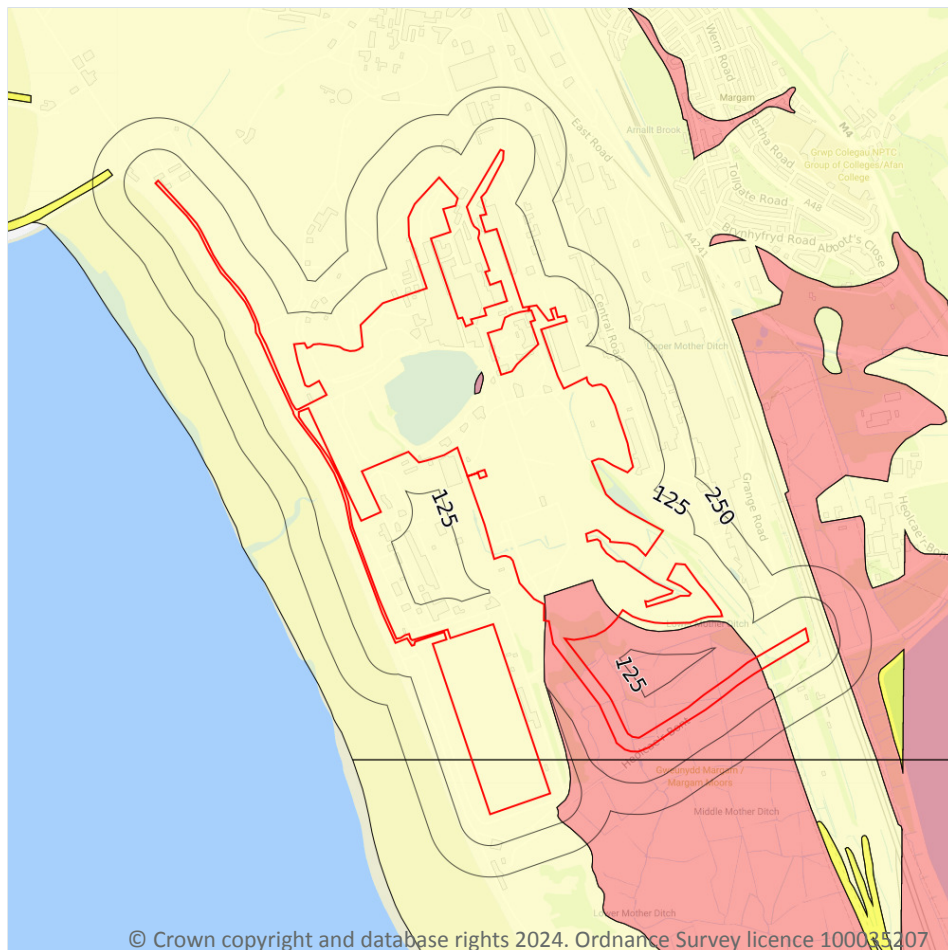


Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
On site	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.
6m NW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
24m W	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.
33m SE	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



17.3 Compressible deposits

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 227](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

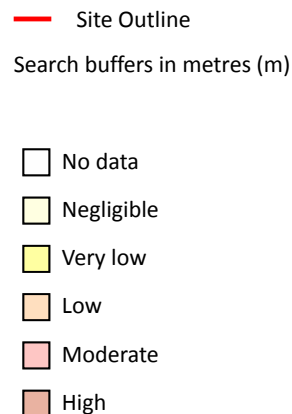
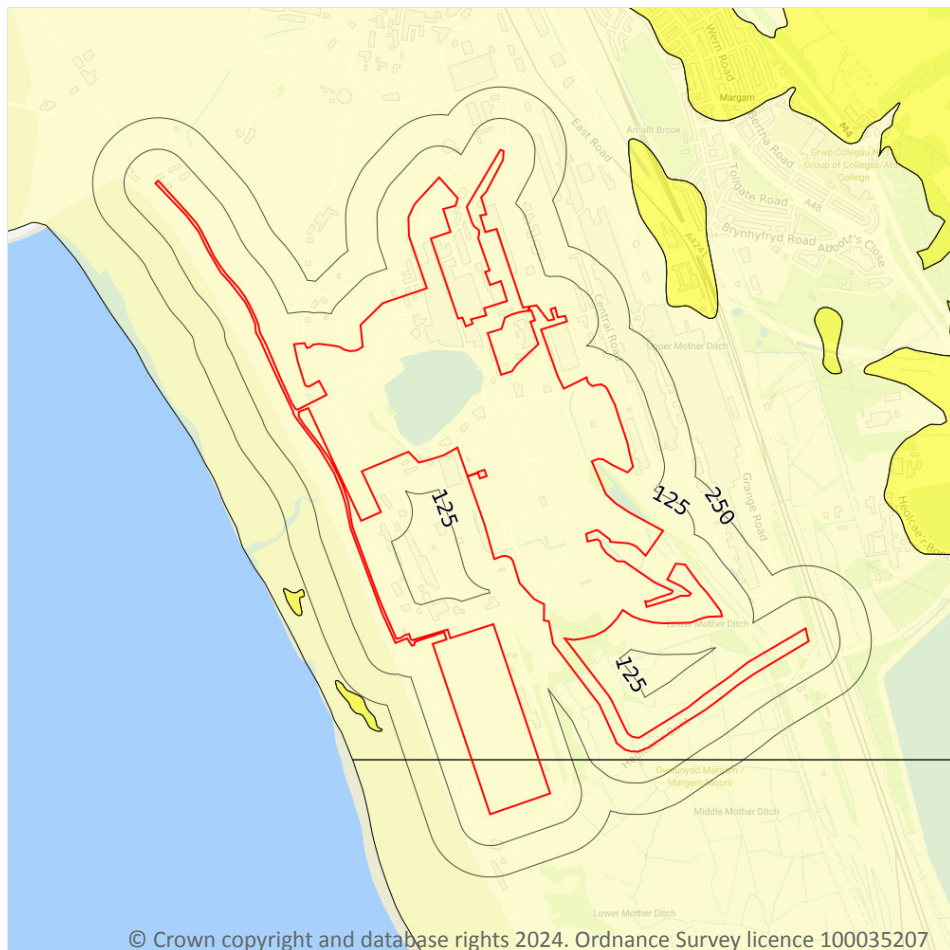


Location	Hazard rating	Details
33m SE	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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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 229 >](#)

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.

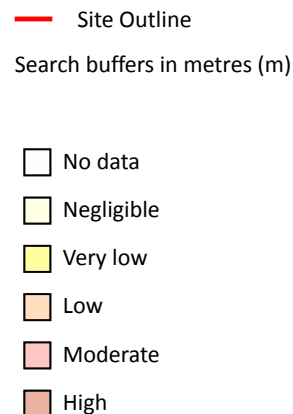


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☐ No data
☐ Negligible
☐ Very low
☐ Low
☐ Moderate
☐ High

230

Natural ground subsidence - Ground dissolution of soluble rocks



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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 231](#) >

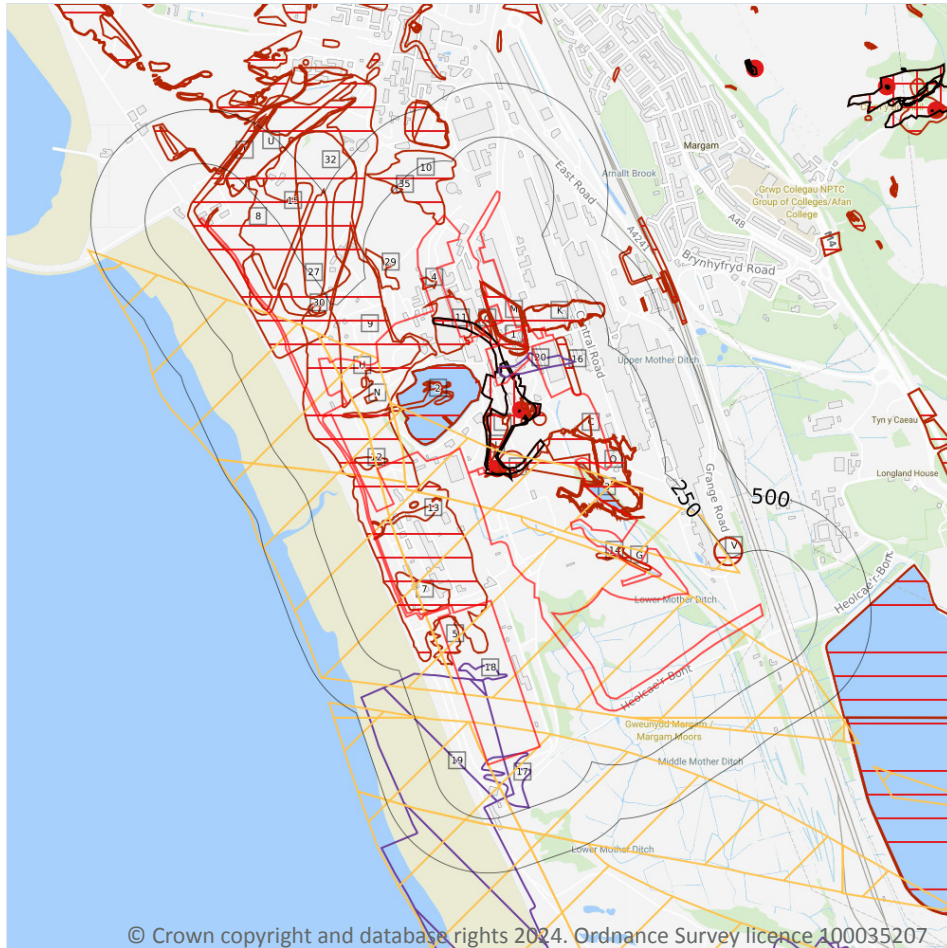
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



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

18.1 BritPits

Records within 500m

2

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

Features are displayed on the Mining and ground workings map on [page 233](#) >



ID	Location	Details	Description
A	On site	Name: Morfa Colliery Address: Margam, PORT TALBOT, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	On site	Name: Morfa Colliery Address: Margam, PORT TALBOT, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	82
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Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 233](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Ground Workings	1949	1:10560
2	On site	Unspecified Ground Workings	1914	1:10560
3	On site	Pond	1979	1:10000
4	On site	Pond	1965	1:10560
5	On site	Ponds	1965	1:10560
6	On site	Ponds	1965	1:10560
7	On site	Water Body	1965	1:10560
8	On site	Refuse Heap	1979	1:10000
9	On site	Refuse Heap	1979	1:10000
10	On site	Refuse Heap	1965	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
11	On site	Refuse Heap	1965	1:10560
12	On site	Unspecified Heap	1914	1:10560
13	On site	Unspecified Heap	1914	1:10560
14	On site	Pond	1991	1:10000
15	On site	Unspecified Disused Workings	1991	1:10000
16	On site	Unspecified Heap	1991	1:10000
A	On site	Unspecified Ground Workings	1914	1:10560
B	On site	Unspecified Ground Workings	1949	1:10560
B	On site	Pond	1876	1:10560
B	On site	Unspecified Pit	1914	1:10560
B	On site	Unspecified Pit	1900	1:10560
B	On site	Unspecified Pit	1921	1:10560
B	On site	Unspecified Heap	1876	1:10560
B	On site	Refuse Heap	1876	1:10560
B	On site	Unspecified Pit	1876	1:10560
C	On site	Unspecified Pit	1949	1:10560
C	On site	Unspecified Pit	1914	1:10560
D	On site	Unspecified Ground Workings	1914	1:10560
D	On site	Unspecified Ground Workings	1921	1:10560
E	On site	Unspecified Pit	1914	1:10560
E	On site	Unspecified Pit	1900	1:10560
E	On site	Unspecified Pit	1921	1:10560
F	On site	Reservoir	1979	1:10000
F	On site	Water Body	1965	1:10560
F	On site	Reservoir	1991	1:10000
G	On site	Unspecified Heap	1979	1:10000
G	On site	Unspecified Heap	1965	1:10560
G	On site	Unspecified Heap	1991	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
H	On site	Refuse Heap	1965	1:10560
H	On site	Unspecified Heap	1914	1:10560
I	On site	Unspecified Heap	1949	1:10560
I	On site	Unspecified Heap	1914	1:10560
I	On site	Unspecified Heap	1921	1:10560
J	On site	Unspecified Heap	1914	1:10560
J	On site	Unspecified Heap	1921	1:10560
K	On site	Water Body	1949	1:10560
K	On site	Water Body	1914	1:10560
K	On site	Water Body	1921	1:10560
K	On site	Water Body	1875	1:10560
K	On site	Water Body	1875	1:10560
L	On site	Water Body	1949	1:10560
L	On site	Water Body	1914	1:10560
L	On site	Water Body	1921	1:10560
L	On site	Water Body	1875	1:10560
L	On site	Water Body	1875	1:10560
M	On site	Pond	1914	1:10560
M	On site	Pond	1900	1:10560
M	On site	Pond	1921	1:10560
M	On site	Water Body	1875	1:10560
M	On site	Water Body	1875	1:10560
N	On site	Cuttings	1991	1:10000
O	On site	Pond	1900	1:10560
O	On site	Water Body	1876	1:10560
P	On site	Colliery	1900	1:10560
Q	On site	Refuse Heap	1938	1:10560
Q	On site	Refuse Heap	1921	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
R	On site	Colliery	1876	1:10560
R	On site	Unspecified Heap	1876	1:10560
27	56m NW	Refuse Heap	1979	1:10000
S	75m W	Unspecified Heap	1949	1:10560
S	75m W	Unspecified Heap	1914	1:10560
29	111m NW	Refuse Heap	1965	1:10560
30	144m NW	Refuse Heap	1938	1:10560
31	163m W	Unspecified Pit	1914	1:10560
T	171m NW	Refuse Heap	1965	1:10560
U	172m NW	Sludge Pond	1979	1:10000
32	175m NW	Refuse Heap	1938	1:10560
U	188m NW	Sludge Pond	1991	1:10000
V	193m E	Coal Dump	1979	1:10000
V	193m E	Coal Dump	1965	1:10560
33	217m NW	Unspecified Ground Workings	1949	1:10560
35	223m N	Unspecified Heap	1979	1:10000

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

3

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

Features are displayed on the Mining and ground workings map on [page 233](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Unspecified Shaft	1876	1:10560
P	On site	Colliery	1900	1:10560
R	On site	Colliery	1876	1:10560

This data is sourced from Ordnance Survey/Groundsure.



18.4 Underground mining extents

Records within 500m**0**

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m**4**

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.

Features are displayed on the Mining and ground workings map on [page 233 >](#)

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
17	On site	Morfa Mawr Beach	Not available	Not available	Not available	Not available
18	On site	Margam Moors	Not available	Not available	Not available	Not available
19	On site	Sker Sand Gravel	Not available	Not available	Not available	Not available
20	On site	Morfa Sand Siding	Not available	Not available	Not available	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m**14**

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

Features are displayed on the Mining and ground workings map on [page 233 >](#)



ID	Location	Name	Commodity	Class	Likelihood
21	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
22	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
23	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
24	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
25	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
26	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
N	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
28	60m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
34	219m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
36	271m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
37	336m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
38	405m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
44	614m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
49	867m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0
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This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the



Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.



18.13 Brine areas

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

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

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

18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

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

Generalised areas that may be affected by kaolin and ball clay extraction.

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



19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

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

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



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

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

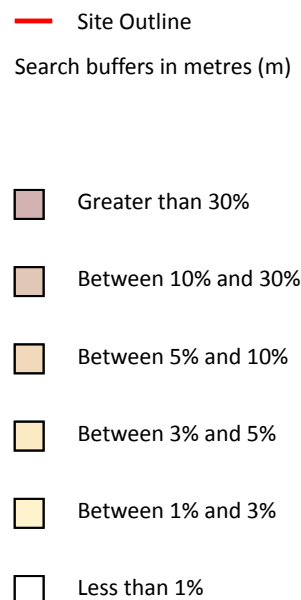
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 245 >](#)

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



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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

88

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

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



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



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



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
2m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
4m NW	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
4m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
6m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
6m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
7m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
14m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
15m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
16m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
22m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
31m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
34m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
35m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
35m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
35m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
35m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
38m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
38m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
47m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
47m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
48m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

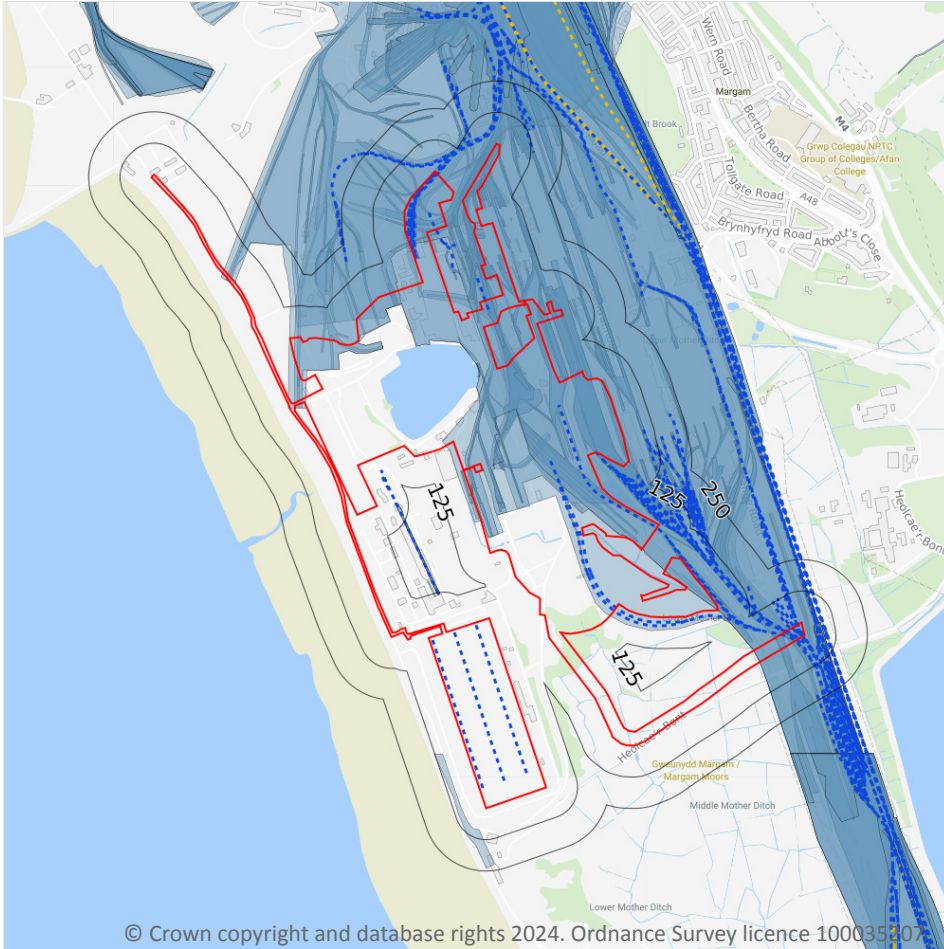
0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

177

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 253](#) >

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1995	1250
On site	Railway Sidings	1974	1250
On site	Railway Sidings	1983	1250
On site	Railway Sidings	1952	1250
On site	Railway Sidings	1962	1250
On site	Railway Sidings	1952	2500
On site	Railway Sidings	1963	2500
On site	Railway Sidings	1984	2500
On site	Railway Sidings	1980	2500
On site	Railway Sidings	1988	1250
On site	Railway Sidings	1990	2500
On site	Railway Sidings	1993	1250
On site	Railway Sidings	1995	2500
On site	Tramway Sidings	1878	2500
On site	Tramway Sidings	1899	2500
On site	Mineral Railway Sidings	1918	2500
On site	Railway Sidings	1900	10560



Location	Land Use	Year of mapping	Mapping scale
On site	Mineral Railway Sidings	1914	10560
On site	Mineral Railway Sidings	1921	10560
On site	Mineral Railway Sidings	1876	10560
On site	Mineral Railway Sidings	1938	10560
On site	Railway Sidings	1949	10560
On site	Railway Sidings	1875	10560
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1991	10000
On site	Railway Sidings	1979	10000
On site	Railway Sidings	1965	10560
1m NW	Railway Sidings	1963	2500
3m NE	Railway Sidings	1974	1250
5m NE	Railway Sidings	1952	1250
5m SW	Railway Sidings	1984	2500
5m NW	Railway Sidings	1983	1250
7m N	Railway Sidings	1940	2500
7m N	Railway Sidings	1995	1250
8m NE	Railway Sidings	1974	1250
10m NW	Railway Sidings	1983	1250
10m N	Railway Sidings	1974	1250
10m N	Railway Sidings	1962	1250
10m E	Railway Sidings	1995	2500
16m N	Railway Sidings	1952	1250
17m N	Railway Sidings	1962	1250
30m N	Railway Sidings	1995	1250
31m NE	Railway Sidings	1962	1250
31m NE	Railway Sidings	1963	2500
31m N	Railway Sidings	1993	1250



Location	Land Use	Year of mapping	Mapping scale
32m N	Railway Sidings	1962	1250
35m NE	Railway Sidings	1993	1250
36m SE	Railway Sidings	1990	2500
36m NE	Railway Sidings	1974	1250
36m NE	Railway Sidings	1952	2500
36m NE	Railway Sidings	1952	1250
37m NE	Railway Sidings	1962	1250
37m NE	Railway Sidings	1974	1250
37m N	Railway Sidings	1995	1250
38m NE	Railway Sidings	1952	1250
39m E	Railway Sidings	1962	2500
40m E	Railway Sidings	1969	2500
40m E	Railway Sidings	1960	1250
40m E	Railway Sidings	1964	1250
40m E	Railway Sidings	1969	1250
41m SE	Railway Sidings	1947	10560
41m SE	Railway Sidings	1914	10560
41m SE	Railway Sidings	1897	10560
44m E	Railway Sidings	1991	1250
44m NE	Railway Sidings	1993	1250
45m E	Railway Sidings	1951	2500
46m E	Railway Sidings	1951	1250
46m N	Railway Sidings	1962	1250
47m NE	Railway Sidings	1974	1250
47m N	Railway Sidings	1962	1250
47m N	Railway Sidings	1974	1250
48m SE	Railway Sidings	1921	10560
50m N	Railway Sidings	1995	1250



Location	Land Use	Year of mapping	Mapping scale
51m SE	Railway Sidings	1995	2500
53m SE	Railway Sidings	1940	2500
55m N	Railway Sidings	1952	1250
57m E	Railway Sidings	1991	1250
59m SE	Railway Sidings	1899	2500
59m SE	Railway Sidings	1919	2500
67m N	Railway Sidings	1962	1250
69m N	Railway Sidings	1962	1250
69m N	Railway Sidings	1995	1250
70m N	Railway Sidings	1993	1250
71m N	Railway Sidings	1952	1250
71m N	Railway Sidings	1962	1250
72m N	Railway Sidings	1995	1250
72m N	Railway Sidings	1974	1250
73m W	Railway Sidings	1995	2500
74m N	Railway Sidings	1952	1250
75m NE	Railway Sidings	1962	2500
75m NE	Railway Sidings	1969	2500
76m NE	Railway Sidings	1951	2500
77m NE	Railway Sidings	1991	1250
78m NE	Railway Sidings	1960	1250
78m NE	Railway Sidings	1964	1250
78m NE	Railway Sidings	1969	1250
78m E	Railway Sidings	1951	1250
84m NE	Railway Sidings	1952	1250
85m NE	Railway Sidings	1974	1250
85m NE	Railway Sidings	1962	1250
85m E	Railway Sidings	1995	2500



Location	Land Use	Year of mapping	Mapping scale
89m NE	Railway Sidings	1993	1250
89m N	Railway Sidings	1961	1250
90m S	Railway Sidings	1989	10000
96m N	Railway Sidings	1952	1250
99m N	Railway Sidings	1978	1250
101m N	Railway Sidings	1962	1250
103m N	Railway Sidings	1995	1250
106m N	Railway Sidings	1962	1250
106m SE	Railway Sidings	1995	2500
107m N	Railway Sidings	1989	1250
108m N	Railway Sidings	1991	1250
109m N	Railway Sidings	1995	1250
112m NW	Railway Sidings	1978	1250
113m SW	Railway Sidings	1984	2500
113m N	Railway Sidings	1995	1250
113m N	Railway Sidings	1952	1250
114m N	Railway Sidings	1978	1250
114m E	Railway Sidings	1951	2500
115m E	Railway Sidings	1951	1250
116m N	Railway Sidings	1962	1250
116m SW	Railway Sidings	1984	2500
116m E	Railway Sidings	1991	1250
116m N	Railway Sidings	1995	1250
117m E	Railway Sidings	1960	1250
117m E	Railway Sidings	1964	1250
117m E	Railway Sidings	1969	1250
124m N	Railway Sidings	1999	1250
129m N	Railway Sidings	1993	1250



Location	Land Use	Year of mapping	Mapping scale
133m E	Railway Sidings	1960	1250
133m E	Railway Sidings	1964	1250
133m E	Railway Sidings	1969	1250
135m NW	Railway Sidings	1963	2500
137m N	Railway Sidings	1993	1250
138m N	Railway Sidings	1962	1250
140m NW	Railway Sidings	1983	1250
146m N	Railway Sidings	1974	1250
149m N	Railway Sidings	1995	1250
154m NE	Railway Sidings	1993	1250
155m N	Railway Sidings	1949	10560
156m N	Railway Sidings	1952	1250
162m N	Railway Sidings	1974	1250
162m N	Railway Sidings	1962	1250
165m N	Railway Sidings	1962	1250
169m N	Railway Sidings	1952	1250
171m N	Railway Sidings	1995	1250
183m NW	Railway Sidings	1999	1250
186m E	Railway Sidings	1951	2500
188m E	Railway Sidings	1951	1250
189m N	Railway Sidings	1978	1250
190m N	Railway Sidings	1974	1250
190m NW	Railway Sidings	1995	1250
193m SE	Railway Sidings	1990	2500
204m E	Railway Sidings	1962	2500
206m NW	Railway Sidings	1983	1250
206m E	Railway Sidings	1969	2500
207m E	Railway Sidings	1960	1250



Location	Land Use	Year of mapping	Mapping scale
207m E	Railway Sidings	1964	1250
207m E	Railway Sidings	1969	1250
214m N	Railway Sidings	1974	1250
214m N	Railway Sidings	1962	1250
217m N	Railway Sidings	1952	1250
225m SE	Railway Sidings	1995	2500
226m NW	Railway Sidings	1999	1250
229m NW	Railway Sidings	1999	1250
232m NE	Railway Sidings	1951	1250
233m N	Railway Sidings	1962	1250
237m N	Railway Sidings	1952	1250
238m NE	Railway Sidings	1993	1250
238m N	Railway Sidings	1999	1250
239m N	Railway Sidings	1991	1250
239m N	Railway Sidings	1995	1250
242m N	Railway Sidings	1962	1250
244m NW	Railway Sidings	1999	1250
250m NE	Railway Sidings	1974	1250
250m NE	Railway Sidings	1962	1250
250m NE	Railway Sidings	1952	1250

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



22.6 Historical railways

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

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	132
---------------------	-----

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 253 >](#)

Location	Name	Type
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail



Location	Name	Type
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site		rail
On site	Port Talbot Steelworks Branch	rail
On site	Margam Knuckle Yard	rail
On site	Not given	Single Track
On site	Not given	Single Track
On site	Not given	Single Track
On site	Not given	Single Track
4m SE		rail
15m E		rail
16m E		rail
19m E		rail
20m E		rail
24m E		rail
25m SE		rail
31m N		rail
32m E		rail
35m E		rail



Location	Name	Type
37m SE		rail
37m N		rail
49m N		rail
53m SE		rail
53m W		rail
53m SE	Margam Knuckle Yard	rail
54m SE	Ogmore Vale Extension Railway	rail
54m SE	Ogmore Vale Extension Railway	rail
55m E		rail
56m E		rail
57m SE		rail
58m SE	Not given	Single Track
60m SE	Ogmore Vale Extension Railway	rail
61m SE	Not given	Single Track
62m E		rail
63m SE	Not given	Single Track
64m SE		rail
67m SE		rail
68m W		rail
72m E		rail
76m E		rail
76m SE	South Wales Main Line	rail
77m E		rail
79m SE	Not given	Multi Track
80m E		rail
81m SE	South Wales Main Line	rail
81m E		rail
83m E		rail



Location	Name	Type
84m E		rail
85m SE	Not given	Multi Track
89m SE	Not given	Multi Track
89m E		rail
89m E	Ogmore Vale Extension Railway	rail
90m SE		rail
90m E		rail
94m E		rail
96m E		rail
101m SE		rail
103m N		rail
103m SE		rail
104m N		rail
108m SE	Not given	Single Track
110m E		rail
111m SE	Margam Knuckle Yard	rail
112m SE	Not given	Single Track
114m E		rail
115m SE	Margam Knuckle Yard	rail
117m N		rail
119m N		rail
120m E		rail
120m E		rail
121m SE	Not given	Multi Track
126m E		rail
129m SE	Margam Knuckle Yard	rail
132m N		rail
134m E		rail



Location	Name	Type
136m E		rail
137m SE	Margam Knuckle Yard	rail
138m E		rail
145m E		rail
149m E		rail
152m N		rail
153m SE	Margam Knuckle Yard	rail
154m E		rail
158m E		rail
160m SE	Margam Knuckle Yard	rail
160m SE	Margam Knuckle Yard	rail
160m E		rail
170m N		rail
170m N		rail
171m N		rail
185m SE	Margam Knuckle Yard	rail
186m SE	Margam Knuckle Yard	rail
192m E		rail
201m E	Not given	Single Track
203m E		rail
213m SE	Margam Knuckle Yard	rail
224m SE	Margam Knuckle Yard	rail
228m SE	Margam Knuckle Yard	rail
229m SE	Margam Knuckle Yard	rail
231m N		rail
238m SE	Margam Knuckle Yard	rail
238m SE	Margam Knuckle Yard	rail
245m NW		rail



Location	Name	Type
246m SE	Margam Knuckle Yard	rail
247m SE	Margam Knuckle Yard	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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Appendix D

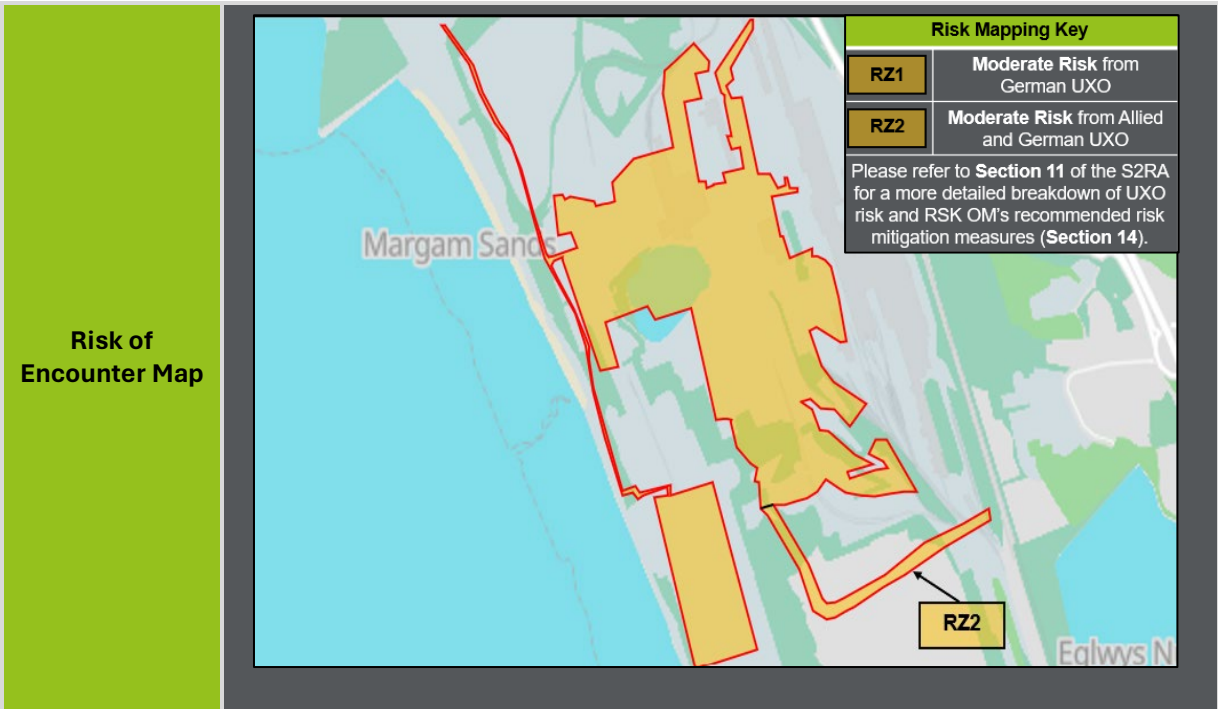
THIRD PARTY DATA



Project Name	Tata Steelworks, Port Talbot
Client	RSK Geosciences
Report Reference	S2RA-1004
Date	29/05/2024
Author	Will Hunnisett
Reviewer	Alfie Hanford
Authoriser	Andrew Lane

Executive Summary

Risk of Encounter	RSK OM believes there to be an overall MODERATE RISK from items of German UXO, with a zone of MODERATE RISK from items of Allied UXO.	
Risk of Harm	RSK OM believes there to an overall SEVERE risk of harm.	
Site Information	National Grid Reference	Region
	SS 77726 86519	Port Talbot, Glamorgan
	<p>The site is located within Tata Steelworks, in the town of Port Talbot. Large sections of the site comprise open, undeveloped ground, as well as infrastructure of key importance to the steelworks. For example, a coal yard is situated in the south-west, while a concast and BOS plant are located centrally, alongside a blast furnace and gas holder. Railway sidings are visible in the north, with the western extent comprising a hard surfaced accessway. A greenfield section composes the southern boundary. It is bound to the north and east by further industrial structures in the steelworks complex, to the south by open, undeveloped ground, and to the west by Morfa Sands and the Bristol Channel.</p>	
The Proposed Works	<p>Site Investigation works are planned, comprising a series of boreholes to a maximum depth of 75m bgl, although most will only intrude to 30m bgl. Following these works, the site will be undergoing a large knock down and rebuild, most notably just north of the reservoir.</p>	
German UXO Risk	<ul style="list-style-type: none"> During WWII, the site was situated within the Municipal Borough of Port Talbot. Identified targets were situated within 1km, while two bombing decoys were situated within the south of the site. Bombing incidents, possibly on site, occurred at Morfa beach and sidings; Morfa sidings were likely associated with Morfa colliery, on site at this point, while the western section of the site comprised a section of the beach. Post-WWII aerial photography indicates that the vast majority of the site comprised open, undeveloped ground at the time of WWII. Large sections of this ground cover comprised saltings and mudflats, within which a UXB strike would have left no evidence of its occurrence. The extensive post-WWII ground works will have mitigated a large degree of risk on site. These areas can be considered mitigated to the precise depths of previous post-WWII ground intrusions. Any intrusions beneath these depths would require active risk mitigation measures. 	
British/Allied UXO Risk	<ul style="list-style-type: none"> During WWII, a local Auxiliary Unit are known to have trained on sand dunes in the local area, potentially adjacent to the site. A partially submerged tank is also located here, thought to have been used in D-Day exercises. A moving target range is located adjacent to the site; it is conceivable that LSA, as well as SAA, was expended here. RSK OM have accessed an open-source database recording anti-aircraft positions in Britain; this records 13 HAA batteries within a 15km radius of the site, one of which may have been located on Morfa Beach. 	
Recommended Risk Mitigation Measures	<p>All Risk Areas</p> <ul style="list-style-type: none"> UXO Safety Awareness Briefings Intrusive Magnetometer Survey Non-Intrusive Magnetometer Survey in Risk Zone 2 UXO Watching Brief 	



Annexes and Appendices

Annexes		Appendices	
A	Site Locator Maps	i	Contextual Information Document
B	Contemporary Aerial Photography	ii	Examples of German ADWs
C	Historical OS Maps	iii	Examples of Allied UXO
D	Historical Aerial Photography	iv	Bibliography
E	Risk of Encounter Map		

Glossary

AA	Anti-Aircraft	TNT	Trinitrotoluene
ALARP	As Low As Reasonably Practicable	RNPF	Royal Navy Propellant Factory
AP	Armour Piercing	ROF	Royal Ordnance Factory
APBC	Armour Piercing Ballistic Cap	SAA	Small Arms Ammunition
APFSDS	Armour Piercing Fin Stabilised Discarding Sabot	SIP	Self-Igniting Phosphorous
AP	Anti-Personnel	UC	Unclassified Bomb
ARP	Air Raid Precautions	UP	Unrotated Projectile
AT	Anti-Tank	USAAF	United States Army Air Force
BL	Breech Loading	UXAA	Unexploded Anti-Aircraft
DA	Delayed Action	UXB	Unexploded Bomb
EOC	Explosive Ordnance Clearance	UXO	Unexploded Ordnance
EOD	Explosive Ordnance Disposal	V1	Flying Bomb
FP	Fire Pot	V2	Long Range Rocket
HAA	Heavy Anti-Aircraft	WAAF	Women's Auxiliary Air Force
HE	High Explosive	WWI	World War One
HEAT	High Explosive Anti-Tank	WWII	World War Two
HESH	High Explosive Squash Head		
HG	Home Guard		
IB	Incendiary Bomb		
LAA	Light Anti-Aircraft		
LCC	London County Council		
LSA	Land Service Ammunition		
ML	Muzzle Loading		
NFF	National Filling Factory		
PAC	Pilotless Aircraft		
PB	Phosphorous Bomb		
POW	Prisoner of War		
QF	Quick Firing		
RAF	Royal Air Force		
RFC	Royal Flying Corps		
RNAS	Royal Naval Air Service		

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1 Introduction

1.1 The Client and Site

RSK Ordnance Management have been commissioned by RSK Geosciences to complete a Stage 2 Detailed Risk Assessment for the Tata Steelworks, Port Talbot site. This report adheres to guidelines detailed in CIRIA C681, 'Unexploded Ordnance (UXO) A Guide for the Construction Industry'.

1.2 The UK Regulatory Framework

Unlike other industries, no legally binding regulations exist for the construction industry. Instead, industry best practice, alongside CIRIA C681 (published in 2009), guides construction projects. The aim of these regulations, which will be outlined below, is to make construction firms aware of their responsibility to, where possible, keep their workforce engaged in ground-breaking activities safe from any potential UXO risks.

1.3 The Health and Safety at Work Act, 1974

As detailed above, this seminal act in the UK legislature places a duty of care on employers to protect their workforce 'as far as reasonably practicable' from any reasonably foreseeable UXO risks. Of note is that the same duty of care has to be applied to the general public, as well as their own workforce.

1.4 Construction (Design and Management) Regulations, 2015

CDM 2015 ensures that health and safety within the construction industry is continually improved in many ways, including but not limited to, ensuring works are sensibly managed and planned in a way that risks are identified and managed suitable, while ensuring that any staff conducting works are able to complete their tasks safely. This is achieved by ensuring cooperation between all parties and ensuring clear channels of communication.

1.5 CIRIA

The Construction Industry Research and Information Association (CIRIA) provides guidelines to the UK construction industry regarding the risk posed by UXO. Written in 2009, C681 provides this in report format and focusses on land-based construction projects. Its sister report, C754, focuses on construction projects in the marine environment.

1.6 Control of Major Accident Hazards (COMAH), 2015

Contamination as a result of Allied military activity can sometimes result in a chemical hazard, as well as an explosive one. Alternatively, a detonation of an item of UXO may result in an unrelated major hazard. Substances used or stored at COMAH establishments can be dangerous, although the establishments are strictly regulated under the COMAH Regulations 2015. As a result, they have to manage their activities in a way which reduce risks to workers and the public, in line with the Health and Safety Act 1974. Operators must take all measures necessary to prevent major accidents and to limit their consequences for people and the environment. This is achieved through appropriate plant design, process control, mitigation measures and emergency procedures.

The regulations are enforced by a Competent Authority which comprises jointly the Health and Safety Executive in Great Britain and the relevant environment agency (the Environment Agency in England, Scottish Environment Protection Agency in Scotland and Natural Resources Body for Wales in Wales). Nuclear establishments are regulated by the Office for Nuclear Regulation and the relevant environment agency.

2 The Roles of the Public and Private Sectors

2.1 Public Sector

In the event of a possible UXO encounter on a construction site in the UK, the police will be called. They will then assess whether the find could potentially comprise an item of UXO, and place a safety cordon around the find if that is deemed to be a possible scenario. If so, the Joint Services Explosive Ordnance Disposal Operations Centre (JSEODOC) will be informed, who will arrange for the next steps in the process; this involves the investigation, and if necessary, the disposal of the find. The speed at which JSEODOC will be able to attend the site to conduct these next steps depends on the level of risk that they believe the find poses. This is influenced by many factors, such as the location of the find, the type of UXO that it may be, and the potential for risk of harm.

It is unlikely that the military will conduct multiple further investigations unless there are extenuating circumstances, such as high-risk situations. For example, where multiple ordnance finds are encountered on a site, due to limited funding and personnel issued to JSEODOC, it is likely that the construction project will be tasked with appointing a private sector firm to ensure that potential items of UXO are dealt with safely.

2.2 Private Sector

Both pro-active and reactive risk mitigation measures can be implemented by firms in the private sector. Whether these are required will first be assessed via a Stage 1, and if necessary a Stage 2, Risk Assessment. The exact type of support needed can be tailored to each construction project, considering factors such as the proposed works, number of ground intrusions, and how those ground intrusions are carried out (e.g. by hand or plant etc.).

A wide variety of risk mitigation measures can be enacted to ensure safety during the construction phase. Having a UXO Engineer on site conducting a Watching Brief ensures that timely delays can be avoided if a suspicious find can be safely declared not to be UXO, while an intrusive survey prior to piling can allow for amendments to the pile layout/design before deployment to site, if necessary. Furthermore, UXO Safety Briefings allow for a large number of staff to continue their CPD and be upskilled on potential hazards they may encounter on site.

3 Methodology and This Report

3.1 Aims and Objectives

This report will provide a comprehensive assessment of the potential risk from UXO at the proposed site. Located in the Executive Summary and at the end of the report are carefully considered and appropriate recommended work-specific risk mitigation measures to reduce the risk potentially posed by items of UXO during the proposed works to a level that is As Low As Reasonably Practicable (ALARP).

3.2 Methodology

In order to ensure that any recommended risk mitigation measures are appropriate and proportionate, the following factors key to our methodology will be assessed:

- The risk that the site became contaminated with unexploded ordnance.
- The risk that any such UXO remains on site.
- The risk that any such ordnance may be encountered during the proposed intrusive works.
- The risk that any such ordnance may be initiated during this process.
- The consequences of initiating or encountering any such ordnance.

To ensure the accuracy and completeness of our work when following the methodology detailed above, RSK Ordnance Management have carefully considered the following factors::

- An assessed maximum bomb penetration depth.
- The nature of UXO which may be found on a site.
- Post-WWII re-development works.
- Any evidence relating to German Air Dropped Weapons (ADWs) or items of Allied UXO. coming to contaminate the site area.
- UXO clearance tasks undertaken on site post-WWII.

3.3 Sources of Information

During the writing of this assessment, RSK Ordnance Management have collated and analysed wide ranging sources. Proportionate efforts have been made to access all relevant materials, most of which are held in the public domain. Below is an example of sources checked and analysed, although it is not exhaustive.

- The National Archives.
- Relevant local archives.
- The Defence of Britain Extended Database.
- Open-source Google Mapping Information.
- Historical Aerial Photography – Historic England, National Collection of Aerial Photography, Britain from Above.
- ProMap.
- Relevant books, journal/web articles.
- Extensive in-house knowledge and experience at RSK Group Limited.

4 Background Information on Records

4.1 The Accuracy of WWII-era Records

In cities that were heavily bombed, such as London or Plymouth, ARP Wardens (among other personnel) were tasked with accurately recording the date, time, nature and any other details regarding bomb strikes in their areas of operations. During periods of intense raids, this was often a difficult task and inevitably not all raids were accurately recorded.

Likewise, precise details regarding historical Allied activity in many areas around the UK were not typically well recorded. This leads to situations where it is difficult, and sometimes impossible, to accurately predict where associated items of UXO may be encountered. Not all defensive positions established in 1940 when the feared German invasion was anticipated were recorded. Also, maps of military training areas do not accurately record impact areas for weapon ranges. In addition to this, ad hoc training conducted by the Home Guard or British/Allied military units were often not recorded.

To ensure this report is as accurate and complete as possible, many sources have been cross referenced in an attempt to minimise any issues caused by incomplete/inaccurate record sets. However, RSK Ordnance Management cannot be held accountable for any errors/omissions in WWII-era records. The same applies to information that is released to the public domain or becomes newly available after the production of this report.

5 The Site

5.1 Site Location and Description – Annex B

The site is approximately centred on the grid reference SS 77726 86519.

The site is located within Tata Steelworks, in the town of Port Talbot. Large sections of the site comprise open, undeveloped ground, as well as infrastructure of key importance to the steelworks. For example, a coal yard is situated in the south-west, while a concast and BOS plant are located centrally, alongside a blast furnace and gas holder. Railway sidings are visible in the north, with the western extent comprising a hard surfaced accessway. A greenfield section composes the southern boundary.

It is bound to the north and east by further industrial structures in the steelworks complex, to the south by open, undeveloped ground, and to the west by Morfa Sands and the Bristol Channel.

5.2 The Scope and Nature of Proposed Works

Site Investigation works are planned, comprising a series of boreholes to a maximum depth of 75m bgl, although most will only intrude to 30m bgl. Following these works, the site will be undergoing a large knock down and rebuild, most notably just north of the reservoir.

5.3 Ground Conditions

Information sourced from the British Geological Survey confirms that the northern section of the site is underlain by the South Wales Middle Coal Measures Formation - mudstone, siltstone and sandstone, with the southern section underlain by the South Wales Lower Coal Measures Formation - mudstone, siltstone and sandstone. Superficial deposits of Tidal Flat Deposits - clay, silt and sand are present on site.

No relevant contemporary geological information for the site was found. However, a borehole log from the same geology and in close proximity to the site (BGS ID 370770) recorded the following conditions:

- 2.1m of sand
- 3.8m of wet sand
- 1.4m of brown CLAY
- 0.6m of black CLAY

- 1.5m of silty grey CLAY
- 0.9m of peat
- 1.8m of light blue-grey CLAY

6 Site History

6.1 Introduction

The historic make-up and usage of a site can be key in determining the risk that UXO may pose. Historic mapping editions, aerial photography, and any additional information (where possible) will be analysed to determine the likelihood that a site may have been accessed frequently, or that bomb damage may have been observed, among other factors. For more information, please see **Section 1** in the **Contextual Information Document**, presented in **Appendix i**.

6.2 Historical Mapping – Annex C

	Date	Scale	Observations
Pre-WWII	1921	1:25,000	This mapping edition indicates that the vast majority of the site comprised open, undeveloped ground. Morfa is noted in the central section. Railway sidings intrude into this area, with structures recorded as Pit Row, Overman's Row and Office Row are recorded adjacent to a Grange Pit. The moorland in this area is noted as Liable to Floods, with sand banks recorded in the northern section, adjacent to Saltings. The Port Talbot railway is situated to the east of the site.
Post-WWII	1946	1:54,000	Note, the scale of this mapping has impeded detailed analysis. However, it can be said that little to no development has occurred on site by this stage. Morfa Colliery (Disused) is recorded on site, as is a Pumping Station.

6.3 Historical Aerial Photography – Annex D

	Date	Observations
	18 th June & 19 th September 1948	These two oblique images provide a view of the northern section of the site in 1948, once works on the steelworks here were underway. Large scale development can be seen to the east, while the site itself largely comprises open, undeveloped ground with little evidence of groundworks at this stage, aside from a large funnel. Large bodies of water are present on site, while the ground cover does not look well maintained. The large pre-existing industrial facilities to the north of the site are clearly visible.
	1949	Note, the southernmost section of the site is not visible in this image, and the height that it was taken at hinders detailed analysis. However, the large development to the east is visible again, which appears to be further developed by this time. The saltings in the north are clearly visible. Clearly demarcated agricultural fields are observable in the southern section of the site.

6.4 Supplementary Information

The earliest known industrial history of the site dates to 1849 when Morfa Colliery was established by Vivian and Sons.¹ Four men were killed at the pit in an explosion in 1858, and by 1908, 302 men worked at the pit. The colliery was the most successful on the South Wales coalfield, and one of the few to successfully operate under the sea and navigate the difficult geology of the southern outcrop.² OS mapping from this period shows clusters of small structures and railway sidings at Morfa Colliery. The pit is recorded as closing in 1913.

Margam Iron and Steel Works, completed in the mid-1920s, established steelmaking at Port Talbot, closing in 1953.

The site is home to the Abbey Steelworks section of the larger Tata Steelworks; work began on this in 1947, with the name believed to be derived from the historic Margam Abbey that partially remains on site. Following WWII, several Welsh steel producing companies formed the Steel Company of Wales. The works opened in 1951 and became operational in 1953. By the 1960s, the works was the largest steelworks in Europe. In 1967, the company was nationalised and became a part of British Steel.³

By 2000, the works had been privatised under the control of Corus. Control was transferred to Tata Group in 2007, by which point output had reached 4.7 million tonnes of steel a year.

7 The Risk Posed by German Ordnance

7.1 Introduction

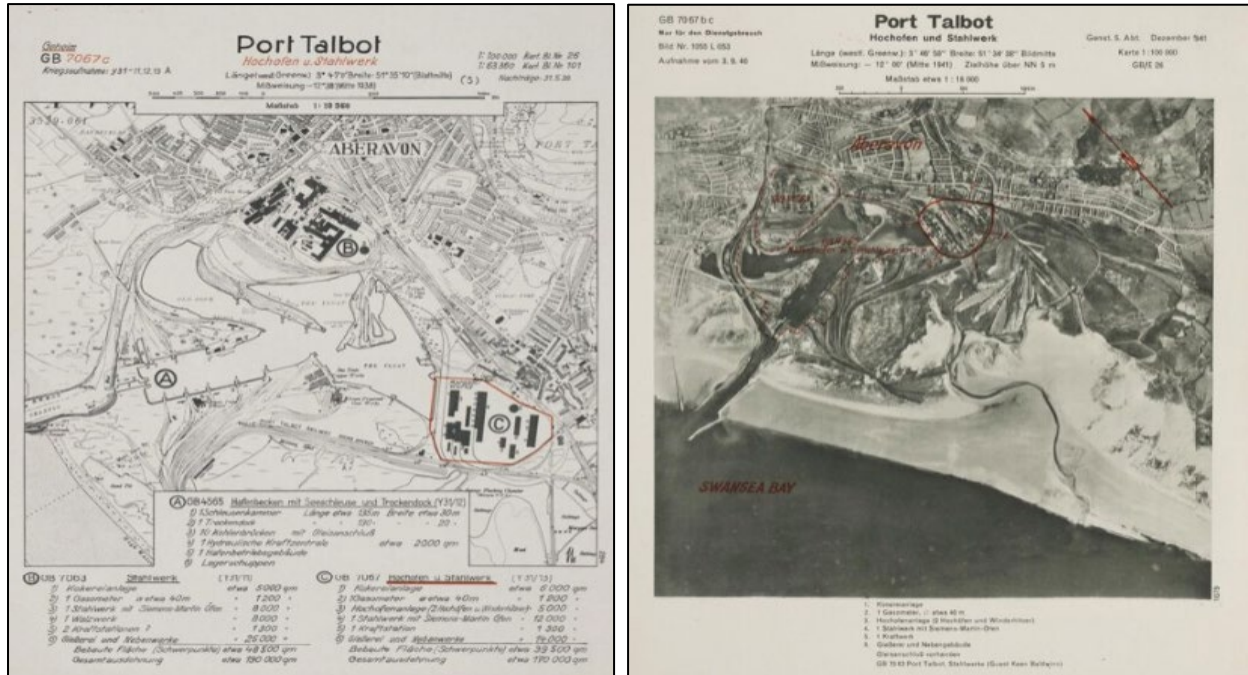
During WWI and WWII, Britain was subjected to aerial bombardment. This was mostly targeted at towns or cities with military or industrial importance, with many areas being subjected to their own 'Blitzes'. For further information, please see **Section 4** in the **Contextual Information Document**.

¹ <https://www.welshcoalmines.co.uk/GlamWest/Morfa.htm>

² <https://nmrs.org.uk/mines-map/coal-mining-in-the-british-isles/swales/llanelli-area/morfa-colliery/>

³ <https://coflein.gov.uk/en/site/91392/#:~:text=The%20new%20Abbey%20Works%20was,works%20was%20part%20of%20>

Industry associated with Port Talbot steelworks and infrastructure in the dockland area were identified as primary targets by the Luftwaffe, approximately 750m north of the site. Furthermore, a Civil Starfish bombing decoy, intended to replicate the city of Swansea, was situated in the south of the site, alongside a QF decoy to draw bombs away from oil installations at Swansea harbour. Several sources, such as documents sourced from The National Archives and books relating to bombing decoys were analysed, although no evidence relating to the bombing decoys on site was found.



[7]

7.3 Primary/Secondary Bombing Sources

7.3.1 WWII Home Office Bombing Statistics

Amount of German Ordnance Dropped on the Municipal Borough of Port Talbot	
Size of Area (Acres)	23,444
High Explosive Bombs (all types)	87
Parachute Mines	1
Oil Bombs	3
Phosphorous Bombs	0
Fire Pots	0
V1 Pilotless Aircraft (Flying Bomb)	0
V2 Rocket	0
Total (discounting V weapons and 1/2kg IBs)	91
Average number of bombs per 1,000 acres	3.9

7.3.2 Register of Civilian War Deaths due to War Operations

RSK OM have obtained a book from West Glamorgan Archives which details the seven civilian deaths that occurred in Port Talbot in WWII as a result of war operations. These records record the place of death of each person. Although none were recorded in close proximity to the site, given the undeveloped nature of the site and its immediate surrounds, this is not thought to be a significant risk mitigating factor.

7.3.3 West Glamorgan Archives

During the production of this report, RSK OM visited West Glamorgan Archives and viewed a series of primary sources in an attempt to located a complete, or partial, record set relating to WWII bombing in the borough. After viewing records related to gas works, repairs to structures and roadways, and council minutes during WWII, no such references were located.

7.3.4 Secondary Sources

A history of Port Talbot, completed as part of a PhD and found online, steelworks stated that:

“A number of isolated bombs fell in the vicinity of Port Talbot/Margam Steelworks during the summer of 1940. One bomb hit Margam’s fitting shop but failed to explode. More serious was a stick of 9 bombs that fell outside Port Talbot’s General Offices on 29th June 1940 which smashed windows, dislodged slates and damaged some rails. The objective was probably Port Talbot’s gasholder which GKB had emptied earlier in the war.”

A local history website recounting bombing raids in Bridgend and the wider area recorded the following bombing incidents:

- 29th June 1940 - On the railway sidings near Port Talbot Steelworks and between Margam Coke Ovens and Richard Thomas Steelworks.
- 1st July – Railway sidings at Morfa Bank.
- 30th July 1940 – on Morfa Beach.

7.3.5 Abandoned Bombs

No abandoned bombs were recorded in the vicinity of the site.

7.4 Assessing the Likelihood of German UXO Contamination

UXO Risk Elevating Factor	Yes/No	Observations
Was there a high density of bombing in the wider area?	Yes	Although the wider district did not have an elevated bombing density, the site was situated in close proximity to identified Luftwaffe targets, with bombing decoys on site. Evidence suggests the latter may have been targeted twice, with the former repeatedly raided.
Was bomb damage sustained on or adjacent to the site?	Unknown	The poorly maintained nature of the ground cover in post-WWII aerial photography has hindered detailed analysis, and as such, it has not proved possible to confirm whether bomb damage occurred on site.
Was ground cover conducive to the observation of evidence of UXO?	Yes/No	Although small sections, such as those potentially occupied by structures, would have been conducive to the observation of UXO, the vast majority of the site would not. Large swathes were occupied by unmaintained vegetation, with others comprising saltings and river channels, within which evidence of a UXB would have been immediately lost.
Would the site have been accessed frequently?	Yes/No	It is not thought likely that the vast majority of the site would have been accessed at all. It is, however, thought likely that some sections may have been accessed more, such as the colliery or bombing decoys. The moving target range in this area would also likely have been utilised during WWII, also affording a degree of access. Furthermore, Morfa Colliery in the centre of the site would likely have seen extensive access.

7.5 Maximum Bomb Penetration Depth

Assessing the geological information provided in **Section 5.2**, RSK OM believe that clearance would be required to **14.25m bgl**. This calculation is derived from bomb penetration data for a 500kg HE bomb. This depth is only approximate, given the lack of site specific geological data, and the potential for a large HE UXB (heavier than 500kg) could potentially remaining underneath his depth. However, it is not thought in line with the ALARP principle to clear to these depths. For more information on how this number has been calculated, along with further details, please see **SECTION 4.6** of the **Contextual Information Document**.

8 The Risk Posed by British/Allied Ordnance

8.1.1 Introduction

RSK OM have found evidence indicating that the site may have become contaminated with items of British/Allied UXO. Relevant pathways of potential contamination will be discussed below.

To see an overview of the most common types of Allied/British UXO encountered on sites today, please see Section 3 of the Contextual Information Document.

8.2 Ordnance Manufacture

During WWI, Port Talbot Steelworks, located to the north of the site, produced steel shell billets up to 12” in diameter, as well as other steel features for warships, among other military materiel. No evidence of the filling of these shells occurring on site has been found, and one such empty shell was found to the north of the site in 2020.⁴ It is thought prudent to make the reader aware of the possibility of encountering such an item, and all should be treated as filled with explosives and fully functioning until proven otherwise.

8.3 Military Training

An open-source geo-data set recording military features notes a moving target range immediately south of the site. Contemporary aerial photography confirms the presence of infrastructure in this area, likely related to the target pulling machinery observed at other WWII-era firing ranges. The orientation of this infrastructure, as confirmed by OS mapping from 1947, indicates that firing occurred in a south-east to north-west orientation, with two sets of butts recorded in front of a firing point. A large wall, to capture any ordnance fired on the range, is situated behind the butts.

It is entirely conceivable that military activity on this range led to UXO contamination in the wider area. This could have occurred for a number of reasons; the range may have had temporary stores nearby, with ordnance improperly disposed of in the surrounds. Troops may also have conducted fire and move manoeuvres outside the official boundaries of the range, potentially on site. At this stage, OS mapping indicates that this range was used for rifle practise. It must be noted that the possibility that LSA was used on this range, as is known to have occurred before and during WWII, cannot be ruled out at a desktop stage.

Furthermore, reference has been found online to the wreck of British Cavalier tank on the beach at Morfa, immediately west of the site. The relevant post states that this tank may have been involved in exercises related to D-Day and became beached, although no corroborating evidence has been found. It is, however, thought to be indicative of military activity in the wider area.

This likelihood is thought to be compounded by the presence of a D-Day marshalling camp for the US 28th Division based at Margam, approximately 3.3km north-east of the site. The presence of these troops, stationed there from 8th October 1943 until 22nd July 1944, likely resulted in them accessing military ranges present in the wider area, such as those detailed above.

8.4 Home Guard

Soldiers of the 20th Glamorganshire (Port Talbot) battalion would have been responsible for guarding the area. Evidence has been found confirming that the steelworks had its own Home Guard unit, although it is not known whether this was separate from the above mentioned one. Bombing decoys were often operated by Home Guard troops, likely resulting in them accessing the site, while they may also have conducted training on the moving target range to the south. The possibility Home Guard activity resulted in UXO contamination on site cannot be completely ruled out at a desktop stage.

An Auxiliary Unit, covert groups tasked with sabotage should an enemy invasion occur, was stationed at Cymmer during WWII, approximately 11.5km north-east. Recollections from troops in this unit involved

⁴ <https://www.bbc.co.uk/news/uk-wales-51229924>

training in the sand dunes, potentially immediately adjacent to the site. Exact details of such training are not known, although it is understood that the unit possessed sticky bombs and Thompson submachine guns.

8.5 Anti-Aircraft Batteries

RSK OM have accessed an open-source database recording anti-aircraft gun positions in Britain during WWII; this record 13 HAA batteries within a 15km radius of the site. Additional defences, such as LAA guns defending the industrial works to the north, were likely present at points. Indeed, photographic evidence of a 'gun tower' being cleared from Morfa beach, on Tata owned land, has been found. This may have been a control tower, or could potentially have housed an HAA or LAA gun atop it. It has not proved possible to locate the exact location that this feature occupied, although it may have been adjacent to the site.

An AA shell which did not explode at the correct altitude could have come to contaminate the site.

9 The Likelihood that UXO Contaminated the Site

The previously discussed factors regarding UXO contamination will now be summarised in this table. A discussion on the likelihood that UXO may remain, in conjunction with the likelihood that it may be discovered and subsequently initiated, will follow.

German Ordnance
<ul style="list-style-type: none"> • During WWII, the site was situated within the Municipal Borough of Port Talbot, which was subject to an average of 3.9 bombs per 1,000 acres, a very low bombing density. However, identified targets were situated within 1km, while two bombing decoys were situated within the south of the site. • No complete set of bombing records exist for the site area; however, a secondary source noting bombing incidents in the region indicates that the site may have been subject to at least two bombing incidents. These occurred on Morfa beach and sidings; Morfa sidings were likely associated with Morfa colliery, on site at this point, while the western section of the site comprised a section of the beach. It is thought likely that these bomb strikes were either the result of mistargeted bombs aimed at the identified targets to the north, jettisoned after a raid on these targets, or aimed at the bombing decoys in the south of the site. • Post-WWII aerial photography indicates that the vast majority of the site comprised open, undeveloped ground at the time of WWII. Large sections of this ground cover comprised saltings and mudflats, within which a UXB strike would have left no evidence of its occurrence. It is thought highly unlikely that a UXB strike across these sections of the site would have been observed. • It must be noted that sections of the site may have been accessed more frequently, such as Morfa Colliery. In these locations, access throughout WWII was likely more frequent. In conjunction with the hard surfaced roadways and small structures, it is considered less likely that a UXB strike would have gone unnoticed here, although the possibility cannot be ruled out at a desktop stage. • In conclusion, although the site was situated within a district with a low bombing density, two bombing decoys on site, or identified targets to the north, resulted in at least two bombing incidents which likely occurred on site. As abovementioned, the ground cover across the vast majority of the site is not thought to have been conducive to the observation of a UXB strike, with this risk compounded in areas occupied by saltings and the inter-tidal zone. The lack of access to the majority of the site is also considered to elevate the risk on site, and as such, a Moderate risk has been assessed. • Due to the size of the site, a macro approach has been taken when assessing risk. While it may prove possible to zone areas of differing risk if smaller sections were assessed individually, the scale of this size has prohibited such a possibility.

Allied Ordnance

- During WWII, a local Auxiliary Unit are known to have trained on sand dunes in the local area, potentially adjacent to the site. They are known to have used sub-machine guns and explosives during their training. A partially submerged tank is also located here, thought to have been used in D-Day exercises. Alternatively, it may have been used in firing exercises, potentially linked to a moving target range situated in this area, immediately south of the main body of the site. OS mapping indicates that SAA would have been the main type of ordnance expended here, although it is conceivable that LSA was also fired here.
- These activities occurred in an area that does not appear to have been subject to any significant groundworks; therefore, it is conceivable that any items of LSA or SAA buried under the surface may remain in-situ, undisturbed by the extensive groundworks that have occurred elsewhere on site. A Moderate risk of encounter with items of Allied UXO has been assessed in this area.
- RSK OM have accessed an open-source database recording anti-aircraft positions in Britain; this records 13 HAA batteries within a 15km radius of the site, one of which may have been located on Morfa Beach.

10 Post-WWII Risk Mitigation

10.1 Introduction

Although an item of UXO may have come to contaminate the site in WWII, this does not necessarily mean that it will remain today. For example, should extensive post-WWII development have occurred on site, these may have discovered an item of UXO. Furthermore, an Explosive Ordnance Clearance (EOC) task, which are typically carried out on military land but can also occur in civilian areas, would have searched for items of UXO. For more information, please see **Section 5** of the **Contextual Information Document**.

10.2 EOC Tasks

There is no evidence to suggest that the site has been subject to EOC tasks.

10.3 Post-WWII Redevelopment

The site has seen extensive post-WWII redevelopment. Construction on Abbey Steelworks began in 1947. By 1965, a degree of land reclamation had occurred in the western section of the site, with railway sidings serving the large works immediately east interspersed throughout the site; construction on the coal yard in the south-west appears to have been completed by this point. The site appears to have almost assumed its current layout by 2005, minus the laying of small sections of hard standing accessways.

It is thought likely that at least some structures on site are founded on deep foundations owing to the reclamation that has occurred. Bulk excavations have almost certainly occurred in areas, mitigating large areas of risk to the maximum depth of intrusions. It must be noted that the southernmost section of the site does not appear to appear to have been subject to any significant groundworks.

Please note that it is possible for UXO to be present even in areas of post-WWII redevelopment. For example, the rubble/debris created by bombing was utilised as fill in certain cities such as Liverpool and London. If items of UXO had fallen within the debris prior to its clearance and potential use elsewhere, it could have been transported, unnoticed, alongside it. Such UXO has been encountered by RSK OM staff previously, such as a possible AA or rocket warhead found in Bermondsey in October 2023, which was discovered within post-WWII fill and fell out of the side wall of a shallow excavation. While such an incident is not considered to be a likely scenario, it highlights the unpredictable locations within which items of UXO can be encountered, and why the risk can never be wholly ruled out before breaking ground.

11 Assessed Risk Level

As demonstrated, RSK OM have diligently and proportionately assessed the factors considered in our assessment, detailed in **Section 5.2**. We have therefore assessed varied risk throughout the site, split into risk zones, detailed in the table below.

Type of UXO	Risk Zone 1 - Assessed Risk Rating				
	Low	Low-Moderate	Moderate	Moderate-High	High
German HE Bombs			×		
German 1/2kg Incendiary Bombs		×			
Anti-Aircraft Shells			×		
Allied Land Service Ammunition	×				
Allied Small Arms Ammunition	×				

Type of UXO	Risk Zone 2 - Assessed Risk Rating				
	Low	Low-Moderate	Moderate	Moderate-High	High
German HE Bombs			×		
German 1/2kg Incendiary Bombs		×			
Anti-Aircraft Shells			×		
Allied Land Service Ammunition			×		
Allied Small Arms Ammunition			×		

12 Risk of Initiation

12.1 Introduction

The risk of UXO initiation on site will largely depend on the type and condition of the item, as well as the nature of the proposed works. For more information, please see **Section 7** of the **Contextual Information Document**.

12.2 Site Specific Risk of Initiation

Boreholes are not an inherently risky groundwork methodology. Although intrusions are carried out blind, any impact with an item of UXO will be far less dangerous than an impact that a piling rig would cause. That being said, direct impact with the fuze pocket or body of a HE UXB could result in initiation, and given the likelihood that bomb strikes impacted the site, pro-active risk mitigation measures are recommended.

13 Risk of Harm

13.1 Introduction

Although there may be an elevated risk from UXO on site, this does not necessarily mean that there will also be a risk of harm. For more information, please see **Section 8** of the **Contextual Information Document**.

13.2 Risk of Harm on Site

There is considered to be an elevated risk of encountering HE UXBs on site. The most likely of these to be encountered is considered to be a 50kg HE bomb, which possessed approximately 25kg of TNT/amato/trialen, posing a **Severe** risk of harm.

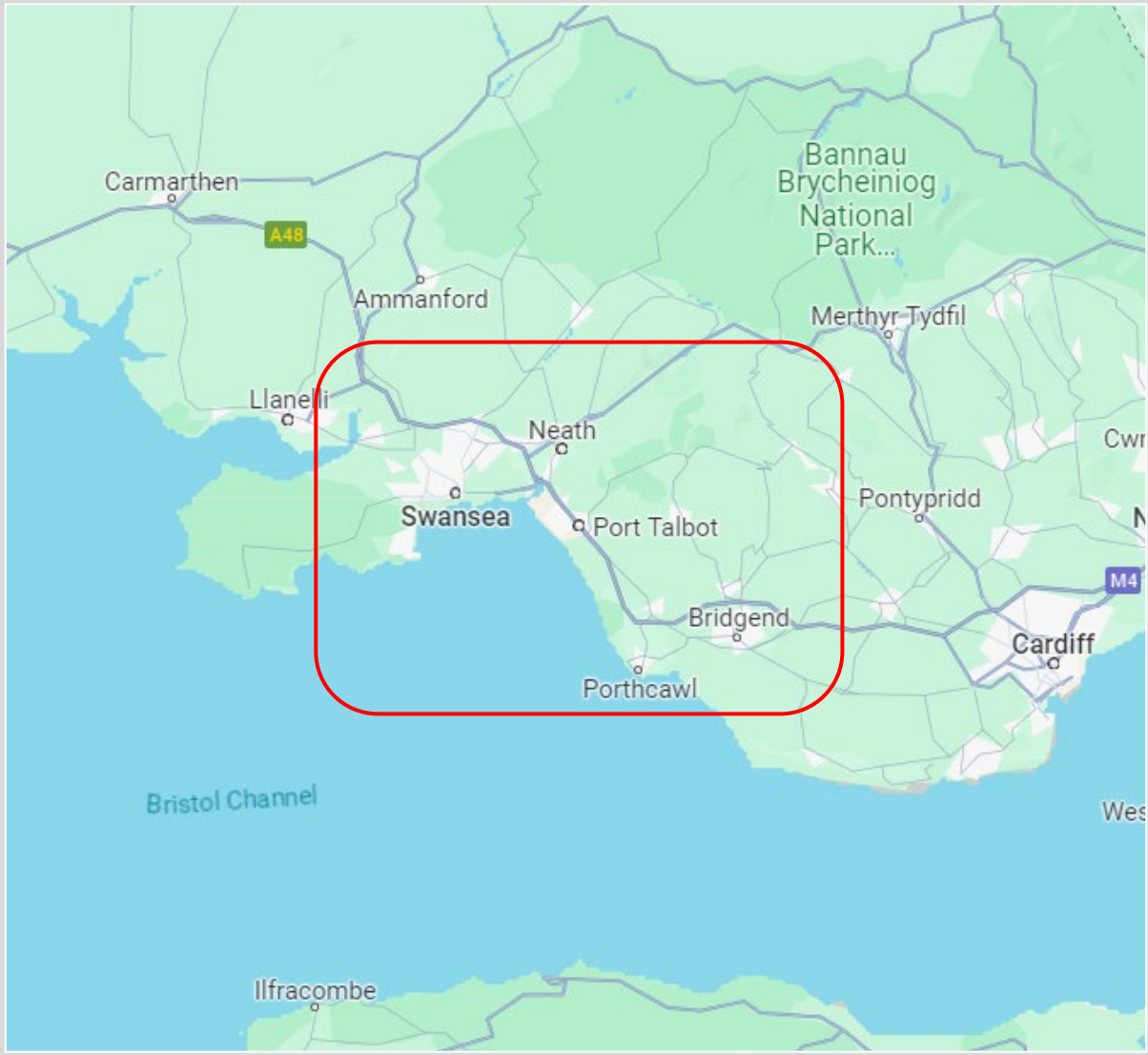
The Moderate UXO risk in the southernmost section means that an encounter with items of unexploded LSA is possible. The local Auxiliary Unit reference training with explosives (type unknown), and the presence of the beached tank in the proximity to a firing range raises the possibility that anti-tank ammunition, such as 2, 6 and 17-pounder rounds, as well as PIATs, were expended in the vicinity. All of these items of UXO also pose a **Severe** risk of harm.

14 Proposed Risk Mitigation Measures

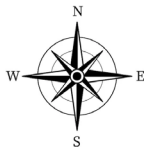
The below risk mitigation measures are recommended to support the upcoming works.

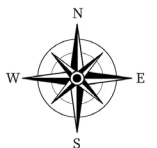
Type of Work
All Works
<p>UXO Safety Awareness Briefings Recommended for all personnel working on site. The briefings will provide a basic level of knowledge regarding UXO, ensuring workers know what to do when they suspect they may have found an item of UXO. Delivered by a UXO specialist with refresher courses offered at intervals.</p> <p>Intrusive Magnetometer Survey RSK OM can deliver an intrusive magnetometer survey in a variety of ways. This survey will successfully clear pile positions to the required bomb penetration depth. Discussion with our Operations team will dictate the best method to deliver this survey once factors such as the site specific geological conditions have been considered.</p> <p>Non-Intrusive Magnetometer Survey RSK OM have the capability to deliver non-intrusive surveys via a number of methods; contact our Operations department for specific requirements. A portable magnetometer probe collects data from your site which is then interpreted for evidence of ferrous anomalies. The final stage in this process is a Target Investigation, where any anomalies found can be investigated on site. Note, this survey is only applicable for magnetically clean (i.e. greenfield) ground.</p> <p>UXO Watching Brief An alternative method to ensure safety on site for when conditions are not appropriate for a non-intrusive survey. A UXO Engineer with a man-portable magnetometer can provide assurances during open excavations to avoid unnecessary timely delays. Allows for borehole clearance.</p>

Note, when making these recommendations, RSK OM have strived to ensure proportionality based on the client provided scope of works. Should these change, RSK OM should be notified immediately to ensure safety and proportionality on site.



Project Name	Client	Report Reference
Tata Steelworks, Port Talbot	RSK Geosciences	S2RA-1004

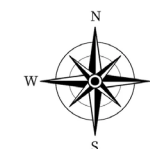
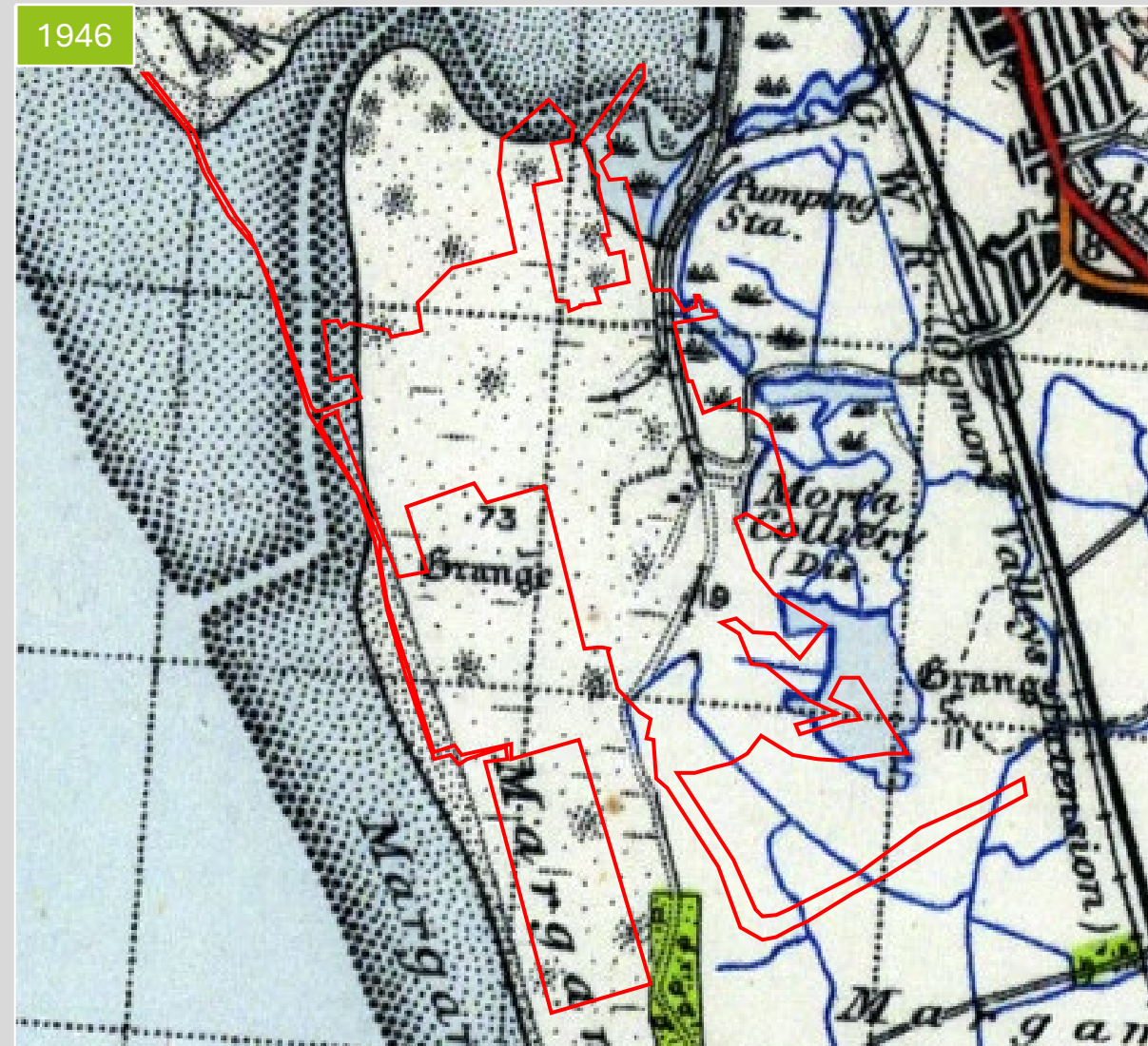


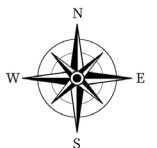
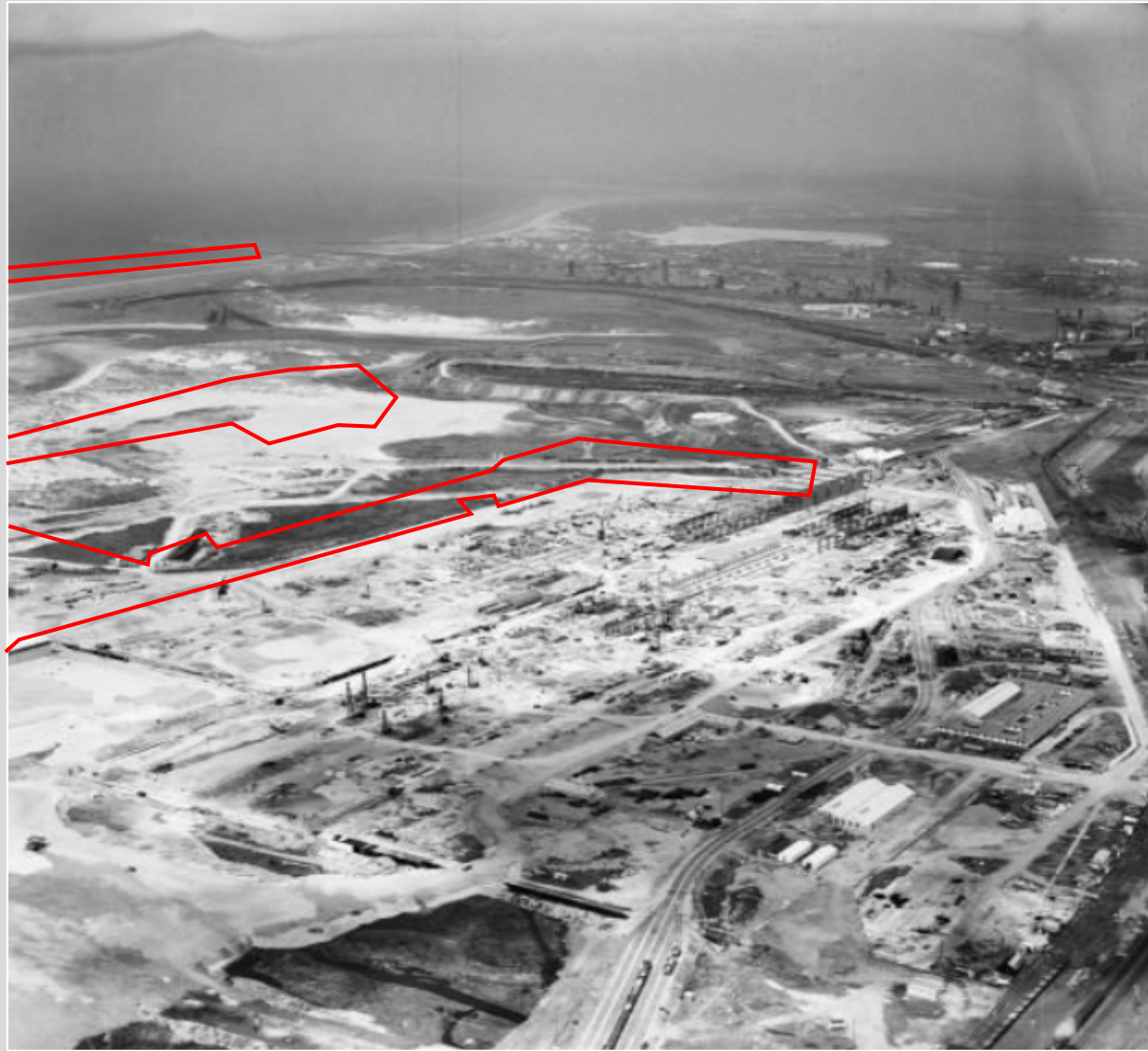


1921



1946

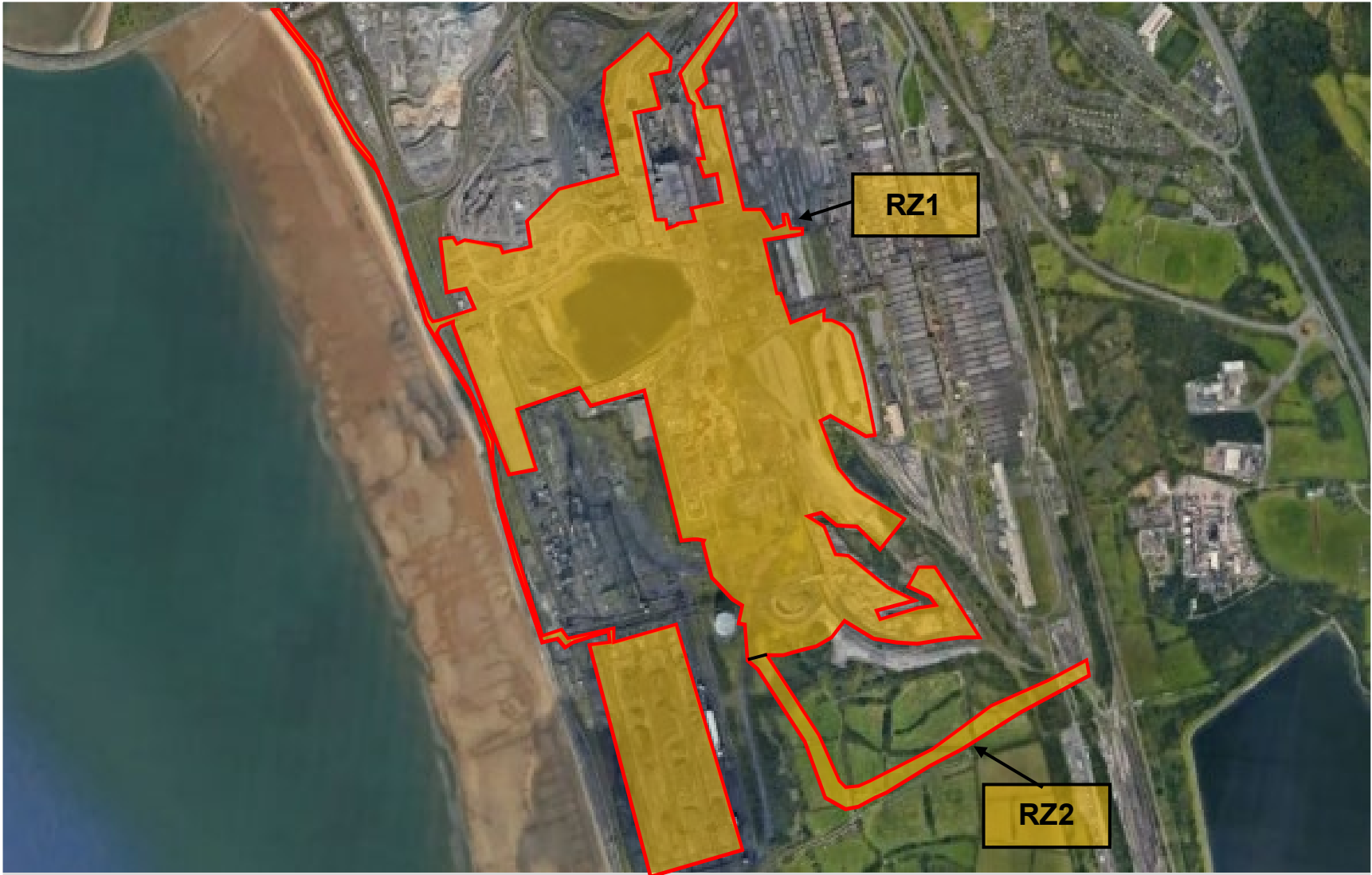






 ORDNANCE MANAGEMENT	Project Name	Client	Report Reference
	Tata Steelworks, Port Talbot	RSK Geosciences	S2RA-1004

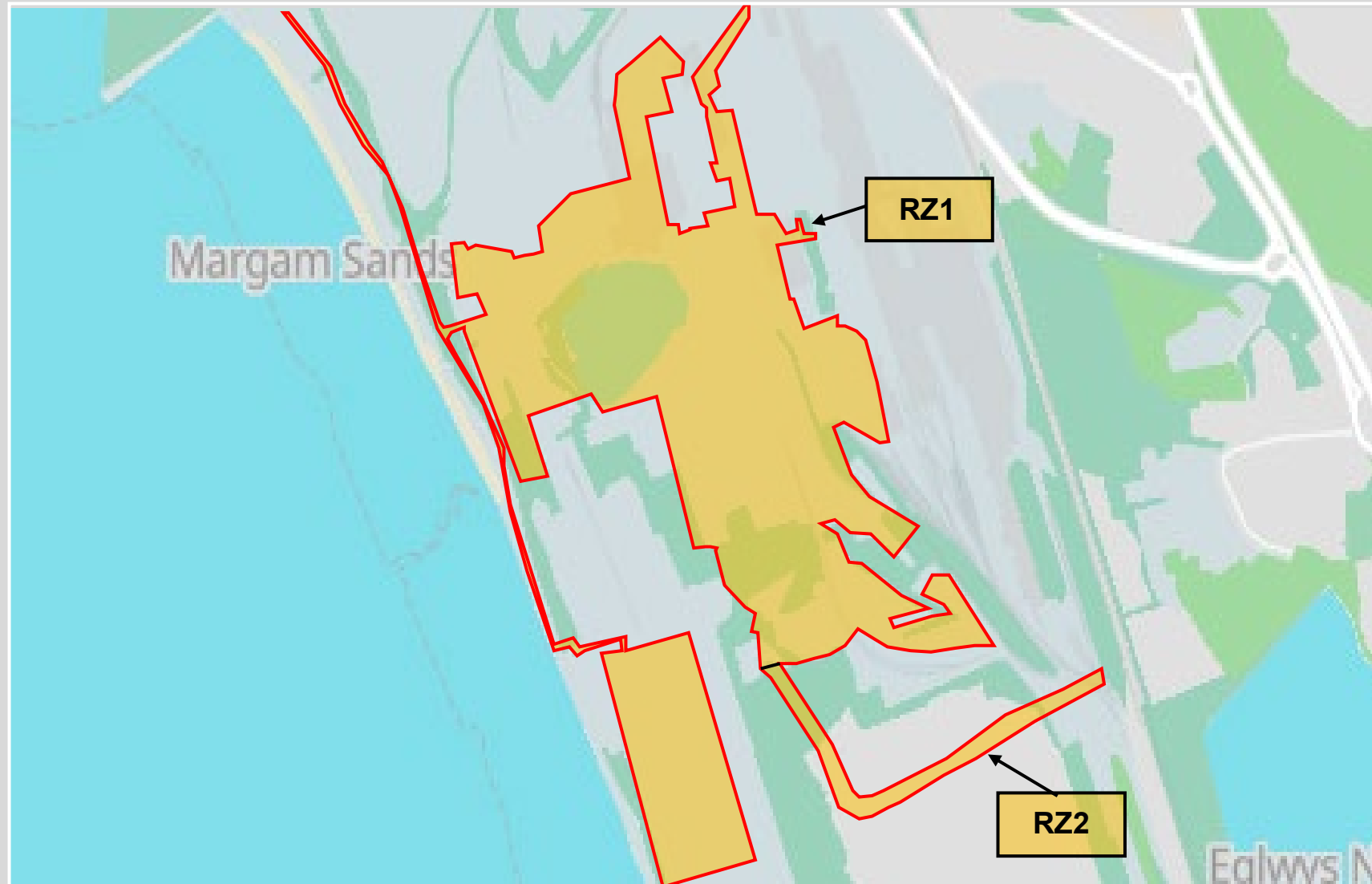




Risk Mapping Key

RZ1	Moderate Risk from German UXO
RZ2	Moderate Risk from Allied and German UXO

Please refer to **Section 11** of the S2RA for a more detailed breakdown of UXO risk and RSK OM’s recommended risk mitigation measures (**Section 14**).

**Risk Mapping Key****RZ1****Moderate Risk** from German UXO**RZ2****Moderate Risk** from Allied and German UXO

Please refer to **Section 11** of the S2RA for a more detailed breakdown of UXO risk and RSK OM's recommended risk mitigation measures (**Section 14**).



Appendix i - Contextual Information Document

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Glossary

AA	Anti-Aircraft	POW	Prisoner of War
ALARP	As Low As Reasonably Practicable	QF	Quick Firing
AP	Armour Piercing	RAF	Royal Air Force
APBC	Armour Piercing Ballistic Cap	RFC	Royal Flying Corps
APFSDS	Armour Piercing Fin Stabilised Discarding Sabot	RNAS	Royal Naval Air Service
AP	Anti-Personnel	TNT	Trinitrotoluene
ARP	Air Raid Precautions	RNPF	Royal Navy Propellant Factory
AT	Anti-Tank	ROF	Royal Ordnance Factory
BL	Breech Loading	SAA	Small Arms Ammunition
DA	Delayed Action	SIP	Self-Igniting Phosphorous
EOC	Explosive Ordnance Clearance	UC	Unclassified Bomb
EOD	Explosive Ordnance Disposal	UP	Unrotated Projectile
FP	Fire Pot	USAAF	United States Army Air Force
HAA	Heavy Anti-Aircraft	UXAA	Unexploded Anti-Aircraft
HE	High Explosive	UXB	Unexploded Bomb
HEAT	High Explosive Anti-Tank	UXO	Unexploded Ordnance
PB	Phosphorous Bomb	V1	Flying Bomb
POW	Prisoner of War	V2	Long Range Rocket
QF	Quick Firing	WAAF	Women's Auxiliary Air Force
RAF	Royal Air Force	WWI	World War One
RFC	Royal Flying Corps	WWII	World War Two
RNAS	Royal Naval Air Service	TNT	Trinitrotoluene
PB	Phosphorous Bomb		

1 Background Site Information

1.1 OS Mapping

The ability to determine whether a site may have suffered bomb damage necessarily depends on the makeup of the site during WWII. For example, if the site comprised an area of open, undeveloped ground, damage would not be noticeable within this source. However, if the site was composed of a section of terraced structures, a bomb strike which caused significant damage may result in the clearance of structures, resulting in easily identifiable evidence. Alternatively, a significantly damaged structure may be marked as a 'ruin'.

Every effort has been made to analyse as many large-scale maps as possible, providing the best possible details through which to assess the potential UXO risk on site. Of note is military censorship of military training grounds or airfields, where relevant features will not be identified.

1.2 Historical Aerial Photography

This source is often more useful in identifying potential bomb damage. Like OS mapping, this can often be more difficult in areas of open, undeveloped ground. Dense vegetation growth or ploughed soil may conceal evidence of a UXB strike, although craters with lipped edges, caused by exploded bombs or larger UXBs, can be clearly visible. Alternatively, evidence of minor damage to structures, in the form of light-coloured roofing repairs, can be immediately identifiable, with large areas of structural clearance obvious. Where vertical images may obscure internal damage in a structure, oblique photography, if available, will also be consulted to attempt to gain a more complete view of the site.

Of note is that this source can also be very illuminating when assessing potential Allied/British risk. For example, trench systems not recorded on OS mapping can be more easily identifiable in this source, even if recently infilled. Likewise, an impact area from a mortar/artillery range often leaves clear evidence of its presence in the form of impact craters of varying sizes. Other evidence of military activity, such as scrape marks from an anti-tank range, are also observable in imagery. When paired with LiDAR imagery, a wealth of information can be gleaned from these sources.

2 Introduction to German Air Delivered Weapons

2.1 Background to German Bombing Campaigns over Britain

Timeline of Luftwaffe Campaigns over Britain					
1940	1940-1941	1942	1943	1944	1944-1945
Battle of Britain fought to deny the Luftwaffe air supremacy required prior to Operation Sealion.	London, and other major cities, subjected to Blitzes of indiscriminate bombing.	Baedeker Raids target cultural and historic sites throughout Britain. Bath and Exeter badly damaged.	'Tip and Run' raids launched which utilise low-flying high-speed aircraft. Southern coastal towns targeted.	Operation Steinboch targets southern England and London with 31 raids. Last raids on the capital.	V weapon campaign launched against Britain. V1 launch sites overrun following D-Day.

Knowing that they would require air supremacy before launching Operation Sealion (the planned German invasion of Britain), in the summer and autumn of 1940, the Luftwaffe set about targeting RAF airfields (as well as radar stations and other supporting infrastructure). Many of RAF Fighter Command's key airfields, such as RAF Biggin Hill, were raided repeatedly, with the south-east of England suffering the heaviest raids during this period. Once the Luftwaffe realised that they had failed to achieve air supremacy, their attention turned to the indiscriminate 'Blitz' against London.

In the hope of destroying civilian morale and causing the collapse of the government from within, the heaviest raid of this period marked the end of the London Blitz on 12th May 1941. From 7th September 1940, London had been subject to repeated and intense raids, centred on the City of London and eastern boroughs, where the majority of industry in the city was located. This method was mirrored in other large cities across Britain, such as Glasgow, Plymouth and Liverpool. Notably, the Clydebank Blitz of 13th – 15th March 1941 was targeted at the key shipbuilding and ordnance production areas of Glasgow. Bombing of other areas also occurred during this period, likely due to them being identified as targets of opportunity (if aircraft could not locate their target, or did not jettison their entire bombload over it, secondary targets such as transport infrastructure or industrial structures were identified). Furthermore, anti-aircraft fire and the lack of accurate targeting mechanisms in aircraft at the start of WWII led to many bombs missing their intended targets, sometimes by many miles. Landing with live ordnance on board was also dangerous, so aircraft would often jettison any remaining ordnance over Britain before they flew back to mainland Europe. This resulted in rural, and seemingly insignificant areas, being subject to bomb strikes.

In contrast to the raids targeted at military installations during the Battle of Britain, and to an extent those aimed at industrial areas during the Blitzes, the Baedeker Raids of 1942 targeted areas of cultural importance in some of Britain's most historic cities, such as Canterbury and Exeter. These were followed in 1943 by an identification of British weakness to raids carried out by fighter bomber aircraft conducting high-speed low-level raids which would evade radar; the aircraft would pop up when they reached their target, drop their bombs and return home. The raids were therefore named 'Tip and Run'. Notably, by this time, large amounts of American and Canadian troops were stationed in southern Britain. Utilising their LAA guns, as well as repurposing some British ones located around previously heavily bombed cities, an interlocking series of defences were established on the south coast to deter these raiders.

Switching back to targeting London for the first concentrated raids since the London Blitz, Operation Steinboch comprised 31 large-scale raids over southern England in 1944. However, as aforementioned, the massing of anti-aircraft defences in southern England, coupled with significant rates of attrition of pilots in the Luftwaffe meant that these raids were not successful. As a result, the final concentrated Luftwaffe raid over London occurred in May 1944.

Knowing that they could no longer successfully bomb Britain using piloted aircraft, the V1 pilotless aircraft offered an opportunity to inflict casualties in southern England. Equipped with a 850kg HE warhead, the blast wave was lethal. The same was true of the V2 rocket, with an even larger warhead at just over a ton of HE. These weapons were very large and often garnered public attention. Furthermore, a three fuze system in the V1 was designed so that they would never be examined by British forces. As such, the UXO risk that these items pose is typically very low.

2.2 Most Common German Air Delivered Weapons

It is important that the different characteristics and defining features of WWII-era German air delivered weapons (ADWs) are understood. This allows for an accurate assessment of the hazards that each item poses, which feeds into the assessed UXO risk in this report. The table below outlines the most common types of ordnance dropped on Britain. For a visual representation of the types of ordnance described below, please see **APPENDIX iii**.

Type of ADW	Penetrative Ability	Explosive Hazard	Background Information
HE Bomb	High. Their aerodynamics and weight (sometimes up to 2,000kg) greatly aided ground penetration.	General Purpose variant higher at around 50%. For the semi-armour piercing variant, this could drop to around 30% as a cap was added.	The most commonly dropped by weight over Britain. RSK OM's experience proves that large HE UXB entry holes were sometimes assumed to be caused by the detonation of smaller HE bombs. These ADWs pose the greatest risk to sites nowadays.
Mines	Low. The blast power was derived from their air or ground burst ability.	High explosive hazard, with variants possessing approximately 700kg of explosive fill.	Known to have caused significant damage when employed effectively. Due to their slow descent, they do not pose a significant risk to current construction sites.
Incendiary bombs	1/2kg incendiary bombs had very limited penetrative ability. Larger ones could penetrate to shallow depths in soft soil.	Small bursting charge in small IBs. Large variants, such as the Flam 500, had larger bursting charges.	1/2kg IBs were dropped in quantities often too large to accurately record over wide areas. Small items so could go overlooked in vegetated areas. Bursting charges to increases anti-personnel effect could be a hazard during intrusive works.
Anti-personnel bombs	Very low due to their low weight.	Approximate 225g HE charge.	Like small IBs, these were dropped in containers in batches of up to 108. Descent slowed by design, many were encountered during post-raid checks If they did not explode. Still encountered on construction sites today.

2.3 German ADW Failure Rate

During WWII, Bomb Disposal Units (BDUs) accurately recorded all aspects of their work. Based off of this, it is generally accepted that 10% of bombs dropped by the Luftwaffe failed to explode. There are many reasons for this, including:

- Release of bombs at a low altitude, not allowing enough time for the bombs to arm successfully.
- Failure to successfully arm the bombs in the aircraft, likely due to either human or mechanical error.

- Incorrectly functioning fuze, or gaine, mechanism. Evidence suggest that large-scale sabotage in factories staffed by slave labour contributed heavily to this.

2.4 German ADW Failure Rate

Key to assessing the potential risk that German ADWs pose to a site is the maximum depth to which they may have reasonable penetrated. In making this calculation, several factors are considered:

- Weight and type of bomb.
- Height, angle, and velocity of release.
- Geological makeup of the site.

2.5 The 'J-Curve' Effect

As stated in CIRICA C681, as the velocity of a bomb slows down during its passage though underlying soils, it can curve upwards towards the surface again, creating what is known as the 'J-Curve' effect. This affirmed what many BDUs had experienced during WWII when investigating UXBs. This horizontal offset can sometimes be up to 15m, although was more likely to be around one third of the bomb's maximum penetration depth.

2.6 Bomb Penetration Depth

RSK OM have obtained original WWII-era studies (from The National Archives) conducted by the Ministry of Home Security regarding the average and maximum penetration depths of HE bombs in different geologies. This test comprised studies on 1,328 different bombs encountered by BDUs, with measurements produced by analysing the penetration depths of different sized bombs in different geologies. Below is a table presenting their findings:

Bomb Mass (kg)	Geological Conditions and Penetrative Depth (m)									
	Sand		Gravel		Chalk		Clay		Sandstone	
	Average	Max.	Average	Max.	Average	Max.	Average	Max.	Average	Max.
50	2.8	7.8	2.8	7.8	3.5	7.7	4.0	9.1	2.7	6
250	4.8	13.7	4.8	13.7	6	13.1	6.8	15.8	4.6	10.3
500	6	17.3	6	17.3	7.6	16.4	8.7	19.8	5.8	13.1
1,000	7.6	21.9	7.6	21.9	9.6	20.7	10.9	24.9	7.3	16.4

3 Most Common British Ordnance

For a visual representation of the types of ordnance described below, please see **APPENDIX ii**.

3.1 Mortars

Fired from a tube, mortar bombs are fitted with their own propelling charges (supplementary charges can be added around the base as required) and usually have a fuze in the nose. They are fin stabilised and usually comprise either High Explosive or carrier variants; as with other ordnance, this is usually denoted by coloured markings on the item. WWII 2" mortars are identified by their parallel sides, with larger variants, 3" and 4.2", tear drop shaped.

3.2 Grenades

Capable of being thrown by hand, or fired from a specially designed launcher or from the end of a rifle, grenades offer lethality over a short distance, with a typical explosive range of 15-20m. Like mortars, they either comprise HE or carrier versions, capable of producing smoke. Older variants tend to have a 'pineapple' shape.

3.3 SAA

Typically comprising ordnance fired from small arms up to 12.7mm in calibre, this is the most common type of ordnance encountered on land used by the military. SAA refers to the complete round (comprising the solid shot 'bullet' and cartridge) intended to be fired from varyingly sized hand-held weapons such as rifles, machine guns and pistols. SAA can include the fired bullets, cartridge cases and primers/caps or once complete ordnance.

3.4 AA Shells

Although large anti-aircraft shells may appear similar in appearance to smaller German HE bombs, a copper driving band around the base can be used to correctly identify the item. As these items were not intended to penetrate the ground, they are often found at shallower depths. Due to the large size of unexploded HAA rounds, they possess a higher Net Explosive Quantity than many items of smaller LSA, such as grenades. Likewise, smaller unexploded LAA rounds pose a lower explosive risk.

3.5 Artillery Shells

Artillery has formed the backbone of modern armies, and played a key role in WWI and WWII. The 18 Pounder was the omnipresent field gun of the British Army in World War I, firing an 84mm shell (notably larger than those used by the French and Germans at the time) up to 11,100 yards by the end of its development. A High Explosive shell held 368g of TNT, with shrapnel, shot, and gas variants also available.

Many howitzers, firing larger and heavier shells, were also used by the British Army during WWI. The 9.2" variant was most commonly used in the heavy counter-battery fire or siege roles. Filled with up to 18kg of TNT or Lyddite, these possess far more lethality, although the guns were more cumbersome.

By World War II, tests on the 18 Pounder had ushered into development the 25 Pounder, known to have been equally feared and admired by the Wehrmacht. The gun had an increased range of 13,400 yards, alongside a greater HE fill (820g of TNT). Again, smoke and chemical versions were available, as was the case with the 18 Pounder. However, developments in anti-tank artillery meant that by the end of WWII, the 25 Pounder could fire a solid shot Armour Piercing Ballistic Capped round using charge super for maximum penetration of enemy armour. This was often done with crews firing open sights due to the short range of such engagements, especially in the dense bocage of Normandy following D-Day.

Modern artillery ammunition used by the British Army typically comprises 105mm (L118 light gun) and 155mm (AS90). These guns and ordnance are based on earlier variants, with greater range and lethality.

4 UXO Risk Mitigation

4.1 Clearance of Items of UXO

Land owned by the military, or formerly used by the military, may be subject to Explosive Ordnance Clearance (EOC) tasks in an effort to remove items of UXO. These tasks may be undertaken to allow the land to be used safely by the public. Alternatively, as construction and redevelopment occurs on military land, they may want to make sure that contractors will be as safe as possible; many training areas require clearance operations to take place prior to any ground intrusions taking place, in certain areas. It must be noted that the efficacy of historic EOC tasks intended to achieve complete clearance has been called into question in the last few decades, where subsequent re-investigations has discovered items of UXO that were not identified previously. Naturally, as technology has improved, so has the effectiveness of EOC tasks. Therefore, it cannot be ruled out that items of UXO may remain in an area that has been searched in an EOC task.

4.2 Post-WWII Construction Works

Many stages of post-WWII redevelopment will also have mitigated a degree of risk on a site, if not entirely. Such works can generally be split into three sections:

- Very shallow works.
- Shallow works.
- Deep works.

For example, shell scrapes at very shallow depths may encounter buried SAA just below the surface, while foundations for a residential structure are more likely to encounter a buried HAA shell. Mass soil excavation for a basement level of a multi-storey car park is most likely to encounter a deep buried HE UXB, although these can also be found at shallower depths.

It must be noted that the risk can only be considered to be mitigated in the exact locations and to the exact depths of any post-WWII redevelopment. Any undisturbed ground down to the maximum bomb penetration depth, even if it remains between post-WWII foundations, must be considered unmitigated.

5 UXO Encounter

5.1 Pathways

If UXO is to be encountered on a site, a pathway between the works and the UXO must be present. A pathway almost certainly includes intrusive works, although UXO can sometimes be found on the surface, particularly on sites with a military history. Generally, the greater the volume of soil that will be disturbed, the greater the likelihood of a UXO encounter.

5.2 Encounter Depths

Encountering German ADWs is more likely at shallow and deep depths, such as when constructing a residential estate or piling deep foundations. This is due to the velocity that such items would have impacted the ground, in conjunction with their greater mass.

Items of LSA/SAA are generally encountered within the top 1m of soil. This is as a result of the usual contamination pathways relating to these items; improper disposal (burial), losing them, or burning them. As was noted above, UXO can sometimes be found on the surface. This is most likely to occur when encountering items of LSA/SAA on military training grounds.

6 UXO Initiation

6.1 German UXO Initiation

An item of ordnance that has remained unexploded for a number of years will almost always require an external influence to begin the sequence of detonation. If a fuze has malfunctioned, there are a number of ways that this can restart, or the HE fill can be detonated, such as:

- Percussive/direct impact effect from a high density object, such as a piling rig. Even if the impact occurs away from where the fuze is located on the bomb, direct impact with the HE fill could cause a detonation if hit with enough force.
- Although the Luftwaffe primarily used mechanical fuzes, as outlined in **Section 4.3**, clockwork fuzes were occasionally employed. The prevailing thinking is that if the clockwork fuze malfunctioned at the time of use, it is unlikely to be initiated again. However, this has been known to happen, and the reader should be aware of this possibility.
- Items of unexploded ordnance, like most other buried objects, degrade over time. Part of this degradation process can include sensitive parts of the bomb, such as the fuze pocket, leaking materials. Over time, these materials can crystallise outside of the bomb, coming into contact, and rubbing against, external features. The friction created can sometimes initiate the sequence of detonation.

6.2 British/Allied UXO Initiation

Unlike German ADW UXBs, if not interfered with, it is very unlikely that an item of LSA/SAA would ever initiate. This may be an acceptable risk on a current military training ground that is unlikely to return to public use. However, this would not be the case for military land due to be sold off. Of note is that SAA is even less likely to be initiated, although this can occur if the firing cap is struck, or items are burned.

6.3 Consequences

Consequences of UXO initiation will differ depending on the receptors in the vicinity. The most significant consequence would be the loss of life on site, or in the vicinity, depending on the nature of the UXO find. Of note is that consequences may extend beyond the potential risk of harm; delays in major construction projects, potentially requiring major transport hubs or roadways to be shut down, or leaving plant hire stranded on site, can have large financial ramifications.

7 Risk of Harm

7.1 Introduction

A risk of encountering UXO does not necessarily equate to a subsequent risk of harm. Although there may be deemed to be an elevated likelihood of encountering 3kg practice bombs whose spotting charges have not functioned on a site, the Net Explosive Quantity (NEQ) of these items is far lower than that of a grenade, for example. An unexploded grenade, if it functioned, has the potential to cause fatal injuries, which would indicate a severe risk of harm associated with this item. However, while the 3kg practice bombs would likely not cause fatal injuries if functioning, they are capable of causing serious injuries.

7.2 Assessed Risk Levels

Therefore, the risk of harm can be split into three risk levels:

1. Tolerable – Unlikely to cause any injuries.
2. Medium – Potential to cause slight and serious injuries
3. Severe – Potential to cause fatal injuries.

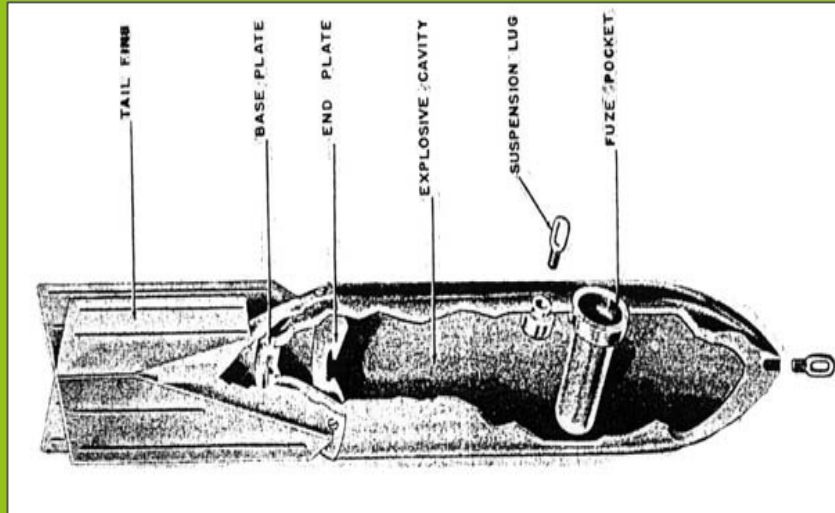
8 Risk Mitigation Methodology

RSK OM have the capability to deliver a wide range of risk mitigation measures. Below is a breakdown of the services we offer. The Executive Summary of this report will detail what specific risk mitigation measures are recommended for your site specific works.

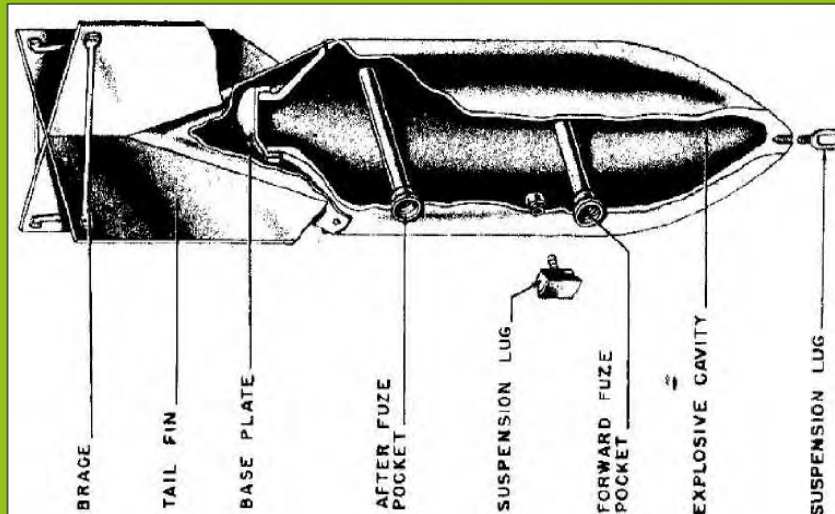
Risk Mitigation Methods	
UXO Safety Awareness Briefings	Recommended for all personnel working on site. The briefings will provide a basic level of knowledge regarding UXO, ensuring workers know what to do when they suspect they may have found an item of UXO. Delivered by a UXO specialist with refresher courses offered at intervals.
UXO Watching Brief	An alternative method to ensure safety on site for when conditions are not appropriate for a non-intrusive survey. A UXO Engineer with a man-portable magnetometer can provide assurances during open excavations to avoid unnecessary timely delays. Allows for borehole clearance and visual identification of potentially items of UXO, avoiding potentially unnecessary evacuations from site.
Non-Intrusive Magnetometer Survey	RSK OM have the capability to deliver non-intrusive surveys via a number of methods; contact our Operations department for specific requirements. A portable magnetometer probe collects data from your site which is then interpreted for evidence of ferrous anomalies. The final stage in this process is a Target Investigation, where any anomalies found can be investigated on site. Note, this survey is only applicable for magnetically clean (i.e. greenfield) ground.
Intrusive Magnetometer Survey	Similarly to non-intrusive magnetometer surveys, RSK OM can deliver an intrusive magnetometer survey in a variety of ways. This survey will successfully clear pile positions to the required bomb penetration depth. Discussion with our Operations team will dictate the best method to deliver this survey once factors such as the site specific geological conditions have been considered.

50kg HE Bomb

Bomb Weight	54kg
Weight of Explosive Fill	25kg amatol/TNT/trialen
Bomb Dimensions	1090mm x 280mm
Type of Fuze	Impact or electrical time delay
Notes	Most dropped bomb by weight over Britain. Useful against light targets.

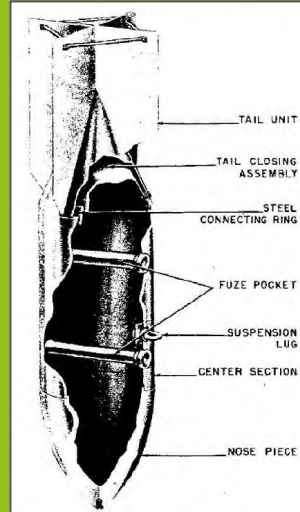
**250kg HE Bomb**

Bomb Weight	256kg
Weight of Explosive Fill	130kg amatol/TNT/trialen
Bomb Dimensions	1640mm x 512mm
Type of Fuze	Impact or electrical time delay
Notes	Increased penetrative ability proved useful against sub-terranean targets.



500kg HE Bomb

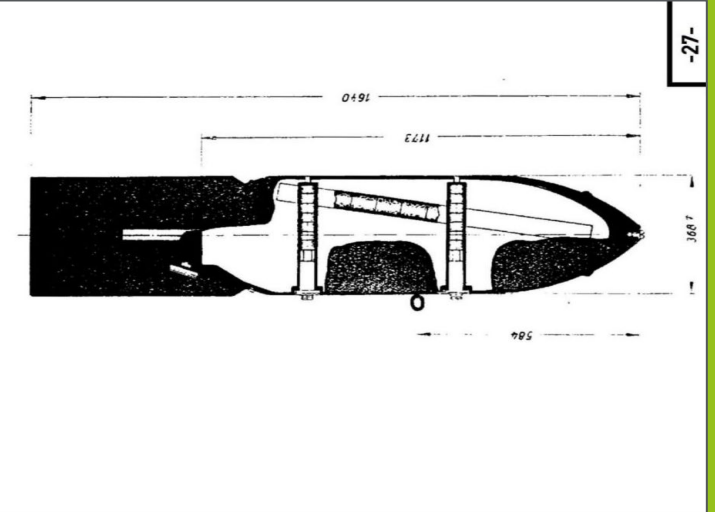
Bomb Weight	520kg
Weight of Explosive Fill	220kg amatol/TNT/trialen
Bomb Dimensions	1957mm x 640mm
Type of Fuze	Impact or electrical time delay
Notes	Used against large industrial/military targets, including infrastructure



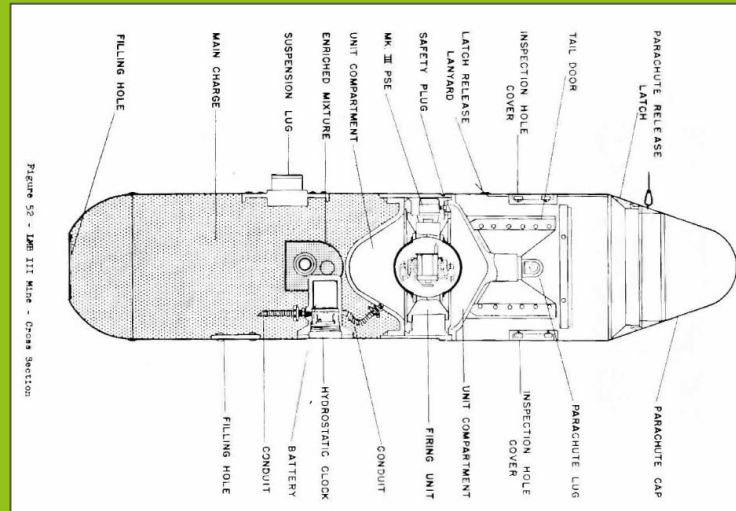
SC 250
MINENBOMBE

Munitions-Lexikon Nr. :
61 100 - 100 - 9

Verwendung: Deutschland, 2. Weltkrieg
Zylinder: AZ (23) D, (38), (55), (55)A, L, Z, Z, (17) Bund (57)
Gesamtweg: 250 + 12 kg
Füllung: 125 kg Fp 80/40 oder Amatol 39 oder Trialen 105
Bemerkung: Wurde später mit Ringleitwerk verwendet

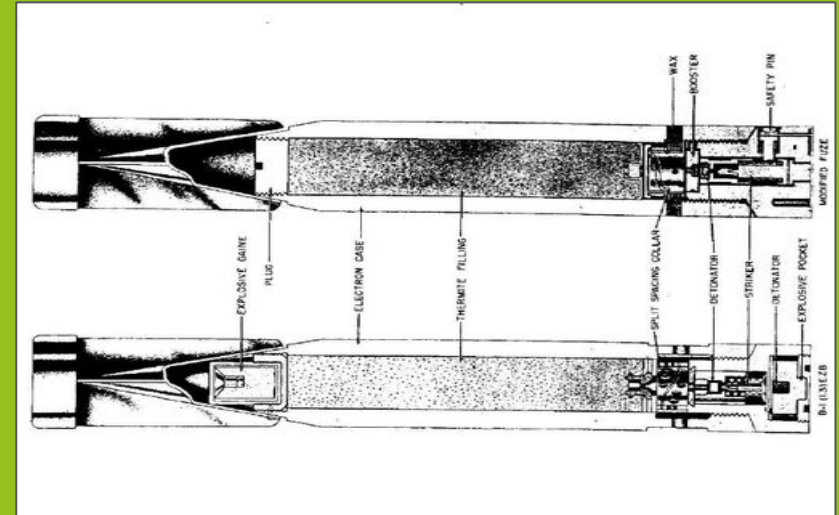
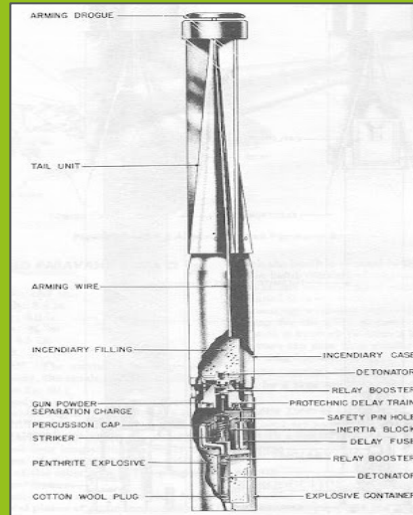
**Parachute Mine (Luftmine B)**

Bomb Weight	1000kg
Weight of Explosive Fill	Approximately 700kg amatol/minol
Bomb Length	2640mm
Type of Fuze	Impact or electrical time delay
Notes	Larger than Luftmine A (500kg). Descent retarded by parachute.

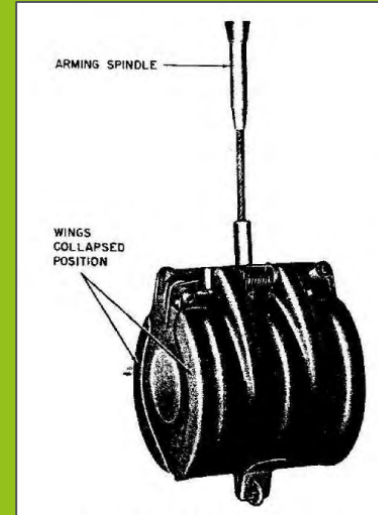
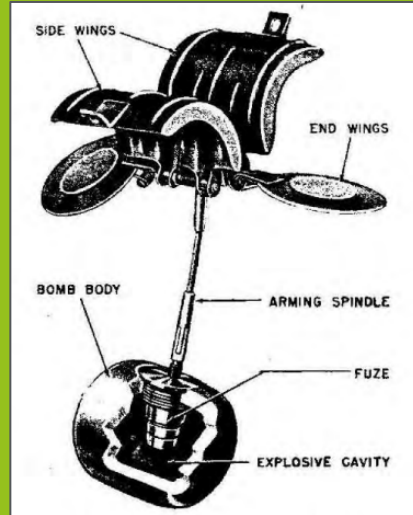


2kg Incendiary Bomb

Bomb Weight	2.2kg
Weight of Explosive Fill	100g HE bursting charge
Bomb Dimensions	311mm x 50mm
Type of Fuze	Electrical impact fuze
Notes	Dropped in container in batches of up to 372. Also had 1kg variant.

**SD2 AP Butterfly Bomb**

Bomb Weight	2kg
Weight of Explosive Fill	220g amatol
Bomb Diameter	762mm
Type of Fuze	Time delay, anti-handling device
Notes	Fragmentation device. Bomb armed by wings as they spun on descent.



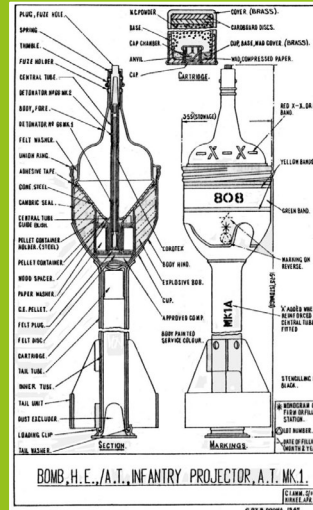
6 Pounder Anti-Tank Gun

Shell Weight	Approx. 3kg HE shell, 1.42kg APDS
Fill Weight & Fill	HE shell 590g of TNT
Fuze	No.243 percussion
Dimensions	57 x 441mm
Appearance	Later rounds possessed discarding sabot with ballistic cap

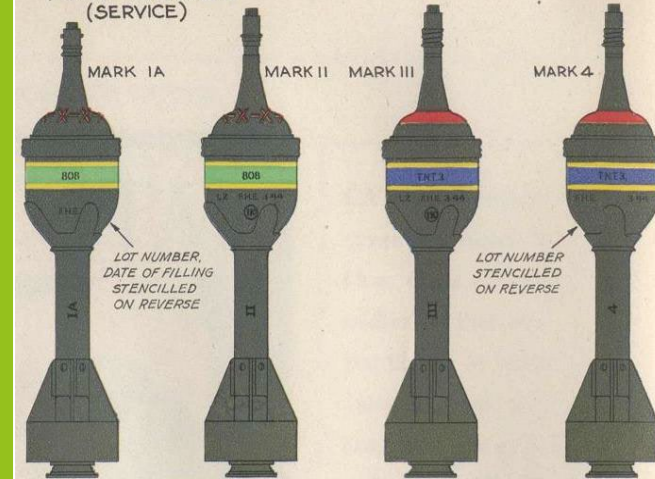


PIAT

Shell Weight	1.1kg
Fill Weight & Fill	570g Nobels 808 PE
Fuze	No.426 Point-Initiating
Dimensions	83 x 407 mm
Appearance	HEAT versions green/brown, practice version white and drill version black



PIAT BOMBS (SERVICE)



	2" Mortar	3" Mortar	4.2" Mortar
Shell Weight	1.02kg	4.5kg	9.9kg
Fill Weight & Fill	200g TNT	500g amatol	3.6kg TNT
Fuze	No.151 percussion	No.152 direct action	No.152 direct action
Diameter	51mm	81mm	107mm
Appearance	Parallel sides. Red and yellow band on black body often denoted HE.	Tear drop shape. Red or green rings may denote HE.	Tear drop shape. Red or green rings may denote HE.

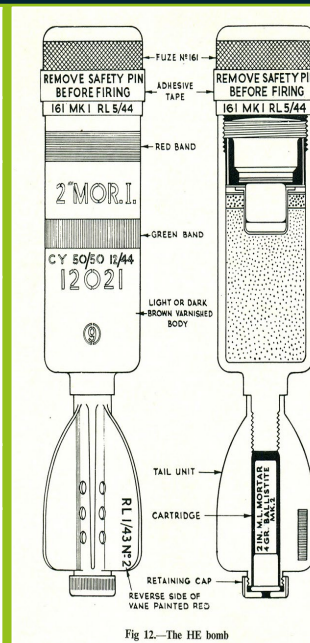
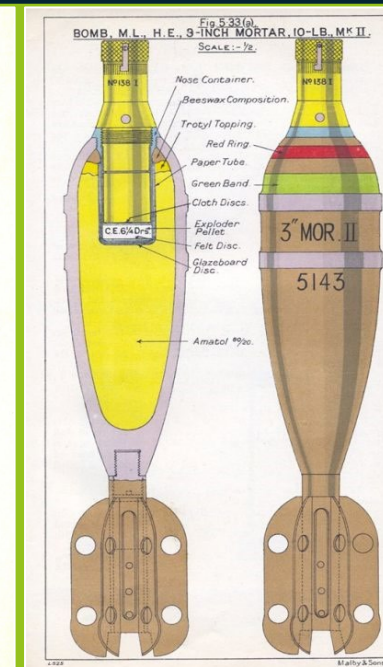
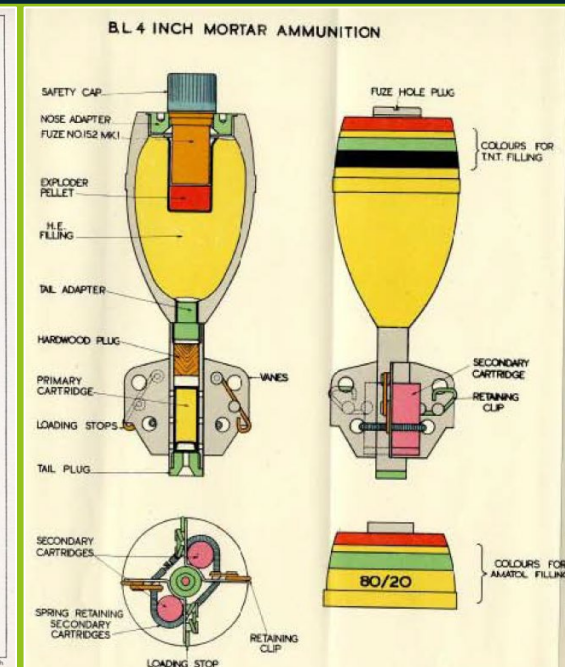


Fig 12.—The HE bomb

HE 2" mortar



HE 3" mortar



HE 4.2" mortar

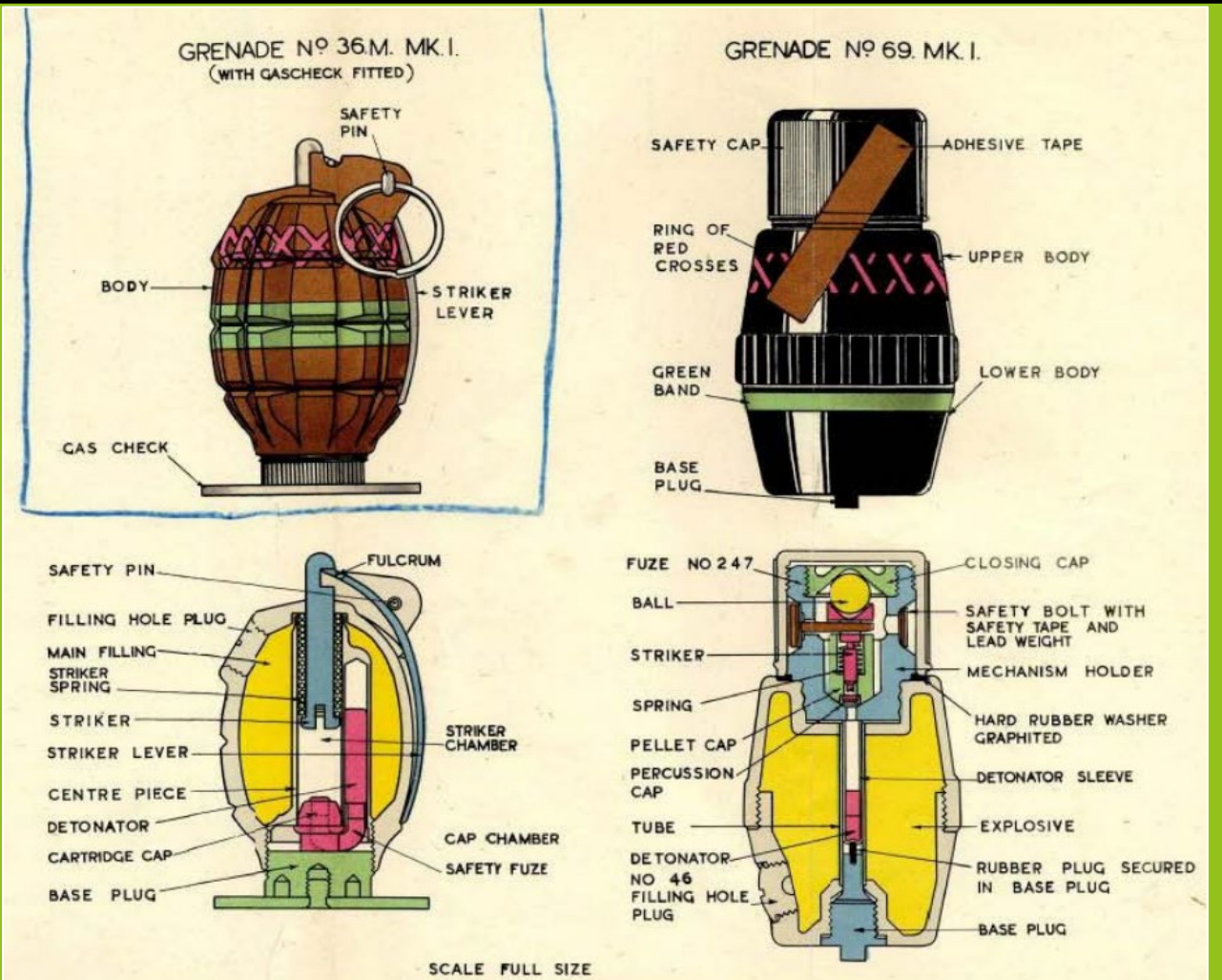
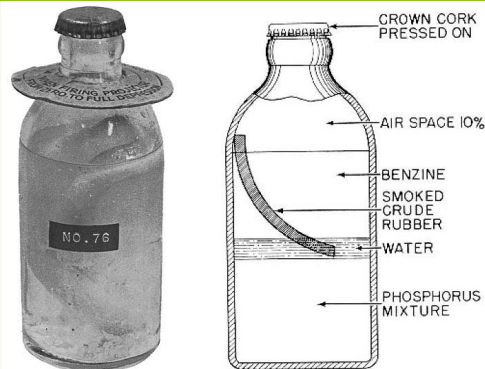


An overview of two 2" mortars, one with tail fin attached, alongside spare nose caps and tail fins. Red and green bands are present on the 2" mortar with the fins.



An unexploded 4.2" mortar found in a garden. Although corroded and dirty, the tail fins, teardrop body shape and No.152 fuze can be identified. Found less commonly than 2" mortars, 4.2" mortars possess a much higher Net Explosive Quantity.

	No.36 Grenade	No.69 Grenade	No.76 Grenade
Weight	765g	383g	530g
Fill Weight & Fill	71g ammonal	93g Lyddite	Benzene and WP
Fuze	Initially seven second fuse, reduced to four	Impact only "all-ways"	n/a
Dimensions	95 x 61mm	15 x 60mm	n/a
Appearance	'Pineapple' ridging, safety pin near top	Largely smooth, filling plug near bottom	Glass bottle with rubber tube in the middle



Left: No.76 grenade Above: No.36 and No.69 grenades

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Technical Note

Ref. ST20879-0001

CLIENT:	TATA Steel UK
PROJECT:	Project EAF
SUBJECT:	Coal Mining Risk Assessment
JOB NO.:	ST20879
DATE:	12 April 2024
PREPARED BY:	Adam Clarke, Engineering Technician
APPROVED BY:	Rebecca Marvell, Technical Director

Introduction

The British Geological Survey (BGS) data indicates that the land beneath the Port Talbot Steel Works site is located on Coal Measures geological formation. A part of the site proposed for redevelopment is described by the Coal Authority (statutory planning consultee for land containing coal) as being a Development High Risk Area. This designation highlights a potential for ground instability, resulting from legacy coal mining operations. A Coal Mining Risk Assessment (CMRA) is a requirement for any planning consultation with such a designation. The CMRA will provide a deeper understanding of the below ground hazards and to allow any proposed redevelopment of the site to be designed in such a way to mitigate against any risk that might be identified.

Coal Measures Summary

The site is underlain by Carboniferous age, Lower and Middle Coal Measures deposits, which range in age from approximately 300 to 360 million years old. These deposits consist primarily of mudstones, siltstones and sandstones, interspersed with bands of coal dipping in a north - east direction. The thickest and most valuable of these coal seams have been given names to help reference and map their mineral value. There are as many as 15 named coal seams which are indicated to subcrop (outcrop beneath soil deposits) within the planning boundary. These named seams are likely to be of mineable thickness, and at least four of these seams are known to have been mined beneath the site. Additional unnamed coal seams are thought to be present but are unlikely to be of sufficient thickness or mineral value to have been mined.

Technical Note

Ref. ST20879-0001

Several geological faults subdivide the stratigraphy at the site. The Kenfig-Tytlwyn Thrust Fault crosses through the site in an approximate east-west direction and offsets (throws) the geological sequence. The offset is such that several named coal seams are thought to subcrop within the site on both sides of the fault. BGS records also describe additional faulting (Giant's Grave fault and Morfa fault) at the site; but without detailed investigation, the conjectured position, and throw of these faults cannot be accurately determined.

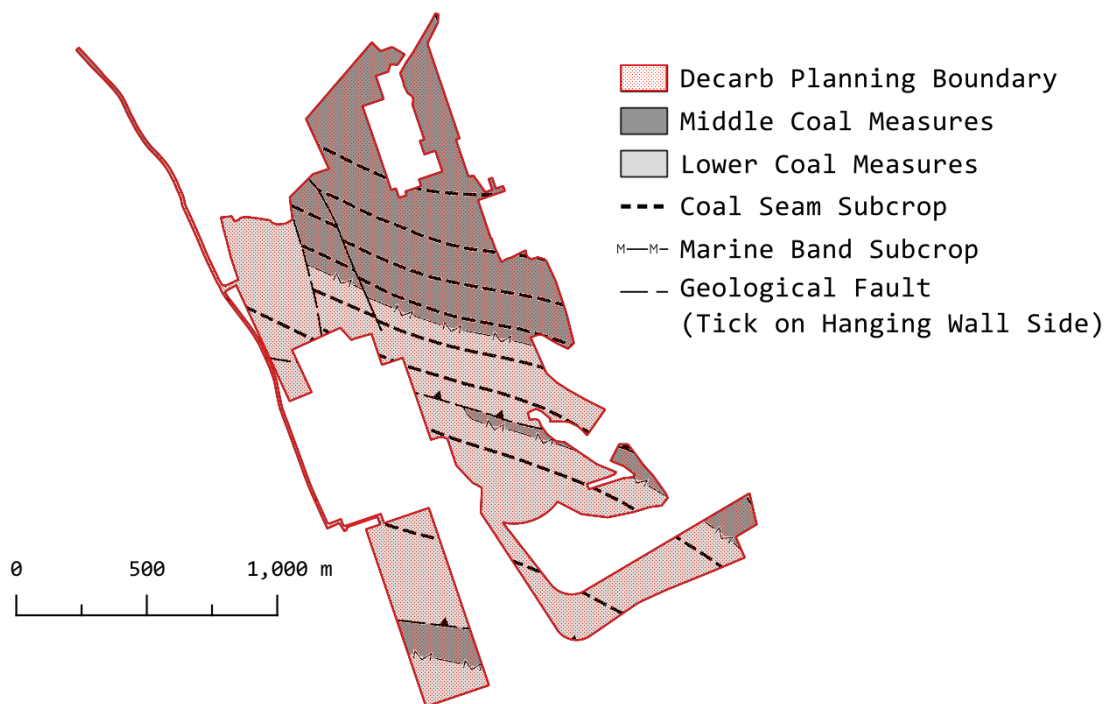


Figure 1 Geological structure within Planning Boundary. Contains British Geological Survey materials © UKRI 2024

Coal mining is known to have historically occurred at the site, most notably associated with the former Morfa Colliery, formerly located at the site. Wardell Armstrong has previously carried out a CMRA on part of the site, identifying only a low to moderate risk to any future development.

Three mine entries are recorded by the Coal Authority within the provided Planning Boundary. Wardell Armstrong has previously carried out physical searches for the three mine entries, physically proving the position of one shaft and providing search records for the other two.

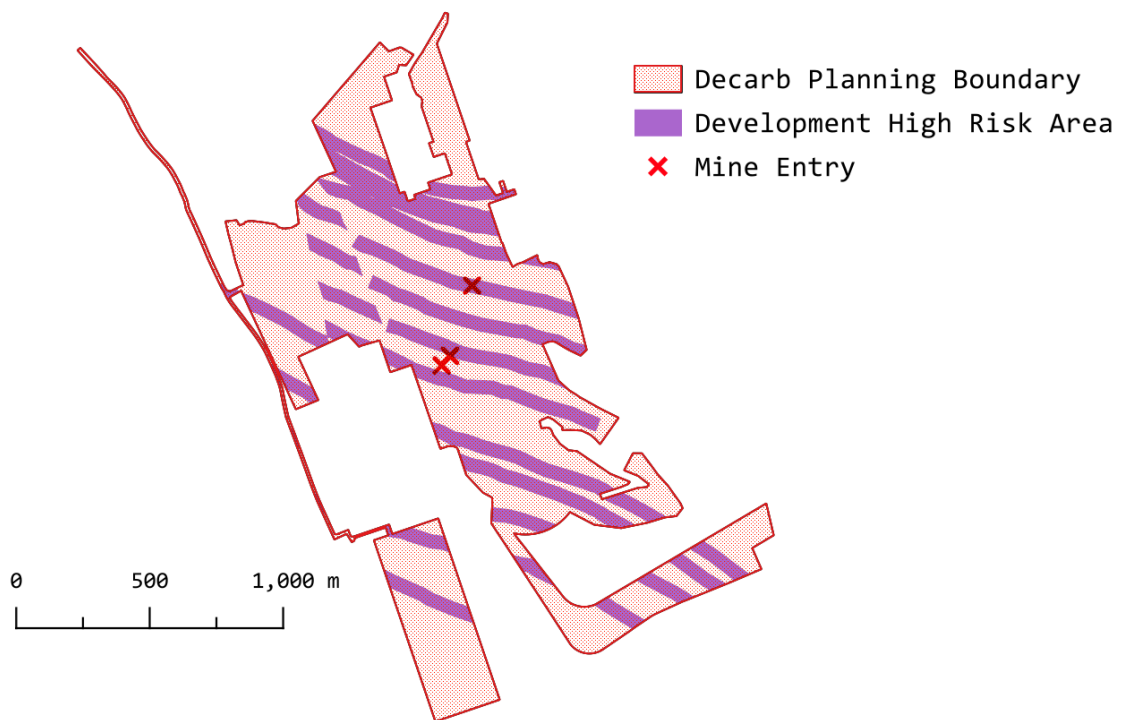


Figure 2 Development High Risk Areas to be revised following CMRA and ground investigation. Coal Authority information © The Coal Authority, 2023

Evidence of possible coal mine workings exists for up to eight of the coal seams beneath the site, and is summarised by each source of the information below:

1. The Coal Authority Consultant Mining Report records workings in the Five Foot, Gellideg, Lower Nine Foot Top Leaf and Garw Vein coal seams.
2. Available Morfa Colliery abandoned mine plans describe workings in the Four Feet (L 4 FT) and Nine Feet (U 9 FT and/or L 9 FT).
3. The North of England Institute of Mining and Mechanical Engineers - Forster Collection, records workings in the Nine Feet (U 9 FT and/or L 9 FT) and Garw Vein.
4. The Northern Mining Research Society website reports the “Morfa colliery worked the North Fawr, South Fawr, Six-Feet, Three-Feet, Nine-Feet, Five-Quarter and Cribbwr seams; and worked the Clay seam between 1854 and 1865”.

Several of the seam names can be corroborated between sources, with evidence for the Nine Feet and Gawr Vein seams reported as worked in three of the above searches. The most recent date of recorded mine workings at the site is 1913, in the Gawr Vein seam, from the

Coal Authority Consultant Mining Report. The likelihood of subsidence or significant ground collapse resulting from recorded mine workings of this age and at the depths is very low. The possibility for historical unrecorded workings at a shallower depth cannot be discounted. Further understanding of the location of any workings, and the depth, age and mineable thickness of each of the coal seam contributions to site risk will be determined by the Coal Mining Risk Assessment.

Coal Mining Risk Assessment

The CMRA as a planning document is divided into sections to reflect each hazard and typically presented in a tabular format with risks, potential consequences and mitigations measures discussed. The specific hazards considered are as follows:

- Past recorded underground mining;
- Past unrecorded underground mining;
- Present and future surface mining;
- Present and future underground mining;
- Mine entries;
- Mine gases; and,
- Geological features – Faults, fissures and breaklines.

Risk Assessment Conclusions

Based on available data, there are coal mining related hazards at the Project EAF development site. A series of coal seams from the Lower and Middle Coal Measures; geological faulting of the Coal Measures; recorded mine workings within several coal seams; and three mine entries are the identified hazards within the site. The current proposed layout for the site redevelopment is understood to have taken into consideration the position of the known mine entries and any sensitive plant and built structures have been kept away from these positions. While scale of the risk has yet to be fully determined, the outline understanding is that the risks to any proposed development are low to moderate. None of the risks identified thus far are considered unsurmountable by design or remediation techniques, in line with the recommendations of the Coal Authority, and industry standard guidance (CIRIA C758 – Abandoned Mine Workings Manual). Pending detailed review of the background information, the CMRA will likely recommend that a phase of ground investigation be carried out to help further quantify the risks.

Appendix E

PHOTOGRAPHIC RECORD

PHOTOGRAPHIC LOG

Photo no.

1

Date:

13/05/2024

Description:

HARSCO yard looking north



Photo No.

2

Date:

13/05/2024

Description:

HARSCO yard looking north east



Photo No. 3	Date: 13/04/2024	
Description: Exterior of BOS Plant		

Photo No. 4	Date: 14/04/2024	
Description: Slab Yard North		

Photo No. 5	Date: 13/04/2024	
Description: View looking south across lagoon		


Photo No. 6	Date: 13/04/2024	
Description: View looking north across lagoon		

Photo No. 7	Date: 13/04/2024	
Description: Area North of BOS Plant		

Photo No. 8	Date: 13/04/2024	
Description: Regeneration Yard looking west		


Photo No. 9	Date: 13/04/2024	
Description: Slab yard looking south west		

Photo No. 10	Date: 13/04/2024	
Description: Coal yard		

Appendix F

TECHNICAL BACKGROUND

F 1. Desk Study

Aquifer designation and Source protection zones (England and Wales)

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: 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.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the

likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: 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: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

RSK also adopt a 'very unlikely' probability to account for where there may be increased certainty over whether an event is probable in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the following table.

		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	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
	Very Unlikely	Low	Very Low	Negligible	Negligible

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.