



Neath Port Talbot Harbourside Ground Investigation Phase 1 Desk Study Report

**Neath Port Talbot County Borough
Council**



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Figure 1: Site Walkover Photo Plate Locations and Notes

DRAWINGS

Drawing No: C2014B/PS004 – Harbourside General Arrangement

Drawing No: V-C8468.03/01/00 – Groundwater Contamination Plumes

APPENDICES

Appendix A – Site Walkover Photo Plates

Appendix B – Historical Maps

Appendix C – Coal Authority Report

Appendix D – Envirocheck Report

Appendix E – UXO Desk Study and Risk Assessment

Executive Summary

1. The site is adjacent to the Old Dock Road and Harbour Way (A4241) on the southern boundary and Port Talbot Parkway Railway Station on the Northern boundary. The site comprises a roughly rectangular parcel of land which is approximately 2.8 ha in area and is bounded with earth bunds and is centred on approximate Ordnance Survey Grid Reference 276566E 189503N.
2. All buildings previously occupying the site associated with the Steel and Chemical Works have been demolished but areas of concrete slab, tarmac and hardstanding associated with these buildings still remain amongst vegetation.
3. The history of the site showed it predominantly comprised marshland and agricultural land from 1876, with a building considered to have been associated with a farm located within the northern boundary of the site. From 1917, the western portion of the site became largely developed with buildings and tanks and the railway to the south and north. From 1921, the site was shown to form Port Talbot Steel Works and from 1939 onwards, further development in the form of buildings and railways was noted. Reconfiguration of the buildings occurred until around 1964, when they were then mostly replaced by roadways and the eastern portion of the site was developed as a chemical works. By 1993, the chemical works was noted to be disused and the site shown to form part of the surrounding industrial estate. Little change in land use of the site or the general area was recorded until the buildings in the vicinity were demolished and generally levelled at an undetermined date between 1997 and 2007.
4. The geology of the area is solid strata of the Llynfi Beds comprising sandstones with interbedded coal seams and minor siltstone and mudstone layers of the Lower Pennant Measures of Carboniferous age underlie Estuarine Alluvium in all of the immediate area. Alluvial Fan deposits and Glacial Sand and Gravel are also indicated in close proximity to the site. A conjectural fault (Morfa Fault) runs in a general north-west to south-east orientation, which down throws strata towards the north-east. This fault is seen to pass down through the central reaches of the site.
5. From previous Ground Investigation on the site, the anticipated ground conditions comprise Made Ground ranging from 0.75m to over 4.60m underlain by a sequence of cohesive estuarine deposits or directly on coarse Alluvial Sand and Gravel.
6. Although the site lies just within the southern outcrop of the South Wales Coalfield, the site is not in an area where workable coal seams exist at or close to the surface and the geological plans for the region do not indicate any coal outcrops in the vicinity of the site. The area of investigation covering the site is not in the likely zone of influence from any past or present mine workings, and as such mining is not considered as a risk for future site investigation, or for foundation design and selection.
7. No Radon protection measures are deemed necessary for the site area.
8. Flood maps indicate the majority of the site has a potential for groundwater flooding to occur at the surface. In the North West corner of the site, flooding to only property situated below ground level is indicated as a potential. The site is recorded as an area at risk from flooding from Rivers or Sea without defences (Zone 3). The northern area of the site also shows high risk of flooding (30yr return period) with the central area showing as medium risk (100 yr return period) and the southern area low risk (1000 yr return).

9. A number of potential sources of contamination have been highlighted for the site including contamination associated with steel works, contamination associated with chemical works and contamination associated with railway activities. Previous environmental laboratory testing during ground investigation on the site indicated elevated levels of TPH and PAH may exist within the soils and TPH and heavy metals within the groundwater.
10. The preliminary geotechnical consideration discussed in this report suggests foundation types potentially suitable for new structures proposed for the site may include reinforced strip foundations, raft or modified raft, ground improvement and/or piles.
11. Our recommendation is to carry out an intrusive Phase 2 Geotechnical and Geo-environmental Investigation to allow an assessment of soil, groundwater and ground gas contamination and to provide recommendations for foundation engineering including confirmation of the depth of any Made Ground and bedrock across the site. This will confirm the preliminary Conceptual Site Model and allow a Detailed Quantitative Risk Assessment (DQRA) to be completed if required.
12. As the UXO risk level on site has been deemed as medium (ALARP) according to the EOD Contracts UXO Desk Study and Risk Assessment, UXO risk mitigation is recommended during any further site investigations including UXO safety awareness training, UXO safety testing prior to intrusive works and UXO safety monitoring of all “at risk” excavations.
13. Should the RCSM identify any viable pollutant linkages, a DQRA should be undertaken to model in a more site specific way the risks to the identified receptors from (either/both) soils or groundwater. If after the DQRA, unacceptable levels of risk still exist, then a Remediation Strategy should be completed which would facilitate the redevelopment of the site.
14. The Detailed Remediation Strategy should be completed to outline all contaminants and their exposure pathways and the remedial technology and methodologies required in order to remove the source or break the pathways. Remedial targets will be adopted from the results of the DQRA, with watching briefs and validation testing undertaken on the remediation works where required.

1 Introduction

Opus International Consultants (UK) Ltd (hereafter referred to as Opus) have been commissioned by Neath Port Talbot County Borough Council (hereafter referred to as NPTCBC) to provide an updated non-intrusive Phase 1 Geo-Environmental Desk Study Report which outlines the base site conditions of a proposed development area of Port Talbot Harbourside, centred on National Grid Reference SS 76574 89504.

The intension of this report is to provide factual and interpretive information relating to the site history of the site, the topography, surrounding features and built environment, geology, hydrogeology, flooding history and comment on future development levels for buildings, roads and external areas.

The proposed development comprises a number of commercial units with associated car parking and access roadways as shown on the enclosed drawing (reference number C2014B/PS004). This report refers to the proposed development land outlined on Drawing C2014B/PS004 . This area is hereafter referred to as “the Site”.

The Site has been subject to Site Investigations (SI's) in the past. Copies of previous investigation reports have been reviewed to aid in the completion of this report and are available on request.

This report relates only to current redevelopment proposals and thus should not be used for any other purpose without reference to Opus.

The report is based upon desk study research and an inspection of the site on 19th June 2017. It includes an assessment of the likely ground conditions and hydrology of the site and an investigation into the flooding history at the site undertaken with reference to the Local Authority, Coal Authority, British Geological Survey and Environment Agency information.

Research on the environmental sensitivity of any contamination receptors which could be perceived to be at risk from migration of contaminants from the site has also been considered at a high level.

This report and related documents have been prepared for the sole use of the specified client in response to an agreed brief, for a stated purpose and at a particular time thus its application must be made accordingly. No duty of care extends to any other party which may make use of the information contained therein.

The report has been produced on behalf of the Client, NPTCBC. This report should not be relied upon or transferred to any other parties without the express written authorisation of Opus. If any unauthorised Third Party comes into possession of this report, they rely on it at their own risk and the authors accept no liability towards them.

The findings and opinions conveyed via this report are based on information obtained from a variety of sources as detailed within this report, which Opus believe are reliable. Nevertheless, Opus cannot and does not guarantee the authenticity or reliability of the information it has relied upon. The findings of this study should be regarded as preliminary to be confirmed or otherwise by further surveys including intrusive site investigation works.

The plans enclosed in this report should not be used for scaling purposes.

2 The Site

2.1 Location and Access

The site is adjacent to the Old Dock Road and Harbour Way (A4241) on the southern boundary and Port Talbot Parkway Railway Station on the Northern boundary. The site comprises a roughly rectangular parcel of land which is approximately 2.8 ha in area and is bounded with earth bunds and is centred on approximate Ordnance Survey Grid Reference 276566E 189503N.

A site location plan and boundary is provided within the Drawings section of this report presented as Drawing No. C2014B/PS004.

The main access to the site is off Oakwood Drive.

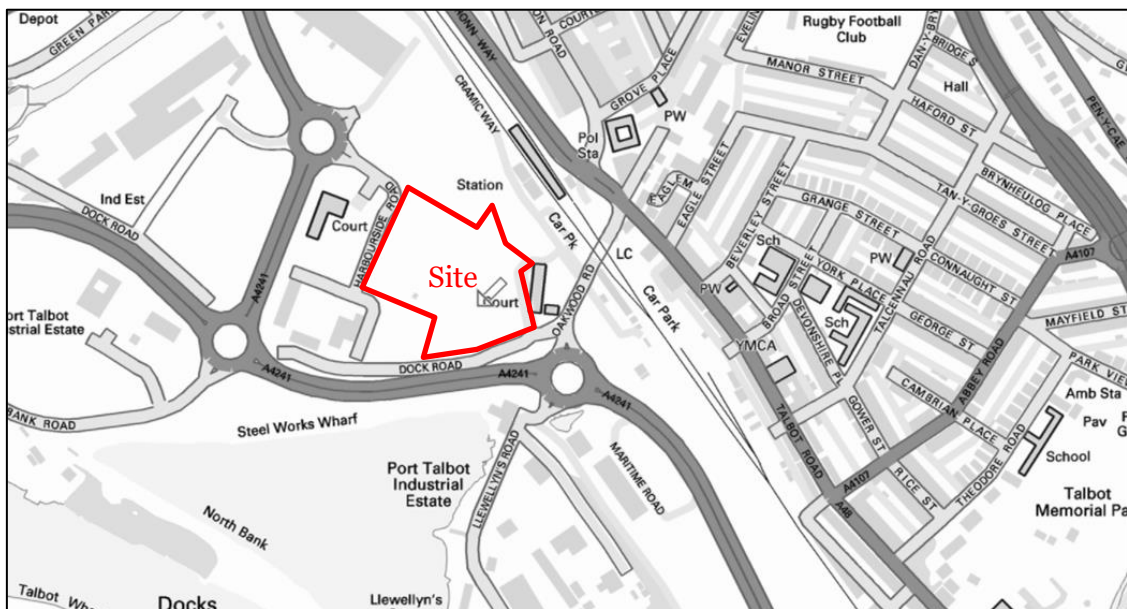


Figure 1: Approximate Site Location Plan

2.2 Site Description

A site reconnaissance was carried out by a Geotechnical Engineer from Opus on 19th June 2017.

The reader is referred to Figure 1 and Appendix A which highlight the main features of the site. A series of site walkover photographs showing views of various parts of the development site are presented as Plates 1 to 31 in Appendix A.

The site is located on a section of land which, in general, is relatively flat with the exception of a raised area (likely to be manmade), approximately 2.0m in height in the west of the site. The site boundary is indicated by large boulders and fencing along its southern and eastern boundaries.

All buildings previously occupying the site associated with the Steel and Chemical Works have been demolished but areas of concrete slab, tarmac and hardstanding associated with these buildings still remain (Refer Figure 1) amongst vegetation.

The northern boundary of the site comprises a public walkway beyond which is the NPTCBC station Car park and Port Talbot Parkway Railway Station. There is no fencing or barriers on this boundary to prevent public access.

The east of the site, is currently being used as a parking area for users of the Magistrates Court Buildings immediately east of the site.

The southern area of the site was mainly covered by overgrown vegetation and areas of tarmac. During the site walkover, an open and heavily rusted disused pipe (approximately 500mm diameter) and chamber was found on site as shown in Appendix A.

The western area of the site has been fenced off recently with a gate to provide access. At the time of the site visit, NPTCBC were not aware of this fenced area and so access was not made to this area of the site. However, the most western section of this area was raised by approximately 1.0m when compared with the rest of the site. The western boundary of the site comprised an earth bund of approximately 2m high on the western side and heavily vegetated in the North West boundary of the site.

2.3 Proposed Development

It is understood that the proposals for the site development comprises a number of commercial units with associated car parking and access roadways as shown on the enclosed drawing (reference number C2014B/PS004). This report refers to the proposed development land outlined on Drawing C2014B/PS004 .

3 Historical Search

3.1 Landmark Historical Map Database

The earliest record of land use referred to during our researches dated 1876 records to be largely under agricultural land use.

The history of the site is recorded over selected periods by the maps inspected, copies of which are presented in Appendix B. A summary of the site history is tabulated below.

Date	Features on the Site	Features Around the Site
1876 1:2,500	- The site comprises a fielded area. - In the north west of the site there are a few private dwellings of Lower Court.	- Port Talbot Railway Station is located approximately 100m north east of the site with the Great Western Railway running northwest to south east. Tributary Railway lines marked 25m east and 50m south of the site. - Marsh area marked 100m south west of the site.
1884-1885 1:10,560	- Generally as above. - To the south of the site, areas of Port Talbot Dock construction encroach on the site.	- Port Talbot Railway Station is located approximately 100m north east of the site with the Railway running north west to south east. - A number of small dwellings associated with Upper Court are immediately adjacent to the north east corner of the site. - Port Talbot Dock area looks to be under construction immediately south of the site adjacent to the southern boundary. - Mansel Tin Plate Works is noted 350m north west of the site and Margam Tin Plate Works is 700m north of the site. - A number of smaller industrial railway lines neighbour the eastern and southern site boundary. - Aberavan settlement is located 600m north west of the site. - The River Afan is located 370m north west of the site running north east to south west..

Date	Features on the Site	Features Around the Site
		Morfa Newydd Volunteer Rifle Ranges are noted 1000m south west of the site.
1899 1:1,2500	Osiers Willow marked as occupying the southern half of the site.	- Expansion to the Railway network to the north and south of the site. - Saw Mill noted 200m south of the site. - Tiabach Tin Plate Works are noted 200m south east of the site. - Area of osiers marked 100m south east of the site. - Margam and Mansel Tin Plate works have merged 250m North West of the site.
1900 1:10,560	As above	- Aberavon has expanded to the north of the Great Western Railway 250m north of the site. - Tiabach Tin Plate Works are noted 200m south east of the site with Ffrwdwll Tin Plate Works 600m south east of the site. - Llewelyn's Quay is noted 400m south of the site in Port Talbot Dock. - Port Talbot Railway is still in operation to the south of the site with a goods wharf and two coal tips marked 450m south west of the site.
1917 1:1,2500	- One building (approx. 20m x 150m in plan) associated with the Port Talbot Steel Works occupies the North West portion of the site with a smaller building in the northern central portion of the site. - Areas previously shown as inlets of land and osiers in the southern section of the site now has a bund of material and fewer boundaries but still occupied by osiers.	- Extensive expansion to Railway network surrounding the site especially to the south and west. - A Chapel is located adjacent to the eastern boundary of the site. - Port Talbot Steel Works buildings extends to the west and North West of the site for 300m. - The area of Dock to the south of the site is named "The Float".

Date	Features on the Site	Features Around the Site
1921 1:10,560	Port Talbot Steel Works occupies the North West portion of the site.	- Aberavon has expanded to the north and west of the site. - The Great Western Railway has been developed with numerous additional railway lines added to the north east, east, south and southwest of the site. - Llewelyn's Quay 400m south of the site has been expanded to provide landing stages.
1939 1:1,2500	- A circular tank occupies the east of the site approximately 50m in diameter. - A number of small rail tracks are located on the site. - Two crane locations are marked in the centre of the site. - The southern portion of the site is now occupied by a steel works building and railway tracks. - Two tanks are marked with a cross in the western portion of the site.	- Port Talbot Steel Works buildings extend to the west and North West of the site for 300m. - The Dock to the south of the site is noted as a Goods Wharf.
1938-1952 1:10,560	An unnamed circular building/tank occupies the east of the site approximately 50m in diameter.	- A timber yard is noted 500m west of the site. - A number of the railway lines associated with the Great Western Railway to the north have been dismantled.
1952 1:1,2500	- The circular tank that occupies the east of the site approximately 50m in diameter is noted as a Gasholder. - A smaller tank immediately south of the gasholder is noted. - The location of the two tanks previously marked with a cross in the western portion of the site is now named as a Hydraulic Pump. - A pipe line cuts across the southern corner of the site trending North West to south east.	- Six Chimney stacks are marked 60m from the site and running roughly parallel to the northern boundary of the site. - Three ponds are located 50-100m from the south east boundary of the site. - Tiabach Tin Plate Works previously noted 200m south east of the site is now marked as an engine shed with some buildings having been removed. - The Dock to the south of the site is noted as Steel Works Wharf.

Date	Features on the Site	Features Around the Site
1953 1:1,2500	As above	As Above
1958 - 1962 1:1,2500	- Two unnamed circular buildings/tanks, approximately 20m in diameter, occupy the central area of the site. - A third circular building/tank, approximately 20m in diameter, occupies the south west area of the site with an additional tank of this size lying on and extending outside the south west boundary. - The site is now largely occupied by buildings associated with the steel works. - No railway lines now occupy the site.	- Three circular tanks (approximately 10m in diameter) are shown 20m from the south west boundary of the site. - One of the three ponds 50m south east of the site is no longer marked.
1964 – 1968 1: 1,2500	A further two tanks, approximately 20m in diameter, now occupy the central portion of the site creating a row of four tanks marked as the “chemical works”.	Some of the works buildings to the north and south of the site are no longer marked and the ones to the north have been named as an Education and Training Centre.
1964-1965 1:10,000	Buildings of the “Works” occupy most of the site with three tanks located centrally.	As Above
1969 1:1,250	- The location of the Gasholder in the east of the site is now occupied by three small tanks approximately 5m in diameter. Immediately east of this the building is now marked as an Education and Training Centre. - The site is now predominantly occupied by the Chemical Works. - Three small tanks (<5m diameter) are located on the south west boundary of the site. One of the tanks lies within the site boundary, one is on the site boundary and the third is just outside the site boundary.	- Generally as above - One of the buildings associated with the former steel works 150m west of the site is now noted as and Engineering Works.

Date	Features on the Site	Features Around the Site
1967 – 1974 1: 1,2500	The chemical works in the south of the site is now noted as disused.	- Coal Yards are noted 100m south east of the site. - Four works depots for transport, mast and wagons are noted between 250m and 400m south east of the site. - The railway lines to the south and east of the site have been dismantled.
1980-1982 1:10,000	- The works buildings on the site are noted to be disused. - The unnamed circular building/tank which previously occupied the east of the site approximately 50m in diameter has been removed. - The three tanks which were previously located at the centre of the site are no longer noted.	As Above
1978 – 1991 1: 1,2500	Five “Works” buildings remain on the site marked as disused Chemical Works.	- The “Works” Building to the north of the site have been converted to a Training Centre. - A new roundabout has been constructed immediately east of the site. - A roadway named the Dock Road is adjacent to the southern boundary of the site.
1988 – 1991 1: 1,2500	As Above	As Above
1993, 1995 & 1996 1: 1,2500	- The site is now marked as an Industrial Estate. - A pipeline extends 20m inside the site boundary in the south east corner.	The pipeline which extends 20m inside the site boundary in the south east corner of the site runs north west to south east from the site to the industrial area 150m south east of the site.
1993-1996 1:10,000	As Above	- The Magistrates Court is located adjacent to the eastern boundary of the site. - A pipeline is noted 400m south east of the site.

Date	Features on the Site	Features Around the Site
		Port Talbot Docks to the South are now marked as disused.
1999 1:10,000	As Above	- Two ponds are marked 100m south east of the site - Dock road now runs adjacent to the southern boundary of the site - Pipelines are noted running north west to south east 150m south east of the site.
2001 Aerial Photograph	Site occupied by three buildings in the eastern half of the site and a large number of shipping containers	- Area immediately to the west of the site shown to be derelict industrial land with some vegetation growth. - Pipelines noted running north west to south east 150m south east of the site can be seen above ground.
2006 1:10,000	- Only two small buildings occupy the site. - The pipeline previously extending 20m inside the site boundary in the south east corner is no longer marked.	As previously noted.
2017 1:10,000	No buildings remain on the site.	The pipeline previously extending from the south east corner of the site is no longer marked.

4 Geology and Mining

4.1 Geology

Information on the geology underlying the site was obtained from the following sources:

- i. British Geological Survey map, Sheet 247, Scale 1:63,360;
- ii. British Geological Survey map, Sheet SS78 NE, Scale 1:10,560;
- iii. British Geological Survey Website - www.bgs.ac.uk;
- iv. NERC & Institute of Geological Sciences (1970) *British Regional Geology – South Wales*. 3rd Edition, HMSO; and,
- v. British Geological Survey, Geology of the Swansea district – a brief explanation of the geological map Sheet 247 Swansea. W J Barclay. 2011.

The geology of the area in its regional context is shown on British Geological Survey 1:63,360 scale plan Sheet 247 and in more detail on 1:10,560 scale sheet SS 78 NE. The site lies just within the southern outcrop of the South Wales Coalfield.

Solid strata of the Llynfi Beds comprising sandstones with interbedded coal seams and minor siltstone and mudstone layers of the Lower Pennant Measures of Carboniferous age underlie Estuarine Alluvium in all of the immediate area. Alluvial Fan deposits and Glacial Sand and Gravel are also indicated in close proximity to the site.

A conjectural fault (Morfa Fault) runs in a general north-west to south-east orientation, which down throws strata towards the north-east. This fault is seen to pass down through the central reaches of the site.

4.2 Previous Investigations

Reports from the following ground investigations known to have been carried on or adjacent to the site and records have been examined during this desk study.

Originator	Ref.	Description	Date	Details
Structural Soils Ltd	61667	Factual Report on Ground Investigations at Land Reclamation Sites, Port Talbot	May. 2007	Instructed by Opus, BHC series boreholes and TPC series trial pits
Opus International Consultants (UK) Ltd	CC7179.16/GI-1.1	Land Reclamation Sites, Port Talbot – Ground Investigation Report	Dec. 2007	For Welsh Government. Study area referred to as Site C.
Opus International Consultants (UK) Ltd	CC7179.38-GIR-1.0	Port Talbot Central, Port Talbot, South Wales - Site Investigation for HMCS	Mar. 2009	Area to north-west of site. Based on the Structural Soils logs from May 2007.

Originator	Ref.	Description	Date	Details
Terra Firma (Wales) Ltd	11614	Geotechnical & Geoenvironmental Report - - Proposed Commercial Development - Tata Harbour Side, Port Talbot	Jan. 2012	For Deryn Properties Development Ltd. Area to the south-west of site.

References to boreholes in the notes on stratigraphy and elsewhere in this desk study refer to the Structural Soils investigation in 2007 unless otherwise stated.

4.3 Stratigraphy

The general succession of thickness of strata found during previous investigation of the site are given in the following table:

Description	Depth to top of stratum (m)	Depth to bottom of stratum (m)	Thickness (m)	Comments
Revised MADE GROUND (sand, gravel and clay)	0.0	0.75 – 3.8	0.75 – 3.8	Including some local contamination with hydrocarbons.
Soft to firm sandy alluvial CLAY	0.75 – 3.8	0.9-6.0	0.15 – 2.8	Absent or replaced by clayey/ silty sand in some places
Medium dense sandy GRAVEL	0.9 – 6.0	Proved to 20.4 m bgl.	> 15.7	

The uppermost strata encountered during previous investigation works comprised Made Ground which was seen as being highly variable in character. The Made Ground was generally coarse and granular, comprising a mixture of ash, slag, clinker, brick, concrete and stone with variable inclusions of deleterious materials including wood, metal, glass, plastics and coal fragments. The vast majority of the positions excavated on this site encountered variable inclusions of coal gravel or dust within this upper horizon of Made Ground.

It can again be seen that thicknesses of the Made Ground are highly variable ranging from 0.75m in TPC39 to over 4.60m in TPC93, with natural strata not encountered in the latter trial pit. Exploratory works have shown that the Made Ground either overlies a sequence of cohesive estuarine deposits or lay directly on the coarse Alluvial Sand and Gravel.

4.4 Mining

Information on any mining activities underlying the site was obtained from the following sources:

- The Coal Authority Non- Residential Coal Mining Consultants Report and British Geological Survey Ground Stability Report, dated 27th June 2007.
- The Coal Authority, Non-Residential Coal Mining Consultants Report, 12 June 2017.

The site is not in an area where workable coal seams exist at or close to the surface and the geological plans for the region do not indicate any coal outcrops in the vicinity of the site.

The area of investigation covering the site is not in the likely zone of influence from any past or present mine workings (Appendix C), and as such mining is not considered as a risk for future site investigation, or for foundation design and selection.

4.5 Radon

According to the Public Health England UK Radon Affected Area maps, the site lies within an area of less than 1% radon potential zone. The Envirocheck Report received from the Landmark Information Group confirms the site is not within a radon affected area.

Therefore, no Radon protection measures are necessary for the site area.

5 Hydrogeology and Water Resources

5.1 Groundwater Vulnerability

According to the Landmark Envirocheck Report, the site is not indicated to be located within a Groundwater Source Protection Zone.

The groundwater vulnerability map provided by Envirocheck for the site indicates it is underlain by a minor aquifer of high permeability.

The Landmark Envirocheck Report and map also indicates the site bedrock aquifer designation is a Secondary A aquifer associated with the Hughes Member of the Upper Pennant Sandstone (or Upper Coal Measures). A Secondary A aquifer comprises permeable layers capable of supporting water supplies at a local rather than strategic scale. In some cases the aquifer forms an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

The superficial aquifer designation map provided by Envirocheck Report is shown to be Secondary Undifferentiated.

The BGS Flood Ground Flooding Situation Map indicates for the majority of the site there is a potential for groundwater flooding to occur at the surface. In the North West corner of the site, flooding to only property situated below ground level is indicated as a potential.

5.2 Surface Water Vulnerability

The nearest surface water features to the site are the Port Talbot Docks which lie approximately 60m to the south of the site and the River Afan some 370m to the north-west of the site. A small pond lies some 80m south-east of the site.

The River Afan flows in a general north-east to south-west direction and is classified by the Environment Agency as River Quality Objective Grade 1 with a Chemistry General Quality Assessment Grade A, i.e. of very good quality that is suitable for salmonid fishery.

The Port Talbot Dock is an entirely man-made structure that was constructed in the 19th Century by enclosing an area of former river channel and estuarine mudflats. The exact construction material used is uncertain, however due to the nature of the industry in the area at the time of construction it was likely that metal slags were used. Water ingress is via the aforementioned Dock Feeder, whilst egress is controlled by a lock to the sea beyond.

The site is recorded as an area at risk from Flooding from Rivers or Sea without defences (Zone 3). The northern area of the site also shows high risk of flooding (30yr return period) with the central area showing as medium risk (100 yr return period) and the southern area low risk (1000 yr return).

6 Environmental Database Review

6.1 Envirocheck Report

Specific details relating to the environmental setting of the surrounding site area were obtained from the Landmark Envirocheck (included as Appendix D), obtained by Opus and used to assist in this desk study.

The Envirocheck Report comprises a database of information obtained from a variety of sources including the Environment Agency, BGS and the Coal Authority. The salient issues which relate to the site are summarised as follows, unless covered in previous sections of this report.

There is one recorded area of potentially infilled land (Water) within the site boundary at National Grid Reference 276596 189509.

There are three Registered Waste Transfer Sites within 500m of the study site and one Registered Waste Treatment or Disposal site as detailed below.

Table 6.1 Registered Waste Transfer Sites and Treatment or Disposal Sites within 500m of the site

License Holder	National Grid Reference	Distance & Direction	Details	License Status
Registered Waste Transfer Sites				
Jem Recycling Ltd	276200 189700	325m north west of the site	Site Address: Byass Works, Docks Road, PORT TALBOT, West Glamorgan, SA13 1ER	Licence lapsed/ cancelled/ defunct /not applicable/ surrendered/ Cancelled
C P Harvey (Recycling) Ltd	276230 189800	338m North West of the site	Site Address: Old Byass Works, Cramic Way, PORT TALBOT, West Glamorgan, SA13 1RS	Site Closed
Port Talbot Mini Skips	276100 189700	417m west of the site	Site Address: Byass Works, Docks Road, PORT TALBOT, West Glamorgan, SA13 1ER	Licence lapsed/ cancelled/ defunct /not applicable/ surrendered/ Cancelled
Registered Waste Treatment or Disposal site				
Jem Recycling Ltd	276300 189700	232m north west of the site	Site Address: Byass Works, Docks Road, PORT TALBOT, West Glamorgan, SA13 1ER	Licence lapsed/ cancelled/ defunct /not applicable/ surrendered/ Cancelled

This information has been confirmed via a review of the Envirocheck Landfill maps.

There three recorded licenced waste management facilities located within 500m of the study site as detailed below.

Table 6.2 Recorded licenced waste management facilities

Type	National Grid Reference	Distance & Direction	Details	License Status
Household, Commercial and Industrial Transfer Stations	276100, 189700	417m west of the site	Site Address: Jem Recycling Ltd, Old Byass Works, Docks Road, Port Talbot, NPT, SA13 1ER	Expired April 2000
HCI Waste TS and treatment and asbestos	276680, 189000	431m south of the site	Site Address: Construction Recyclate Management Ltd, Llewellyn's Road, Llewellyn's Quay, Port Talbot, SA13 1RA	Issued
Special Waste Transfer Stations	276746, 188983	464m south of the site	Site Address: Avalon Insulation Services, Kenworth Building, Llewellyn's Quay, Port Talbot, SA13 1RF	Issued

There are six recorded discharge consents located within 250m of the site. The nearest discharge consent is situated approximately 28m south west of the site at Port Talbot Docks and was classified as “undefined or other”. Two of the other discharge consents are located 123m south of the site and three are located 223m south of the site, all located in Port Talbot Docks.

There are seven minor pollution incidents to controlled waters recorded within 250m of the site as detailed below.

Table 6.3 Pollution incidents to controlled waters

Property Type/Address	National Grid Reference	Distance & Direction	Description	Date	Incident Severity
Not Given	276700 189500	20m east of the site	Crude Sewage	Oct 1997	Category 3 - Minor Incident
Industrial Premises, Llewelyn Quay, Port Talbot	276700 189400	61m south east of the site	Sewage – septic tank effluent	May 1991	Category 3 - Minor Incident
Not Given	276750 189550	68m east of the site	Creosote	July 1997	Category 3 - Minor Incident
Warehouses	276600 189300	123m south of the site	Mud/Clay/Soil	Sept 1994	Category 2 - Significant Incident
Llewelyns Quay, 400M Slick Of Oil, Along Bank Of Dock	276605 189300	124m south of the site	Oils - Diesel (Including Agricultural)	March 1998	Category 3 - Minor Incident
Llewellyns Dock	276600 189295	128m south of the site	Oils - Diesel (Including Agricultural)	March 1998	Category 3 - Minor Incident

Property Type/Address	National Grid Reference	Distance & Direction	Description	Date	Incident Severity
Llewellyns Quay	276605 189295	129m south of the site	Oils - Diesel (Including Agricultural)	March 1998	Category 3 - Minor Incident

There is one fuel station entry within 500m of the site recorded as Port Talbot Service Station 139m east of the site and status is “open”.

There are no environmentally sensitive sites in the form of Sites of Special Scientific Interest (SSSI) within 500m of the site.

There are no records of any Local or National Nature Reserves (LNR or NNR), Special Areas of Conservation (SAC), Special Protected Areas (SPA) or Areas of Outstanding Natural Beauty (AONB) within 500m of the site.

6.2 UXO Reporting

Opus commissioned EOD Contracts Ltd to undertake an Explosive Ordnance Desk Top Study for the site, given the known heavy bombing of the wider area during World War 2. The report is included in full in Appendix E and the salient findings are reproduced below:

- Port Talbot was not subjected to bombardment during the period of WW1;
- The town of Port Talbot was the subject of direct attack during the Blitz;
- The closest HAA gun emplacements to the site were 3.38km NW of the site;
- The Luftwaffe would have considered the site itself a strategic target during the blitz; it was also surrounded by several key infrastructures that also would have been key targets (such as the railway lines/Docks) throughout this time;
- There was no evidence that the site had had any Military usage in the past. However the site was in full use throughout the WW2 and due to its very nature may have been used to produce items that could be utilised by the military. Also due to the strategic importance of the Steel works and its surrounding environment there would have been a strong military presence in and around the town;
- The site has been the subject of construction both Pre and Post WW2 however the exact scope of works is not known at this time. Therefore it is possible that items of UXO have remained undetected up until this time;
- The risk level on site has been deemed as MEDIUM (ALARP), EOD Contracts deem that UXO Risk Mitigation is recommended;
- UXO safety awareness training should be given at all levels of site personnel and selected individuals on the project staff with relevant responsibilities. It should be reinforced with specific safety briefings and toolbox talks to individuals involved in conducting intrusive earthworks;

- UXO recognition and safety procedures to be followed on discovery of a suspicious object or the alarm being sounded;
- Prior to any intrusive piling or drilling commencing, UXO safety testing and appropriate clearance certification into the ground to sufficient depth to provide clearance from UXO. This can be done using a progressive drilling process or (where large numbers of piles are to be placed and ground permitting) using a vehicle borne hydraulic system to push a magnetometer into the ground to test for the presence of UXO prior to piling; and,
- UXO safety monitoring of all “at risk” excavations, including geotechnical or archaeological trial pits to be conducted during the project. This should be provided by a UK Home Office Authorised EOD/UXO Contractor using qualified EOD Engineer with specialist locators and detectors to scan the ground ahead of the excavation wherever possible.

7 Preliminary Conceptual Site Model

7.1 Potential Sources of Contamination

The site was once occupied by steel works, and later the eastern margins were occupied by a chemical works, both of which were associated with above and (assumed) underground storage tanks.

Based on the review of desk study information there are some potential for contamination sources to be present on the site as detailed below:

- Contamination associated with steel works:
 - Petroleum Range Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), Inorganic Heavy Metals, Volatile Organic Compounds (VOCs), Semi Volatile Organic Compounds (SVOCs), Acids, Asbestos and Polychlorinated Biphenyl's (PCBs);
- Contamination associated with chemical works:
 - Petroleum Range Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), Inorganic Heavy Metals, Volatile Organic Compounds (VOCs), Semi Volatile Organic Compounds (SVOCs) and asbestos;
- Contamination associated with railway activities:
 - Petroleum Range Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), Inorganic Heavy Metals and Asbestos.
- Ground gases generated by biodegradable organic material within the Made Ground. Potential ground gases include methane (flammable and asphyxiant) and carbon dioxide (asphyxiant).

The following potential off site sources of ground contamination have been identified:

- Contamination associated with railway lines and activities:
 - Petroleum Range Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), Inorganic Heavy Metals and Asbestos.
- Contamination associated with Tin works:
 - Inorganic Heavy Metals, Radiological Compounds (NORM – Naturally Occurring Radioactive Material), Petroleum Range Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), Inorganic Heavy Metals, Volatile Organic Compounds (VOCs), Semi Volatile Organic Compounds (SVOCs), Acids, Asbestos and Polychlorinated Biphenyl's (PCBs).

Steel works and chemical works are also located in the surrounding area, however the potential contaminates associated with these industrial land uses has already been detailed for on-site sources.

7.2 Receptors of Contamination and Migration Pathways

Receptors are defined as human beings, ecological systems, property or controlled waters that have the potential to experience adverse effects from direct or indirect exposure to contaminated material.

Migration pathways are defined as the courses chemicals take from a source to an exposed organism or receptor. The exposure pathway can be direct (i.e. stays within the same exposure media) or indirect transport from one medium to another takes place.

The following potential human health, property and environmental receptors have been identified assuming the proposed future redevelopment as commercial use:

- Future site users;
- Site construction and maintenance workers (acute exposure only) ;
- Groundwater associated with the underlying Secondary A Aquifer;
- Building materials (concrete and water supply pipes); and
- Marine life within the Bristol Channel.

The following potential migration pathways have been identified assuming the proposed commercial end use of the site.

Inhalation

Human health can potentially be at risk from breathing dust, fibres and vapours from contaminated soil in the outdoor air and also the inhalation of fugitive dust inside buildings. Vapours from contaminated soil and groundwater can also migrate into buildings and be inhaled by the occupants.

Ingestion

Human health can potentially be at risk from eating and swallowing of contaminated soil. Ingestion can also occur by deliberately eating contaminated soil or indirectly by eating or smoking with dirty hands etc., or by ingestion of fugitive dust.

Dermal Contact

Human health can be potentially at risk from direct skin contact with contaminated soil and groundwater causing skin conditions such as dermatitis etc. and also dermal contact with fugitive dust inside buildings. Certain contaminants can be absorbed into the body through the skin or enter directly through open cuts and abrasions.

Leaching

Infiltration of water through soil can leach out soluble contaminants resulting in groundwater pollution.

Migration of Contaminated Water

Depending on the permeability of ground conditions, believed to be highly permeable, and any other man-made voids or preferential pathways, contaminated groundwater can potentially migrate laterally or vertically impacting adjacent surface and groundwater.

Migration of Ground Gas

Ground gases or volatile hydrocarbon vapours may migrate laterally or vertically through permeable or voided ground and accumulate within unprotected buildings.

Aggressive Attack

Some buildings and materials can be damaged by direct contact with aggressive ground conditions, for example sulphate attack on concrete and hydrocarbon attack on plastics.

7.3 Potential Pollutant Linkages

The following potential pollutant linkages have been identified for the site, assuming the proposed future end use of the site remains as commercial properties:

Source	Pathway	Receptor
TPH; PAH; Heavy Metals; VOCs; SVOCs; and, PCBs	Dermal contact; Soil Ingestion; and, Inhalation (indoor air).	Future occupants.
Asbestos.	Inhalation (outdoor air) Inhalation (indoor air)	Future occupants Construction workers Maintenance workers Site neighbours
TPH; PAH; VOCs; SVOCs; and, Acidic Ground	Aggressive attack	Building materials Plastic water mains
Ground gases Methane, Carbon Dioxide	Inhalation (indoor air).	Future occupants
TPH; PAH; VOCs; and, SVOCs.	Leaching, laterals and vertical migration off site	Secondary A Aquifer; Bristol Channel

The term potential pollutant linkage as used above is defined as one that has the potential to represent unacceptable risks to human health or the environment but has not been identified through risk assessment. Where a potential pollutant linkage has been identified above, further investigation and risk assessment may be required to establish whether a relevant pollutant linkage exists.

7.4 Review of previous Ground Investigation

A review of the previous ground investigation carried out at the site was carried out as part of this desk study review. A summary of the findings has been provided below of the environmental laboratory testing carried during the 2007 Ground Investigation instructed by Opus which included the site.

Soil Contamination

- The laboratory results from the previous ground investigation were compared to the most recent Opus Tier I Human Health Soil Screening Values, Category 4 Screening Values and Land Quality Management Suitable 4 Use values, for a commercial setting.
- The majority of the analysis undertaken indicates that there is unlikely to be an unacceptable level of risk to controlled waters; however, at that time it was not entirely possible to completely state that there is no risk posed from the underlying soils to human health or controlled waters, based on the fact that the type of 'total concentration' testing for TPH and PAHs which was undertaken, does not give suitable results against which to model. Therefore, without further speciated testing it must be assumed that some risk to human health and controlled waters exists.

Groundwater Contamination

- A comparison of the original groundwater samples was again made against the most recent Environmental Quality Standards (which are derived from a number of sources) for a saltwater / coastal setting in 2007.
- This comparison identified a number of heavy metal exceedances. In addition to this, as with the soils analysis, it is not possible to state exactly that the TPH and PAH concentrations do not pose an unacceptable level of risk to groundwater as a testing method which is not out of date was used at the time of the previous investigations.
- Drawing V-C8468.03/01/R0 appended to this report, shows the approximate groundwater impacted plume; it must be stressed that further works are required to fully delineate and assess the groundwater plume.

From the previous ground investigation at the site the following Preliminary Conceptual Site Model was derived.

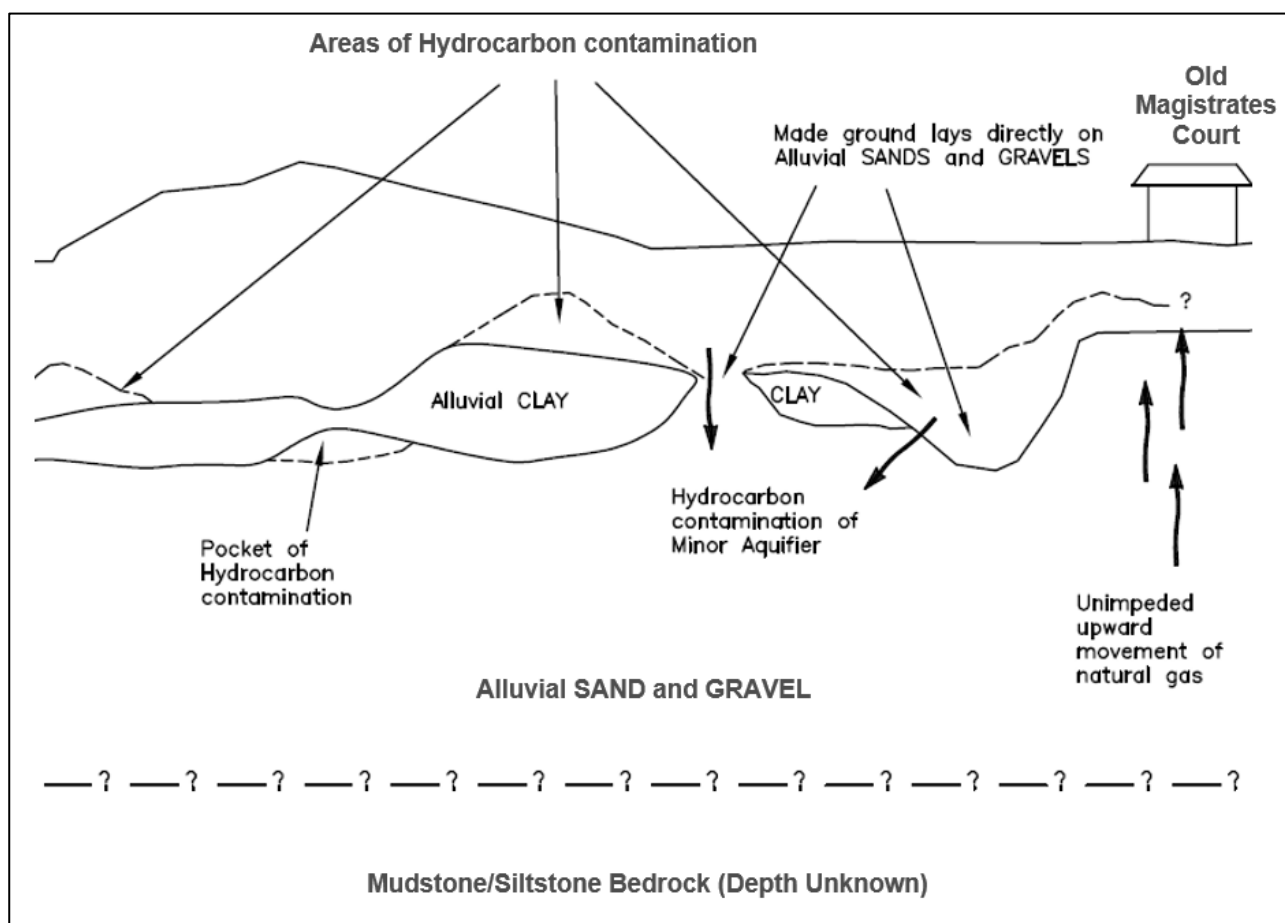


Figure 2: Preliminary Conceptual Site Model

8 Preliminary Geotechnical Considerations

8.1 Existing Features with Geotechnical Impacts

A review of the coal mining data and geological information available for this site indicates there is no risk of risk of shallow coal workings beneath the site. A mining report has been obtained from the Coal Authority (included in Appendix C) and shows no mine entries in the vicinity of the site. Any workings that could have been conducted before mine records became compulsory in 1872 are most unlikely on account of the considerable depth of drift deposits and the coastal location with a high water table.

8.2 Foundations

The Made Ground at the surface is thought to be generally thick enough and dense enough to support substantial temporary loadings and the permanent loads from spread foundations, although the non-uniform composition of the Made Ground means it may suffer from differential settlement. In addition, long term settlement due to consolidation within the underlying Alluvium would need to be taken into account for any future development.

Foundation types thought to be suitable for most new structures proposed for the site may include:

- Reinforced strip foundations;
- Raft or modified raft;
- Ground Improvement;
- Piles.

Reinforced strip foundations

Permanent ground bearing structures should therefore be limited to lightweight single or two storey structures which are not sensitive to settlement. The loading from columns and other concentrated loads would be distributed over a larger area than pad foundations and the potential for differential settlement between column positions would be reduced.

Raft

A reinforced raft or modified raft with edge and intermediate thickenings may be suitable for buildings more susceptible to differential settlement, with a full raft providing increased stiffness for heavier loaded structures.

Ground Improvement

Vibro-treatment can provide compaction of the ground to a uniform density and reduce settlement by the introduction of stone columns at variable spacing designed to match the foundation loads. This treatment may be used in combination with spread footings, strip or raft foundations. The treatment would only need to go through the underlying alluvium to rest on the competent gravel but some difficulty may be experienced penetrating through some of the made ground which is very dense in places.

Other more expensive forms of ground improvement which could be used to suit particular circumstances include Soil Mixing which involves the mechanical mixing of weak soils with a cementitious binder, causing the properties of the soil to become more like a soft rock. This would improve the shear strength and bearing capacity of the soil, ultimately resulting in the ability to increase loadings.

Piles

Given the current state of the site and considering the material encountered during the previous investigation, it is considered that piling is a viable foundation option for heavily loaded structures although some pre-drilling may be required to overcome obstructions in the made ground. The piles would need to extend sufficiently into competent gravel to achieve adequate shaft and end resistance.

8.3 Construction

Shallow excavations for services etc. at this site should be readily achieved using conventional mechanical plant. It is anticipated that the short term stability of excavations within the natural strata should be reasonable, however there may be potential for perched groundwater within the strata and pockets or bands of sand. Shallow bedrock may be encountered in certain areas of the site and higher specification plant (i.e. tracked 3600 excavator and/or hydraulic breaker) may be required for deeper excavations.

Deeper excavations may also be affected by groundwater.

The requirement for support will need to be evaluated under CDM Regulations and support will be essential for any excavations in excess of 1.20m where man entry is required. All excavations should be carried out in accordance with CIRIA Report 97 'Trenching Practice'.

During construction, contractors should be vigilant to ground conditions that vary significantly from those expected, in particular for any signs of soft ground or organic layers. Where these arises, advice should be sought from a suitably qualified Engineer.

8.4 Floor Slab

From a geotechnical perspective, ground bearing floor slabs are likely to be a viable option at this site. The subgrade to ground bearing floor slabs should be proof-rolled and any soft zones should be removed and replaced with a well compacted granular fill. Plate bearing tests may be used to check the desired bearing capacity has been achieved.

8.5 Road Pavements

An anticipated CBR value of the order of 3% can be assumed for the design of roads and hard standings founded on clay or sand, with higher values exceeding 5% where sandstone or shale is encountered. The actual CBRs should be confirmed by in-situ testing at road formation level.

The sub-grade may be frost susceptible where directly overlying superficial clays. In these instances the minimum construction depth of the road construction should be 450mm.

8.6 Soakaways

Based on the anticipated geology, it is advised that soakaways could be a feasible method of drainage where bands of sand and gravels are present. However due to the anticipated shallow depth of the groundwater table, potentially significant thicknesses of Made Ground deposits, the potential for flooding and the potential to generate a an exposure pathway for contaminants, Opus would not recommend the use of Soakaways as a drainage method without careful consideration of the dimensions, level and ground conditions at the precise location proposed.

9 Recommendations

At the time of writing, the reports and data referenced regarding previous ground investigation at the site are approximately ten years old and as such are not considered representative of the site today. Over the preceding years, it is likely there will have been some natural degradation of contaminants and as such new data is needed to assess the current conditions on site.

The following recommendations for further works have been made based on the pre-existing ground conditions:

Carry out an intrusive Phase 2 geotechnical and environmental investigation to allow an assessment of soil, groundwater and ground gas contamination and to provide recommendations for foundation engineering including confirmation of the depth of any Made Ground and bedrock across the site. This will confirm the Initial Conceptual Site Model (ICSM) and will likely comprise:

- A series of mechanically excavated trial pits;
- A number of Cable Percussive Boreholes (with Rotary follow on);
- Installation of a number of groundwater monitoring wells;
- Chemical Testing;
- A Revised Conceptual Site Model (RCSM); and,
- Detailed Quantitative Risk Assessment (DQRA).

As the UXO risk level on site has been deemed as medium (ALARP) according to the EOD Contracts UXO Desk Study and Risk Assessment, UXO risk mitigation is recommended during any further site investigations including UXO safety awareness training, UXO safety testing prior to intrusive works and UXO safety monitoring of all “at risk” excavations.

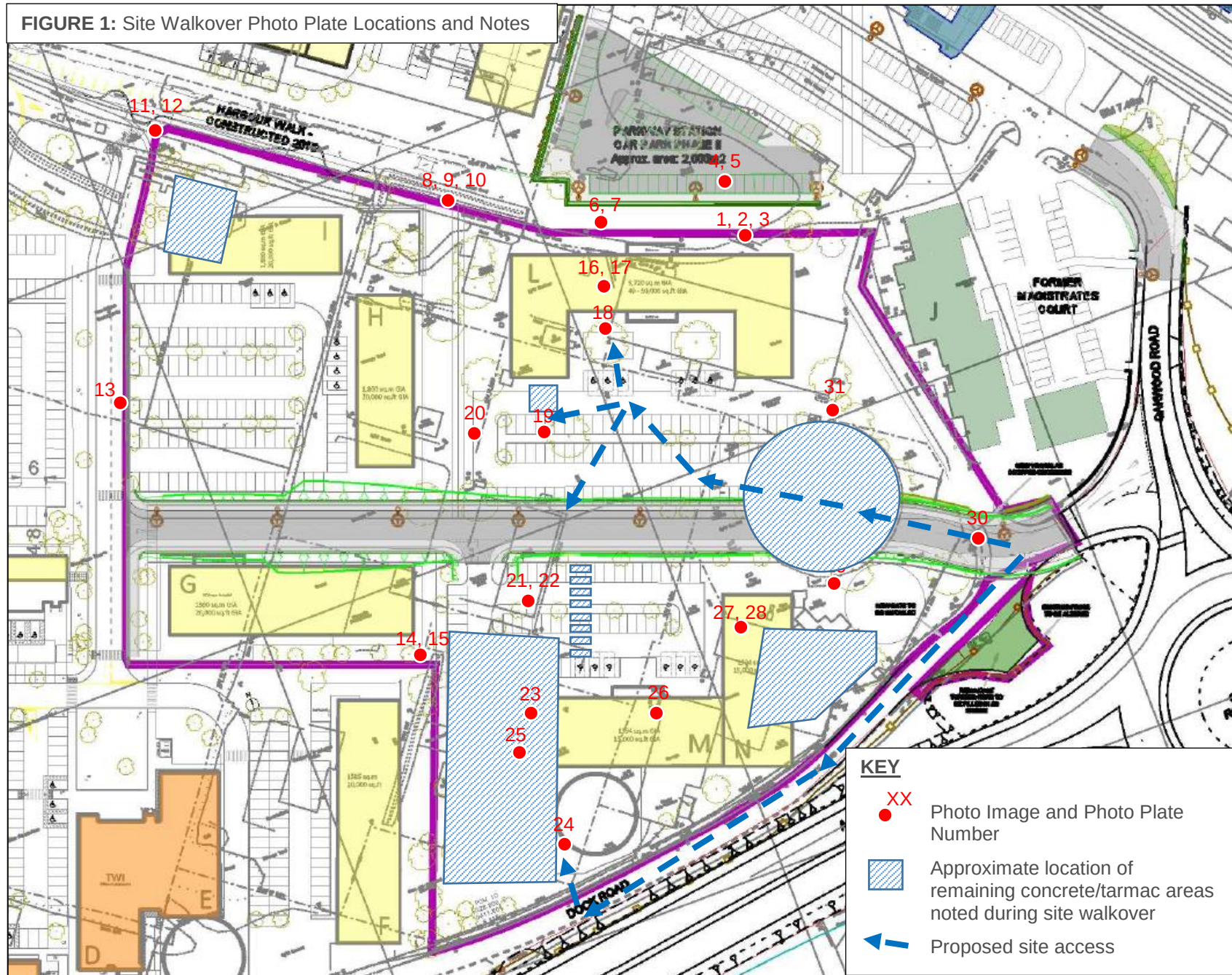
Should the RCSM identify any viable pollutant linkages, a DQRA should be undertaken to model in a more site specific way the risks to the identified receptors from (either/both) soils or groundwater. If after the DQRA, unacceptable levels of risk still exist, then a Remediation Strategy should be completed which would facilitate the redevelopment of the site.

The Detailed Remediation Strategy should be completed to outline all contaminants and their exposure pathways and the remedial technology and methodologies required in order to remove the source or break the pathways. Remedial targets will be adopted from the results of the DQRA, with watching briefs and validation testing undertaken on the remediation works where required.

FIGURES

Figure 1: Site Walkover Photo Plate Locations and Notes

FIGURE 1: Site Walkover Photo Plate Locations and Notes



DRAWINGS

Drawing No: C2014B/PS004 – Harbourside General Arrangement

**Drawing No: V-C8468.03/01/00 –
Indicative Groundwater Contamination Plumes**

HARBOURSIDE STRATEGIC EMPLOYMENT SITE

THIS IS A C.A.D. PRODUCED DRAWING AND SHOULD NOT BE AMENDED BY HAND

PS004 - SITE COMPOUND

NOTES

1. All dimensions are in millimetres unless otherwise stated.

LEGEND

- Single arm lighting columns (symbols vary)
- Proposed footway construction
- New Carriageway construction
- Highway Verges
- Highway Embankments
- Phase 1 Development Buildings.
- Future Development Buildings by others.
- Proposed Vehicular Drop Crossing.
- Area of development land remediated :3.0 ha.
- Area of development land with improved access: 2.5 ha.
- Area of additional car park created: 0.2 ha.

Key:

- A = Justice Centre
- B = Tata Steel (R+D Facility)
- C = Llewellyn House (Offices)
- D = TWI (Existing Offices/Labs/High Bay)
- F = Proposed Building (20,000 sqft)
- G = New building (20,000 sqft)
- H = New building (20,000 sqft)
- I = New building (20,000 sqft)
- J = Former Magistrates Court
- K = New building (15,000 sqft)
- L = New building (50,000 sqft)
- M = New building (15,000 sqft)
- N = New building (15,000 sqft)
- O = New building (15,000 sqft)
- P = New building (1600 sqft units)
- Q = New building (6,500 sqft)
- S = Starter units (total 15,000 sqft)
- T = Starter units (total 15,000 sqft)
- U = Starter units (total 15,000 sqft)

Rev	Details	Dr	Ch	Ap	Date

Client

Neath Port Talbot
Castell-nedd Port Talbot
County Borough Council Cynor Bardestref Sirol
ENGINEERING AND TRANSPORT

GARETH NUTT
DIRECTOR OF ENVIRONMENT
THE QUAYS, BRUNEL WAY
BAGLAN ENERGY PARK
NEATH SA11 2GG

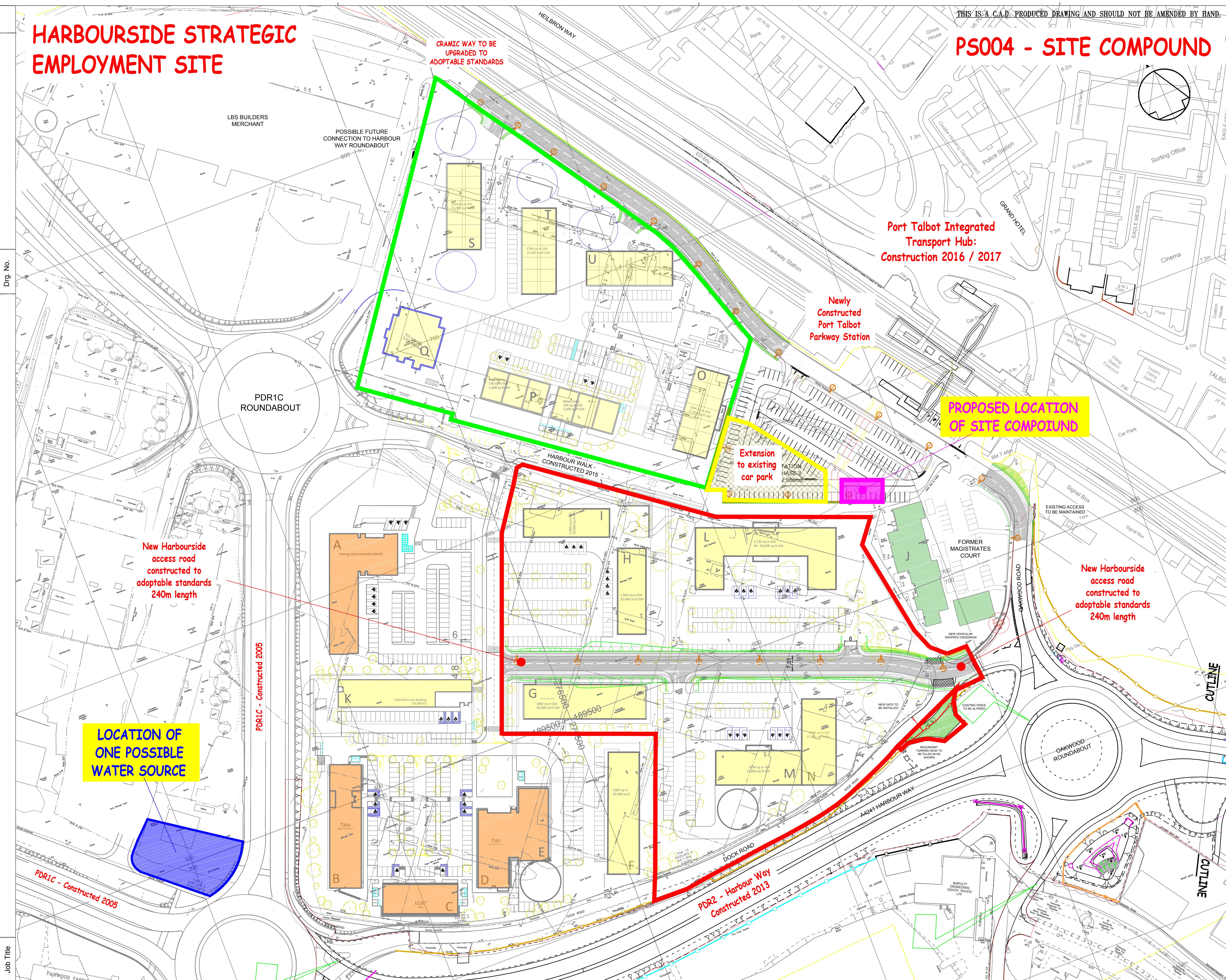
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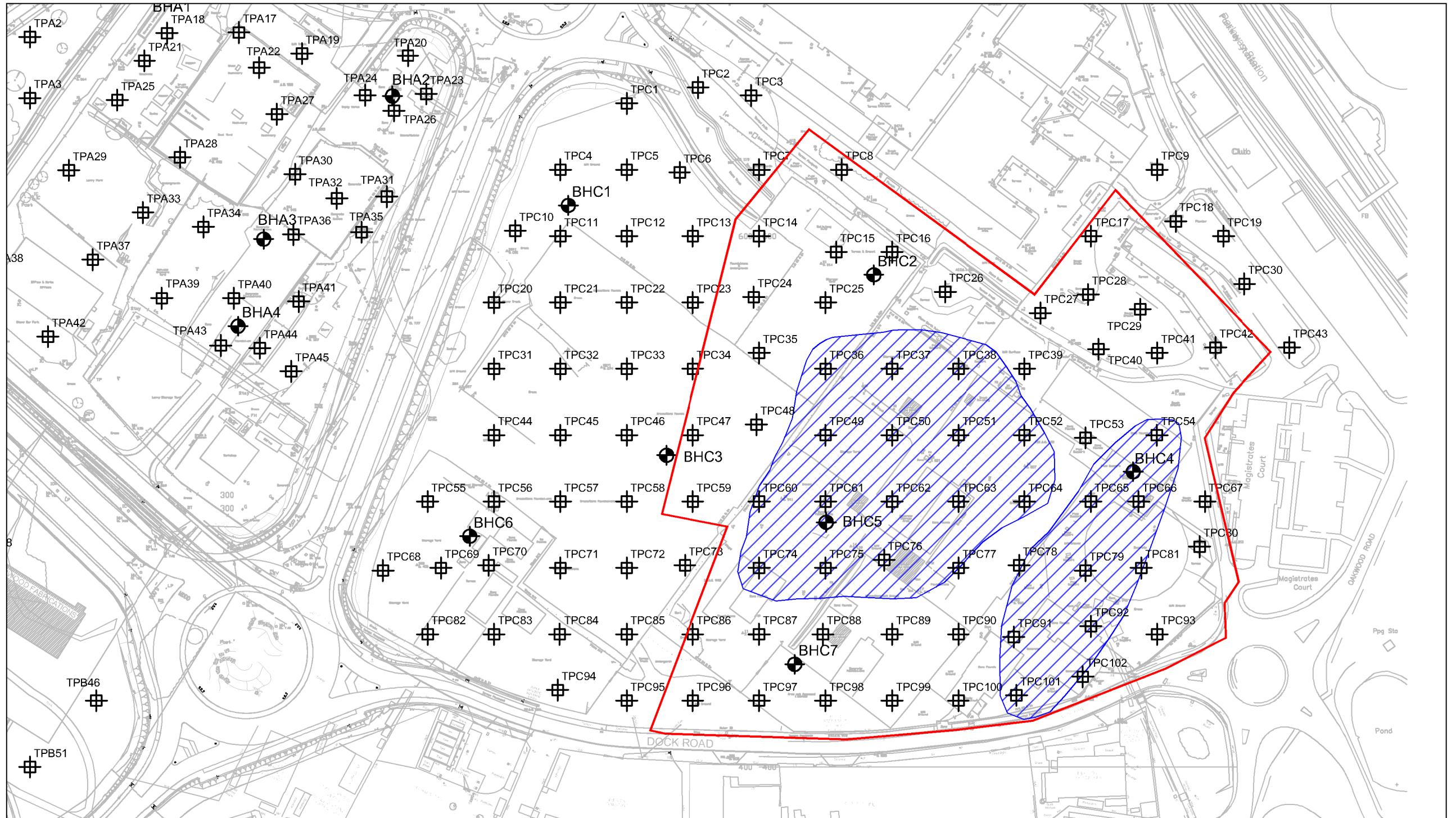
PROPOSED SITE COMPOUND

File No.	Financial Code No.
Drawn MM	Checked MCB Approved HH
Date JUN '17	Date JUN '17 Date JUN '17
Scales 1:1000	
Drawing No.	C2014B / PS004

Drg. No.

Job Title





NOTES

- DO NOT SCALE.
- This drawing is to be read in conjunction with all other relevant drawings.
- All boundaries are approximate.

KEY

- Site Boundary
- Trial Pit Location
TPC8
- Cable Percussive Borehole Location
BHC2
- Estimated extent of contamination plumes

Revision	Amendment	Approved	Revision Date



Designed LSB	Approved SH	Approved Date OCT'16
Drawn LSB	Scale NOT TO SCALE	

Project Port Talbot Harbourside	Sheet Contamination Plumes
Project No. V-C8468.03	Sheet No. 01
	Revision 00

Appendix A

Site Walkover Photo Plates



Plate 1: View looking south east from north of site



Plate 2: View looking south from north of site



Plate 3: View looking south west from north of site



Plate 4: View looking north across area proposed extension to existing NPTCBC car park



Plate 5: View looking south west across area proposed for extension to existing NPTCBC car park



Plate 6: View looking south west across site showing vegetation from footpath



Plate 7: View looking south across site showing vegetation and topography from footpath



Plate 8: View looking south across site with recently erected fencing



Plate 9: View looking west along norther boundary showing vegetation and earth bund



Plate 10: View looking south east across site from norther boundary showing vegetation and topography



Plate 11: View looking south along western boundary of the site showing earth bund (approx. 2m height)



Plate 12: View looking south east across west of site from earth bund showing raised area and concrete hardstanding



Plate 13: View looking north along western boundary of the site



Plate 14: View looking south east across south western area of the site adjacent to TWI buildings



Plate 15: View looking east across south western area of the site adjacent to TWI buildings



Plate 16: View looking south east across site towards Magistrates Court buildings



Plate 17: View looking south across site showing possible access route



Plate 18: View looking south west across site showing tarmacked area and recently erected fencing



Plate 19: View looking north across site showing square concrete hardstanding remaining



Plate 20: View looking south across site showing recently erected fencing



Plate 21: View looking south across site showing existing tarmacked hardstanding



Plate 22: View looking south across site showing existing concrete hardstanding's (8 No. 3m x 2m)



Plate 23: View looking south across site showing abandoned heras fencing and general vegetation



Plate 24: View of southern boundary fencing and missing section on "Dock Road" (approximately 3.5m between posts for access)



Plate 25: View looking north east across site showing area of hardstanding and existing fencing on site



Plate 26: View looking east across site showing area of hardstanding



Plate 27: Remains of industrial pipe at south east of the site



Plate 28: Remains of industrial pipe at south east of the site



Plate 29: View looking north west from east of the site at the location of old industrial gas holder hardstanding remains



Plate 30: Possible access route on to site on eastern boundary off Oakwood Road



Plate 31: Western Power Distribution Utilities Store in eastern section of site.

Appendix B

Historical Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

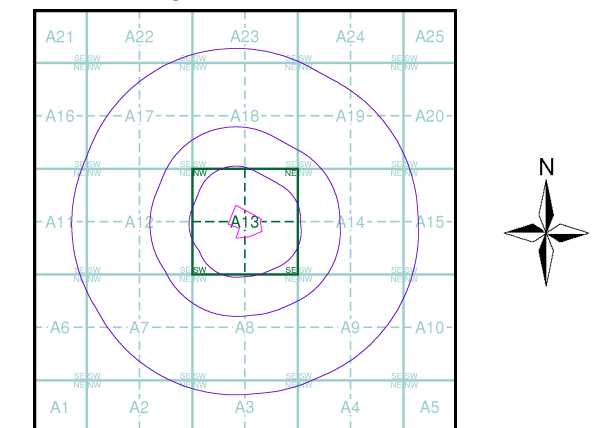
Envirocheck®

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1938 - 1952	5
Historical Aerial Photography	1:10,560	1949	6
Glamorganshire	1:10,560	1951	7
Ordnance Survey Plan	1:10,000	1964 - 1965	8
Ordnance Survey Plan	1:10,000	1974	9
Ordnance Survey Plan	1:10,000	1980 - 1982	10
Ordnance Survey Plan	1:10,000	1993 - 1996	11
10K Raster Mapping	1:10,000	1999	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2017	14

Historical Map - Slice A



Order Details

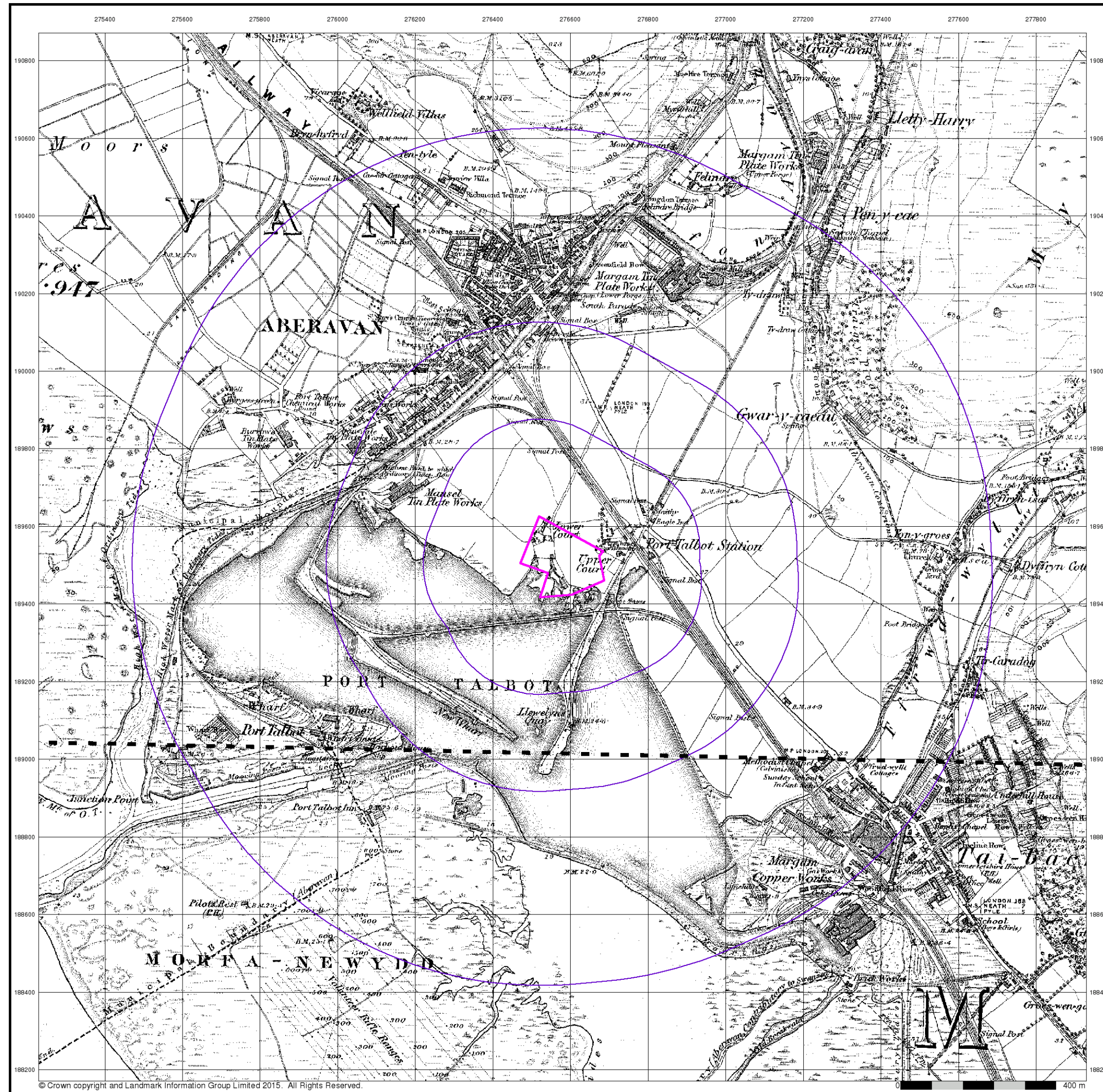
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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

Landmark
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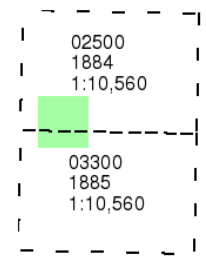
Glamorganshire

Published 1884 - 1885

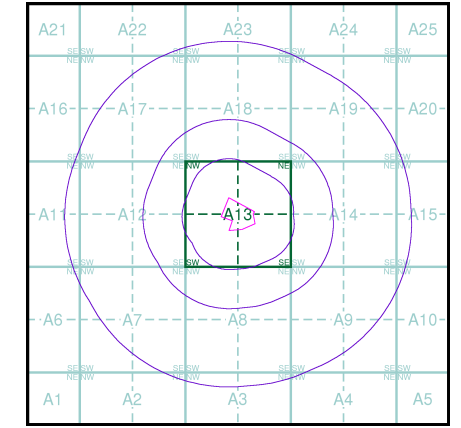
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

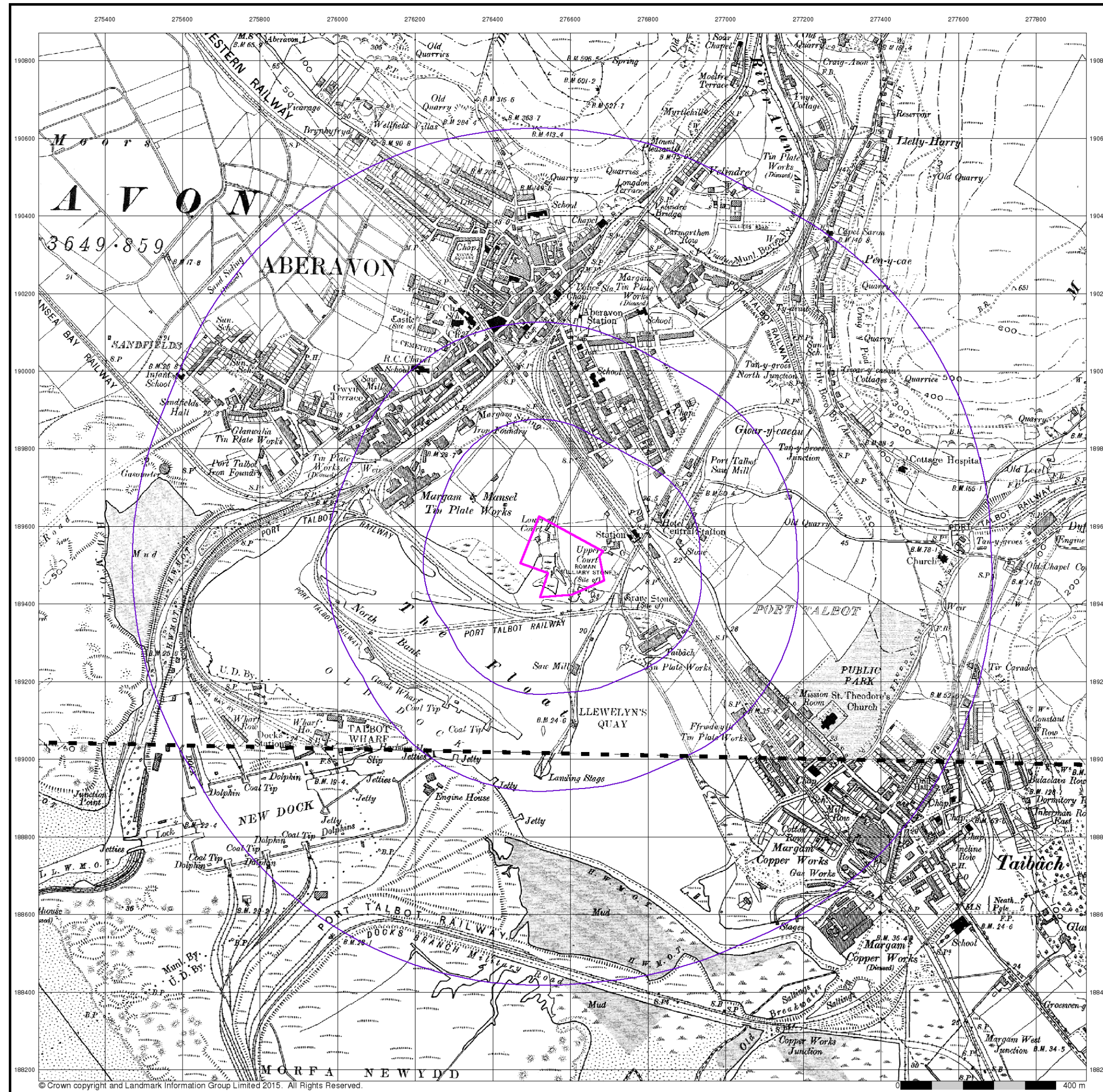


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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB



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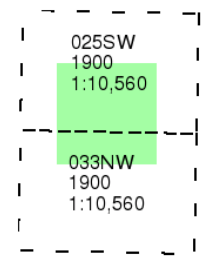
Glamorganshire

Published 1900

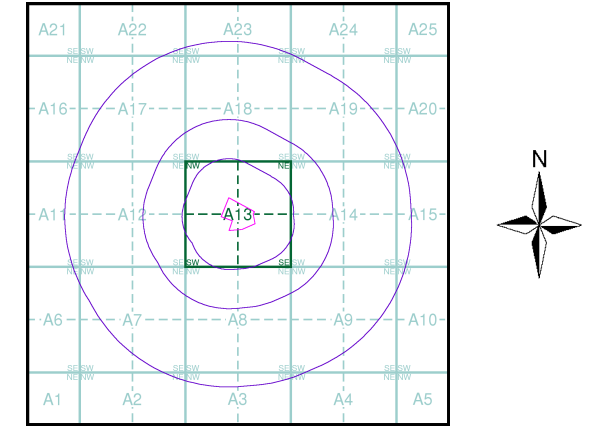
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

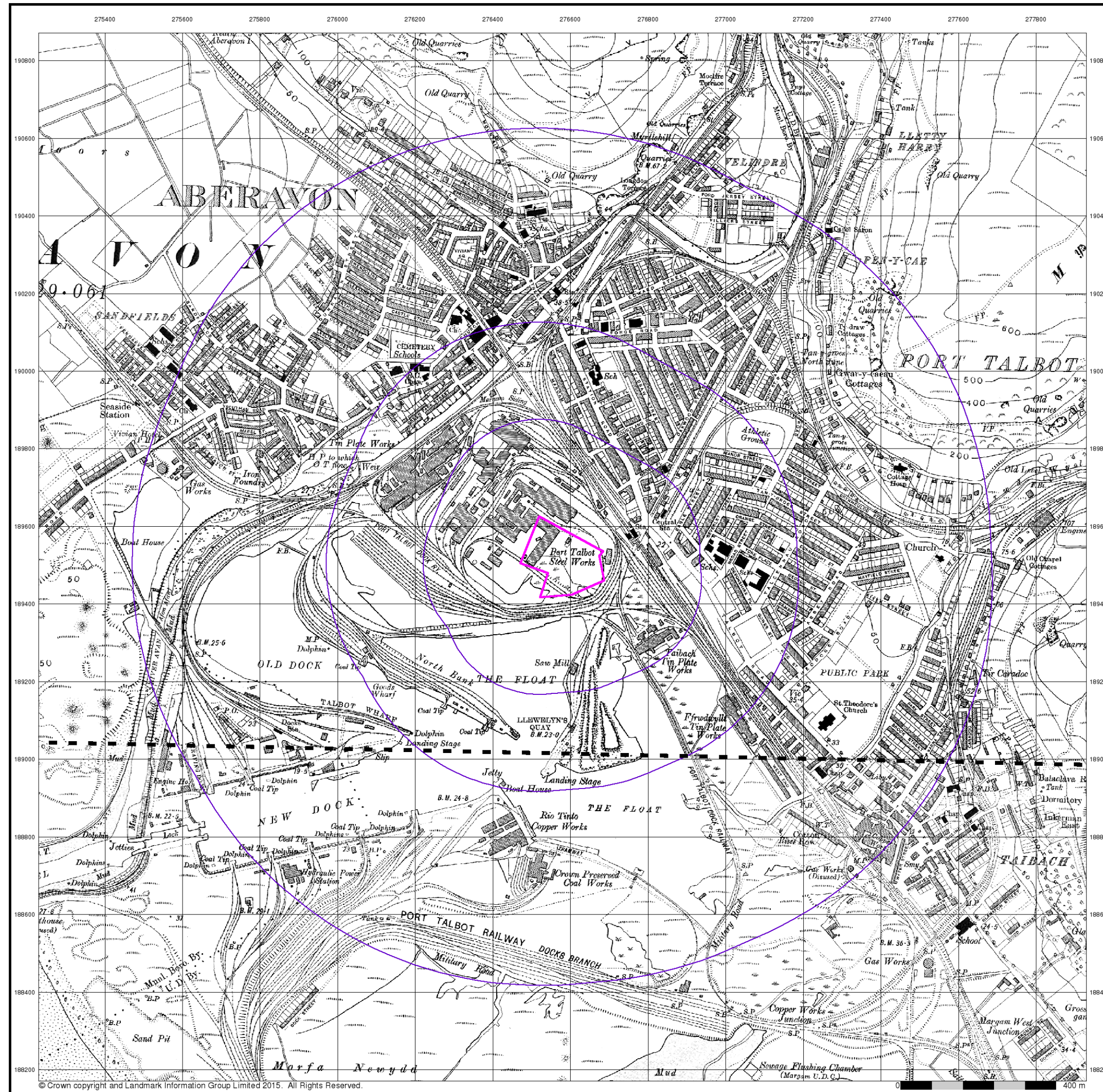


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Search Buffer (m):	1000

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Glamorganshire

Published 1921

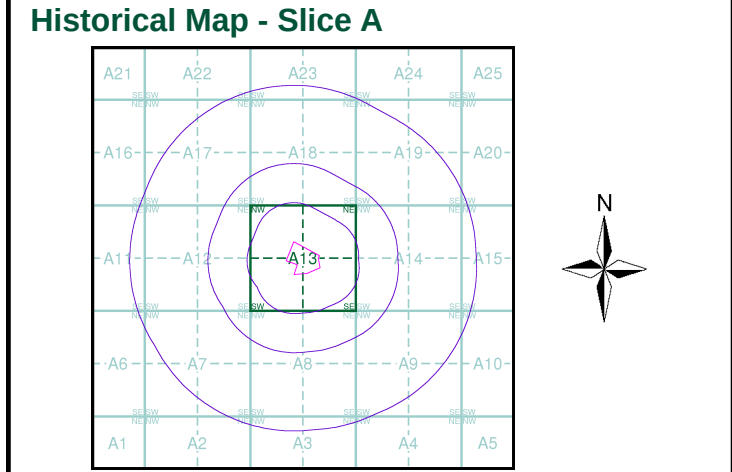
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

025SW
1921
1:10,560

033NW
1921
1:10,560

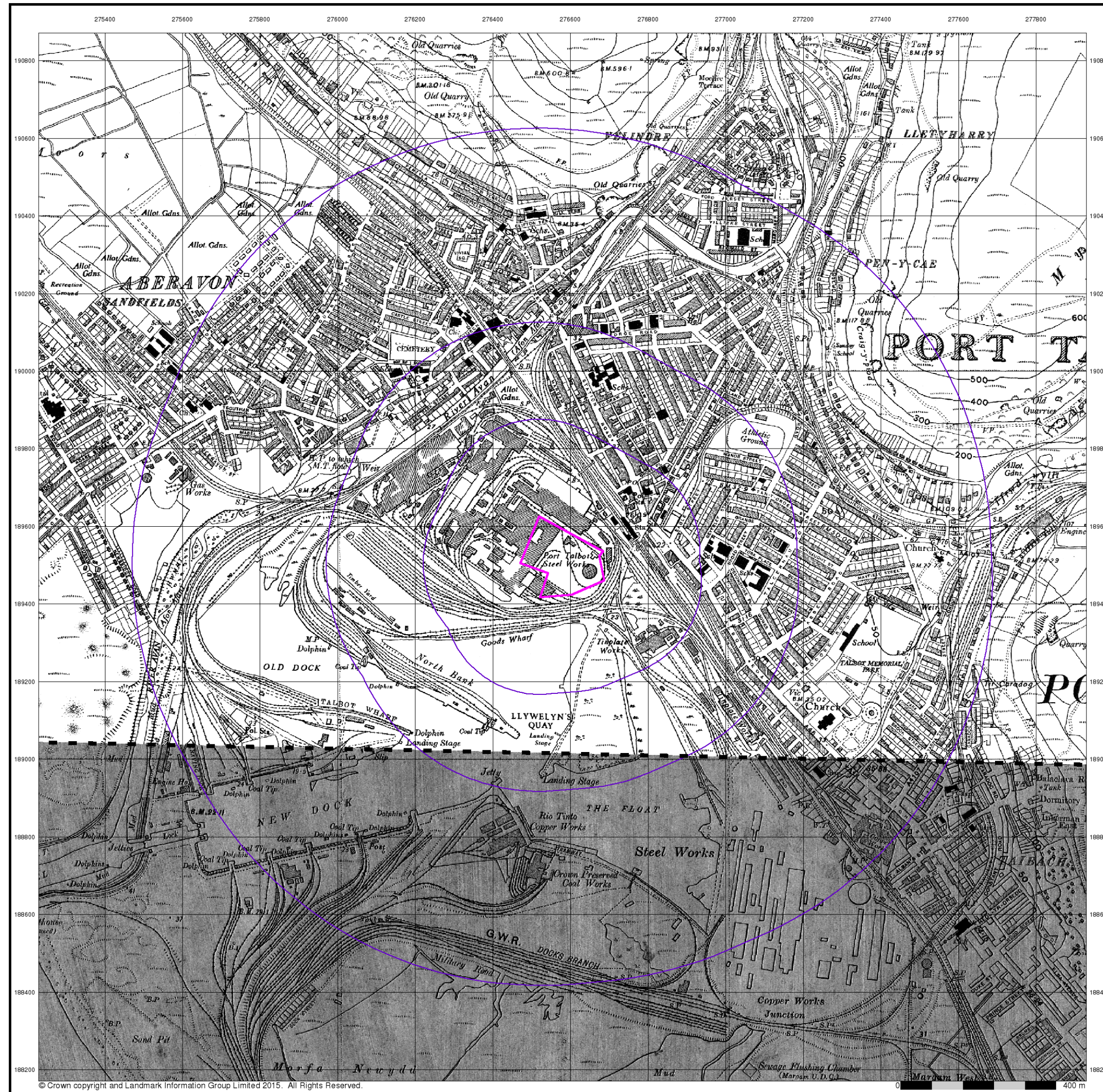


Order Details

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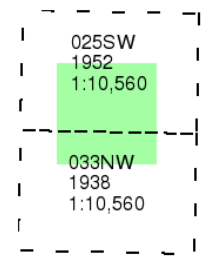
Glamorganshire

Published 1938 - 1952

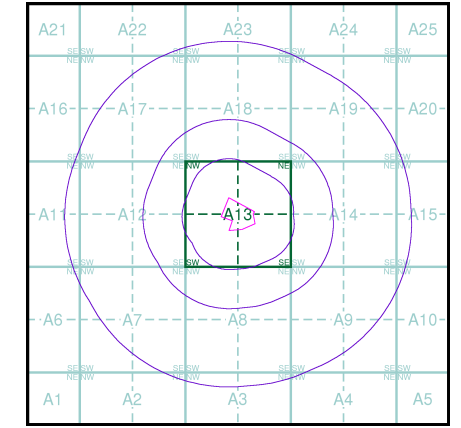
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

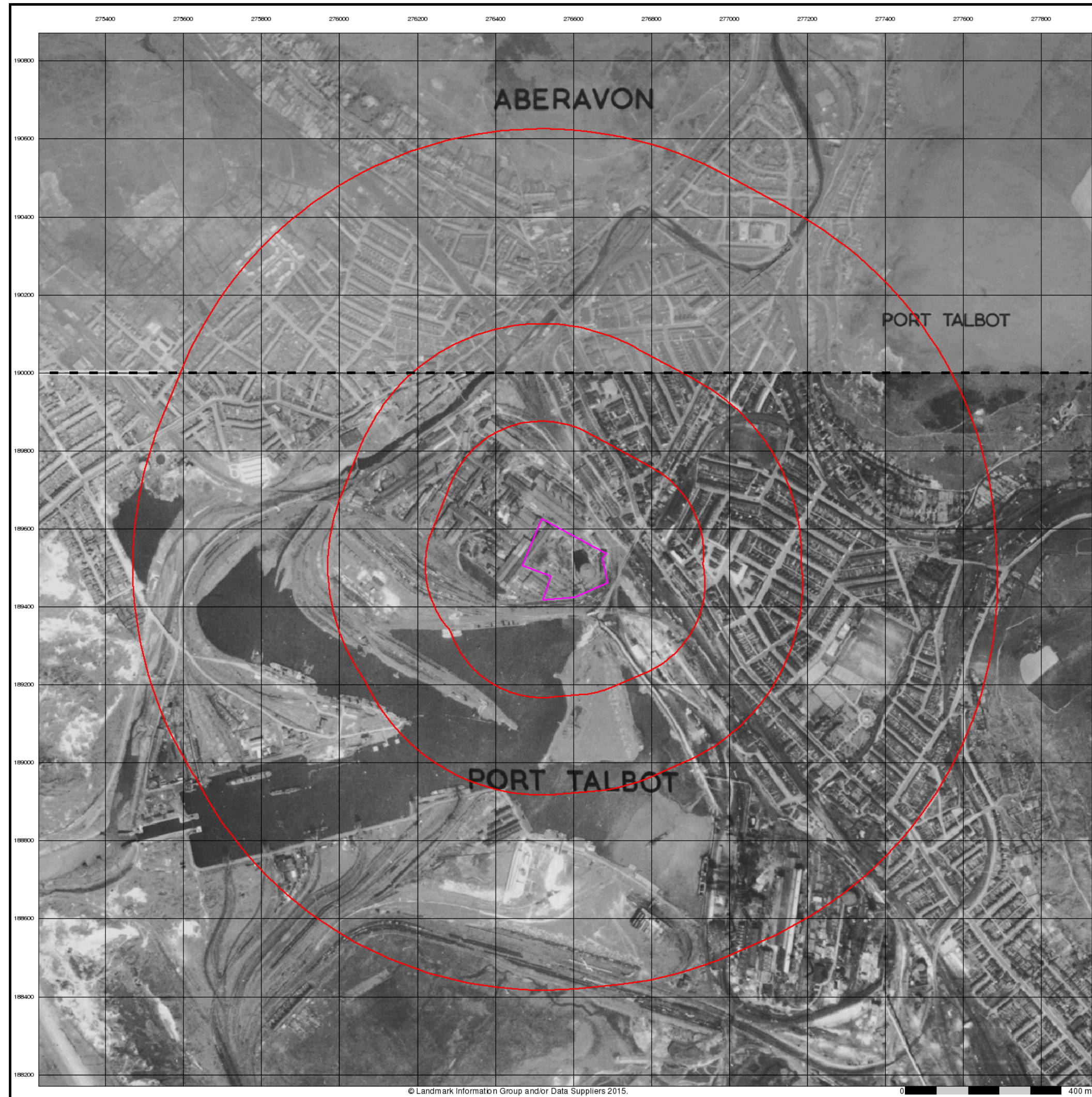
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Slice: A
Site Area (Ha): 2.7
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Historical Aerial Photography

Published 1949

Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

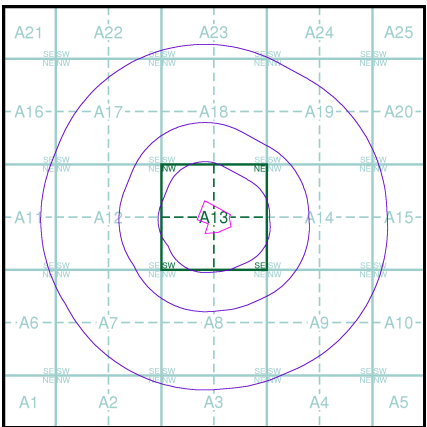
© Landmark Information Group and/or Data Suppliers 2010.

Map Name(s) and Date(s)

SS79SE
1949
1:10,560

SS78NE
1949
1:10,560

Historical Aerial Photography - Slice A



LIBRARY
HSILIRB

Order Details

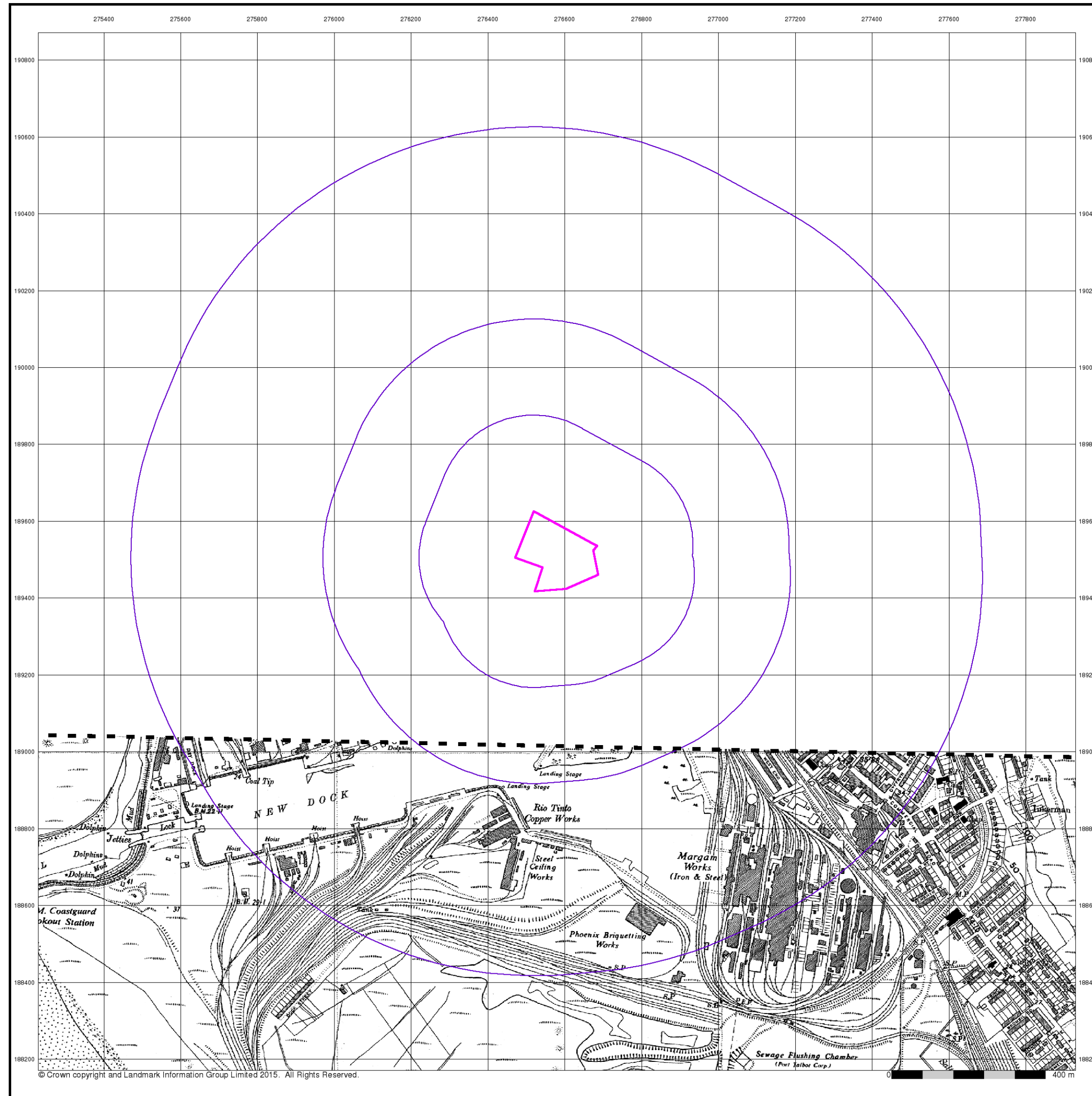
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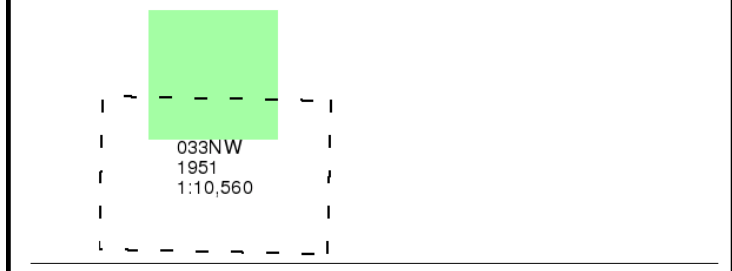
Glamorganshire

Published 1951

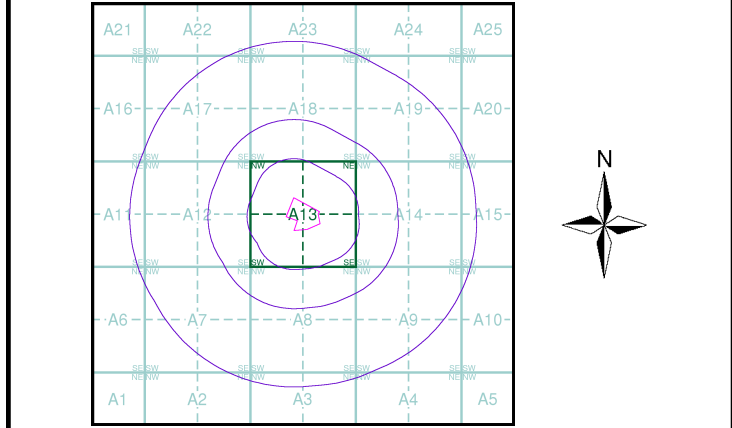
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A

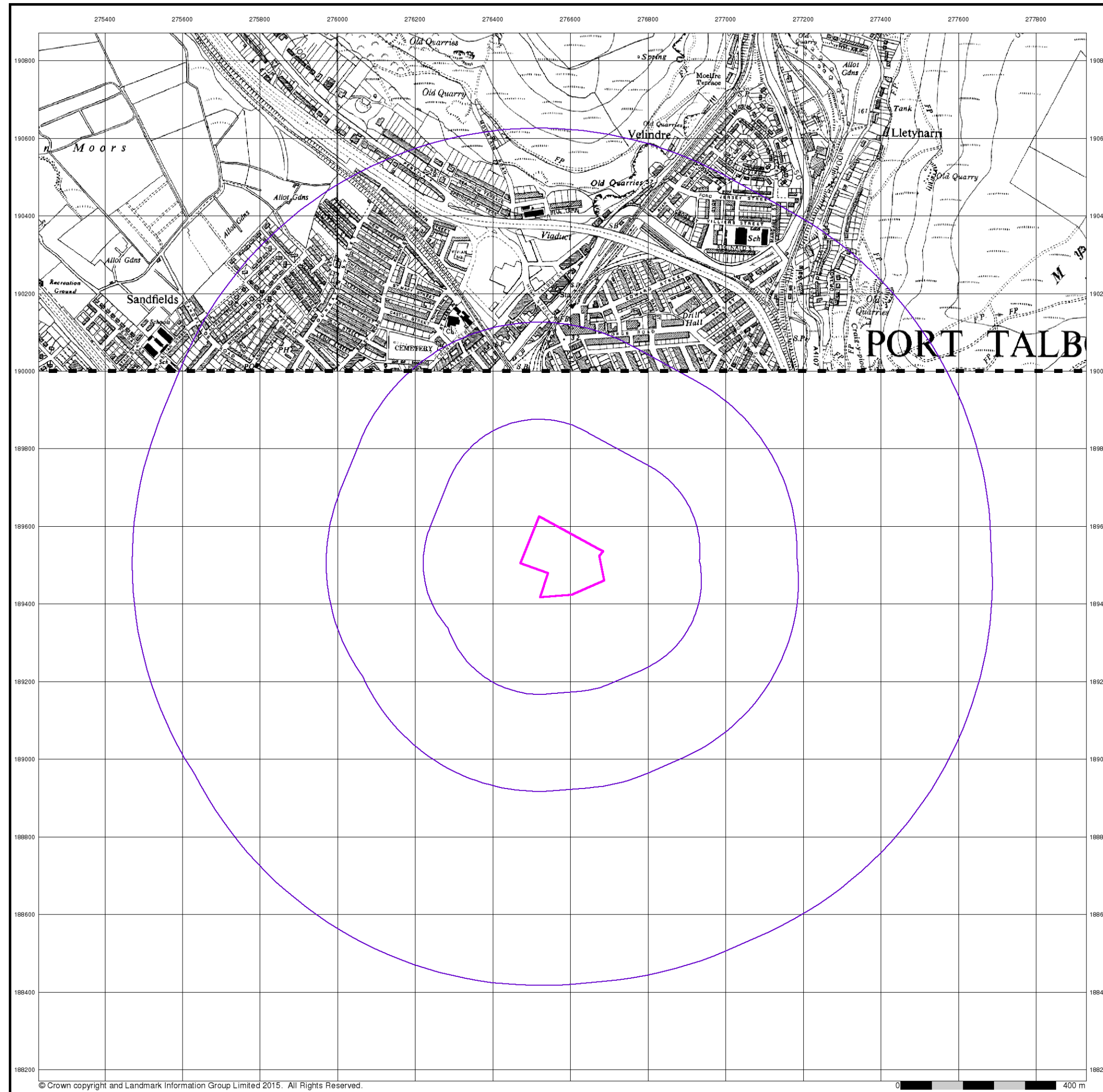


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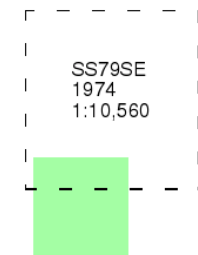
Ordnance Survey Plan

Published 1974

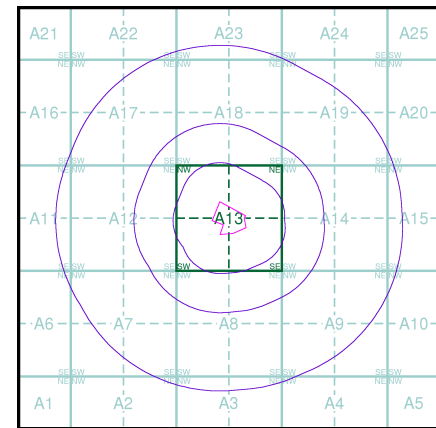
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:128172853_1_1

Customer Ref:V-C8602.00

National Grid Reference:276580, 189510

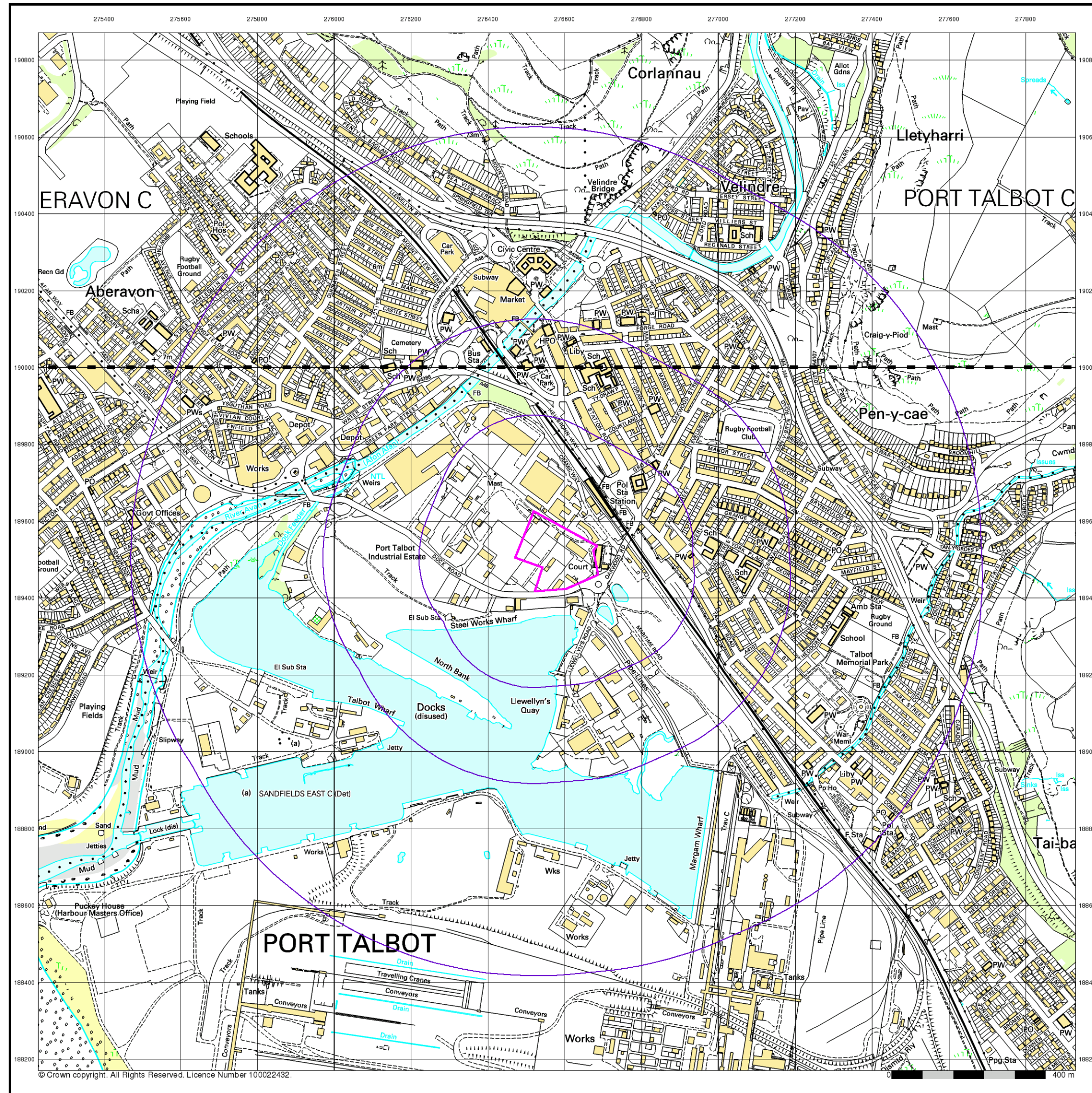
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Search Buffer (m):1000

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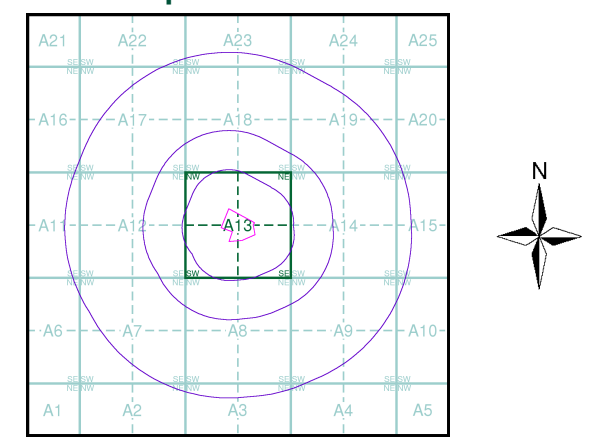
10k Raster Mapping
Published 1999
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SS79SE	1999	1:10,000
SS78NE	1999	1:10,000

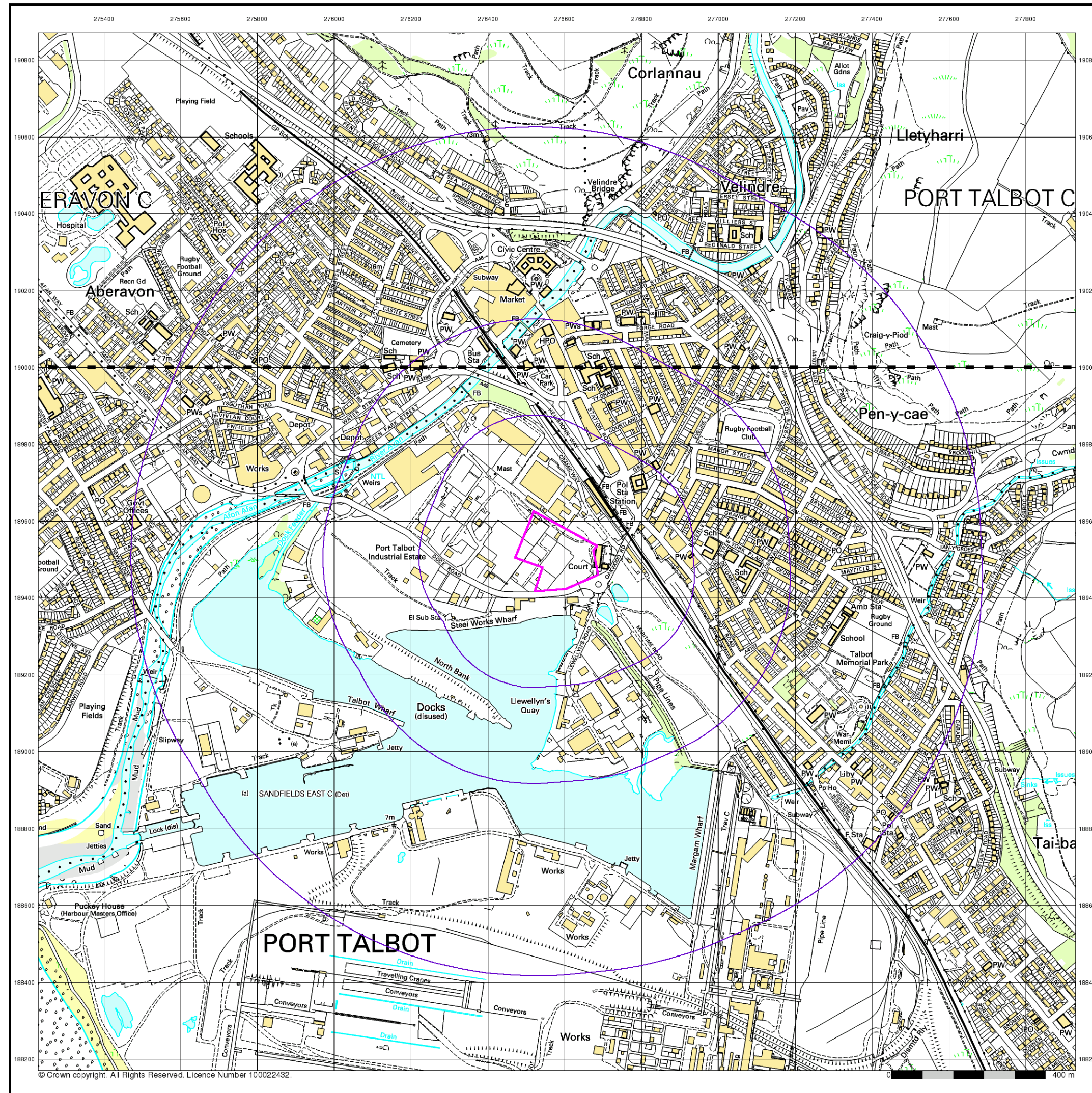
Historical Map - Slice A



Order Details
Order Number: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SS79SE	2006	1:10,000
SS78NE	2006	1:10,000

Historical Map - Slice A

N

Order Details

Order Number:	128172853_1_1
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Site Details

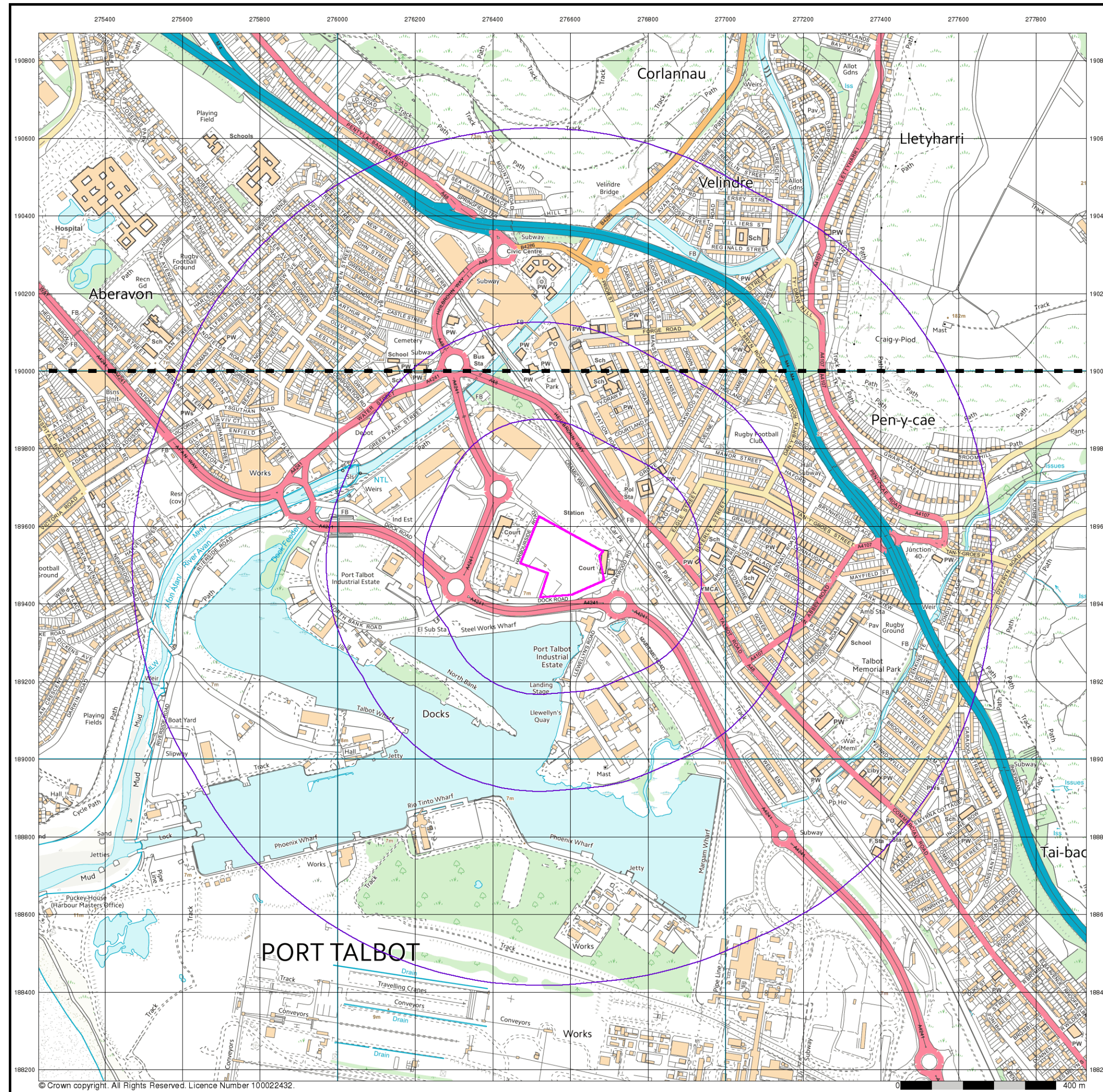
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A Landmark Information Group Service v50.0 12-Jun-2017 Page 13 of 14



VectorMap Local

Published 2017

Source map scale - 1:10,000

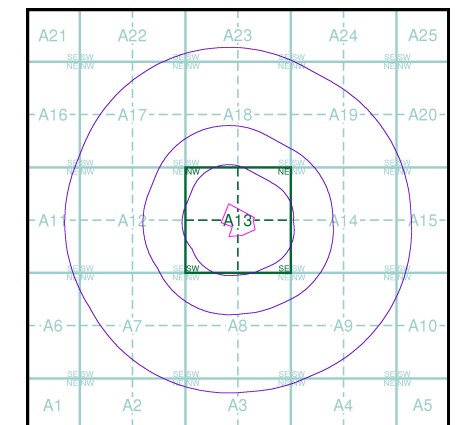
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SS79SE
2017
Variable

SS78NE
2017
Variable

Historical Map - Slice A



Order Details

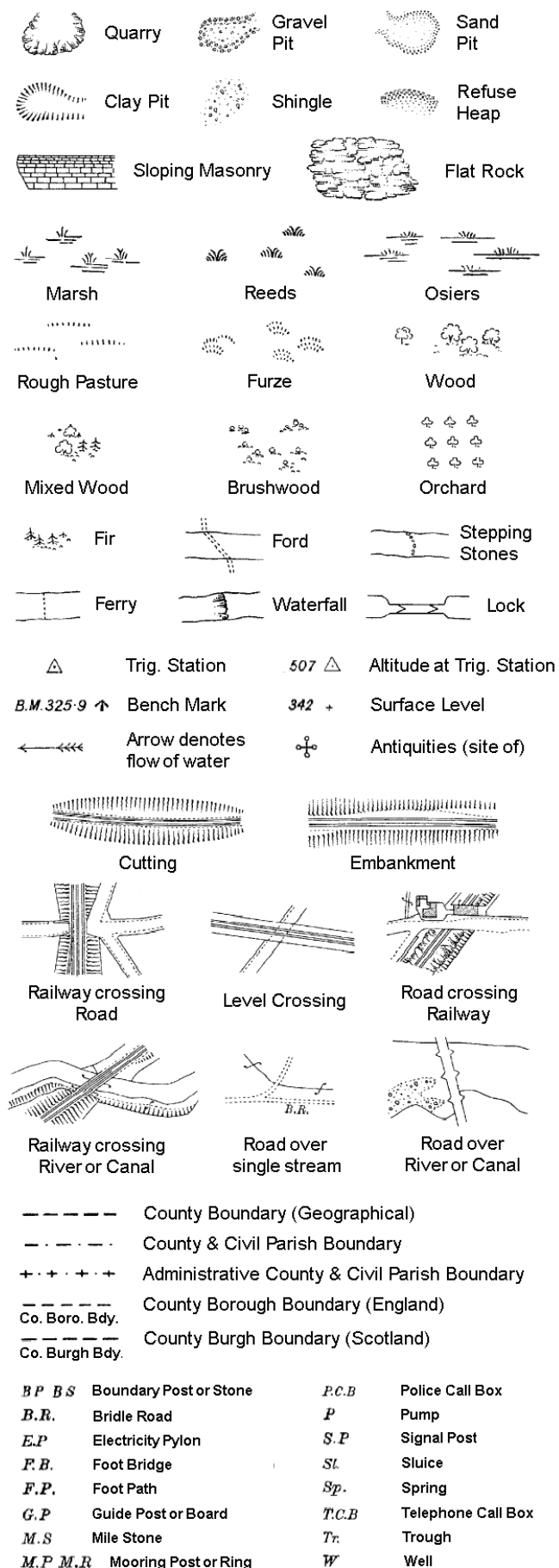
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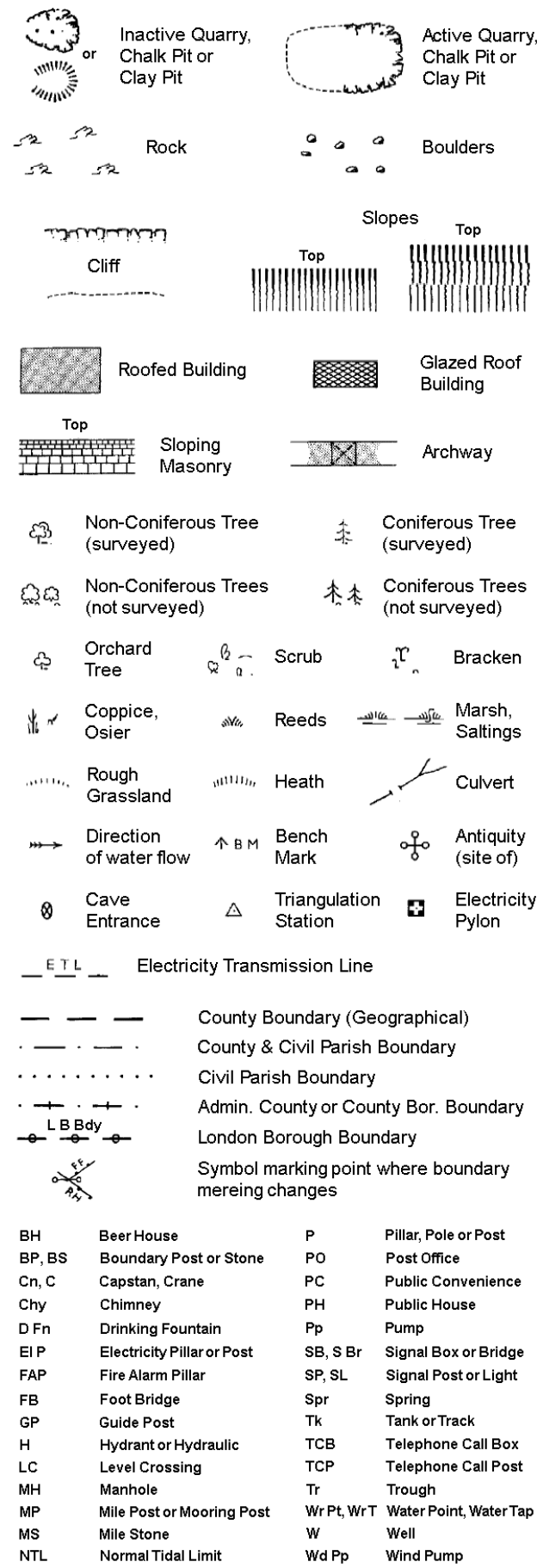
1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

Historical Mapping Legends

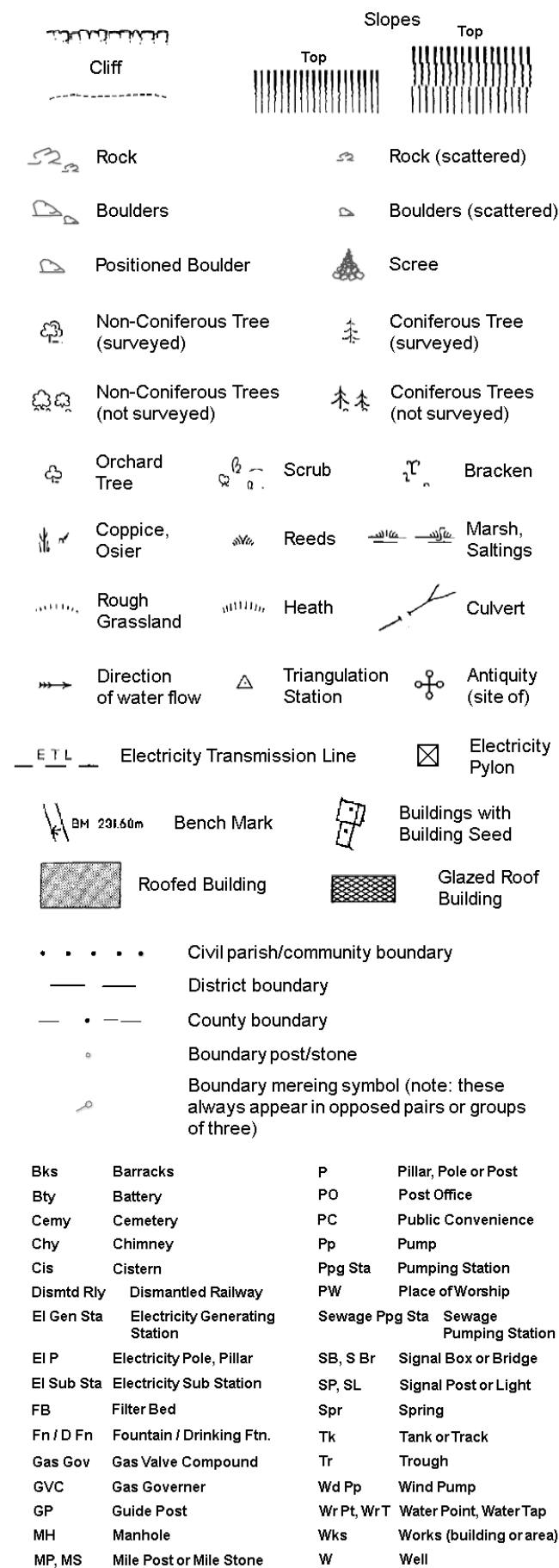
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



Large-Scale National Grid Data 1:2,500 and 1:1,250



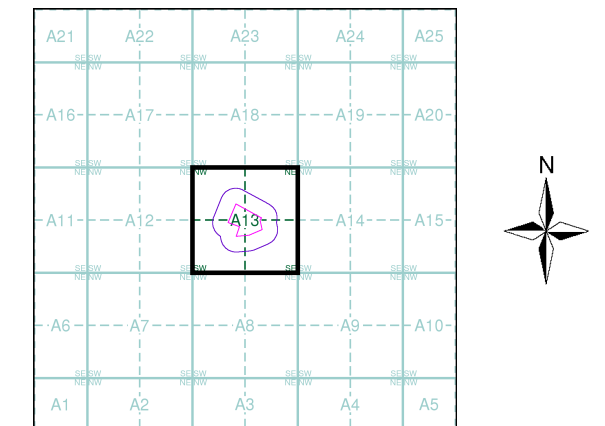
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1876	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1917	4
Glamorganshire	1:2,500	1939	5
Ordnance Survey Plan	1:1,250	1952	6
Ordnance Survey Plan	1:2,500	1953	7
Ordnance Survey Plan	1:1,250	1958 - 1962	8
Ordnance Survey Plan	1:1,250	1964 - 1968	9
Ordnance Survey Plan	1:1,250	1967 - 1974	10
Ordnance Survey Plan	1:2,500	1969	11
Ordnance Survey Plan	1:1,250	1971	12
Additional SIMs	1:1,250	1978 - 1991	13
Additional SIMs	1:1,250	1988 - 1991	14
Additional SIMs	1:1,250	1991	15
Large-Scale National Grid Data	1:1,250	1993	16
Large-Scale National Grid Data	1:1,250	1995	17
Large-Scale National Grid Data	1:1,250	1996	18
Historical Aerial Photography	1:2,500	2001	19

Historical Map - Segment A13



Order Details

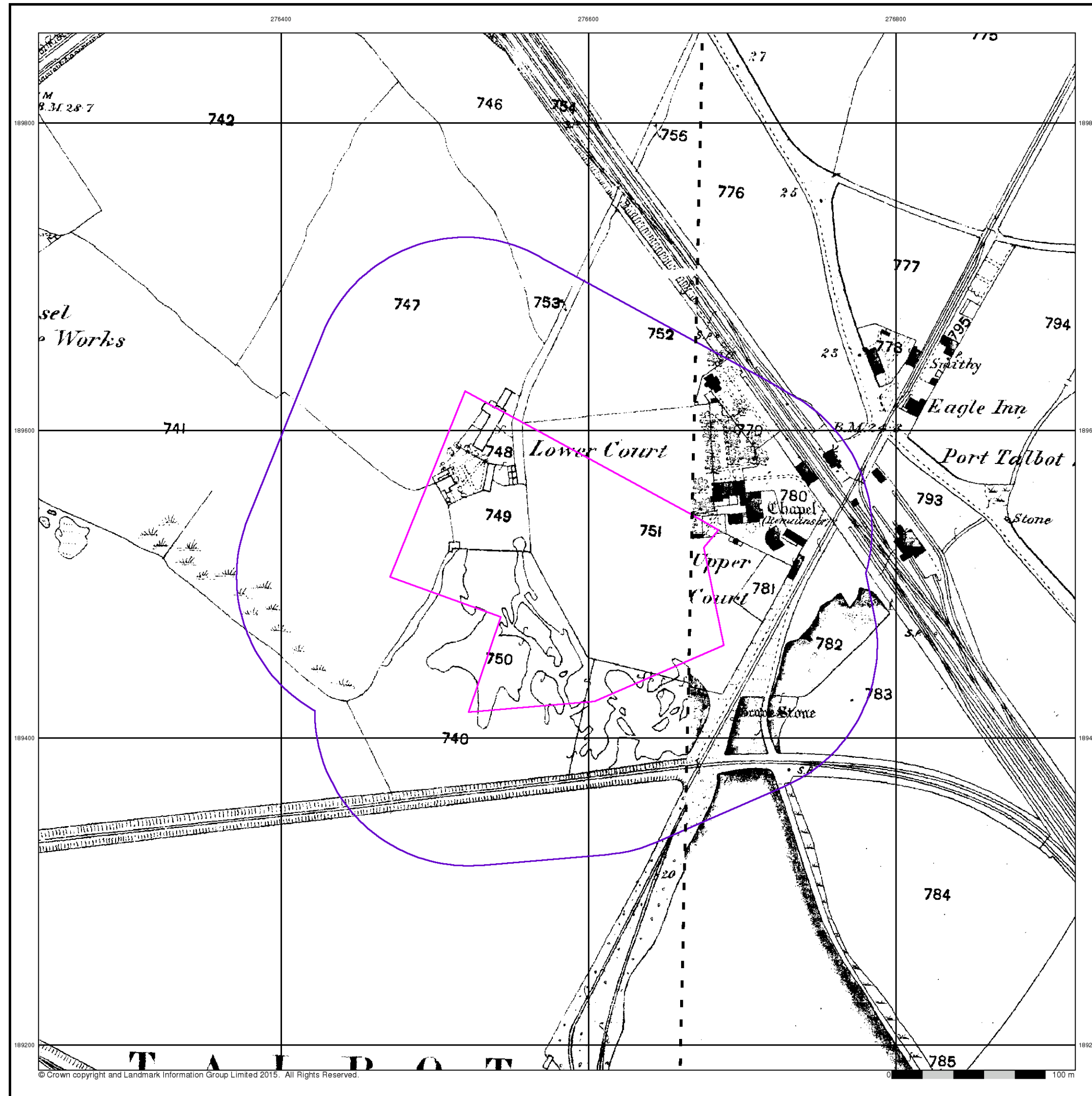
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Site Details

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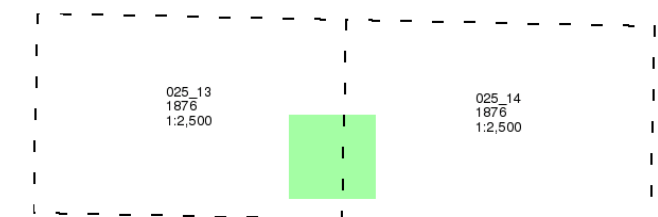
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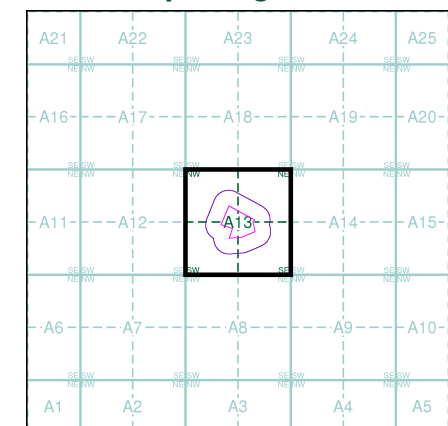


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 128172853_1_1
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National Grid Reference: 276580, 189510
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Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

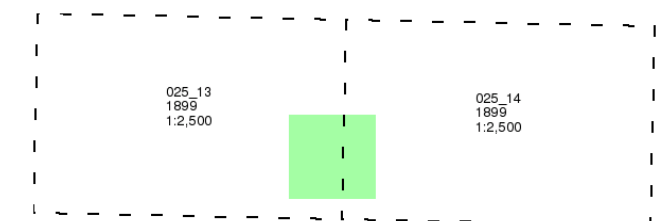
Glamorganshire

Published 1899

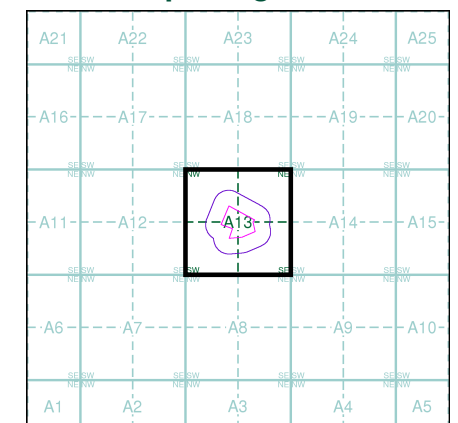
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Map Name(s) and Date(s)



Historical Map - Segment A13

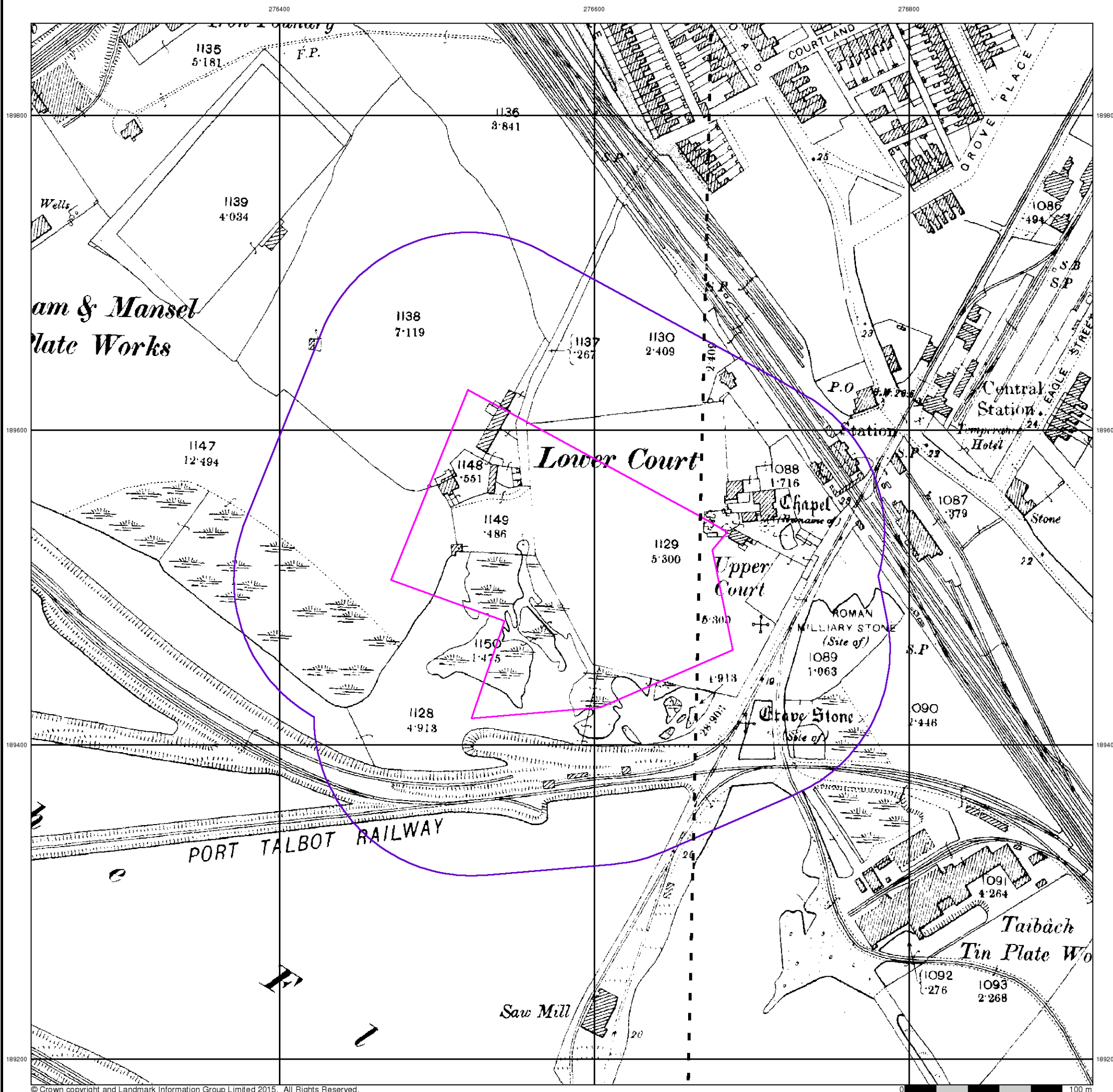


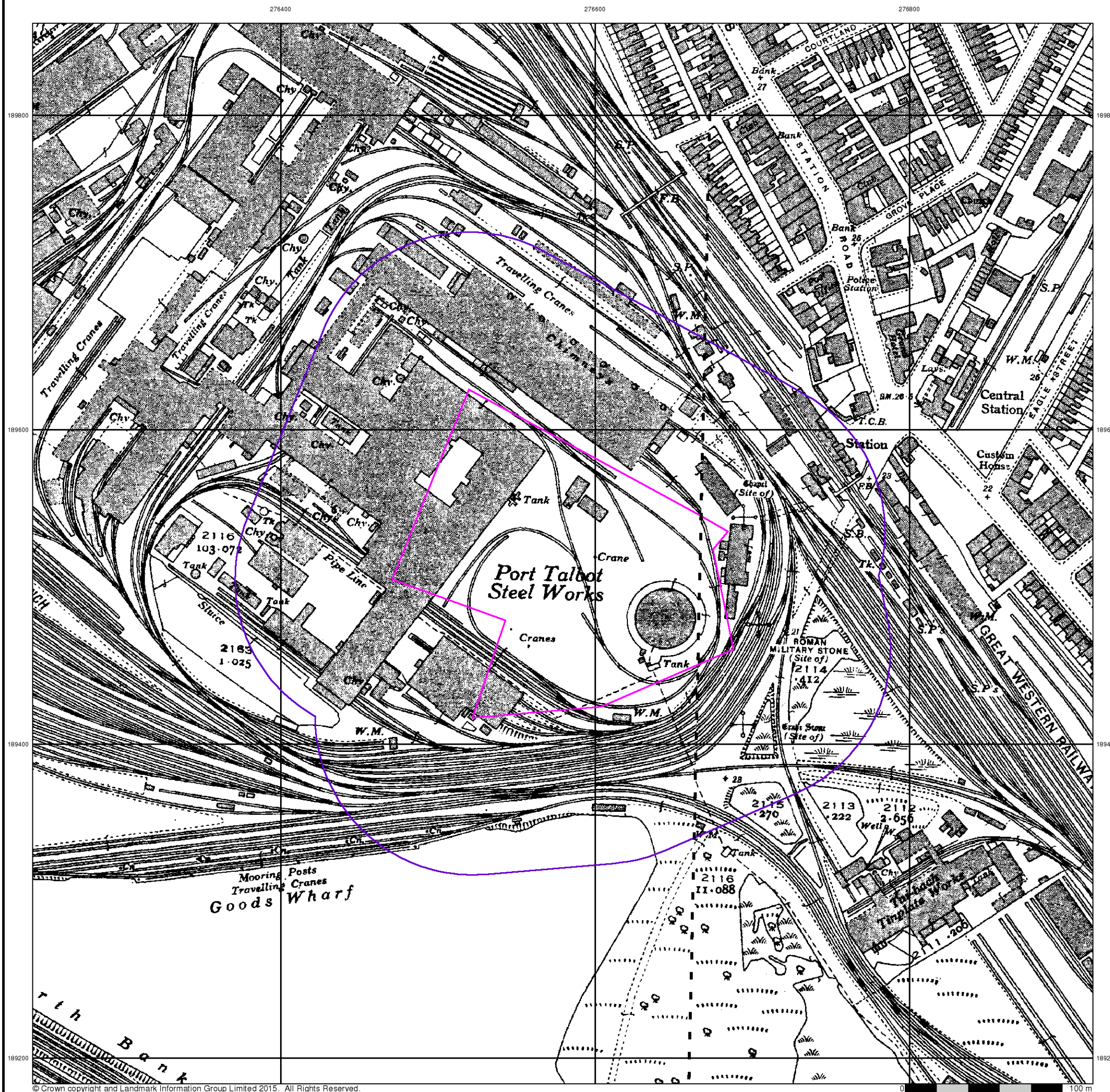
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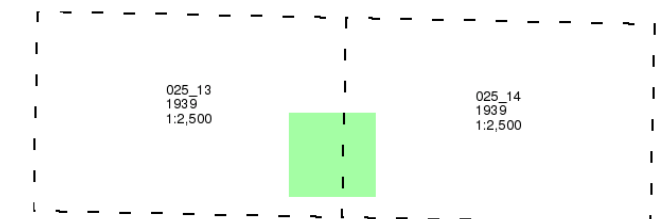
Glamorganshire

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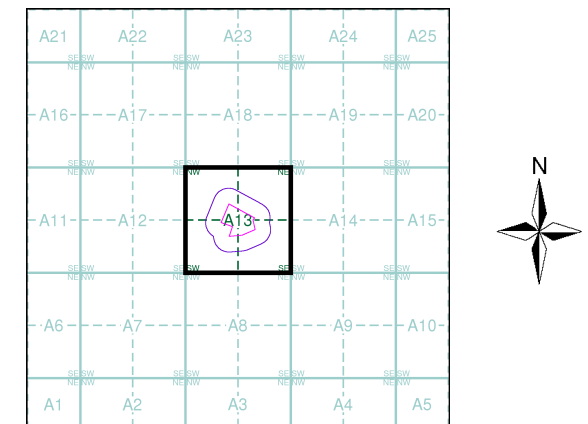
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Map Name(s) and Date(s)



Historical Map - Segment A13



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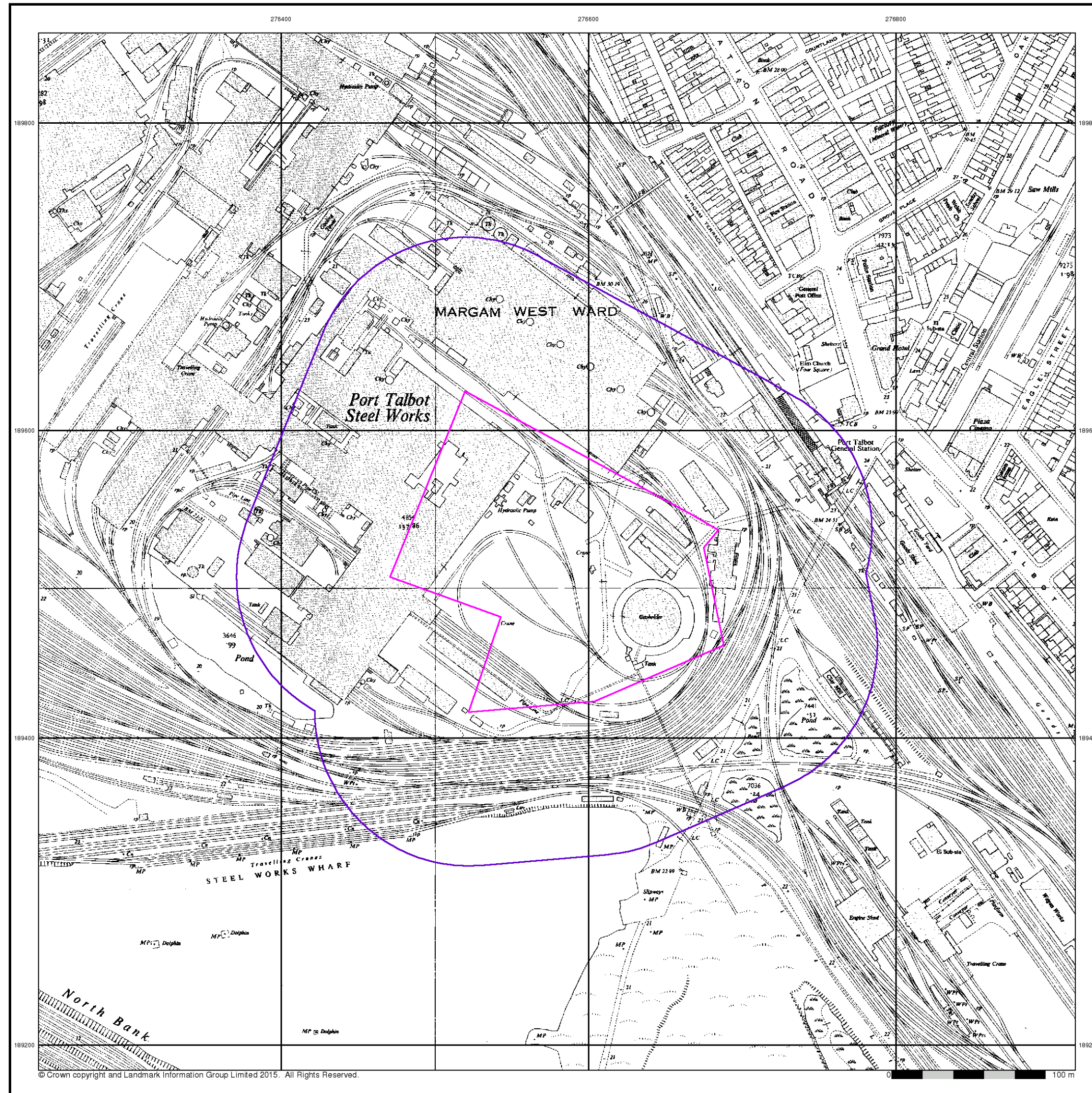
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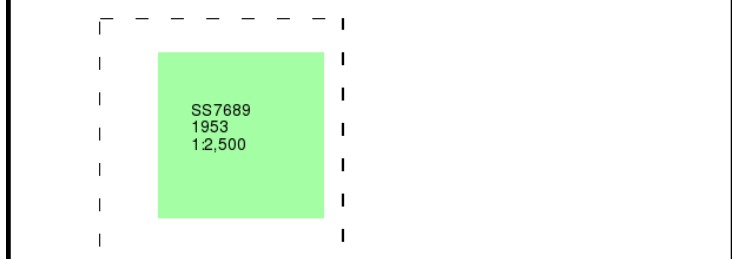
Ordnance Survey Plan

Published 1953

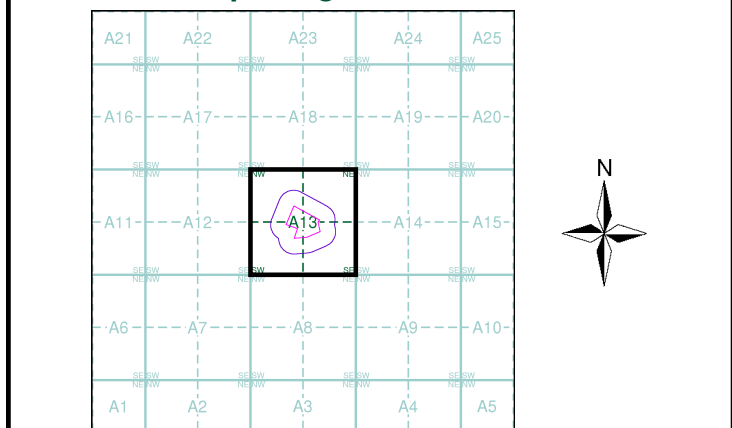
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



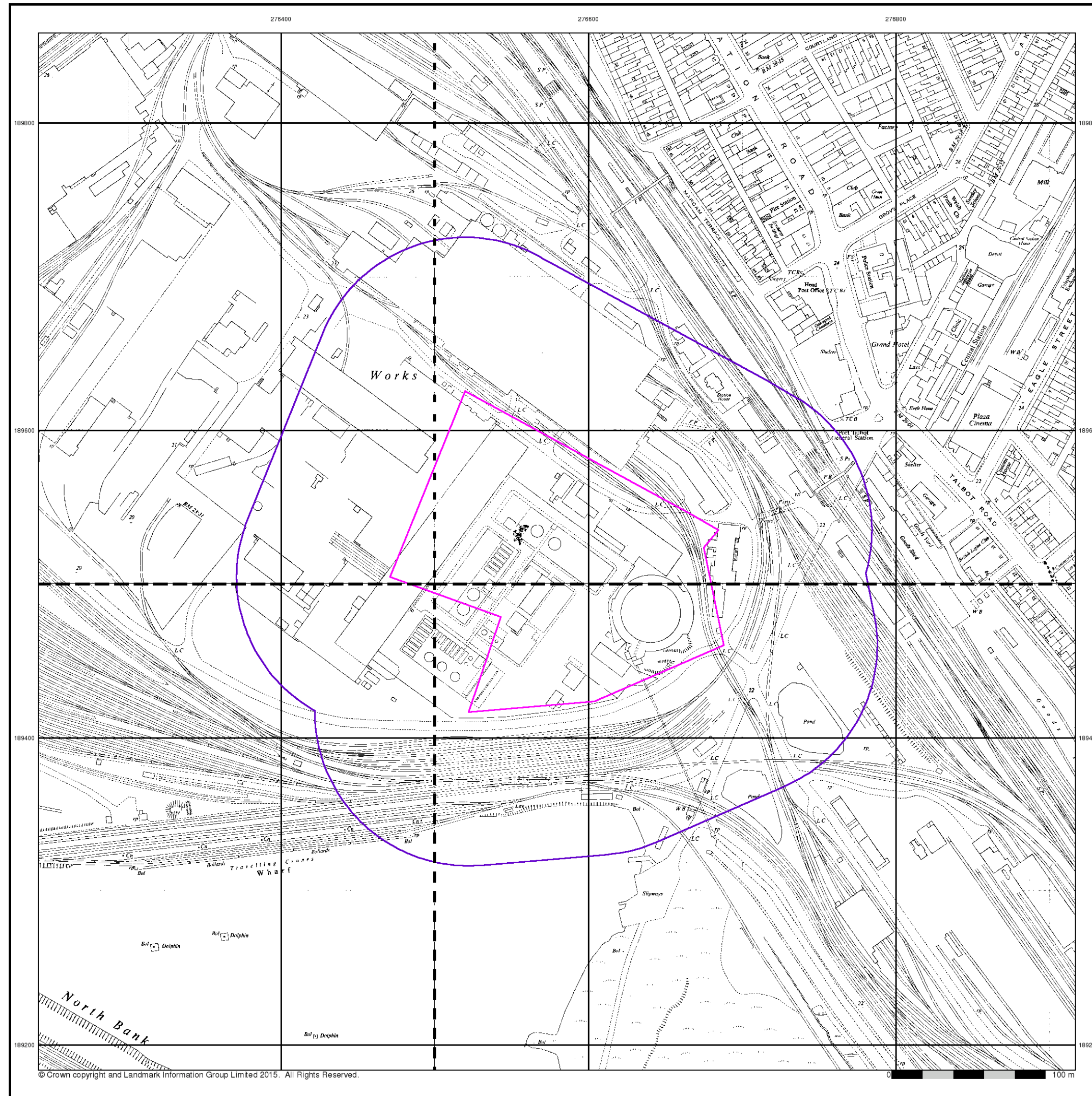
Order Details

Order Number: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 100

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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INFORMATION GROUP
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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Ordnance Survey Plan

Published 1958 - 1962

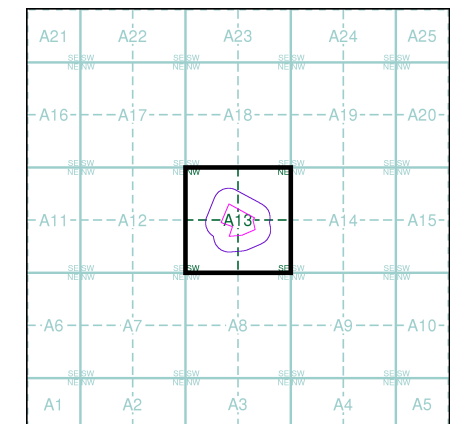
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SS7689NW	SS7689NE
1958	1962
1:1,250	1:1,250
SS7689SW	SS7689SE
1962	1962
1:1,250	1:1,250

Historical Map - Segment A13

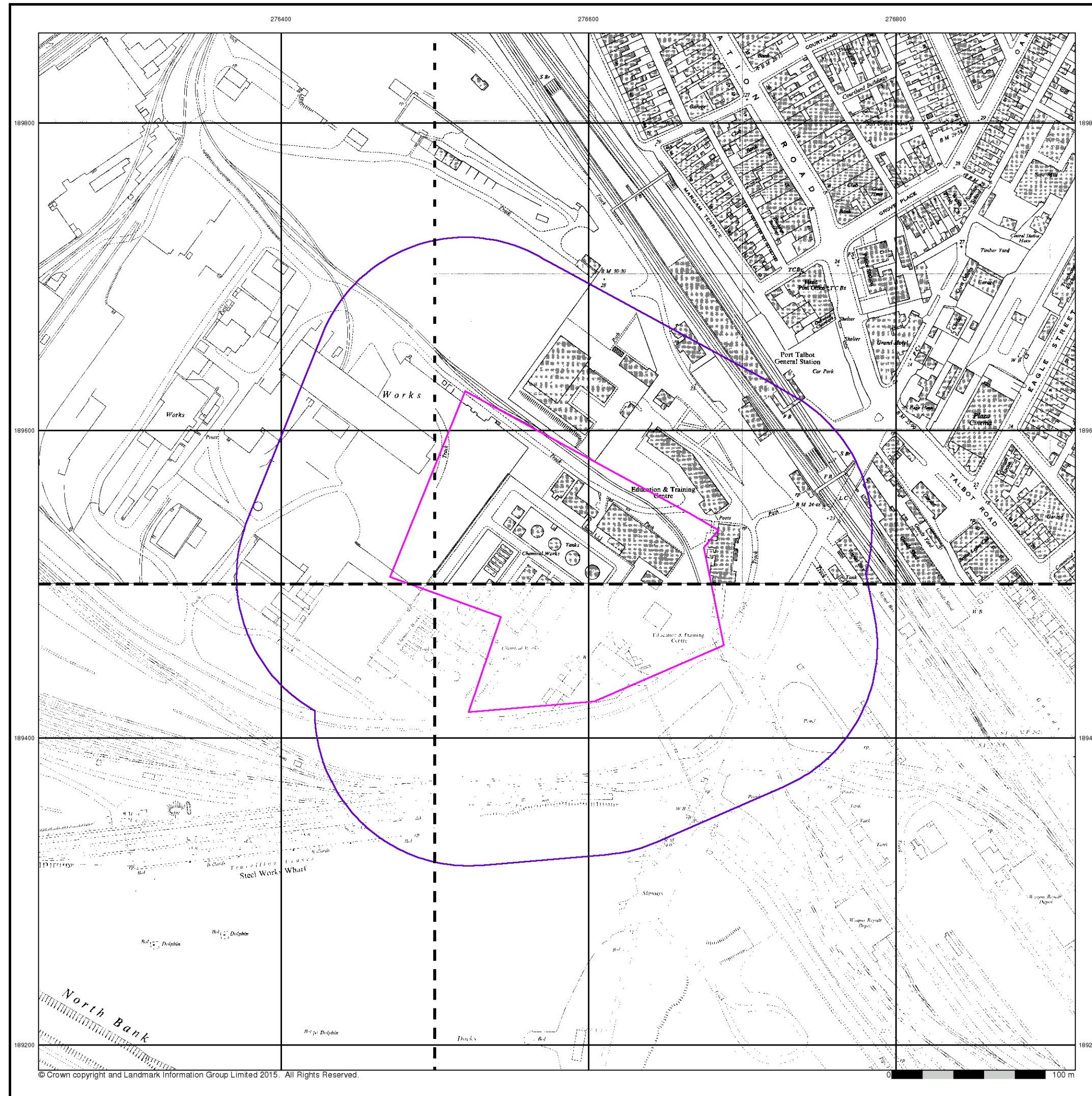


Order Details

Order Number: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 100

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB



Ordnance Survey Plan

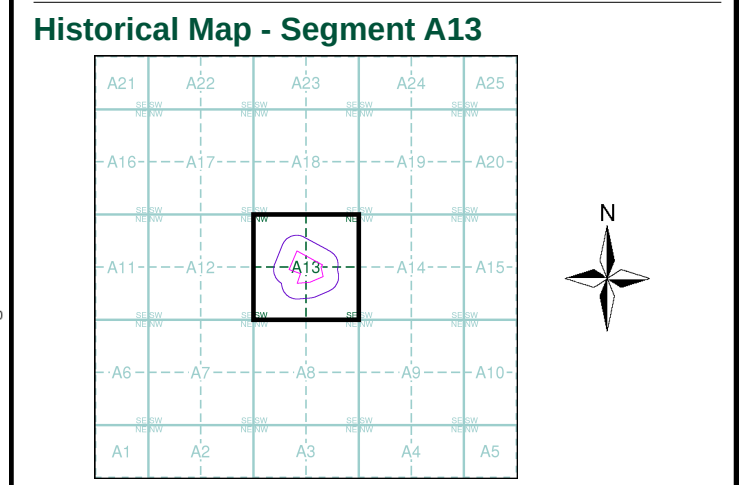
Published 1964 - 1968

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SS7689NW 1964 1:1,250	SS7689NE 1968 1:1,250
SS7689SW 1967 1:1,250	SS7689SE 1967 1:1,250



Order Details

Order Number:

128172853_1_1

Customer Ref:

V-C8602.00

National Grid Reference:

276580, 189510

Slice:

A

Site Area (Ha):

2.7

Search Buffer (m):

100

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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0844 844 9952

Fax:

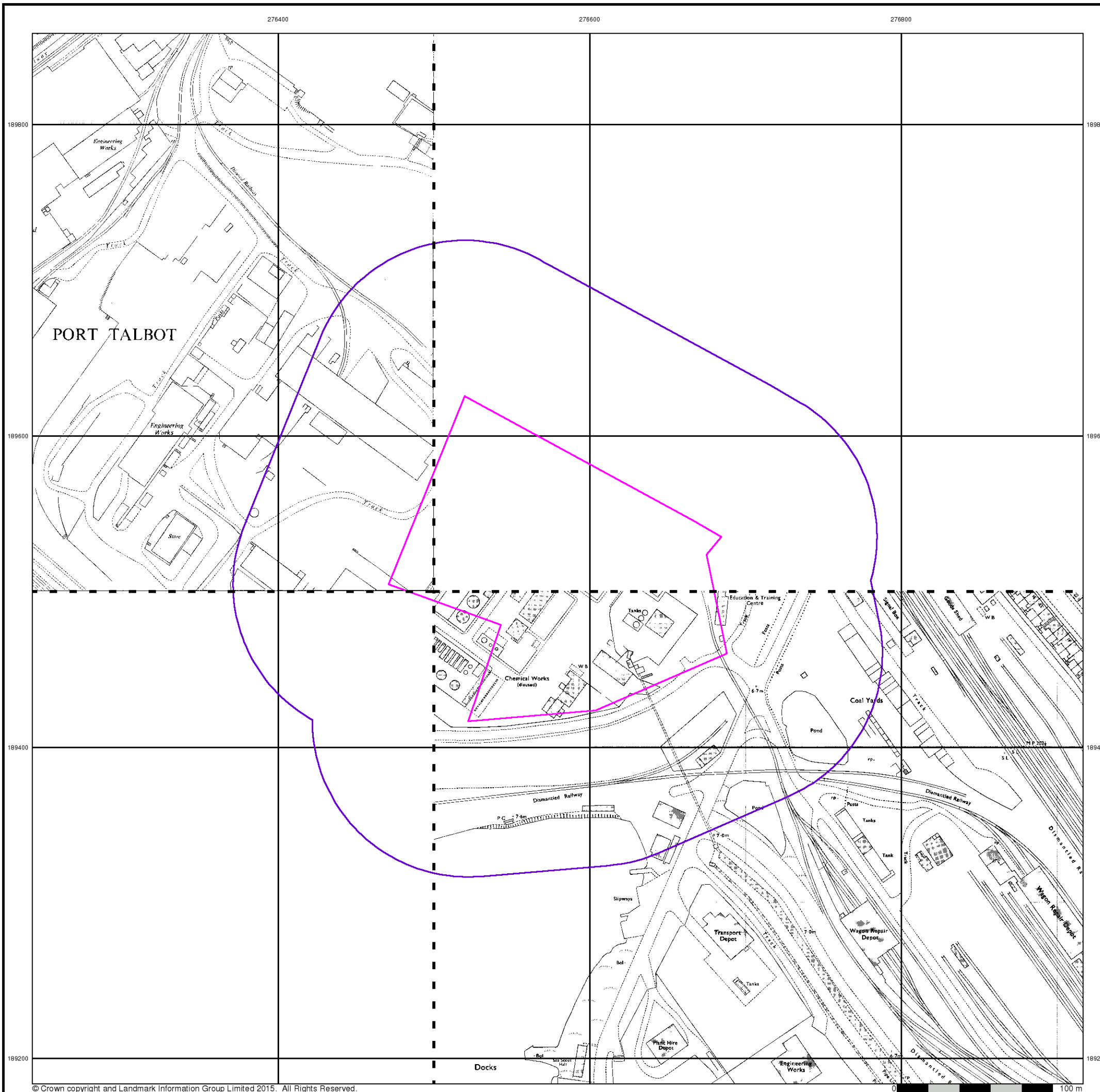
0844 844 9951

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www.envirocheck.co.uk

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Page 9 of 19



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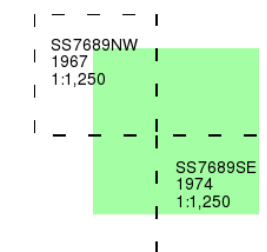
Ordnance Survey Plan

Published 1967 - 1974

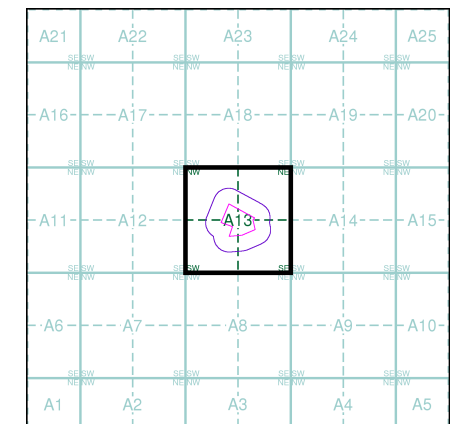
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

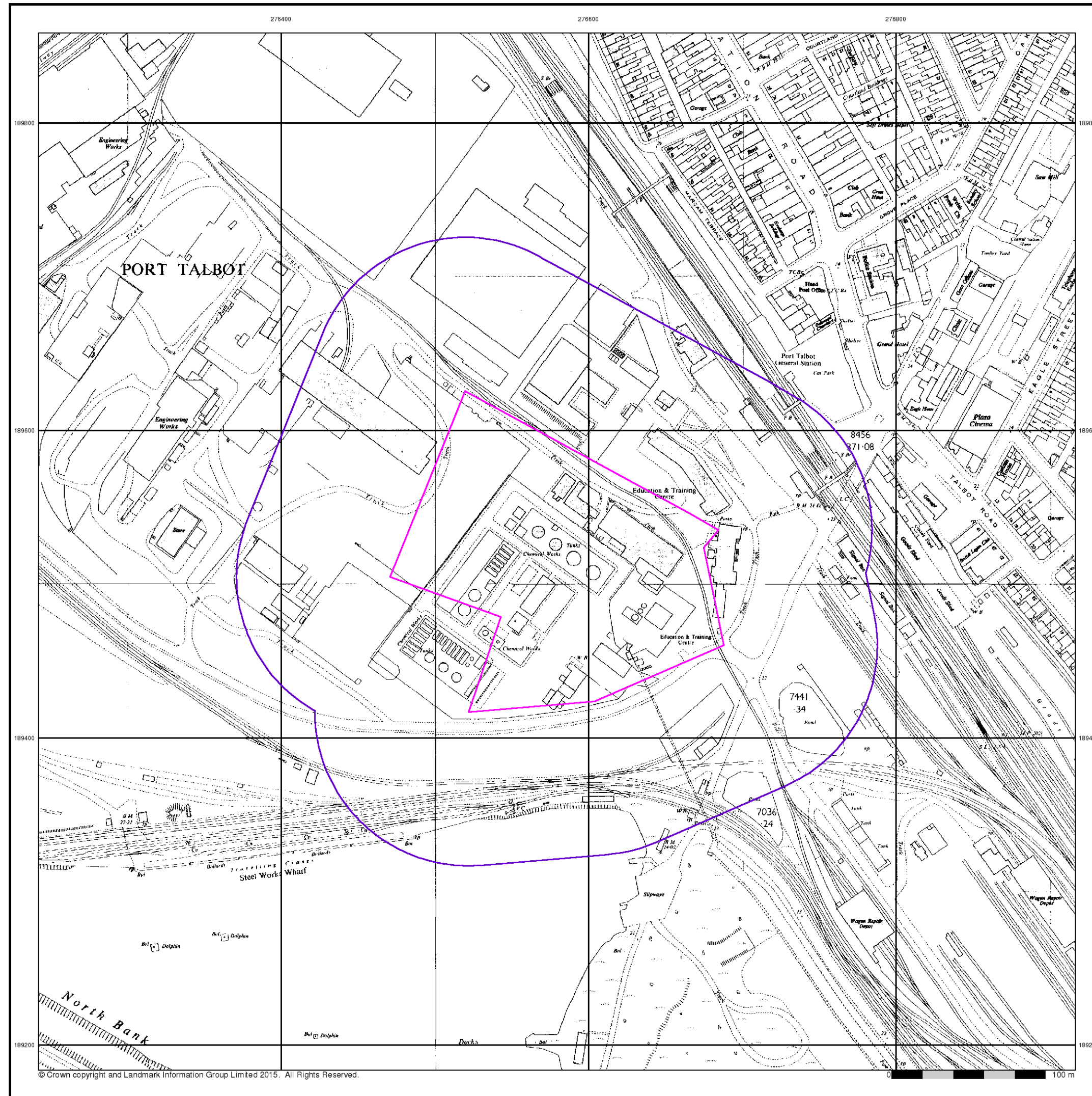
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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 100

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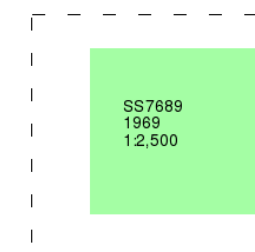
Ordnance Survey Plan

Published 1969

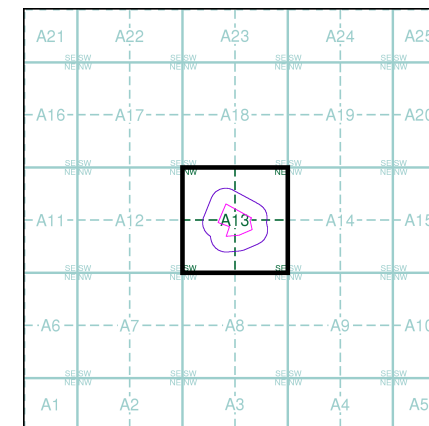
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 128172853_1_1

Customer Ref: V-C8602.00

National Grid Reference: 276580, 189510

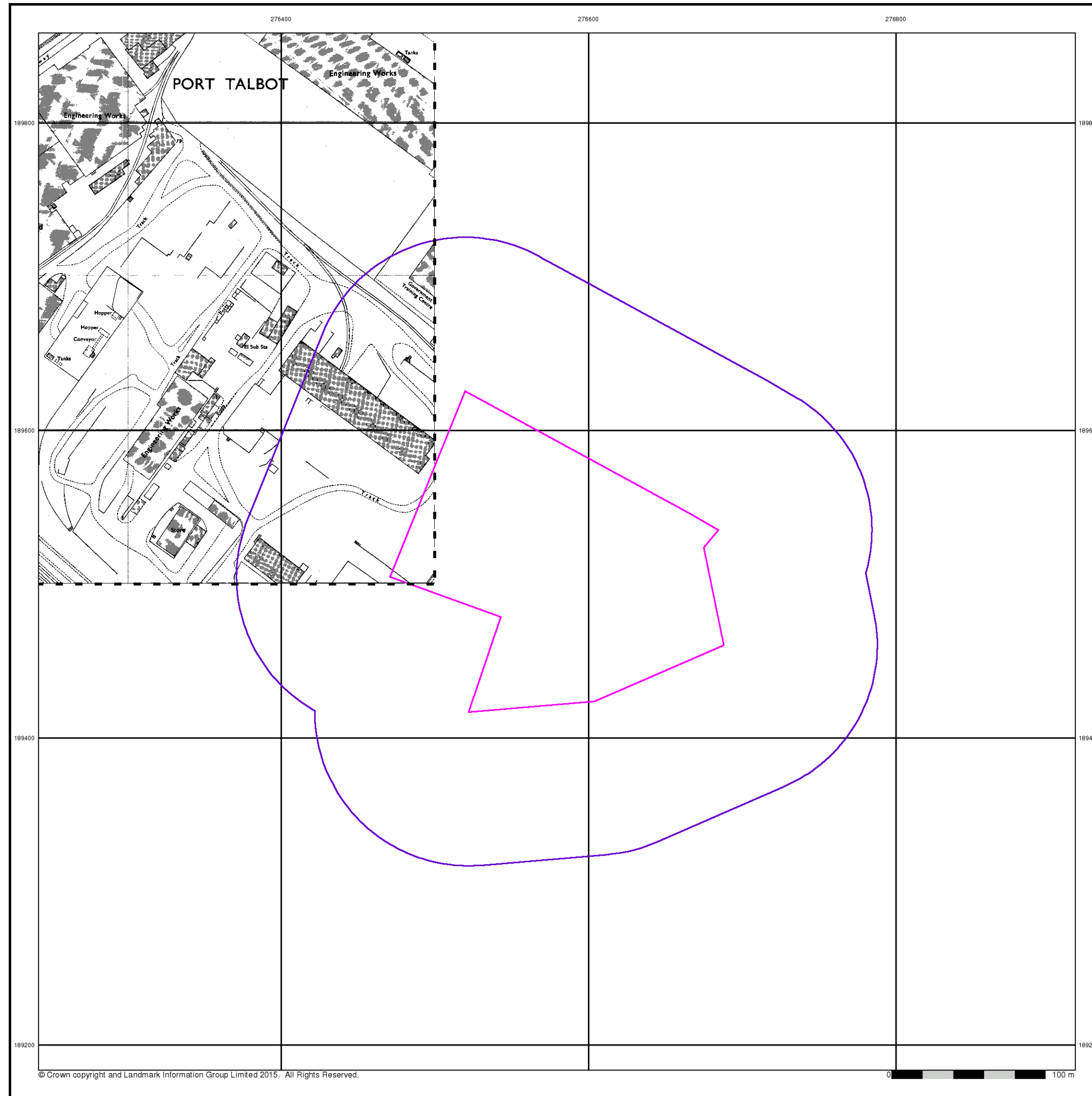
Slice: A

Site Area (Ha): 2.7

Search Buffer (m): 100

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB



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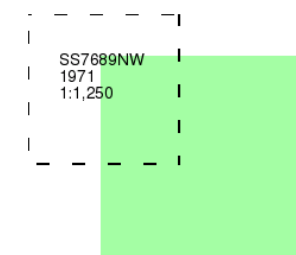
Ordnance Survey Plan

Published 1971

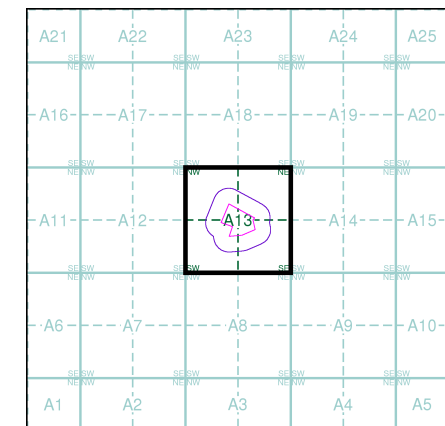
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Map Name(s) and Date(s)



Historical Map - Segment A13

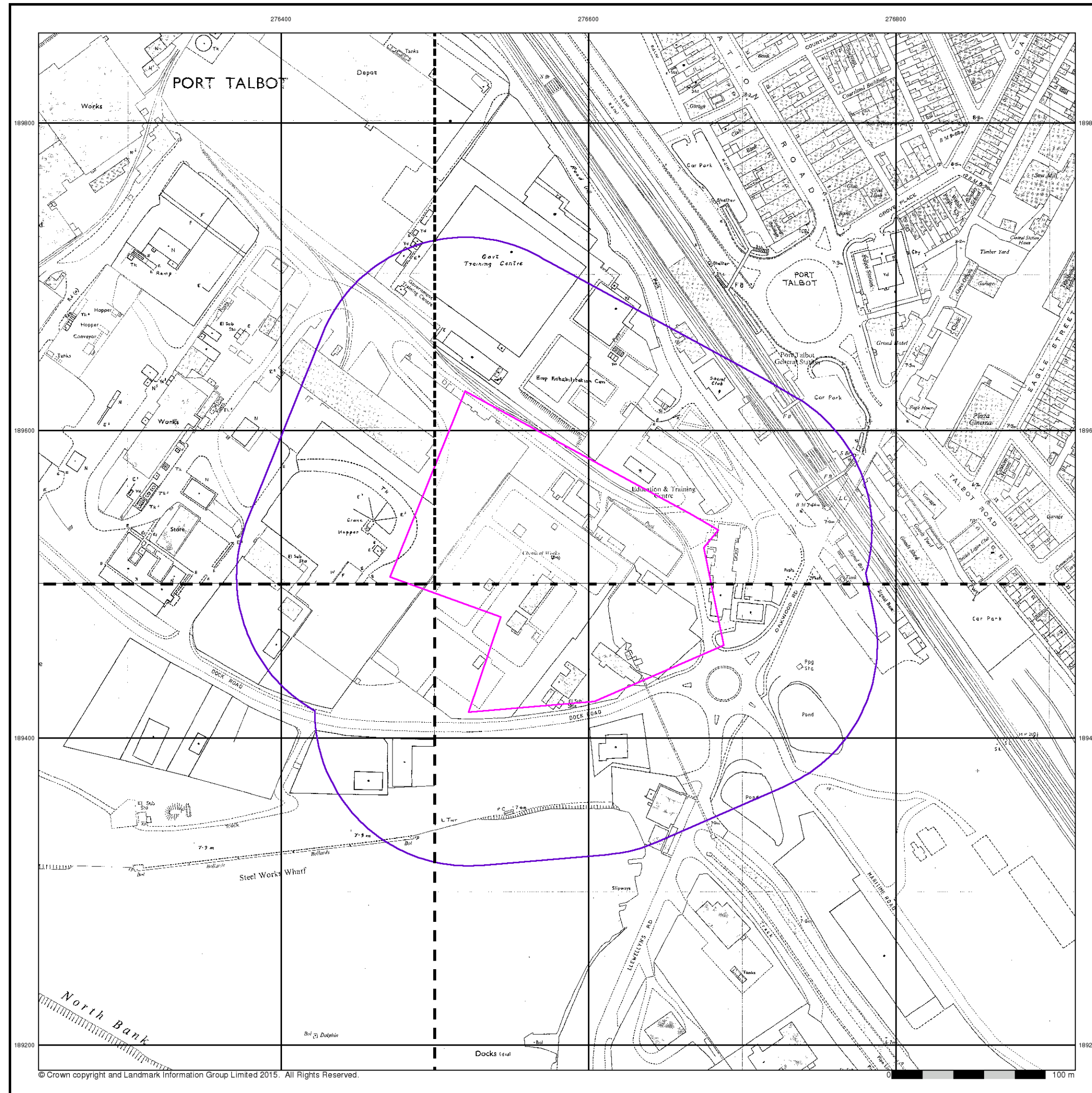


Order Details

Order Number: 128172853_1_1
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National Grid Reference: 276580, 189510
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Search Buffer (m): 100

Site Details

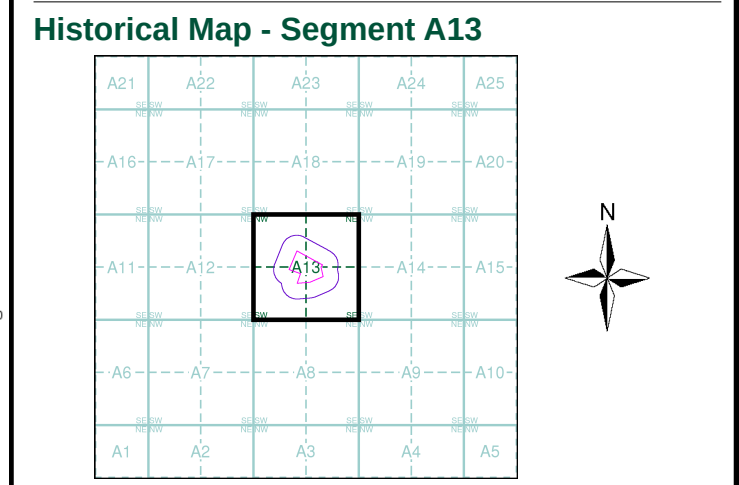
1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB



Additional SIMs
Published 1978 - 1991
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)	
SS7689NW 1979 1:1,250	SS7689NE 1978 1:1,250
SS7689SW 1991 1:1,250	SS7689SE 1988 1:1,250



Order Details

Order Number: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 100

Site Details

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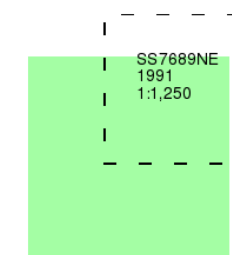
Additional SIMs

Published 1991

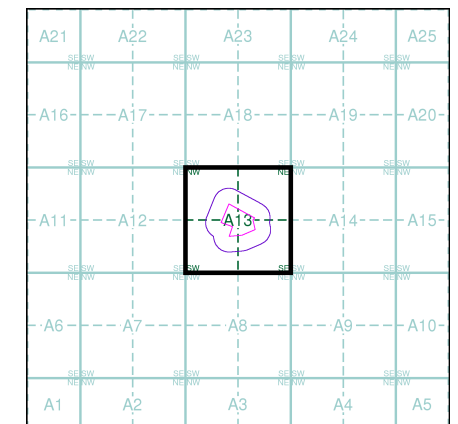
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

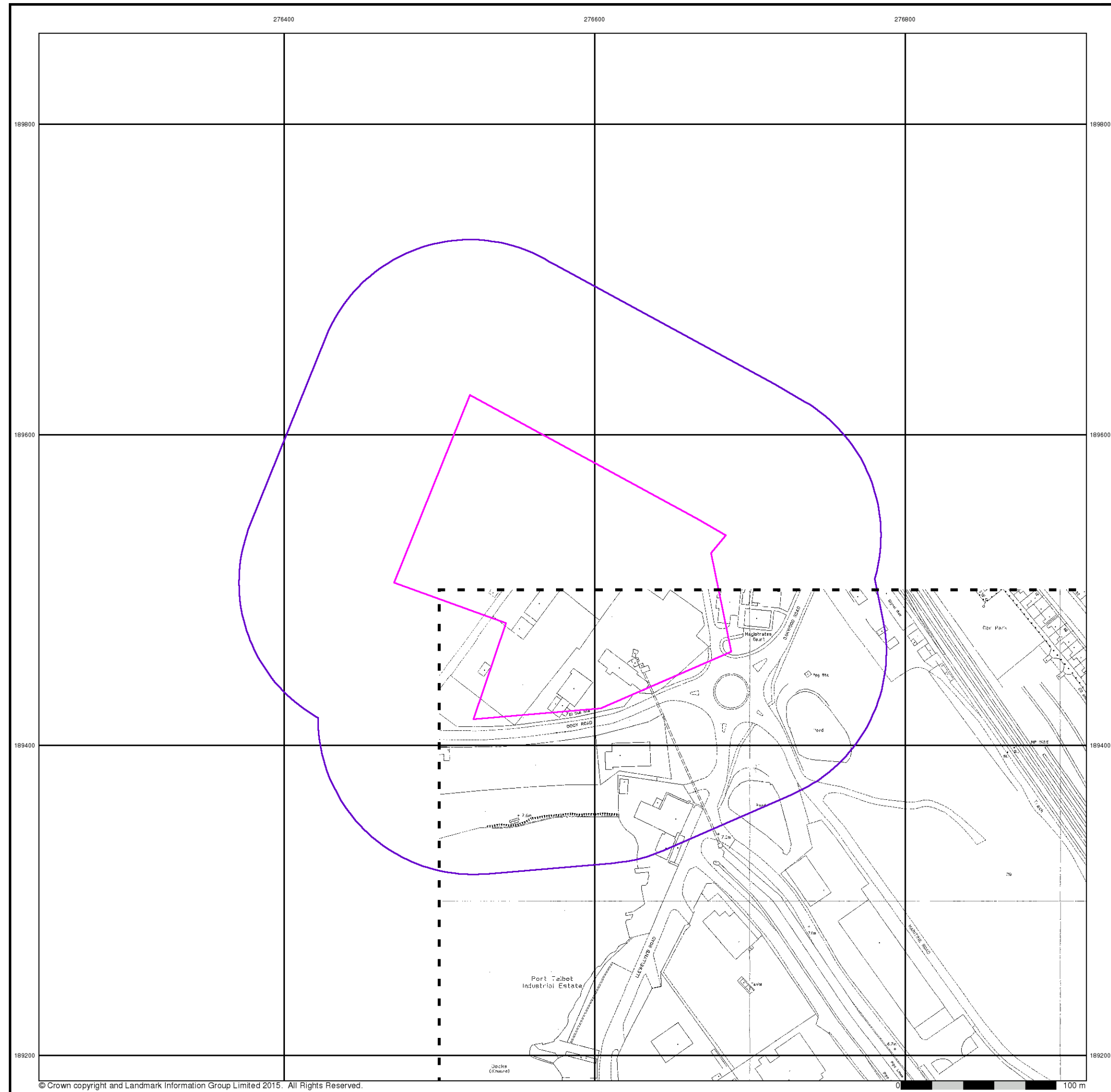


Order Details

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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 100

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Large-Scale National Grid Data

Published 1995

Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SS7689SE
1995
1:1,250

Historical Map - Segment A13

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

Order Details

Order Number:	128172853_1_1
Customer Ref:	V-C8602.00
National Grid Reference:	276580, 189510
Slice:	A
Site Area (Ha):	2.7
Search Buffer (m):	100

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

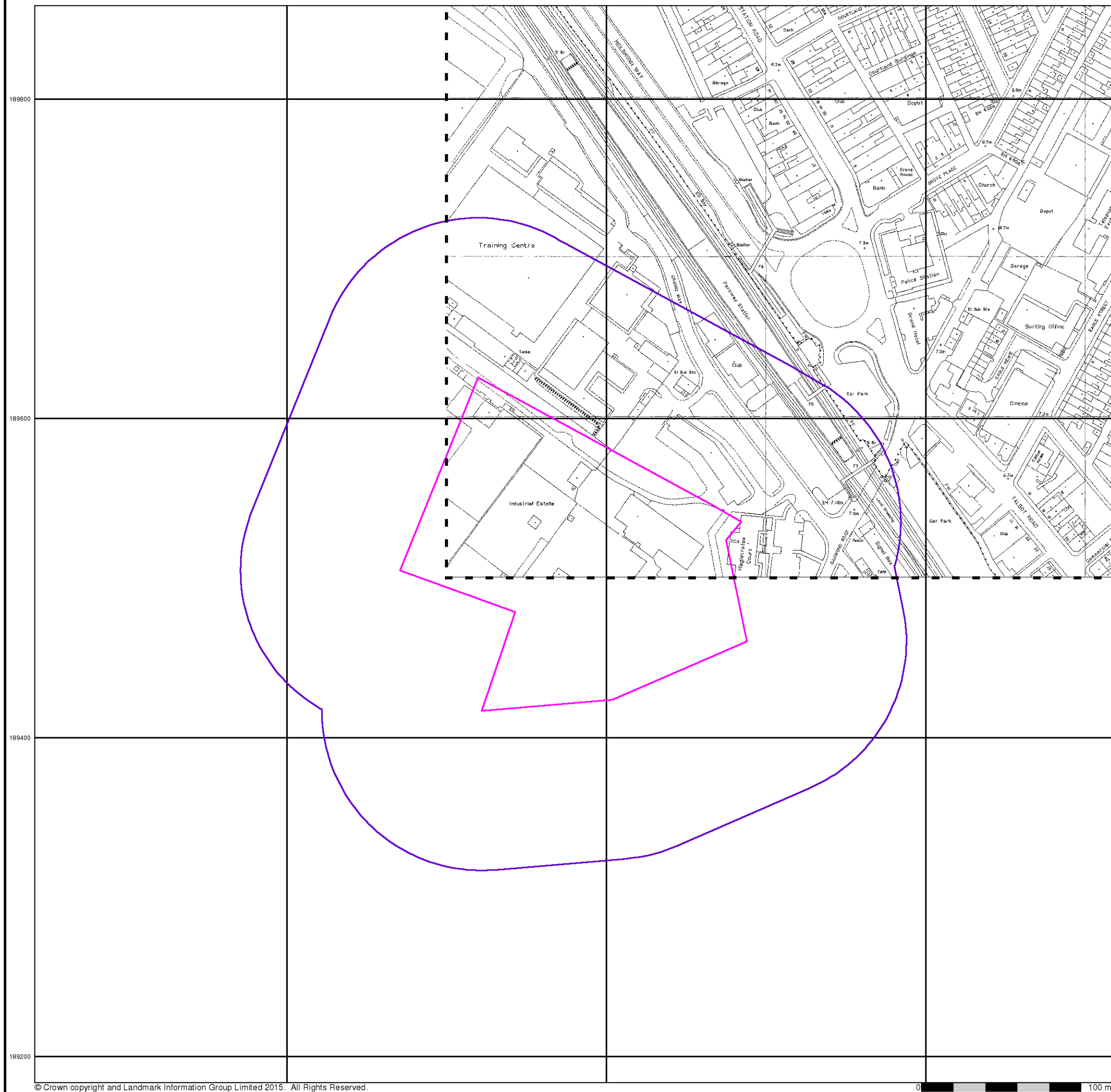
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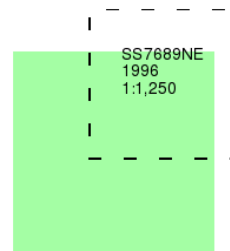
Large-Scale National Grid Data

Published 1996

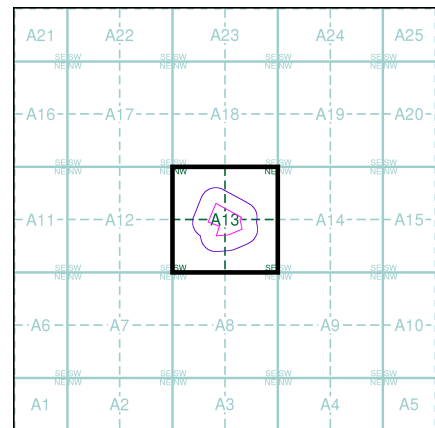
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

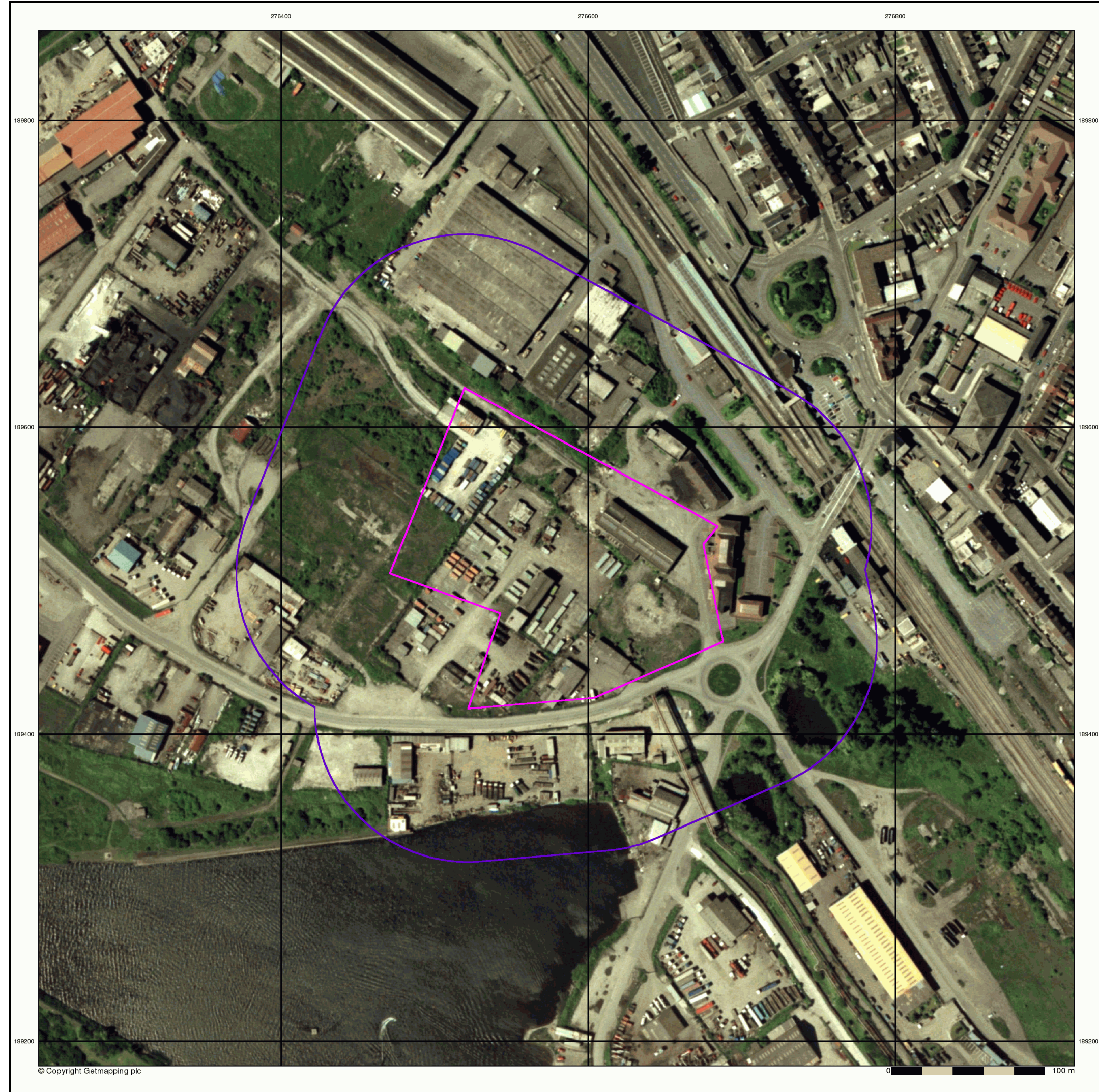
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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 100

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13
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Historical Aerial Photography

Published 2001

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13

A21	A22	A23	A24	A25
A16	A17	A18	A19	A20
A11	A12	A13	A14	A15
A6	A7	A8	A9	A10
A1	A2	A3	A4	A5

Order Details

Order Number:	128172853_1_1
Customer Ref:	V-C8602.00
National Grid Reference:	276580, 189510
Slice:	A
Site Area (Ha):	2.7
Search Buffer (m):	100

Site Details

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Appendix C

Coal Authority Report



The Coal
Authority

Resolving the **impacts** of mining

Non-Residential Coal Mining Consultants Report



1 , LLEWELLYN HOUSE, HARBOURSIDE ROAD, PORT TALBOT,
NEATH PORT TALBOT, SA13 1SB

Date of enquiry:	12 June 2017
Date enquiry received:	12 June 2017
Issue date:	12 June 2017

Our reference:	51001479663001
Your reference:	V-C8602.00

Non-Residential Coal Mining Consultants Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

OPUS INTERNATIONAL CONSULTANTS (UK) LTD

Enquiry address

1, LLEWELLYN HOUSE, HARBOURSIDE ROAD, PORT TALBOT, NEATH PORT TALBOT, SA13 1SB

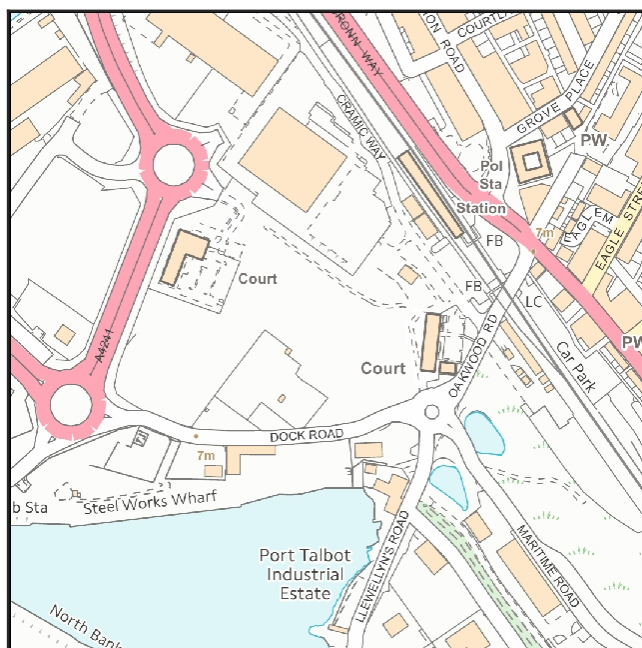
How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority
 /thecoalauthority
 /coalauthority



Approximate position of property



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Detailed findings

Past underground coal mining

None recorded.

Probable unrecorded shallow workings

None.

Outcrops

None recorded.

Spine roadways at shallow depth

None recorded.

Future underground mining

None recorded.

Licence details (AOR)

None recorded.

Section 46 notices

None recorded.

Geology

Fault under or close to the property recorded.

Mine entries

None recorded.

Court orders

None recorded.

Worked out opencast sites

None recorded.

Coal mining related hazards

None recorded.

Coal mining subsidence

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

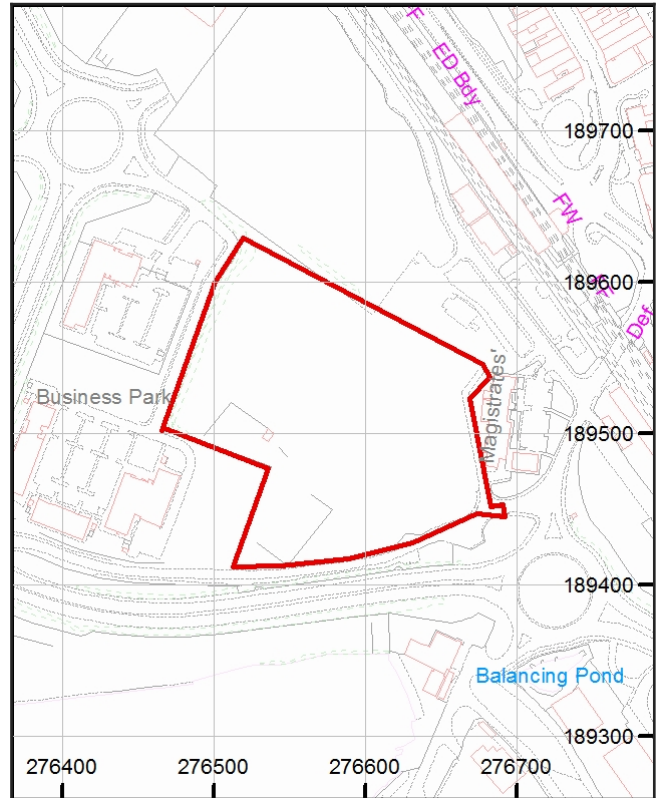
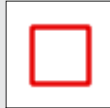
There is no current Stop Notice delaying the start of remedial works or repairs to the property.

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

Enquiry boundary

Key

Approximate position of enquiry boundary shown



How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

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 /coalauthority



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VAT receipt

Issued by	The Coal Authority 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG
Tax point date	12 June 2017
Issued to	OPUS INTERNATIONAL CONSULTANTS (UK) LTD FOUNTAIN COURT FOUNTAIN LANE TROWBRIDGE CARDIFF CF3 0FB
Property search for	1 LLEWELLYN HOUSE HARBOURSIDE ROAD PORT TALBOT NEATH PORT TALBOT SA13 1SB
Reference number	51001479663001
Date of issue	12 June 2017
Cost	£101.70
VAT @ 20%	£20.34
Total received	£122.04
VAT registration	598 5850 68

Appendix D

Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

128172853_1_1

Customer Reference:

V-C8602.00

National Grid Reference:

276580, 189510

Slice:

A

Site Area (Ha):

2.7

Search Buffer (m):

1000

Site Details:

1, Llewellyn House
Harbourside Road
PORT TALBOT
SA13 1SB

Client Details:

Mr J Peacock
Opus International Consultants (UK) Ltd
Unit 2 Fountain Court
Fountain Lane
St Mellons
Cardiff
CF3 0FB

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	49
Hazardous Substances	55
Geological	56
Industrial Land Use	63
Sensitive Land Use	-
Data Currency	88
Data Suppliers	93
Useful Contacts	94

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		6	5	59
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 18		5		1
Integrated Pollution Prevention And Control	pg 19		2		1
Local Authority Integrated Pollution Prevention And Control	pg 20				1
Local Authority Pollution Prevention and Controls	pg 20		3		5
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 21		Yes		
Pollution Incidents to Controlled Waters	pg 21		7	1	17
Prosecutions Relating to Authorised Processes	pg 26		1	1	
Registered Radioactive Substances					
River Quality	pg 26			2	3
River Quality Biology Sampling Points	pg 27				1
River Quality Chemistry Sampling Points	pg 28			1	3
Substantiated Pollution Incident Register	pg 31		1	1	1
Water Abstractions	pg 32				19
Water Industry Act Referrals					
Groundwater Vulnerability	pg 36	Yes	n/a	n/a	n/a
Drift Deposits	pg 36	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 36	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 36	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 36	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 37	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 42			23	38

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 49			8	
Local Authority Landfill Coverage	pg 50	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 50				2
Potentially Infilled Land (Water)	pg 50	1	2	2	32
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 53			3	
Registered Waste Treatment or Disposal Sites	pg 54		1		
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 55				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 55				1
Planning Hazardous Substance Consents	pg 55				1
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 56	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 56	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 59				7
BGS Urban Soil Chemistry	pg 61				Yes
BGS Urban Soil Chemistry Averages	pg 61		Yes		
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 62	Yes	n/a	n/a	n/a
Mining Instability	pg 62	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 62		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 62		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 62	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 62		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 62	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 63	2	43	54	58
Fuel Station Entries	pg 76		1		5
Points of Interest - Commercial Services	pg 77		13	13	16
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 80	1	9	11	26
Points of Interest - Public Infrastructure	pg 84		8	10	12
Points of Interest - Recreational and Environmental	pg 87				9
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	0	1	276550 189550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (NE)	0	1	276576 189513
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	185	1	276350 189350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	325	1	276200 189700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	375	1	276576 190000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	449	1	276750 189000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	489	1	276150 189100
1	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055729 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	28	2	276500 189400
2	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055706 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (S)	123	2	276600 189300
2	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055721 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 5th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (S)	123	2	276600 189300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055707 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 16th December 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (S)	223	2	276600 189200
3	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055722 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 10th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (S)	223	2	276600 189200
3	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055723 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (S)	223	2	276600 189200
4	Discharge Consents Operator: Short Bros (Plant) Ltd, Property Type: General Construction Work Location: Llewellyn Quay P Talbot Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0028901 Permit Version: 1 Effective Date: 2nd October 1986 Issued Date: 2nd October 1986 Revocation Date: 21st April 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Soakaway Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	288	2	276830 189210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Mechema Chemicals Ltd Property Type: Basic Industry, Chemicals Inorganic Location: Port Talbot Talbot Wharf Chemical W, Talbot Wharf Chemical Works W.GI, W.Glam Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0096301 Permit Version: 1 Effective Date: 17th August 1988 Issued Date: 17th August 1988 Revocation Date: 27th June 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: To Land Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8NE (S)	338	2	276700 189100
6	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: Unknown Reference: Bp0055701 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 17th September 1987 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A8NW (S)	418	2	276500 189000
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055727 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	452	2	276200 189100
8	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Port Talbot Docks - Security B Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055705 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 16th December 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A12NE (W)	481	2	276000 189600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Tarmac Topmix Site Authority: Natural Resources Wales Catchment Area: River Afan Reference: BP0055730 Permit Version: 2 Effective Date: 21st January 1993 Issued Date: 21st October 1992 Revocation Date: 14th July 2008 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: River Ffrwdwyllt (Tidal) Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	507	2	276900 189000
9	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Tarmac Topmix Site Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055730 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ffrwdwyllt (Tidal) Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	507	2	276900 189000
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Abbey Bsc Works Authority: Natural Resources Wales Catchment Area: Not Given Reference: BO5081401 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 31st March 2004 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Betsi Lagoon Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A12NE (W)	510	2	276000 189700
11	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055715 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8NW (S)	531	2	276400 188900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks - Overflow F Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055728 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	548	2	276000 189800
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso No 126 Moors St Culvert Afan, Moors Street Culvert, Neath Port Talbot Cbc Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0240201 Permit Version: 2 Effective Date: 12th March 2003 Issued Date: 11th March 2003 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: The Afon Afan Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (W)	575	2	275937 189716
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Moors Culvert 30 Metres U/S Road Br, 30 Metres U/S Road Bridge Abera, Aberavon Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0240201 Permit Version: 1 Effective Date: 21st July 1994 Issued Date: 21st July 1994 Revocation Date: 11th March 2003 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Afan Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	590	2	275950 189790
15	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Lock Levelling Water Taken From R F, Water Taken From R Ffrwdwyllt Fo, For Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055733 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 10th May 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ffrwdwyllt Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	599	2	276900 188900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Discharge Consents Operator: Associated British Ports Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Metal Mend Ltd Port Talbot Docks, Porta Talbot Docks, Neath Port Talbot, Wales Authority: Natural Resources Wales Catchment Area: River Afan Reference: BP0055712 Permit Version: 2 Effective Date: 21st January 1993 Issued Date: 21st October 1992 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Controlled Sea Environment: Receiving Water: Port Talbot Docks Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	618	2	276500 188800
16	Discharge Consents Operator: Associated British Ports Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Metal Mend Ltd Port Talbot Docks, Porta Talbot Docks, Neath Port Talbot, Wales Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055712 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A8SW (S)	618	2	276500 188800
16	Discharge Consents Operator: Associated British Ports Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Metal Mend Ltd Port Talbot Docks, Porta Talbot Docks, Neath Port Talbot, Wales Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055714 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SW (S)	618	2	276500 188800
16	Discharge Consents Operator: Associated British Ports Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Metal Mend Ltd Port Talbot Docks, Porta Talbot Docks, Neath Port Talbot, Wales Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055725 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SW (S)	618	2	276500 188800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Discharge Consents Operator: Associated British Ports Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Metal Mend Ltd Port Talbot Docks, Porta Talbot Docks, Neath Port Talbot, Wales Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055726 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SW (S)	618	2	276500 188800
16	Discharge Consents Operator: Associated British Ports Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Metal Mend Ltd Port Talbot Docks, Porta Talbot Docks, Neath Port Talbot, Wales Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055731 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SW (S)	618	2	276500 188800
16	Discharge Consents Operator: Associated British Ports Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Metal Mend Ltd Port Talbot Docks, Porta Talbot Docks, Neath Port Talbot, Wales Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055732 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SW (S)	618	2	276500 188800
17	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: John Nicholas Timber Site Authority: Natural Resources Wales Catchment Area: River Afan Reference: BP0055713 Permit Version: 2 Effective Date: 21st January 1993 Issued Date: 21st October 1992 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Port Talbot Docks Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	629	2	276400 188800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: John Nicholas Timber Site Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055713 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A8SW (S)	629	2	276400 188800
18	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Talbot Wharf, The Docks, Port Talbot, Neath Port Talbot, Sa13 1re Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bm0033601 Permit Version: 2 Effective Date: 26th November 2012 Issued Date: 26th November 2012 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Land/Soakaway Environment: Receiving Water: To Underground Strata Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	641	2	275990 189060
18	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Talbot Wharf, The Docks, Port Talbot, Neath Port Talbot, Sa13 1re Authority: Natural Resources Wales Catchment Area: Not Given Reference: BM0033601 Permit Version: 1 Effective Date: 17th November 1983 Issued Date: 17th November 1983 Revocation Date: 25th November 2012 Discharge Type: Unspecified Discharge: Land/Soakaway Environment: Receiving Water: To Underground Strata Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	641	2	275990 189060
19	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Isaacs Plice Sjc Port T Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bb4025506 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: 14th March 1994 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A12NW (W)	643	2	275850 189670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: Pt Talbot Wks Blast F'Ces Gas Wash, Blast F'Ces Gas Wash Water-Aba Authority: Natural Resources Wales Catchment Area: River Afan Reference: Ba2020101 Permit Version: 1 Effective Date: 28th August 1965 Issued Date: 28th August 1965 Revocation Date: 22nd January 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ffrwdwyllt Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	688	2	277100 188910
21	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Afan Wwtw Phoenix Wharf Harbour Rd, Port Talbot Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp028760101 Permit Version: 1 Effective Date: 1st December 2000 Issued Date: 1st December 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Unspecified - Water Company Discharge: Controlled Sea Environment: Receiving Water: Swansea Bay Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	720	2	276690 188709
21	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: Oil Tank Farm Bsc Por Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0059205 Permit Version: 1 Effective Date: 16th September 1987 Issued Date: 16th September 1987 Revocation Date: 30th June 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	731	2	276700 188700
22	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Phoenix Wharf Surface Water Port, Port Talbot Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0043001 Permit Version: 2 Effective Date: 7th July 1987 Issued Date: 7th July 1987 Revocation Date: 31st October 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Phoenix Wharf Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	721	2	276600 188700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Phoenix Wharf Surface Water Port, Port Talbot Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0043001 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 6th July 1987 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Phoenix Wharf Docks Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A8SE (S)	721	2	276600 188700
23	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Water St.Cjc Port Talb Authority: Natural Resources Wales Catchment Area: River Afan Reference: BB4025505 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12NW (W)	726	2	275760 189650
23	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Henshaw St.Sjc. Port T Authority: Natural Resources Wales Catchment Area: River Afan Reference: BB4025504 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: 31st March 2004 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A12NW (W)	746	2	275740 189650
24	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055716 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	748	2	276100 188800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: No 3 Blast Furnace Port Talbot Work, Port Talbot Works Port Talbot Authority: Natural Resources Wales Catchment Area: Not Given Reference: Ba2020002 Permit Version: 1 Effective Date: 1st January 1950 Issued Date: 16th June 1994 Revocation Date: 20th September 1995 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: The Culverted River Ffrwdwyllt Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	754	2	277130 188850
25	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: No 3 Blast Furnace Port Talbot Work, Port Talbot Works Port Talbot Authority: Natural Resources Wales Catchment Area: River Afan Reference: Ba2020001 Permit Version: 1 Effective Date: 28th August 1963 Issued Date: 28th August 1963 Revocation Date: 9th June 1994 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Ffrwdwyllt Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	754	2	277130 188850
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso 136 Afan Street Velindre Afan, Afan Street, Velindre Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0304101 Permit Version: 1 Effective Date: 29th January 2003 Issued Date: 29th January 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The Afon Afan Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NE (N)	823	2	276810 190395
27	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso 104 Newbridge Road Pumping Stat, Newbridge Road Pumping Station, Port Talbot, Neath Port Talbot Cbc Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bb4025501 Permit Version: 2 Effective Date: 1st April 2004 Issued Date: 31st March 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Afan Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NW (W)	844	2	275632 189598

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Swo.North St.Footbridge Pt.Tal Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bw0203101 Permit Version: 1 Effective Date: 27th October 1952 Issued Date: 27th October 1952 Revocation Date: 14th March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ffrwdwyllt Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14SE (E)	844	2	277510 189270
29	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055709 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	847	2	276800 188600
29	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055710 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	847	2	276800 188600
29	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055711 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	847	2	276800 188600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055724 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	847	2	276800 188600
30	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Glandyrryn Close Cso Port Talbot, Glandyffryn Close Cso, Neath Port Talbot, Wales, Sa13 2ub Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0359301 Permit Version: 1 Effective Date: 28th February 2007 Issued Date: 28th February 2007 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Ffrwd Wylt Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	853	2	277533 189351
31	Discharge Consents Operator: Westbury Homes (Wales) Ltd Property Type: Domestic Property (Multiple) Location: Port Talbot Residential Development, Newbridge Road Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0105101 Permit Version: 2 Effective Date: 3rd November 1988 Issued Date: 3rd November 1988 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Afan Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A12SW (W)	871	2	275600 189500
31	Discharge Consents Operator: Westbury Homes (Wales) Ltd Property Type: Domestic Property (Multiple) Location: Port Talbot Residential Development, Newbridge Road Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0105101 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 2nd November 1988 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Afan Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A12SW (W)	871	2	275600 189500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Gasworks Sewer Junction Chamber Po, Chamber Port Talbot Authority: Natural Resources Wales Catchment Area: River Afan Reference: BB4025503 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12NW (W)	872	2	275600 189550
32	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: O/S 54 Ynys Street, Port Talbot, Neath Port Talbot, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0322001 Permit Version: 1 Effective Date: 31st March 2009 Issued Date: 7th March 2005 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Afan Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	875	2	277121 190293
33	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: Power Plants 12 & 12a (Cooling Wate, (Cooling Water) Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0059206 Permit Version: 2 Effective Date: 5th March 1993 Issued Date: 5th December 1992 Revocation Date: 9th February 1999 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Dock Status: Revoked and replaced by IPC Authorisation Positional Accuracy: Located by supplier to within 100m	A8SE (S)	876	2	276900 188600
33	Discharge Consents Operator: British Steel Plc Property Type: Iron & Steel Industries Location: Power Plants 12 & 12a (Cooling Wate, (Cooling Water) Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0059206 Permit Version: 2 Effective Date: 5th March 1993 Issued Date: 5th December 1992 Revocation Date: 9th February 1999 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Dock Status: Revoked and replaced by IPC Authorisation Positional Accuracy: Located by supplier to within 100m	A8SE (S)	876	2	276900 188600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: Power Plants 12 & 12a (Cooling Wate, (Cooling Water) Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0059204 Permit Version: 2 Effective Date: 5th March 1993 Issued Date: 5th December 1992 Revocation Date: 20th September 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Dock Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	876	2	276900 188600
33	Discharge Consents Operator: Associated British Ports Property Type: Iron & Steel Industries Location: Power Plants 12 & 12a (Cooling Wate, (Cooling Water) Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055708 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	876	2	276900 188600
33	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: Power Plants 12 & 12a (Cooling Wate, (Cooling Water) Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0059204 Permit Version: 1 Effective Date: 16th September 1987 Issued Date: 16th September 1987 Revocation Date: 4th March 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Dock Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A8SE (S)	876	2	276900 188600
34	Discharge Consents Operator: Associated British Ports Property Type: Recreational & Cultural Location: Sea Cadets Club Site Port Talbot Do, Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: BP0055704 Permit Version: 2 Effective Date: 21st January 1993 Issued Date: 21st October 1992 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Port Talbot Docks Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	888	2	275800 188900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Discharge Consents Operator: Associated British Ports Property Type: Recreational & Cultural Location: Sea Cadets Club Site Port Talbot Do, Port Talbot Docks Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055704 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	888	2	275800 188900
35	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Iron & Steel Industries Location: No12ax Power Plt To D'K Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0059207 Permit Version: 1 Effective Date: 16th September 1987 Issued Date: 16th September 1987 Revocation Date: 28th March 1994 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	914	2	277000 188600
36	Discharge Consents Operator: British Steel Plc Property Type: Iron & Steel Industries Location: Power Plants 12 & 12a (Cooling Wate, (Cooling Water) Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0059206 Permit Version: 1 Effective Date: 16th September 1987 Issued Date: 16th September 1987 Revocation Date: 4th March 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Dock Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A15SW (E)	915	2	277600 189400
37	Discharge Consents Operator: Associated British Ports Property Type: Basic Industry, Chemicals Inorganic Location: Abp Sewer Ref No R2 Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055718 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 17th August 1987 Revocation Date: 31st October 1991 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A12SW (W)	923	2	275600 189200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	Discharge Consents Operator: Mechema Chemicals Ltd Property Type: Undefined Or Other Location: Port Talbot Talbot Wharf Chemical W, Talbot Wharf Chemical Works West, West Glam Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bm0044501 Permit Version: 1 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 30th June 1992 Discharge Type: Sewerage System Discharge Discharge: Not Supplied Environment: Receiving Water: River Afan Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A11SE (W)	961	2	275560 189200
38	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Taibach Tan Y Groes Road Bridgend Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0240101 Permit Version: 1 Effective Date: 21st July 1994 Issued Date: 21st July 1994 Revocation Date: 31st March 2003 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ffwdwyllt Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A15NW (E)	946	2	277630 189540
39	Discharge Consents Operator: Associated British Ports Property Type: Recreational & Cultural Location: Sea Cadets Club Site Port Talbot, Port Talbot Docks, Neath Port Talbot, Sa13 1ra Authority: Natural Resources Wales Catchment Area: River Afan Reference: BP0055703 Permit Version: 2 Effective Date: 21st January 1993 Issued Date: 21st October 1992 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Port Talbot Docks Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	950	2	275800 188800
39	Discharge Consents Operator: Associated British Ports Property Type: Recreational & Cultural Location: Sea Cadets Club Site Port Talbot, Port Talbot Docks, Neath Port Talbot, Sa13 1ra Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055703 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	950	2	275800 188800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Discharge Consents Operator: Associated British Ports Property Type: Recreational & Cultural Location: Sea Cadets Club Site Port Talbot, Port Talbot Docks, Neath Port Talbot, Sa13 1ra Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055717 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	950	2	275800 188800
40	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Port Talbot Docks - Dry Dock Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0055734 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Port Talbot Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	961	2	275600 189100
41	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: S'Dfields Sewer J'Ction Chambe Port, Port Talbot Authority: Natural Resources Wales Catchment Area: River Afan Reference: BB4025502 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: 31st March 2004 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A11SE (W)	981	2	275510 189310
42	Integrated Pollution Controls Name: Multiserv (Asr) Ltd Location: British Steel Strip Products, Port Talbot Works, PORT TALBOT, West Glamorgan, SA13 1RE Authority: Environment Agency, Welsh Region Permit Reference: BE7699 Dated: 21st December 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.1 A (B) Iron and Steel processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A13SW (W)	85	3	276398 189462
43	Integrated Pollution Controls Name: Cambrian Stone Ltd Location: CAMBRIAN STONE LTD, PO Box 12, PORT TALBOT, West Glamorgan, SA12 6RL Authority: Environment Agency, Welsh Region Permit Reference: BE2069 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.1 A (C) Iron and Steel processes within the Metal Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A13NE (NE)	223	3	276864 189667

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Integrated Pollution Controls Name: Cambrian Stone Ltd Location: CAMBRIAN STONE LTD, PO Box 12, PORT TALBOT, West Glamorgan, SA12 6RL Authority: Environment Agency, Welsh Region Permit Reference: BA1346 Dated: 27th February 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.1 A (C) Iron and Steel processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A13NE (NE)	223	3	276864 189667
43	Integrated Pollution Controls Name: Cambrian Stone Ltd Location: CAMBRIAN STONE LTD, PO Box 12, PORT TALBOT, West Glamorgan, SA12 6RL Authority: Environment Agency, Welsh Region Permit Reference: AW8084 Dated: 22nd January 1997 Process Type: IPC major (substantial) variation Description: 2.1 A (C) Iron and Steel processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A13NE (NE)	223	3	276864 189667
43	Integrated Pollution Controls Name: Cambrian Stone Ltd Location: CAMBRIAN STONE LTD, PO Box 12, PORT TALBOT, West Glamorgan, SA12 6RL Authority: Environment Agency, Welsh Region Permit Reference: AQ9936 Dated: 24th July 1995 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 2.1 A (C) Iron and Steel processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A13NE (NE)	223	3	276864 189667
44	Integrated Pollution Controls Name: Bitmac Ltd Location: Phoenix Wharf, Port Talbot Dock, South Side, PORT TALBOT, West Glamorgan, SA13 1RA Authority: Environment Agency, Welsh Region Permit Reference: BH2952 Dated: 29th October 1999 Process Type: IPC new application Description: 1.2 A (B) Carbonisation and associated processes within the Fuel & Power Industry Status: Application has met the requirements for authorisation (but not yet authorised)Not Yet Authorised Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	731	3	276675 188697
45	Integrated Pollution Prevention And Control Name: Cambrian Stone Limited Location: Port Talbot Steel Works, Port Talbot, West Glamorgan, SA12 6RL Authority: Natural Resources Wales Permit Reference: Bx0873ik Original Permit Ref: BL5636if Effective Date: 7th December 2003 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 3.5 B (A) Activity Description: Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecutting) Primary Activity: Y	A13NE (NE)	223	2	276864 189667

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Integrated Pollution Prevention And Control Name: Cambrian Stone Limited Location: Port Talbot Steel Works, Port Talbot Steelworks, P O Box 12, Port Talbot, West Glamorgan, SA12 6RL Authority: Natural Resources Wales Permit Reference: BL5636if Original Permit Ref: BL5636if Effective Date: 24th December 2002 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 3.5 B (A) Activity Description: Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecutting) Primary Activity: Y	A13NE (NE)	223	2	276864 189667
46	Integrated Pollution Prevention And Control Name: Port Talbot Power Limited Location: Port Talbot Ccgt Power Station, Phoenix Wharf, The Docks, Port Talbot, West Glamorgan, SA13 1RA Authority: Environment Agency, Welsh Region Permit Reference: AP3435UJ Original Permit Ref: Ap3435uj Effective Date: Not Supplied Status: Valid Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A8SE (S)	807	3	276670 188620
47	Local Authority Integrated Pollution Prevention And Control Name: Civil & Marine Slag Cement Ltd Location: Rio Tinto Wharf, Port Talbot Docks, Port Talbot, Sa13 1ra Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/102 Dated: Not Supplied Process Type: Mineral Industries Description: SG6 Status: Permit Issued Positional Accuracy: Located by supplier to within 10m	A8SW (SW)	639	4	276274 188828
48	Local Authority Pollution Prevention and Controls Name: Civil & Marine Slag Cement Ltd Location: Rio Tinto Wharf, Docks Road, The Docks, PORT TALBOT, West Glamorgan, SA13 1RA Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/86 Dated: 29th June 1999 Process Type: Local Authority Air Pollution Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete Status: Authorised Positional Accuracy: Automatically positioned to the address	A13SW (SW)	54	4	276479 189385
49	Local Authority Pollution Prevention and Controls Name: Blakemore Retail Ltd Location: Talbot Road, PORT TALBOT, West Glamorgan, SA13 1HN Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/71 Dated: 26th February 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A13NE (E)	139	4	276821 189553
50	Local Authority Pollution Prevention and Controls Name: Rhino Engineering Ltd Location: Cramic House, Cramic Way, Port Talbot, Sa13 1ru Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/116 Dated: 24th May 2006 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	239	4	276436 189849

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Local Authority Pollution Prevention and Controls Name: John Nicholas & Sons Ltd Location: Docks Road, PORT TALBOT, West Glamorgan, SA13 1RS Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A12SE (W)	566	4	275907 189465
51	Local Authority Pollution Prevention and Controls Name: RMC Readymix Wales & Midlands Location: Docks Road, PORT TALBOT, West Glamorgan, SA13 1RS Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: e3/1/7 Dated: 19th May 1994 Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Authorisation has varied Positional Accuracy: Manually positioned to the address or location	A12SW (W)	571	4	275902 189465
52	Local Authority Pollution Prevention and Controls Name: Afan Way Services Limited Location: Afan Way, PORT TALBOT, West Glamorgan, SA12 6NR Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/83 Dated: 8th April 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A12NE (NW)	594	4	275963 189833
53	Local Authority Pollution Prevention and Controls Name: Civil & Marine Ltd Location: Rio Tinto Wharf, Port Talbot Docks, PORT TALBOT, SA13 1RA Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/102 Dated: 3rd July 2003 Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Transferred to LAIPPC Positional Accuracy: Located by supplier to within 10m	A8SW (SW)	639	4	276274 188828
54	Local Authority Pollution Prevention and Controls Name: Tesco Stores Limited Location: Aberafan Centre, Prior Street, PORT TALBOT, West Glamorgan, SA13 1PB Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/66 Dated: 8th April 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A18NE (N)	716	4	276703 190317
	Nearest Surface Water Feature	A13SW (S)	67	-	276577 189354
55	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Maritime Ponds; Leakage Incident Date: 29th October 1997 Incident Reference: 34375 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	20	3	276700 189500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Llewelyn Quay, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: Inadequate Design/Capacity Incident Date: 7th May 1991 Incident Reference: 4265 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	61	3	276700 189400
57	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Crannick Way, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Creosote Note: River Afan; Run-Off Incident Date: 19th July 1997 Incident Reference: 33062 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Vandalism Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	68	3	276750 189550
58	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Neglect Incident Date: 22nd September 1994 Incident Reference: 21170 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (S)	123	3	276600 189300
58	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Llewellyns Quay, 400M Slick Of Oil, Along Bank Of Dock Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Port Talbot Dock; Spillage Incident Date: 28th March 1998 Incident Reference: 35231 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (S)	124	3	276605 189300
58	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Llewellyns Dock Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Port Talbot Dock; Spillage Incident Date: 28th March 1998 Incident Reference: 35231 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (S)	128	3	276600 189295
58	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Llewellyns Quay Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Port Talbot Dock; Spillage Incident Date: 28th March 1998 Incident Reference: 35231 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (S)	129	3	276605 189295

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Weir Near, Dock Feeder Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 28th November 1991 Incident Reference: 1655 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	473	3	276050 189725
60	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Adjacent Tiger, Tyres, Greenpark Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Deliberate Act Incident Date: 24th August 1995 Incident Reference: 25479 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	508	3	276000 189695
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: By Civic Centre, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Industrial Solid Waste Note: Deliberate Incident Date: 21st May 1997 Incident Reference: 32458 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	587	3	276400 190200
62	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Estuary Between, The Two Weirs Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 7th March 1991 Incident Reference: 4029 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	640	3	275900 189800
63	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Freshwater Docks, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Natural Causes Incident Date: 23rd September 1995 Incident Reference: 25959 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	654	3	276800 188800
64	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Roadbridge, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 31st October 1991 Incident Reference: 1614 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	675	3	276500 190300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Fractured Sewer In, River Bed B. Gas Pipeline Work, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Afan; Direct Introduction Incident Date: 29th January 1998 Incident Reference: 34696 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	777	3	275700 189600
66	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Prior Road Near, Council Offices Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 31st January 1991 Incident Reference: 2656 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	779	3	276600 190400
67	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 31st October 1995 Incident Reference: 26530 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	785	3	277100 190200
68	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Surface Runoff Location: Where Passes, Under M4 Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 13th November 1991 Incident Reference: 1636 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	796	3	276700 190400
69	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Railway Line, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Deliberate Act Incident Date: 9th May 1996 Incident Reference: 28283 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	830	3	277300 188900
69	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Side Of Railway Line, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Deliberate Act Incident Date: 9th May 1996 Incident Reference: 28283 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	834	3	277300 188895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Afan Sewage, Pumping Station Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 27th April 1995 Incident Reference: 23819 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	872	3	275600 189545
71	Pollution Incidents to Controlled Waters Property Type: Forestry Location: Baglan Mountain Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Deliberate Act Incident Date: 18th August 1995 Incident Reference: 25462 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	883	3	276400 190500
72	Pollution Incidents to Controlled Waters Property Type: Building Sites Location: Old Gas Works, Site Victoria Road, Port Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Accidental Spillage/Leakage Incident Date: 14th March 1996 Incident Reference: 27548 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	893	3	275600 189700
73	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: River At End, Of Afan Street Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Blocked Sewer Incident Date: 6th January 1995 Incident Reference: 22433 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	893	3	276700 190500
74	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Road Bridge Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 7th August 1991 Incident Reference: 1347 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	902	3	276300 190500
75	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Natural Causes Incident Date: 20th March 1996 Incident Reference: 27790 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leachate Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15NW (E)	931	3	277600 189700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Prosecutions Relating to Authorised Processes Location: Cramic Way, Port Talbot, Sa13 Prosecution Text: Burning waste on land without a WML - five months suspended sentence served Prosecution Act: Epa90 S33(1)(C) Hearing Date: 12th October 2004 Verdict: Guilty Fine: 0 Costs: 0 Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	72	3	276665 189628
77	Prosecutions Relating to Authorised Processes Location: Kenwoth Buildings, Llewellyns Quay, Port Talbot, West Glamorgan, Sa13 1rf Prosecution Text: Special Waste (Including Bonded Asbestos)Stored At A Site Without A Waste Management Licence Prosecution Act: Epa90 S33(1)(A) & S33(1)(B) Hearing Date: 31st March 2003 Verdict: Guilty Fine: 1500 Costs: 1572 Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	422	3	276704 189014
	River Quality Name: Afan GQA Grade: River Quality A Reach: Dock Intake Weir - M4 Motorway Estimated Distance (km): .7 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A13NW (NW)	322	3	276269 189831
	River Quality Name: Not Supplied GQA Grade: Unclassified Tidal River Reach: Not Supplied Estimated Distance (km): Not Supplied Flow Rate: Not Supplied Flow Type: Not Supplied Year: 1995	A12NE (W)	457	3	276034 189636
	River Quality Name: Not Supplied GQA Grade: Unclassified Tidal River Reach: Not Supplied Estimated Distance (km): Not Supplied Flow Rate: Not Supplied Flow Type: Not Supplied Year: 1995	A8SW (S)	665	3	276389 188765
	River Quality Name: Afan GQA Grade: River Quality A Reach: M4 Motorway - Conf. Pelena Estimated Distance (km): 5.6 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A19SW (NE)	692	3	277005 190153
	River Quality Name: Ffrwdwyllt GQA Grade: River Quality A Reach: Docks Entr.P.Talbot-Conf.Nant Cwm Y Garn Estimated Distance (km): 2.4 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A9SW (SE)	826	3	277007 188699

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	River Quality Biology Sampling Points Name: Afan Reach: Dock Intake Weir To M4 Motorway Estimated Distance: 0.70 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2008 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2009 GQA Grade: River Quality Biology GQA Grade C - Fairly Good	A18NE (N)	796	3	276700 190400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	River Quality Chemistry Sampling Points Name: Afan Reach: Dock Intake Weir To M4 Motorway Estimated Distance: 0.70 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A12NE (W)	477	3	276047 189727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	River Quality Chemistry Sampling Points Name: Ffrwdwyllt Reach: Docks Enterance Port Talbot To Confluence Nant Cwm Y Garn Estimated Distance: 2.40 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A9NW (SE)	770	3	277244 188929

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	River Quality Chemistry Sampling Points Name: Ffrwdwyllt Reach: Confluence Cwm Y Garn To Confluence Cwm Wernderi Estimated Distance: 1.40 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A9NW (SE)	770	3	277244 188929

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	River Quality Chemistry Sampling Points Name: Ffrwdwyllt Reach: Confluence Cwm Wernderi To Varteg Road Bridge Estimated Distance: 3.20 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A9NW (SE)	770	3	277244 188929
81	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 12th October 2003 Incident Reference: 195725 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Smoke Pollutant: Oils And Fuel: Gas And Fuel Oils Pollutant: Asbestos Waste	A13NE (N)	65	2	276597 189657
82	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 27th February 2014 Incident Reference: 1212608 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Tyres	A12NE (NW)	380	2	276156 189738

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 29th March 2004 Incident Reference: 225980 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Smoke	A12NW (W)	589	2	275885 189558
84	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0009 Permit Version: 100 Location: River Afan To Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	523	3	275980 189685
84	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0009 Permit Version: 101 Location: River Afan To Port Talbot Docks Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	525	2	275980 189690
84	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0009 Permit Version: 101 Location: River Afan To Port Talbot Docks Authority: Natural Resources Wales Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	525	2	275980 189690
84	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0009 Permit Version: 100 Location: River Afan To Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Afan To Port Talbot Docks Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	525	3	275980 189690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Water Abstractions Operator: Costain Limited Licence Number: Wa/058/0061/004 Permit Version: 1 Location: Port Talbot Dock At Margam Moors Authority: Environment Agency, Welsh Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Margam Moors - Port Talbot Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 5th August 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	597	3	276967 188933
86	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 5 Location: Port Talbot Docks Port Talbot Authority: Natural Resources Wales Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Port Talbot Docks, Port Talbot Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st May 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	611	2	276230 188880
86	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 4 Location: Port Talbot Docks Port Talbot Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Port Talbot Docks, Port Talbot Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st May 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	611	3	276230 188880
86	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 4 Location: Port Talbot Docks Port Talbot Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Port Talbot Docks, Port Talbot Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st May 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	611	3	276230 188880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 3 Location: Civil & Marine Slag Cement Ltd Quay At Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Civil & Marine Slag Cement Ltd Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th September 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	624	3	276240 188860
86	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 2 Location: Civil & Marine Slag Cement Ltd Quay At Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Civil & Marine Slag Cement Ltd Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	624	3	276240 188860
86	Water Abstractions Operator: Civil & Marine Slag Cement Ltd Licence Number: 21/58/61/0042 Permit Version: 1 Location: Civil & Marine Slag Cement Ltd Quay At Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Civil & Marine Slag Cement Ltd Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	624	3	276240 188860
87	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0024 Permit Version: 101 Location: River Ffrwdwyllt Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	750	2	277150 188870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0024 Permit Version: 101 Location: River Ffrwdwyllt Authority: Natural Resources Wales Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	750	2	277150 188870
87	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0024 Permit Version: 100 Location: River Ffrwdwyllt Authority: Environment Agency, Welsh Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Ffrwdwyllt Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	750	3	277150 188870
87	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0024 Permit Version: 100 Location: River Ffrwdwyllt Authority: Environment Agency, Welsh Region Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	754	3	277150 188865
88	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0012 Permit Version: 101 Location: Port Talbot Docks Authority: Natural Resources Wales Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	882	2	276890 188590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0012 Permit Version: 101 Location: Port Talbot Docks Authority: Natural Resources Wales Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	882	2	276890 188590
88	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0012 Permit Version: 100 Location: Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Port Talbot Docks Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	882	3	276890 188590
88	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0012 Permit Version: 100 Location: Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	887	3	276890 188585
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 35 West Glamorgan Scale: 1:100,000	A13SW (NE)	0	3	276576 189513
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 35 West Glamorgan Scale: 1:100,000	A13SW (NE)	0	3	276576 189513
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	1	276576 189513
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (NE)	0	1	276576 189513
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (NE)	0	2	276576 189513

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	0	2	276522 189488
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	66	2	276598 189357
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (NE)	0	2	276576 189513
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	65	2	276628 189352
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	66	2	276598 189357
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	66	2	276574 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	67	2	276573 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	67	2	276577 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	67	2	276584 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	67	2	276574 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	68	2	276556 189352
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	68	2	276554 189351
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	68	2	276590 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	68	2	276593 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	68	2	276584 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	68	2	276528 189349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	69	2	276540 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	69	2	276529 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	69	2	276534 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	69	2	276527 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	70	2	276614 189355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	70	2	276536 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	70	2	276541 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	70	2	276546 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	71	2	276562 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	71	2	276549 189349
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	73	2	276515 189344
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	74	2	276518 189343
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	78	2	276620 189347
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	82	2	276497 189339
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	84	2	276493 189338
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	86	2	276488 189338

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	86	2	276490 189337
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	89	2	276487 189336
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	97	2	276472 189334
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	98	2	276468 189335
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	100	2	276466 189334
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	101	2	276464 189335
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	110	2	276452 189332
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	112	2	276450 189331
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	116	2	276444 189331
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	116	2	276446 189329
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	125	2	276433 189329
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	127	2	276430 189329
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	131	2	276424 189329
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	131	2	276427 189328
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	134	2	276422 189328
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	135	2	276422 189327

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	141	2	276413 189328
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	145	2	276410 189325
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	146	2	276407 189326
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	148	2	276406 189325
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	160	2	276392 189323
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	162	2	276390 189323
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	164	2	276388 189323
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	172	2	276378 189323
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	176	2	276375 189320
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	179	2	276372 189319
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	181	2	276369 189320
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	183	2	276367 189319
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	184	2	276366 189319
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	185	2	276365 189320
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	186	2	276363 189320
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	190	2	276359 189320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	198	2	276351 189318
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	208	2	276340 189317
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	211	2	276337 189316
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	213	2	276335 189317
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	216	2	276331 189317
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	218	2	276329 189316
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	220	2	276326 189317
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	220	2	276326 189317
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	222	2	276324 189316
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	231	2	276315 189314
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	233	2	276313 189314
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	235	2	276282 189684
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	236	2	276310 189313
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	239	2	276307 189314
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	240	2	276306 189313
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	241	2	276305 189313

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	246	2	276383 189829
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 347.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A18SW (NW)	356	5	276283 189891
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A18SW (NW)	363	5	276343 189942
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A18SW (NW)	366	5	276338 189943
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A18SW (N)	393	5	276386 189994
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A18SW (N)	393	5	276386 189995
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1162.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 2	A8NW (SW)	423	5	276263 189083
95	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 343.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8NE (SE)	442	5	276825 189037

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 114.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NW (S)	444	5	276394 188992
97	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NW (S)	444	5	276394 188992
98	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 51.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NW (S)	464	5	276450 188959
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 2	A12NE (NW)	466	5	276065 189742
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A12NE (NW)	466	5	276065 189742
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 313.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8NE (SE)	467	5	276884 189037
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 2	A12NE (W)	475	5	276036 189695
103	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 21.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A12NE (NW)	476	5	276054 189744
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 2	A12NE (W)	477	5	276039 189709

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A18SW (N)	483	5	276495 190107
106	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 2	A12NE (W)	486	5	276027 189703
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 231.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A18SW (N)	486	5	276504 190111
108	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Not Supplied Primacy: 1	A12NE (NW)	494	5	276033 189739
109	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 148.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NW (SW)	495	5	276280 188986
110	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 87.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A12NE (W)	499	5	276017 189714
111	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 21.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Not Supplied Primacy: 1	A12NE (W)	499	5	276017 189714
112	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 167.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NW (S)	501	5	276481 188918
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A12NE (NW)	504	5	276030 189758

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 14.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Afon Afan Catchment Name: Not Supplied Primacy: 1	A12NE (W)	564	5	275936 189684
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8NW (S)	564	5	276323 188889
116	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Not Supplied Primacy: 2	A12NE (W)	576	5	275923 189680
117	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 41.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Not Supplied Primacy: 1	A12NE (W)	576	5	275923 189680
118	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 167.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8SE (S)	582	5	276631 188843
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8NW (SW)	591	5	276278 188879
120	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 36.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Not Supplied Primacy: 1	A12NW (W)	612	5	275883 189672
121	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 20.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7NE (SW)	616	5	276141 188933
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	623	5	276230 188867

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 134.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7NE (SW)	635	5	276124 188922
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A7NE (SW)	635	5	276213 188863
125	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 644.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afan Afan Catchment Name: Afan Primacy: 1	A12NW (W)	641	5	275849 189659
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Afan Afan Catchment Name: Afan Primacy: 1	A18NE (N)	660	5	276639 190274
127	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 164.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A8SE (S)	671	5	276786 188778
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 536.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afan Afan Catchment Name: Afan Primacy: 1	A18NE (N)	675	5	276648 190287
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A9NW (SE)	733	5	277137 188882
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A9NW (SE)	733	5	277138 188882
131	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 164.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7NE (SW)	755	5	275999 188873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A9NW (SE)	768	5	277232 188918
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A9NW (SE)	769	5	277231 188917
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A9NW (SE)	771	5	277246 188930
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 689.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A9NW (SE)	773	5	277232 188912
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 302.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffrwd-wyllt Catchment Name: Afan Primacy: 1	A9NE (SE)	773	5	277258 188939
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Ffrwd-wyllt Catchment Name: Afan Primacy: 1	A9NE (E)	801	5	277435 189172
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 413.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffrwd-wyllt Catchment Name: Afan Primacy: 1	A9NE (E)	801	5	277435 189173
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A19NW (NE)	811	5	277062 190254
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A19NW (NE)	812	5	277065 190253

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A19NW (NE)	819	5	277058 190264
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A14SE (E)	825	5	277491 189272
143	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 158.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7SW (SW)	896	5	275838 188839
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A19NW (NE)	902	5	277156 190303
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 801.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A19NW (NE)	917	5	277150 190325
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A15NW (E)	932	5	277617 189532
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 297.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffrwd-wyllt Catchment Name: Afan Primacy: 1	A15NW (E)	932	5	277617 189532
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Afan Primacy: 1	A6NE (W)	967	5	275560 189182
149	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 435.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Not Supplied Primacy: 1	A11SE (W)	1000	5	275521 189194

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	Licensed Waste Management Facilities (Locations) Licence Number: PP3298FX Location: Old Byass Works, The Docks, Port Talbot, Neath Port Talbot, SA13 1RS Operator Name: Cuddy Recycling Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 1st September 2016 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	318	2	276289 189844
150	Licensed Waste Management Facilities (Locations) Licence Number: 34040 Location: Old Byass Works, The Docks, Port Talbot, SA13 1RS Operator Name: C. P. Harvey (Scrap) Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal recycling site Licence Status: Modified Issued: 30th January 1994 Last Modified: 26th June 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	318	2	276289 189844
151	Licensed Waste Management Facilities (Locations) Licence Number: 34283 Location: Former Byass Works, Docks Road, Port Talbot, SA13 1RS Operator Name: Egan Metal Recycling Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Modified Issued: 25th August 2006 Last Modified: 4th April 2013 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	331	2	276183 189674
152	Licensed Waste Management Facilities (Locations) Licence Number: 34154 Location: Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Operator Name: Jem Recycling Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Expired Issued: 1st April 1998 Last Modified: Not Supplied Expires: 1st April 2000 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	417	2	276100 189700
152	Licensed Waste Management Facilities (Locations) Licence Number: 34142 Location: Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Operator Name: Jem Recycling Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Expired Issued: 24th December 1996 Last Modified: Not Supplied Expires: 1st April 2000 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	417	2	276100 189700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	Licensed Waste Management Facilities (Locations) Licence Number: 34168 Location: Old Byass Works, Docks Road, Port Talbot, N P T, SA13 1ER Operator Name: Jem Recycling Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Expired Issued: 30th March 1994 Last Modified: Not Supplied Expires: 1st April 2000 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	417	2	276100 189700
153	Licensed Waste Management Facilities (Locations) Licence Number: 102486 Location: Llewellyn's Road, Llewellyn's Quay, Port Talbot, SA13 1RA Operator Name: Construction Recyclate Management Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: HCI Waste TS + treatment + asbestos Licence Status: Issued Issued: 7th June 2011 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	431	2	276680 189000
154	Licensed Waste Management Facilities (Locations) Licence Number: 34281 Location: Kenworth Building, Llewellyn's Quay, Port Talbot, SA13 1RF Operator Name: Avalon Insulation Services Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations Licence Status: Issued Issued: 25th July 2006 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	464	2	276746 188983
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	4	276576 189513
155	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NE (E)	599	-	277276 189620
156	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NE (E)	653	-	277331 189625
157	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A13SE (E)	0	-	276596 189509
158	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A13SE (E)	49	-	276735 189451
159	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13SE (SE)	92	-	276696 189364
160	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A12NE (NW)	424	-	276110 189742
161	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A12SE (SW)	470	-	276050 189295

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A12NE (W)	509	-	276009 189720
163	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A8NW (S)	543	-	276373 188895
164	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A12NE (NW)	599	-	275944 189800
165	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A9NW (SE)	605	-	276958 188920
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A8SW (S)	625	-	276465 188794
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12NW (W)	652	-	275838 189661
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A12NW (W)	690	-	275791 189620
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A9SW (SE)	724	-	276953 188786
170	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8SW (S)	732	-	276345 188707
171	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	749	-	276147 190275
172	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A17SW (NW)	770	-	275903 190086
173	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	771	-	276168 190311
174	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A9SW (SE)	803	-	277031 188735
175	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12NW (W)	806	-	275666 189541
176	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1952	A12NW (W)	816	-	275665 189628
177	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	819	-	276020 190275
178	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	822	-	276018 190276
179	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	834	-	276037 190305
180	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	838	-	276024 190301
181	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	863	-	276045 190346
182	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A9SW (S)	867	-	276927 188620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A9SW (SE)	872	-	277131 188709
184	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A17NW (NW)	893	-	275893 190260
185	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A17NW (NW)	894	-	275869 190238
186	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A17NE (NW)	907	-	275922 190308
187	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A9SW (SE)	915	-	276992 188595
188	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A3NW (S)	934	-	276411 188489
189	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A17NW (NW)	944	-	275805 190241
190	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A11SE (W)	952	-	275532 189349
191	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A17NE (NW)	961	-	275945 190395
192	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1952	A17NW (NW)	971	-	275876 190353
193	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A11SE (W)	984	-	275538 189193

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	Registered Waste Transfer Sites Licence Holder: Jem Recycling Ltd Licence Reference: SWW 158L Site Location: Byass Works, Docks Road, PORT TALBOT, West Glamorgan, SA13 1ER Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 24th December 1996 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Building Materials Cellulose Cement Bonded Asbestos Clinker & Ash Demolition Wastes Food Waste Fragmentiser Waste Glass Gypsum Based Filter Cake Man-Made Insulation Mat'Ls Max.Waste Permitted By Licence Natural & Man-Made Fibres Packaging Mat'Ls Paper/Paper Prods/Cardboard Plant & Tree Cuttings Plasterboard Plastic Scrap Metal Shot Blasting Grit Soil Tyres Wood/Wood Prods Prohibited Waste: Clinical Wastes Fibrous Forms Of Asbestos Flue Ash Liquid Wastes Packaging Containing Special Waste Pcbs/Pcts Percussive/Explosive/Similar Waste Sewage Screenings/Grit From S.T.Wks Sludge Wastes Special Wastes (As In '96 Regs) N.O.S Sub'S Control. Radioactive Subs Act'60 Waste In Sealed Drums Waste N.O.S.	A12NE (NW)	325	3	276200 189700
195	Registered Waste Transfer Sites Licence Holder: C P Harvey (Recycling) Ltd Licence Reference: . Site Location: Old Byass Works, Cramic Way, PORT TALBOT, West Glamorgan, SA13 1RS Operator Location: Alexandra House, 1 Alexandra Road, SWANSEA, West Glamorgan, SA1 5ED Authority: Environment Agency Wales, South West Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Some restriction on source of waste Restrictions: Licence Status: Site Closed Dated: 23rd December 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Electrical Scrap Max.Stor Ferrous Metal Scrap Max.Stor Fuel Oil Max.Stor Max.Waste From Fees/Charges Mineral Oils Max.Stor Non-Ferrous Metal Scrap Max.Stor Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)N.O.S	A12NE (NW)	338	3	276230 189800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	Registered Waste Transfer Sites Licence Holder: Port Talbot Mini Skips Licence Reference: . Site Location: rear of Byass Works, North Bank Road, The Docks, PORT TALBOT, West Glamorgan, SA13 1ER Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Transfer Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 30th March 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Construction Waste Max.Stor Glass Max.Stor Household Waste - General Plastic Max.Stor Wood Max.Stor	A12NE (W)	417	3	276100 189700
197	Registered Waste Treatment or Disposal Sites Licence Holder: Jem Recycling Ltd Licence Reference: SWW 171L Site Location: The Old Byass Works, Docks Road, PORT TALBOT, West Glamorgan, SA13 1ER Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Transfer - with Baling(compaction) Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st April 1998 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Building Materials Cardboard/Paper/Paper Products Clay, Sand, Top/Subsoil Ferrous Metal Food Waste Hardcore, Brickwork, Concrete, Glass, Stone Max.Waste By Agreement With Env.Agency Non-Ferrous Metal Plastic Plastic Film Tarmacadam Wood/Wood Products Difficult Wastes (As In Wmp.26) Drummed Waste Liquid Wastes Sludge Wastes Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S. Prohibited Waste	A13NW (NW)	232	3	276300 189700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	Control of Major Accident Hazards Sites (COMAH) Name: Transco Plc Location: Aberavon Gas Works, Victoria Road, PORT TALBOT, West Glamorgan, SA13 1PN Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Manually positioned to the address or location	A12NW (W)	833	6	275655 189670
199	Notification of Installations Handling Hazardous Substances (NIHHS) Name: Transco Location: Aberavon Gas Works, Victoria Road, PORT TALBOT, West Glamorgan, SA13 1PN Status: Not Active Positional Accuracy: Unknown	A12NW (W)	826	6	275660 189662
200	Planning Hazardous Substance Consents Name: British Gas Plc Location: Wales, Aberavon Gas Works, Victoria Road, PORT TALBOT, West Glamorgan, SA12 6DB Authority: Neath Port Talbot County Borough Council, Planning Department Application Ref: P2013/0135 Hazardous Substance: Unknown at time of report Maximum Quantity: 61.8 Application date: 27th November 1992 Decision: Application revoked or cancelledCancelled Positional Accuracy: Located by supplier to within 10m	A12NW (W)	838	7	275650 189670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: South Wales Upper Coal Measures Formation	A13SW (NE)	0	1	276576 189513
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (NE)	0	1	276576 189513
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	118	1	276741 189651
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (E)	313	1	277000 189513
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (E)	568	1	277239 189656
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NW (N)	653	1	276527 190278
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	673	1	276585 190295

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A19SW (NE)	699	1	277215 189989
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	705	1	277221 189000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A7NE (SW)	745	1	276040 188849
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A7SE (SW)	790	1	276133 188729
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	807	1	276644 190423
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	808	1	275675 189643

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14SE (E)	813	1	277500 189500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	832	1	276000 188769
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	856	1	276898 190395
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	857	1	277497 189807
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	911	1	275598 189245
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NW (E)	921	1	277604 189574

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15SW (E)	945	1	277621 189318
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SW (W)	946	1	275567 189227
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A15SW (E)	998	1	277674 189314
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A22SE (N)	1000	1	276194 190571
201	BGS Recorded Mineral Sites Site Name: Gwar-Y-Caeau Location: , Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156667 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NE (E)	602	1	277281 189613
202	BGS Recorded Mineral Sites Site Name: Port Talbot Steel Slag Aggregates Location: , Port Talbot Steelworks, Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 27196 Type: Steel Works Status: Active Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Not Available Geology: Ground Granulated Blast Furnace Slag - Addition, Cementitious Commodity: Blast Furnace Slag Positional Accuracy: Located by supplier to within 10m	A8SW (S)	645	1	276290 188815

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	BGS Recorded Mineral Sites Site Name: Pen-Y-Cae Location: , Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156659 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	864	1	277435 189961
204	BGS Recorded Mineral Sites Site Name: Mount Pleasant Location: , Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156655 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	873	1	276529 190498
205	BGS Recorded Mineral Sites Site Name: Pen-Y-Cae Location: , Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156660 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	921	1	277435 190068
206	BGS Recorded Mineral Sites Site Name: Mount Pleasant Location: , Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156656 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	931	1	276803 190512
207	BGS Recorded Mineral Sites Site Name: Pen-Y-Cae Location: , Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156658 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	937	1	277326 190217

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 276740, 190270 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 36.70 mg/kg Cadmium Measured Concentration: 0.90 mg/kg Chromium Measured Concentration: 72.10 mg/kg Lead Measured Concentration: 210.60 mg/kg Nickel Measured Concentration: 62.10 mg/kg	A18NE (N)	682	1	276740 190270
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 276210, 190260 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 42.80 mg/kg Cadmium Measured Concentration: 2.30 mg/kg Chromium Measured Concentration: 99.60 mg/kg Lead Measured Concentration: 630.30 mg/kg Nickel Measured Concentration: 112.60 mg/kg	A17NE (NW)	706	1	276210 190260
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 275760, 190240 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 39.80 mg/kg Cadmium Measured Concentration: 1.70 mg/kg Chromium Measured Concentration: 71.40 mg/kg Lead Measured Concentration: 489.80 mg/kg Nickel Measured Concentration: 64.90 mg/kg	A17NW (NW)	977	1	275760 190240
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Swansea Count Id: 368 Arsenic Minimum Concentration: 8.00 mg/kg Arsenic Average Concentration: 79.00 mg/kg Arsenic Maximum Concentration: 2161.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 2.90 mg/kg Cadmium Maximum Concentration: 61.90 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 72.00 mg/kg Chromium Maximum Concentration: 562.00 mg/kg Lead Minimum Concentration: 23.00 mg/kg Lead Average Concentration: 413.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 8.00 mg/kg Nickel Average Concentration: 52.00 mg/kg Nickel Maximum Concentration: 384.00 mg/kg	A13NW (N)	75	1	276576 189700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (NE)	0	8	276576 189513
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NE)	0	-	276576 189513
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	60	1	276579 189362
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	89	1	276734 189620
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	185	1	276625 189778
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	89	1	276734 189620
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	118	1	276722 189663
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	185	1	276625 189778
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	60	1	276579 189362
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	118	1	276722 189663
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	276576 189513

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	Contemporary Trade Directory Entries Name: Davies Crane Hire Ltd Location: Unit 30, Docks Road, The Docks, Port Talbot, West Glamorgan, SA13 1RA Classification: Crane Hire, Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	0	-	276564 189491
209	Contemporary Trade Directory Entries Name: Suite Centres Direct Location: The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	0	-	276634 189480
210	Contemporary Trade Directory Entries Name: Lounge Products Location: Unit 11-12 The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Upholstery Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	27	-	276572 189394
211	Contemporary Trade Directory Entries Name: T W I Technology Centre Wales Location: Harbourside Business Park, Harbourside Road, Port Talbot, West Glamorgan, SA13 1SB Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	52	-	276453 189456
212	Contemporary Trade Directory Entries Name: Civil & Marine Slag Cement Ltd Location: Docks Road, The Docks, Port Talbot, West Glamorgan, SA13 1RA Classification: Cement Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	54	-	276479 189385
212	Contemporary Trade Directory Entries Name: Autolec Diesel Services (Wales) Ltd Location: Docks Road, The Docks, Port Talbot, West Glamorgan, SA13 1RA Classification: Fuel Injection Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	54	-	276479 189385
212	Contemporary Trade Directory Entries Name: A & S Commercial Repairs Location: Docks Road, The Docks, Port Talbot, West Glamorgan, SA13 1RA Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	54	-	276479 189385
212	Contemporary Trade Directory Entries Name: Gregory Auto Repairs Location: Somerset La, Port Talbot, West Glamorgan, SA13 1TY Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	68	-	276454 189420
213	Contemporary Trade Directory Entries Name: Astra Park Service Centre Location: Unit 5, Astra Business Park, Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	69	-	276552 189687
214	Contemporary Trade Directory Entries Name: Thomas Silvey Ltd Location: The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Oil Fuel Distributors Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (W)	86	-	276397 189461
215	Contemporary Trade Directory Entries Name: M P G Tyres & Exhausts Location: Unit 16, Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	91	-	276668 189648

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
215	Contemporary Trade Directory Entries Name: Michael J Farmer Location: Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	91	-	276668 189648
215	Contemporary Trade Directory Entries Name: Mpg Tyre & Exhausts Location: Unit 16, Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	91	-	276668 189648
215	Contemporary Trade Directory Entries Name: G E S Location: Court Workshop, Off Cramick Way, Port Talbot, West Glamorgan, SA13 2RR Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	94	-	276648 189662
215	Contemporary Trade Directory Entries Name: M P G Tyre & Exhausts Location: Port Talbot Railway Station, Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	138	-	276663 189704
216	Contemporary Trade Directory Entries Name: G T E Motorhouse Ltd Location: Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (N)	117	-	276638 189694
216	Contemporary Trade Directory Entries Name: C & C Auto Spares Location: Unit 10 Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (N)	141	-	276612 189735
217	Contemporary Trade Directory Entries Name: Texaco Location: Port Talbot Service Station, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	139	-	276821 189553
217	Contemporary Trade Directory Entries Name: Texaco Location: Port Talbot Service Station, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	139	-	276821 189553
217	Contemporary Trade Directory Entries Name: Port Talbot Service Station Location: Port Talbot Service Station, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	139	-	276821 189553
218	Contemporary Trade Directory Entries Name: Lounge Products Location: Unit 1a, Towngate Business Centre, Cramic Way, Port Talbot, West Glamorgan, SA13 1RY Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (N)	143	-	276545 189766
219	Contemporary Trade Directory Entries Name: Moderncare Location: 2, Talbot Road, Port Talbot, West Glamorgan, SA13 1DH Classification: Carpet & Fabric Proofing Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	155	-	276817 189614

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
220	Contemporary Trade Directory Entries Name: W Doyle Transport Location: Llewellyns Quay, Port Talbot, SA13 1RF Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	168	-	276689 189278
221	Contemporary Trade Directory Entries Name: 1st Class Furniture Location: Astra Business Park, Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	184	-	276484 189806
222	Contemporary Trade Directory Entries Name: Design Printers Location: 1, Royal Buildings, 16, Talbot Road, Port Talbot, West Glamorgan, SA13 1DN Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (E)	195	-	276879 189544
222	Contemporary Trade Directory Entries Name: D W Jones Ltd Location: Empire Building, Beverley Street, Port Talbot, West Glamorgan, SA13 1DY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	215	-	276898 189552
222	Contemporary Trade Directory Entries Name: Sp Power Washers Location: Empire Building, Beverley Street, Port Talbot, SA13 1DY Classification: Car Washing & Polishing Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	215	-	276898 189552
222	Contemporary Trade Directory Entries Name: Mgm Gates Location: Commercial Buildings, Talbot Rd, Port Talbot, West Glamorgan, SA13 1DR Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (E)	225	-	276908 189504
222	Contemporary Trade Directory Entries Name: Stitching With Elegance Location: Commercial Buildings, Beverley Street, Port Talbot, West Glamorgan, SA13 1DY Classification: Soft Furnishings - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	231	-	276914 189514
223	Contemporary Trade Directory Entries Name: Coates Rentair Location: Coates Rentair, Dock Road, Port Talbot, SA13 1RA Classification: Air Compressors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	201	-	276279 189446
224	Contemporary Trade Directory Entries Name: Fairwood Holdings Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	211	-	276784 189273
224	Contemporary Trade Directory Entries Name: B H L Rolls Manufacturing Ltd Location: Llewellyns Quay, The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	211	-	276784 189273
224	Contemporary Trade Directory Entries Name: Fairwood Engineering Ltd Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	211	-	276784 189273

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
224	Contemporary Trade Directory Entries Name: Rhino Systems Ltd Location: Maritime Road, Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Electrical Engineers Status: Active Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	226	-	276790 189260
225	Contemporary Trade Directory Entries Name: Loxam Access Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Railways Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	222	-	276654 189207
226	Contemporary Trade Directory Entries Name: Astra Park Service Centre Ltd Location: Oakwood Lane, PORT TALBOT, West Glamorgan, SA13 1DF Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	235	-	276863 189687
227	Contemporary Trade Directory Entries Name: Folland Joinery Location: 49, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	236	-	276923 189444
227	Contemporary Trade Directory Entries Name: West Wales Home Care Location: 49, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Classification: Vacuum Cleaners - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	236	-	276923 189444
227	Contemporary Trade Directory Entries Name: Oakwood Energy Ltd Location: 49, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Classification: Fuel Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	236	-	276923 189444
227	Contemporary Trade Directory Entries Name: Pirson Montage Location: 49, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Classification: Refractory Materials & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	236	-	276923 189444
228	Contemporary Trade Directory Entries Name: Evd Commercials Ltd Location: Cramic Way, Port Talbot, West Glamorgan, SA13 1JU Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	239	-	276437 189849
228	Contemporary Trade Directory Entries Name: L B S Builders Merchants Location: 5 Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Builders' Merchants Status: Active Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	239	-	276437 189849
228	Contemporary Trade Directory Entries Name: It Asset Matters 2 U Location: Unit 2e, Cramic Way, Port Talbot, West Glamorgan, SA13 1RU Classification: Computer Recycling & Disposal Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	239	-	276437 189849
229	Contemporary Trade Directory Entries Name: Town Tyre Services Location: Station Road, Port Talbot, West Glamorgan, SA13 1NW Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	240	-	276674 189814
230	Contemporary Trade Directory Entries Name: Panel Match Location: 14, Station Road, Port Talbot, West Glamorgan, SA13 1JB Classification: Mobile Phone Accessories and Car Kits Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	244	-	276749 189777

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
230	Contemporary Trade Directory Entries Name: Employment Solutions.Com Location: 24, Station Road, Port Talbot, West Glamorgan, SA13 1JB Classification: Reclaiming - Waste Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	266	-	276730 189813
230	Contemporary Trade Directory Entries Name: Coloursmart Location: 20, Station Road, Port Talbot, West Glamorgan, SA13 1JB Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	266	-	276749 189803
230	Contemporary Trade Directory Entries Name: Coloursmart Location: 18, Station Road, Port Talbot, West Glamorgan, SA13 1JB Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	266	-	276749 189803
231	Contemporary Trade Directory Entries Name: C P Harvey (Recycling) Ltd Location: Old Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	259	-	276291 189747
232	Contemporary Trade Directory Entries Name: A L A Rail Ltd Location: Byass Works, The Docks, PORT TALBOT, West Glamorgan, SA13 1RS Classification: Railway Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	259	-	276250 189648
233	Contemporary Trade Directory Entries Name: Astra Service Centre Location: Oakwood Street, Port Talbot, West Glamorgan, SA13 1NF Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	274	-	276863 189742
234	Contemporary Trade Directory Entries Name: Paul'S Tyres Location: 1 Courtland Building,Courtland Place, Port Talbot, West Glamorgan, SA13 1JJ Classification: Tyre Dealers Status: Active Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	284	-	276783 189805
235	Contemporary Trade Directory Entries Name: Cockburn South West Ltd Location: Kenworth Buildings,Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Electrical Engineers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	287	-	276824 189208
236	Contemporary Trade Directory Entries Name: Raymond Joseph Engineers Ltd Location: Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	288	-	276287 189795
236	Contemporary Trade Directory Entries Name: Jem Recycling Ltd Location: Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	288	-	276287 189795
236	Contemporary Trade Directory Entries Name: Innotech (Wales) Ltd Location: Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	288	-	276287 189795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
236	Contemporary Trade Directory Entries Name: The Recycling Co Location: Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Reclaiming - Waste Products Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	288	-	276287 189795
236	Contemporary Trade Directory Entries Name: The Recycling Co Location: Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Recycling Centres Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	288	-	276286 189794
236	Contemporary Trade Directory Entries Name: M P L S Engineering Location: Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	307	-	276294 189834
237	Contemporary Trade Directory Entries Name: R & R (Wales) Ltd Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	302	-	276691 189135
237	Contemporary Trade Directory Entries Name: Planguard Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	302	-	276691 189135
237	Contemporary Trade Directory Entries Name: Independent Cleaning Services (South Wales) Ltd Location: Llewellyns Quay, The Docks, Port Talbot, West Glamorgan, SA13 1SD Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	309	-	276668 189122
237	Contemporary Trade Directory Entries Name: Independent Cleaning Services (South Wales) Ltd Location: Llewellyns Quay, The Docks, Port Talbot, West Glamorgan, SA13 1SD Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	309	-	276668 189122
237	Contemporary Trade Directory Entries Name: Speedy Asset Services Location: Unit 1, Llewellyns Quay, Port Talbot, SA13 1RF Classification: Lifting Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	310	-	276667 189121
238	Contemporary Trade Directory Entries Name: M C Windows Location: Cramic Way, The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: PVC-U Products - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	306	-	276378 189897
239	Contemporary Trade Directory Entries Name: Wales Valley Music Location: 77 Station Rd, Port Talbot, West Glamorgan, SA13 1NW Classification: Musical Instrument - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18SE (N)	310	-	276638 189911
240	Contemporary Trade Directory Entries Name: Talbot Hydraulics Location: Unit 7, Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Hydraulic Equipment & Accessories - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	333	-	276731 189116
240	Contemporary Trade Directory Entries Name: Quay Corporate Ltd Location: Unit 3, Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	333	-	276731 189116

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
240	Contemporary Trade Directory Entries Name: Turner Fluidpower Location: Unit 3, Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Hydraulic Equipment & Accessories - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	333	-	276731 189116
240	Contemporary Trade Directory Entries Name: Corporate Manufacturing Wales Ltd Location: Unit 3, Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	333	-	276731 189116
241	Contemporary Trade Directory Entries Name: Drake Services Location: 13, Devonshire Place, Port Talbot, West Glamorgan, SA13 1SG Classification: Rubbish Clearance Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	349	-	277033 189416
242	Contemporary Trade Directory Entries Name: Your Own Cash Machine Ltd Location: 103, Station Road, Port Talbot, West Glamorgan, SA13 1NR Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	369	-	276590 189988
242	Contemporary Trade Directory Entries Name: Supasnaps Location: 113, Station Road, Port Talbot, West Glamorgan, SA13 1NR Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	402	-	276586 190021
243	Contemporary Trade Directory Entries Name: Runtech Ltd Location: Unit 5, Llewellyns Quay, Port Talbot, SA13 1RF Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	383	-	276691 189051
244	Contemporary Trade Directory Entries Name: John Young & Co (Engineers) Ltd Location: Green Park Industrial Estate, Port Talbot, West Glamorgan, SA12 6NT Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	391	-	276291 189942
244	Contemporary Trade Directory Entries Name: Talbot Printing Co Ltd Location: Green Park Industrial Estate, Port Talbot, West Glamorgan, SA12 6NT Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	391	-	276291 189942
244	Contemporary Trade Directory Entries Name: Unigate Dairies Ltd Location: Green Park Indust Est, Port Talbot, West Glamorgan, SA12 6NT Classification: Dairies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18SW (NW)	391	-	276290 189942
245	Contemporary Trade Directory Entries Name: Spraytech Location: Runtech, Llewellyns Quay, Llewellyns Road, Port Talbot, SA13 1RF Classification: Paint Spraying Equipment & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	403	-	276643 189023
246	Contemporary Trade Directory Entries Name: Mitsui Babcock Energy Ltd Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	431	-	276755 189020
246	Contemporary Trade Directory Entries Name: J M Fabweld Ltd Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	431	-	276755 189020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
246	Contemporary Trade Directory Entries Name: Pump Supplies Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Pumps - Sales, Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	431	-	276755 189020
246	Contemporary Trade Directory Entries Name: Pamarch (1997) Ltd Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Coating Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	431	-	276755 189020
246	Contemporary Trade Directory Entries Name: Pump Supplies Location: Llewellyns Quay, Port Talbot, West Glamorgan, SA13 1RF Classification: Pumps - Sales, Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	431	-	276755 189020
247	Contemporary Trade Directory Entries Name: Afan Atom Electronic Repair Centre Location: 127a, Station Road, Port Talbot, West Glamorgan, SA13 1NR Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	437	-	276568 190060
247	Contemporary Trade Directory Entries Name: Computopia Location: RiversideUnit 36, Port Talbot, West Glamorgan, SA13 1EJ Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SW (N)	455	-	276508 190080
247	Contemporary Trade Directory Entries Name: Olympia Dry Cleaners Location: 5, Riverside, Port Talbot, West Glamorgan, SA13 1EJ Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	461	-	276530 190086
248	Contemporary Trade Directory Entries Name: Orange West Scaffolding Location: Green Pk Ind Est, Port Talbot, West Glamorgan, SA12 6NU Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	442	-	276154 189874
249	Contemporary Trade Directory Entries Name: Whirlpool Launderette Ltd Location: 96, Talbot Road, Port Talbot, West Glamorgan, SA13 1LB Classification: Laundries & Launderettes Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	455	-	277085 189240
249	Contemporary Trade Directory Entries Name: Whirlpool Launderette Ltd Location: 96, Talbot Road, Port Talbot, West Glamorgan, SA13 1LB Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	455	-	277085 189240
249	Contemporary Trade Directory Entries Name: Margam Windows & Doors Ltd Location: Cwrt-Ucha Terr, Port Talbot, West Glamorgan, SA13 1LD Classification: PVC-U Products - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14SW (SE)	482	-	277086 189190
250	Contemporary Trade Directory Entries Name: Valley Industrial Services Ltd Location: The Docks, Port Talbot, West Glamorgan, SA13 1RS Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	459	-	276040 189662
251	Contemporary Trade Directory Entries Name: Phil Reed Location: 14, Gower Street, Port Talbot, West Glamorgan, SA13 1SL Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	459	-	277124 189322

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	Contemporary Trade Directory Entries Name: Westley Of Cardiff Location: Unit 4 Water Street Business Centre, Water Street, Port Talbot, West Glamorgan, SA12 6LF Classification: Die-Casting Equipment & Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	474	-	276159 189933
252	Contemporary Trade Directory Entries Name: West Glamorgan Auto Electrical Location: Water St, Port Talbot, West Glamorgan, SA12 6LF Classification: Plant & Machinery Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	485	-	276154 189944
253	Contemporary Trade Directory Entries Name: Valley Reclamation Ltd Location: Green Park Industrial Estate, Port Talbot, West Glamorgan, SA12 6NU Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12NE (NW)	474	-	276096 189837
254	Contemporary Trade Directory Entries Name: Spraycare Body Repairs Location: 22, Forge Road, Port Talbot, West Glamorgan, SA13 1NU Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	488	-	276697 190080
254	Contemporary Trade Directory Entries Name: Anglia Location: 27a, Forge Road, Port Talbot, West Glamorgan, SA13 1US Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	528	-	276716 190115
254	Contemporary Trade Directory Entries Name: Anglia Window Blinds Location: 27a, Forge Road, Port Talbot, SA13 1US Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	528	-	276716 190115
255	Contemporary Trade Directory Entries Name: A T Auto Location: Cwrt-Ucha Terr, Port Talbot, West Glamorgan, SA13 1LD Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14SW (SE)	488	-	277090 189185
255	Contemporary Trade Directory Entries Name: L & J Car Repairs Location: Cwrt-Ucha Ter, Port Talbot, West Glamorgan, SA13 1LD Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	492	-	277092 189181
255	Contemporary Trade Directory Entries Name: M R M Location: Rear Of Cwrt-Ucha Terrace, Port Talbot, West Glamorgan, SA13 1LD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	492	-	277092 189181
255	Contemporary Trade Directory Entries Name: Motor Mender Location: 9, Cwrt-Ucha Terrace, Port Talbot, West Glamorgan, SA13 1LD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	515	-	277109 189165
256	Contemporary Trade Directory Entries Name: Bollom Ltd Location: 23, Aberafan Centre, Port Talbot, West Glamorgan, SA13 1PB Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	518	-	276407 190131

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
256	Contemporary Trade Directory Entries Name: Brighthouse Location: 21-22, Aberafan Centre, Port Talbot, SA13 1PB Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	523	-	276409 190136
257	Contemporary Trade Directory Entries Name: M R M Automotive Ltd Location: Cwrt-Ucha Terrace, Port Talbot, West Glamorgan, SA13 1LD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	518	-	277088 189132
258	Contemporary Trade Directory Entries Name: Margam Engineering & Welding Co Ltd Location: North Bank, The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	519	-	275978 189343
258	Contemporary Trade Directory Entries Name: Talbot Block Ltd Location: North Bank, The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	519	-	275978 189343
258	Contemporary Trade Directory Entries Name: Initial G W S Ltd Location: North Bank, The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	519	-	275978 189343
258	Contemporary Trade Directory Entries Name: G W S Ltd Location: North Bank, The Docks, Port Talbot, West Glamorgan, SA13 1RE Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	519	-	275978 189343
259	Contemporary Trade Directory Entries Name: Homestyle By Fads Location: Aberafan Centre, Port Talbot, West Glamorgan, SA13 1PB Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18SW (N)	528	-	276484 190152
260	Contemporary Trade Directory Entries Name: B Harwood & Son Ltd Location: Water Street, Port Talbot, West Glamorgan, SA12 6LF Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	544	-	276094 189964
261	Contemporary Trade Directory Entries Name: Blind Soft Location: Forge Rd, Port Talbot, West Glamorgan, SA13 1US Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	545	-	276786 190100
262	Contemporary Trade Directory Entries Name: Ats Euromaster Ltd Location: Afan Way, PORT TALBOT, West Glamorgan, SA12 6NR Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	574	-	275949 189744
263	Contemporary Trade Directory Entries Name: Klick Location: 8, Aberafan Centre, Port Talbot, West Glamorgan, SA13 1PB Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	586	-	276402 190199
263	Contemporary Trade Directory Entries Name: Bollom Ltd Location: Aberafan Centre, Port Talbot, West Glamorgan, SA13 1PB Classification: Dry Cleaners Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18NW (N)	599	-	276380 190208

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
264	Contemporary Trade Directory Entries Name: Celtic Specialist Treatments Ltd Location: The Docks, Port Talbot, West Glamorgan, SA13 1RH Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	276062 189052
264	Contemporary Trade Directory Entries Name: A & S Commercial Vehicle Repairs Location: A and S Commercial Repairs Ltd, Road From Riverside Road to Harbour House, Port Talbot, SA13 1RA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	589	-	276057 189055
265	Contemporary Trade Directory Entries Name: Sinclair Garages Ltd Location: Dan-y-Bryn Road, Port Talbot, West Glamorgan, SA13 1AL Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	600	-	277149 189914
265	Contemporary Trade Directory Entries Name: Sinclair Volkswagen Port Talbot Location: Dan-y-Bryn Road, Port Talbot, West Glamorgan, SA13 1AL Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	600	-	277149 189914
266	Contemporary Trade Directory Entries Name: Skelton Thomas Engineering Ltd Location: Water Street, Port Talbot, West Glamorgan, SA12 6LL Classification: Valve Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	609	-	275942 189820
267	Contemporary Trade Directory Entries Name: Cvc Recovery & Quality Used Parts Location: 15, St. Mary Street, Port Talbot, West Glamorgan, SA12 6DU Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	646	-	276210 190192
268	Contemporary Trade Directory Entries Name: Steel Solutions Wales Location: 7, Mayfield Street, Port Talbot, West Glamorgan, SA13 1EY Classification: Metal Products - Fabricated Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	653	-	277340 189480
269	Contemporary Trade Directory Entries Name: Olympus Catering Ltd Location: Isaacs Place, Port Talbot, West Glamorgan, SA12 6NP Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12NW (W)	659	-	275876 189791
269	Contemporary Trade Directory Entries Name: Proclean Location: Isaacs Pl, Port Talbot, West Glamorgan, SA12 6NP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (NW)	698	-	275849 189828
270	Contemporary Trade Directory Entries Name: Afan Way Services Location: Water St, Port Talbot, West Glamorgan, SA12 6LL Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	670	-	275904 189888
270	Contemporary Trade Directory Entries Name: Talbot Blind Co Location: 184, Water Street, Port Talbot, West Glamorgan, SA12 6LL Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	694	-	275886 189909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
271	Contemporary Trade Directory Entries Name: Compressed Air Services Ltd Location: Docks Road, The Docks, Port Talbot, SA13 1RA Classification: Air Compressors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	685	-	276223 188801
271	Contemporary Trade Directory Entries Name: Brynbach Coal Location: Docks Road, The Docks, Port Talbot, SA13 1RA Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	685	-	276223 188801
272	Contemporary Trade Directory Entries Name: Slade Colour Location: Tudor St, Port Talbot, West Glamorgan, SA13 1YF Classification: Printers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	688	-	276808 190250
273	Contemporary Trade Directory Entries Name: The Range Co Location: Unit 4, Isaacs Place, Port Talbot, SA12 6NP Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	692	-	275810 189707
274	Contemporary Trade Directory Entries Name: D M D Location: Phoenix Wharf, The Docks, Port Talbot, SA13 1RA Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	712	-	276343 188728
274	Contemporary Trade Directory Entries Name: Galliver Engineering Ltd Location: Phoenix Wharf, The Docks, Port Talbot, SA13 1RA Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	712	-	276343 188728
275	Contemporary Trade Directory Entries Name: Oates Engineering Services Location: Unit 1, Isaacs Place, Port Talbot, West Glamorgan, SA12 6NP Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	714	-	275785 189703
275	Contemporary Trade Directory Entries Name: R P Tyres & Exhaust Centre Location: Unit 4, Henshaw Street, Port Talbot, West Glamorgan, SA12 6NH Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	736	-	275764 189710
275	Contemporary Trade Directory Entries Name: Celtic Leather & Fabric Location: Unit 1, Henshaw Street, Port Talbot, SA12 6NH Classification: Textile Manufacturing Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	747	-	275759 189729
275	Contemporary Trade Directory Entries Name: Site Heat Treatment Services Ltd Location: Aberavon, SA12 6NH Classification: Heat Treatment - Metals Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	759	-	275746 189730
276	Contemporary Trade Directory Entries Name: Ready Steel Reinforcements Location: Talbot Wharf, The Docks, Port Talbot, West Glamorgan, SA13 1RH Classification: Concrete Reinforcements Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	816	-	275830 188984
277	Contemporary Trade Directory Entries Name: J E S Port Talbot Ltd Location: Phoenix Wharf, The Docks, Port Talbot, West Glamorgan, SA13 1RA Classification: Mechanical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	826	-	276773 188616

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
278	Contemporary Trade Directory Entries Name: Body Repair Centre Location: Henshaw St, Port Talbot, West Glamorgan, SA12 6NH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	831	-	275702 189820
278	Contemporary Trade Directory Entries Name: Morris Windows Location: Factory, Henshaw St, Port Talbot, West Glamorgan, SA12 6NH Classification: PVC-U Products - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	832	-	275702 189822
279	Contemporary Trade Directory Entries Name: Premier Sports & Leisure Apparel Ltd Location: Unit 3a Henshaw St, Port Talbot, West Glamorgan, SA12 6NH Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	840	-	275698 189834
279	Contemporary Trade Directory Entries Name: Dragon Heat Transfer Ltd Location: Unit 3, Henshaw St, Port Talbot, West Glamorgan, SA12 6NH Classification: Car Radiator Servicing & Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	847	-	275696 189846
279	Contemporary Trade Directory Entries Name: Port Talbot Exhaust & Service Centre Location: 5, Henshaw Street, Port Talbot, West Glamorgan, SA12 6NH Classification: Exhaust & Shock Absorber Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	848	-	275688 189831
279	Contemporary Trade Directory Entries Name: Universal Heat Transfer Ltd Location: 3, Henshaw Street, Port Talbot, West Glamorgan, SA12 6NH Classification: Heat Exchangers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	851	-	275687 189837
279	Contemporary Trade Directory Entries Name: Celtic Leather & Fabric Upholstery Ltd Location: 1, Henshaw Street, Port Talbot, West Glamorgan, SA12 6NH Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	855	-	275685 189843
279	Contemporary Trade Directory Entries Name: Boat Bits Location: 1, Glyn Street, Port Talbot, West Glamorgan, SA12 6NF Classification: Chandlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	888	-	275654 189850
280	Contemporary Trade Directory Entries Name: Celtic Engineering Services Ltd Location: Phoenix Wharf, The Docks, Port Talbot, West Glamorgan, SA13 1RA Classification: Engineering Services Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	845	-	276629 188578
281	Contemporary Trade Directory Entries Name: Afan Valley Cars Location: Cwmavon Road, Port Talbot, SA12 8RF Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	871	-	276790 190453
281	Contemporary Trade Directory Entries Name: Afan Valley Motors Location: Cwmavon Road, PORT TALBOT, West Glamorgan, SA12 8RF Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	871	-	276790 190453
282	Contemporary Trade Directory Entries Name: Ron Evans Pies Location: 17, Commercial Road, PORT TALBOT, West Glamorgan, SA13 1LN Classification: Food Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	888	-	277394 188923

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
282	Contemporary Trade Directory Entries Name: A B C Tyres Tyre Service Location: 21, Commercial Road, Port Talbot, SA13 1LN Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	904	-	277405 188911
283	Contemporary Trade Directory Entries Name: Roger Davies Ltd Location: 2, Sea View Terrace, Baglan, Port Talbot, SA12 8HW Classification: Car Engine Tuning & Diagnostic Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	921	-	276291 190517
284	Contemporary Trade Directory Entries Name: Speedgold Ltd Location: Pierhead, The Docks, Port Talbot, West Glamorgan, SA13 1RH Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	951	-	275668 188996
285	Contemporary Trade Directory Entries Name: Pioneer Maintenance Services Location: 32, Rees Street, Port Talbot, West Glamorgan, SA12 6HB Classification: Swimming Pool Contractors, Repairers & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	984	-	275985 190451
286	Contemporary Trade Directory Entries Name: K Roberts Motors Location: 63, Sandfields Road, Port Talbot, SA12 6LR Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	996	-	275642 190096
286	Contemporary Trade Directory Entries Name: Fairfield Garage Location: 63, Sandfields Road, Port Talbot, West Glamorgan, SA12 6LR Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	997	-	275642 190096
286	Contemporary Trade Directory Entries Name: D M Motors Location: Alfred Street, Port Talbot, West Glamorgan, SA12 6UL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	997	-	275666 190139
287	Fuel Station Entries Name: Port Talbot Service Station Location: Port Talbot Service Station, Talbot Road, Port Talbot, West Glamorgan, SA13 1HN Brand: Low Prices Always Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A13NE (E)	139	-	276821 189553
288	Fuel Station Entries Name: Afan Way Service Station Location: Afan Way, PORT TALBOT, West Glamorgan, SA12 6NR Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A12NE (NW)	591	-	275967 189835
289	Fuel Station Entries Name: Sinclair Garage Location: Bridge Terrace Dan-y-Bryn Road, PORT TALBOT, West Glamorgan, SA13 1AL Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A19SW (NE)	600	-	277149 189914
290	Fuel Station Entries Name: Tesco Port Talbot East Bank Location: Prior Street, Port Talbot, West Glamorgan, SA13 1YA Brand: TESCO Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A18NE (N)	725	-	276708 190325

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
291	Fuel Station Entries Name: Performance Centre Location: Talbot Road, PORT TALBOT, West Glamorgan, SA13 1HN Brand: OBSOLETE Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A9NE (SE)	778	-	277320 189008
292	Fuel Station Entries Name: Fairfield Garage Proteus Location: 63, SANDIFIELDS ROAD, PORT TALBOT, West Glamorgan, SA12 6LR Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A17SW (NW)	997	-	275642 190096
293	Points of Interest - Commercial Services Name: A & S Commercial Repairs Location: Docks Road, The Docks, Port Talbot, SA13 1RA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	54	9	276479 189385
294	Points of Interest - Commercial Services Name: Astra Park Service Centre Location: Unit 5 Astra Business Park, Cramic Way, Port Talbot, SA13 1RU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (N)	69	9	276552 189687
294	Points of Interest - Commercial Services Name: Astra Park Service Centre Location: Unit 5 Astra Business Park, Cramic Way, Port Talbot, SA13 1RU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (N)	69	9	276552 189687
295	Points of Interest - Commercial Services Name: Michael J Farmer Location: Cramic Way, Port Talbot, SA13 1RU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	91	9	276668 189648
295	Points of Interest - Commercial Services Name: Mjf Location: Cramic Way, Port Talbot, SA13 1RU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	91	9	276668 189648
295	Points of Interest - Commercial Services Name: Mpg Tyre & Exhausts Location: Unit 16, Cramic Way, Port Talbot, SA13 1RU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	91	9	276668 189648
295	Points of Interest - Commercial Services Name: M P G Tyres & Exhausts Location: Unit 16, Cramic Way, Port Talbot, SA13 1RU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	91	9	276668 189648
296	Points of Interest - Commercial Services Name: Port Talbot Service Station Location: Port Talbot Service Station, Talbot Road, Port Talbot, SA13 1HN Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NE (E)	138	9	276821 189552
296	Points of Interest - Commercial Services Name: Car Wash Location: Port Talbot Service Station, Talbot Road, Port Talbot, SA13 1HN Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NE (E)	139	9	276821 189553

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
297	Points of Interest - Commercial Services Name: W Doyle Transport Location: Llewellyns Quay, Port Talbot, SA13 1RF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (SE)	174	9	276693 189273
298	Points of Interest - Commercial Services Name: Astra Park Service Centre Ltd Location: Oakwood Lane, Port Talbot, SA13 1DF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	234	9	276862 189687
299	Points of Interest - Commercial Services Name: It Asset Disposal Ltd Location: Unit 2e, Cramic Way, Port Talbot, SA13 1RU Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A13NW (N)	239	9	276437 189849
299	Points of Interest - Commercial Services Name: M J F Car Body Repairs Location: Unit 1b, Cramic Way, Port Talbot, SA13 1RU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (NW)	306	9	276378 189897
300	Points of Interest - Commercial Services Name: Kickstart Location: 51a Talbot Road, Port Talbot, SA13 1HU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	249	9	276934 189423
301	Points of Interest - Commercial Services Name: The Recycling Co Location: Byass Works, The Docks, Port Talbot, SA13 1RS Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A13NW (NW)	288	9	276287 189795
301	Points of Interest - Commercial Services Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	334	9	276246 189816
301	Points of Interest - Commercial Services Name: Scrap Yard Location: SA13 Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A12NE (NW)	336	9	276241 189813
302	Points of Interest - Commercial Services Name: Runtech Ltd Location: Unit 5, Llewellyns Quay, Port Talbot, SA13 1RF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (S)	340	9	276588 189082
302	Points of Interest - Commercial Services Name: Runtech Hauliers Location: Llewellyns Quay, Port Talbot, SA13 1RF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (S)	340	9	276589 189082
303	Points of Interest - Commercial Services Name: Planguard Location: Llewellyns, Quay, Port Talbot, SA13 1RF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	353	9	276727 189094
304	Points of Interest - Commercial Services Name: Smart Revolution Location: 89 Talbot Road, Port Talbot, SA13 1LA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14SW (SE)	360	9	277008 189296

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
305	Points of Interest - Commercial Services Name: Egan Metals Recycling Ltd Location: Byass Works, The Docks, Port Talbot, SA13 1RS Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12NE (W)	368	9	276141 189671
306	Points of Interest - Commercial Services Name: Valley Waste Metal Services Location: Green Park Industrial Estate, Port Talbot, SA12 6NT Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A12NE (NW)	423	9	276145 189820
307	Points of Interest - Commercial Services Name: M R M Location: Cwrt-Ucha Terrace, Port Talbot, SA13 1LD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	464	9	277053 189175
307	Points of Interest - Commercial Services Name: M R M Location: Cwrt-Ucha Terrace, Port Talbot, SA13 1LD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	465	9	277053 189174
307	Points of Interest - Commercial Services Name: Motor Mender Location: 9 Cwrt-Ucha Terrace, Port Talbot, SA13 1LD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	515	9	277109 189165
307	Points of Interest - Commercial Services Name: Motor Mender Location: 9 Cwrt-Ucha Terrace, Port Talbot, SA13 1LD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	515	9	277109 189165
307	Points of Interest - Commercial Services Name: M R M Automotive Ltd Location: Cwrt-Ucha Terrace, Port Talbot, SA13 1LD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	518	9	277088 189132
308	Points of Interest - Commercial Services Name: Spraycare Body Repairs Location: 22 Forge Road, Port Talbot, SA13 1NU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	488	9	276697 190080
309	Points of Interest - Commercial Services Name: B Harwood & Son Location: Water Street, Port Talbot, SA12 6LF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	544	9	276094 189964
309	Points of Interest - Commercial Services Name: B Harwood & Son Ltd Location: Water Street, Port Talbot, SA12 6LF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	545	9	276093 189964
310	Points of Interest - Commercial Services Name: Tesco Port Talbot East Bank Location: Prior, Street, Port Talbot, SA13 1YA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18NE (N)	725	9	276708 190325
310	Points of Interest - Commercial Services Name: Car Wash Location: Prior Street, Port Talbot, West Glamorgan, SA13 1YA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18NE (N)	725	9	276708 190325

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
311	Points of Interest - Commercial Services Name: Scrap Yard Location: SA13 Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	787	9	277127 190185
312	Points of Interest - Commercial Services Name: Car Care Location: 66 Cwmavon Road, Port Talbot, SA12 8RF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	878	9	276793 190459
313	Points of Interest - Commercial Services Name: Taibach Autos Location: 21 Commercial Road, Port Talbot, SA13 1LN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	904	9	277405 188911
314	Points of Interest - Commercial Services Name: Roger Davies Ltd Location: 2 Sea View Terrace, Baglan, Port Talbot, SA12 8HW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	921	9	276291 190517
314	Points of Interest - Commercial Services Name: Green Flag Location: 2 Sea View Terrace, Port Talbot, SA12 8HW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	921	9	276291 190517
315	Points of Interest - Commercial Services Name: D M Location: 1 Alfred Street, Port Talbot, SA12 6UL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	981	9	275675 190125
315	Points of Interest - Commercial Services Name: D M Motors Location: 1 Alfred Street, Port Talbot, SA12 6UL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	981	9	275675 190124
315	Points of Interest - Commercial Services Name: K Roberts Motors Location: 63 Sandfields Road, Port Talbot, SA12 6LR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	997	9	275641 190096
315	Points of Interest - Commercial Services Name: Fairfield Garage Location: 63 Sandfields Road, Port Talbot, SA12 6LR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	997	9	275642 190096
316	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: SA13 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	0	9	276558 189546
317	Points of Interest - Manufacturing and Production Name: Tanks Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	28	9	276550 189640
317	Points of Interest - Manufacturing and Production Name: Towngate Business Centre Location: SA13 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	79	9	276545 189700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
318	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	93	9	276773 189504
319	Points of Interest - Manufacturing and Production Name: Tanks Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	131	9	276390 189402
319	Points of Interest - Manufacturing and Production Name: Steel Works Wharf Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	159	9	276396 189321
320	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SE (SE)	201	9	276697 189246
320	Points of Interest - Manufacturing and Production Name: Tanks Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	203	9	276705 189247
320	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SE (SE)	204	9	276700 189244
321	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	230	9	276304 189706
322	Points of Interest - Manufacturing and Production Name: Port Talbot Industrial Estate Location: SA13 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	267	9	276211 189445
323	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	347	9	276772 189883
323	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	347	9	276772 189883
324	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	380	9	276312 189943
325	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	411	9	276608 189012

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
326	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	432	9	276807 189042
327	Points of Interest - Manufacturing and Production Name: Tanks Location: SA12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	469	9	276038 189683
327	Points of Interest - Manufacturing and Production Name: Tank Location: SA12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (W)	472	9	276032 189678
327	Points of Interest - Manufacturing and Production Name: Tank Location: SA12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (W)	475	9	276030 189680
327	Points of Interest - Manufacturing and Production Name: Tank Location: SA12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (W)	477	9	276028 189682
328	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	470	9	277057 189170
328	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	501	9	277076 189145
328	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	501	9	277076 189144
329	Points of Interest - Manufacturing and Production Name: Roderick E W Sons Monumental ScIptrs Location: Brynheulog Street, Port Talbot, SA13 1AF Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A14NE (E)	666	9	277346 189604
330	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	678	9	275826 189713
330	Points of Interest - Manufacturing and Production Name: Works Location: SA12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	683	9	275820 189712
331	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	687	9	276577 188732

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
332	Points of Interest - Manufacturing and Production Name: Tank Location: SA12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	752	9	275778 189795
333	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	776	9	276663 188650
333	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SE (S)	784	9	276659 188642
333	Points of Interest - Manufacturing and Production Name: Tanks Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	794	9	276664 188632
333	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SE (S)	796	9	276651 188629
333	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SE (S)	806	9	276667 188621
333	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	831	9	276639 188593
333	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	840	9	276642 188584
334	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	838	9	276021 188746
334	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	838	9	276021 188745
334	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	860	9	275986 188745
335	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	840	9	276986 188674

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
335	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	842	9	276987 188673
336	Points of Interest - Manufacturing and Production Name: Tank Location: SA13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	883	9	277206 188746
337	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	923	9	276892 188547
337	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	924	9	276892 188546
338	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	940	9	277154 188645
338	Points of Interest - Manufacturing and Production Name: Works Location: SA13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	940	9	277154 188645
339	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	970	9	276159 188518
340	Points of Interest - Manufacturing and Production Name: Tank Location: SA12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	975	9	275531 189761
341	Points of Interest - Public Infrastructure Name: Port Talbot Parkway Rail Station Location: Heilbronn Way, SA13 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A13NE (NE)	137	9	276662 189703
341	Points of Interest - Public Infrastructure Name: Port Talbot Parkway Station Location: Heilbronn Way, SA13 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A13NE (NE)	137	9	276662 189703
342	Points of Interest - Public Infrastructure Name: Texaco Location: Port Talbot Service Station, Talbot Road, Port Talbot, SA13 1HN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (E)	138	9	276821 189552
342	Points of Interest - Public Infrastructure Name: Port Talbot Service Stations Location: Port Talbot Service Station, Talbot Road, Port Talbot, SA13 1HN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (E)	139	9	276821 189553

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
342	Points of Interest - Public Infrastructure Name: Port Talbot Sstn Location: Port Talbot Service Station, Talbot Road, Port Talbot, SA13 1HN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (E)	139	9	276821 189553
342	Points of Interest - Public Infrastructure Name: Port Talbot Service Station Location: Port Talbot Service Station, Talbot Road, Port Talbot, SA13 1HN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (E)	139	9	276821 189553
343	Points of Interest - Public Infrastructure Name: Port Talbot Police Station Location: Station Road, Port Talbot, SA13 1JB Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	206	9	276809 189698
344	Points of Interest - Public Infrastructure Name: It Asset Disposal Ltd Location: Unit 2e, Cramic Way, Port Talbot, SA13 1RU Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A13NW (N)	239	9	276437 189849
345	Points of Interest - Public Infrastructure Name: The Recycling Co Location: Byass Works, The Docks, Port Talbot, West Glamorgan, SA13 1RS Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A13NW (NW)	288	9	276286 189794
346	Points of Interest - Public Infrastructure Name: Drake Clearance Services Location: 13 Devonshire Place, Port Talbot, SA13 1SG Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SW (E)	349	9	277033 189416
347	Points of Interest - Public Infrastructure Name: Bus Station Location: SA13 Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A18SW (N)	448	9	276395 190055
348	Points of Interest - Public Infrastructure Name: Outfall Location: SA13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	458	9	276873 189042
349	Points of Interest - Public Infrastructure Name: Sluice Location: SA12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	472	9	276058 189741
349	Points of Interest - Public Infrastructure Name: Weir Location: SA12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	473	9	276049 189721
349	Points of Interest - Public Infrastructure Name: Weir Location: SA12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	475	9	276058 189751
349	Points of Interest - Public Infrastructure Name: Sluice Location: SA12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	493	9	276021 189706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
349	Points of Interest - Public Infrastructure Name: Sluice Location: SA12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	514	9	276013 189743
350	Points of Interest - Public Infrastructure Name: Graveyard Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	492	9	276182 189983
350	Points of Interest - Public Infrastructure Name: Graveyard Location: SA12 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	492	9	276183 189984
350	Points of Interest - Public Infrastructure Name: Cemetery Location: SA12 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	542	9	276198 190061
350	Points of Interest - Public Infrastructure Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	546	9	276191 190061
351	Points of Interest - Public Infrastructure Name: Tesco Petrol Filling Station Location: Prior St, Port Talbot, West Glamorgan, SA13 1YA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18SW (N)	528	9	276484 190152
352	Points of Interest - Public Infrastructure Name: Outfall Location: SA12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	634	9	275859 189671
353	Points of Interest - Public Infrastructure Name: Tesco Port Talbot East Bank Location: Prior, Street, Port Talbot, SA13 1YA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18NE (N)	725	9	276708 190325
354	Points of Interest - Public Infrastructure Name: Weir Location: SA13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	733	9	277145 188888
355	Points of Interest - Public Infrastructure Name: Outfall Location: SA12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	738	9	275747 189646
356	Points of Interest - Public Infrastructure Name: Outfall Location: SA12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	841	9	275635 189593
356	Points of Interest - Public Infrastructure Name: Outfall Location: SA12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	865	9	275607 189547

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
357	Points of Interest - Public Infrastructure Name: Weir Location: SA13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	856	9	277539 189379
358	Points of Interest - Public Infrastructure Name: Weir Location: SA13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A11SE (W)	996	9	275524 189196
359	Points of Interest - Recreational and Environmental Name: Playground Location: Park Street, SA13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14SE (E)	746	9	277381 189186
359	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	751	9	277391 189198
360	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	784	9	276490 190409
360	Points of Interest - Recreational and Environmental Name: Playground Location: Glen View Terrace, SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NW (N)	787	9	276504 190412
361	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	849	9	276005 190300
361	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	905	9	275968 190343
361	Points of Interest - Recreational and Environmental Name: Playground Location: Hopkin Street, SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A17NE (NW)	917	9	275959 190351
362	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	883	9	276905 190419
362	Points of Interest - Recreational and Environmental Name: Playground Location: Cross Street, SA13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	884	9	276905 190420

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Bridgend County Borough Council - Environmental Health Department City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	January 2015 January 2015 March 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 January 2017	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Welsh Region Natural Resources Wales	April 2017 November 2016	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Swansea Bay Port Health Authority Neath Port Talbot County Borough Council - Environmental Health Department Bridgend County Borough Council - Environmental Health Department City and County of Swansea - Environmental Health Department	April 2014 August 2012 July 2015 June 2014	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Swansea Bay Port Health Authority Bridgend County Borough Council - Environmental Health Department City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	April 2014 July 2015 June 2014 March 2014	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Swansea Bay Port Health Authority Bridgend County Borough Council - Environmental Health Department City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	April 2014 July 2015 June 2014 March 2014	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	March 2017	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	As notified As notified
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	As notified As notified
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 January 2015	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	April 2017 January 2017	Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Natural Resources Wales Environment Agency - Welsh Region	January 2017 October 2016	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	April 2017 October 2015	Quarterly Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Natural Resources Wales	November 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	May 2017	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	May 2017	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	May 2017	Quarterly
Flood Water Storage Areas Natural Resources Wales	May 2017	Quarterly
Flood Defences Natural Resources Wales	May 2017	Quarterly
OS Water Network Lines Ordnance Survey	April 2017	6 Weekly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water Suitability Natural Resources Wales	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	May 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South West Area Natural Resources Wales	May 2017 May 2017	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Natural Resources Wales Environment Agency Wales - South West Area	January 2017 May 2017	Quarterly Quarterly
Local Authority Landfill Coverage Bridgend County Borough Council City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Bridgend County Borough Council City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 May 2000 September 2003	Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Bridgend County Borough Council - Planning Department City and County of Swansea - Planning Department Neath Port Talbot County Borough Council - Planning Department	February 2016 January 2016 October 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Bridgend County Borough Council - Planning Department City and County of Swansea - Planning Department Neath Port Talbot County Borough Council - Planning Department	February 2016 January 2016 October 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2017	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	As notified
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

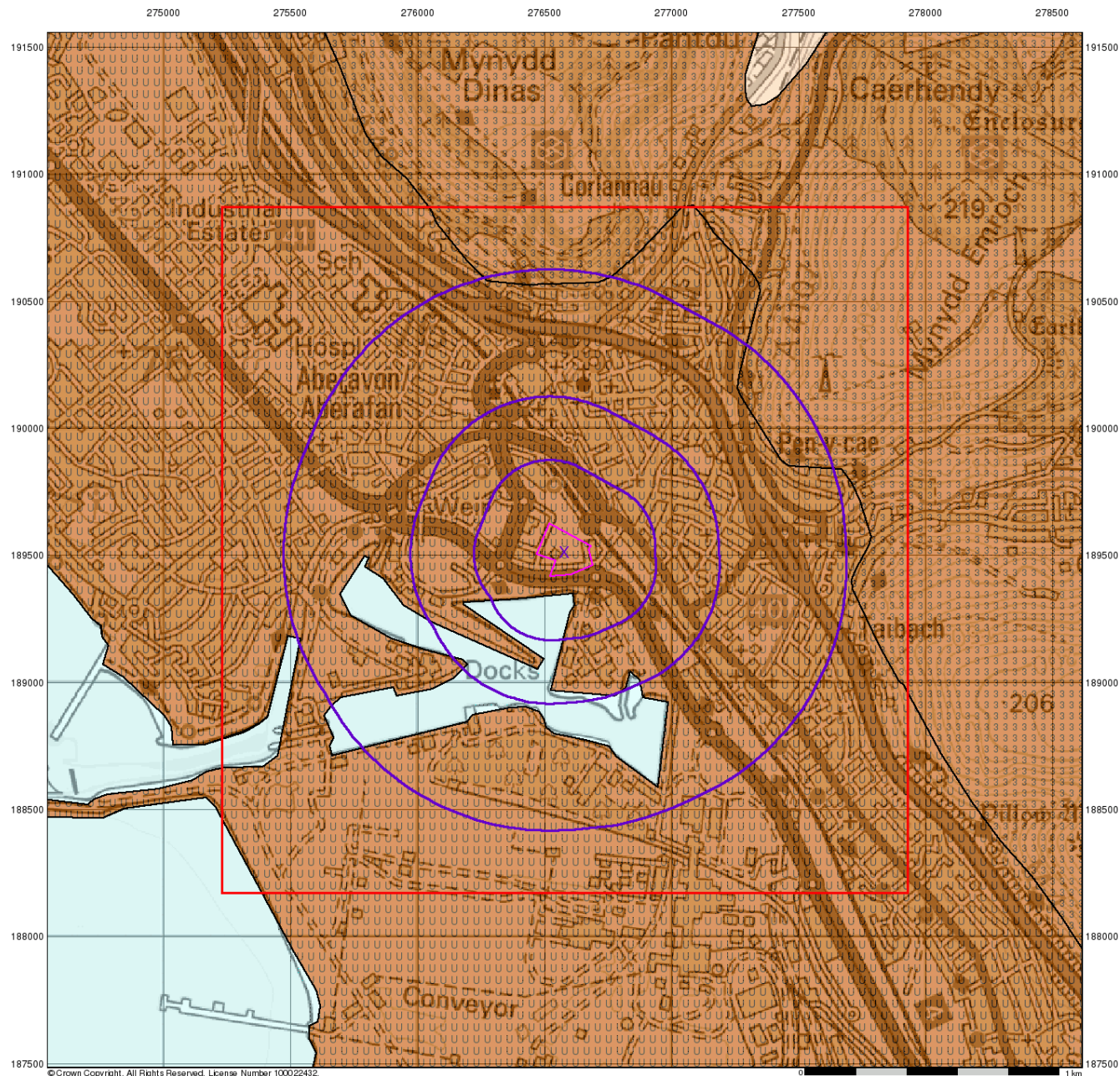
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	March 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2016	Quarterly
Points of Interest - Education and Health PointX	December 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2016	Quarterly
Points of Interest - Public Infrastructure PointX	December 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2016	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	January 2014	Bi-Annually
Areas of Adopted Green Belt City and County of Swansea	May 2017	As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	January 2017	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Bridgend County Borough Council City and County of Swansea Neath Port Talbot County Borough Council	January 2017 January 2017 January 2017	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	January 2017	Bi-Annually
National Nature Reserves Natural Resources Wales	January 2017	Bi-Annually
National Parks Natural Resources Wales	February 2017	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
Ramsar Sites Natural Resources Wales	January 2017	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	January 2017	Bi-Annually
Special Areas of Conservation Natural Resources Wales	January 2017	Bi-Annually
Special Protection Areas Natural Resources Wales	January 2017	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Neath Port Talbot County Borough Council - Environmental Health Department Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 023 8079 2000 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	Neath Port Talbot County Borough Council - Planning Department Port Talbot Civic Centre, Port Talbot, SA13 1PJ	Telephone: 01639 763333 Fax: 01639 763444 Website: www.neath-porttalbot.gov.uk
8	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



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Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

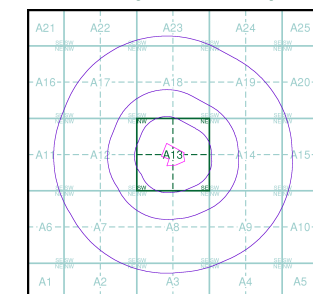
Drift Deposit

Soil Classes

High (H) 1, 2, 3, U
Intermediate (I) 1, 2
Low

High (H) 1, 2, 3, U
Intermediate (I) 1, 2
Low

Site Sensitivity Context Map - Slice A



Order Details

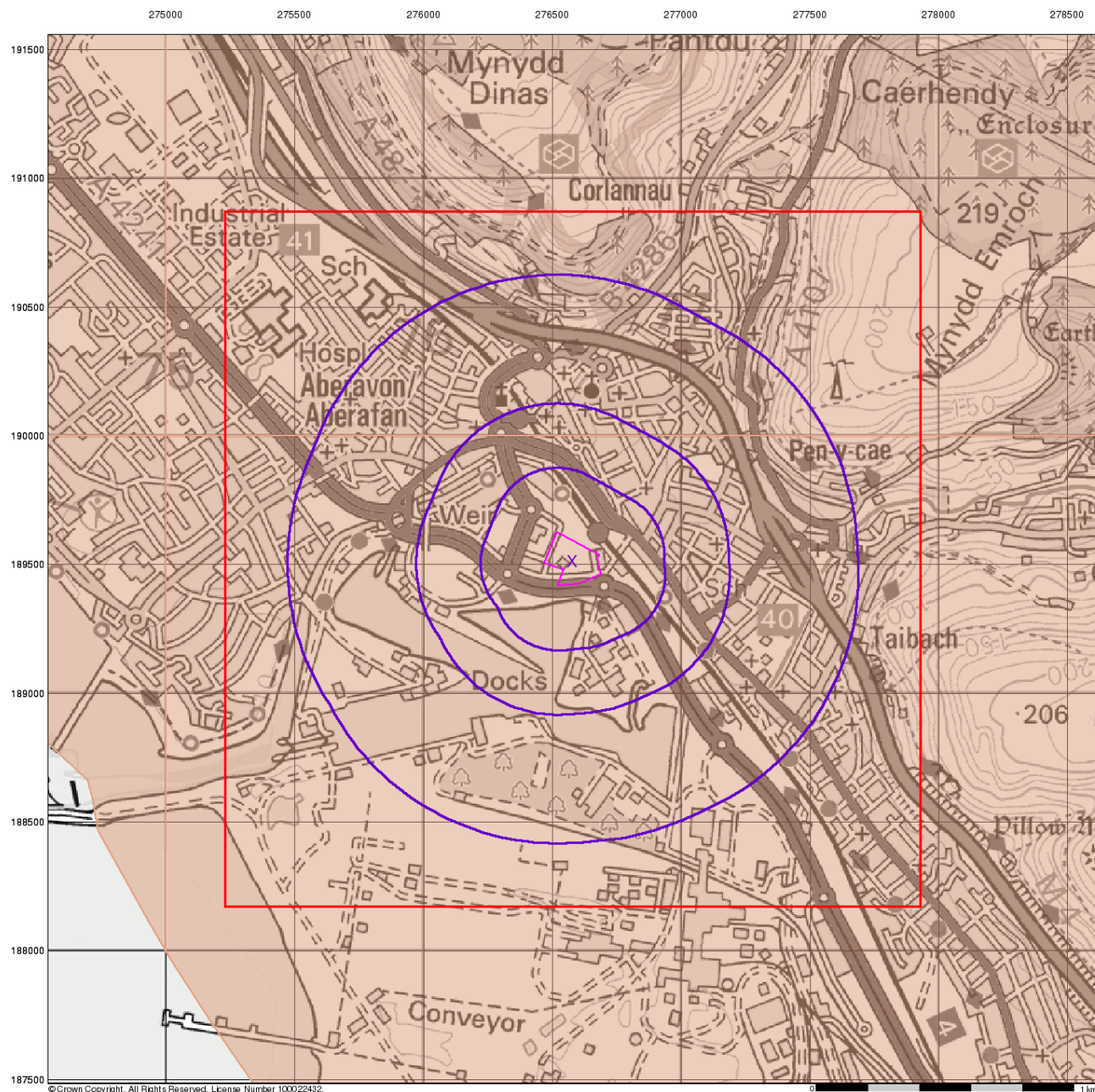
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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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Bedrock Aquifer Designation

General

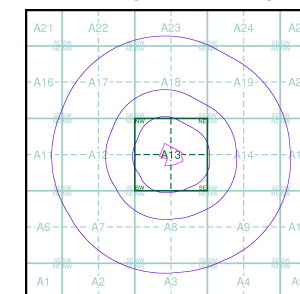
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

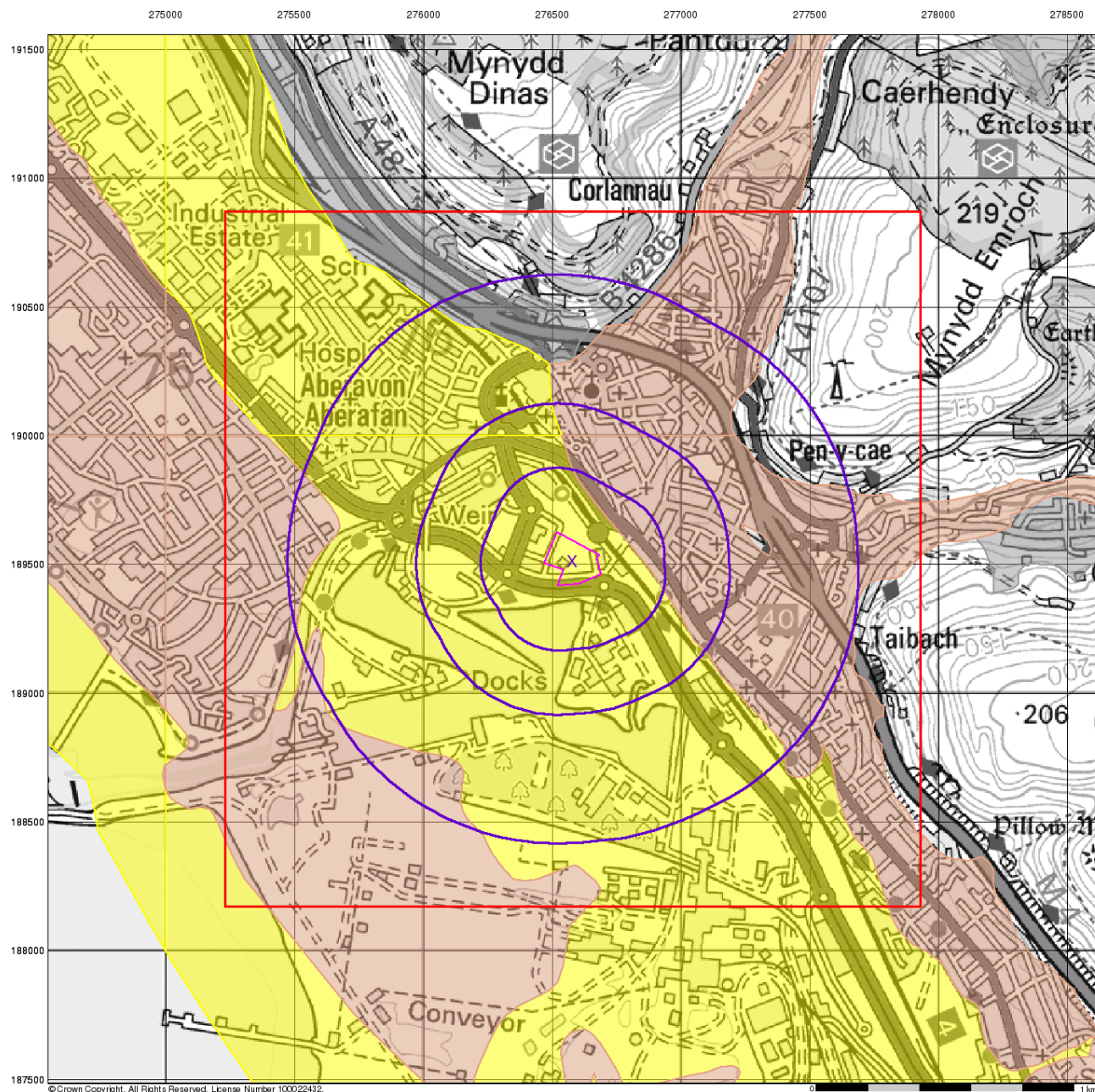
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 Slice: A
 Site Area (Ha): 2.7
 Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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Superficial Aquifer Designation

General

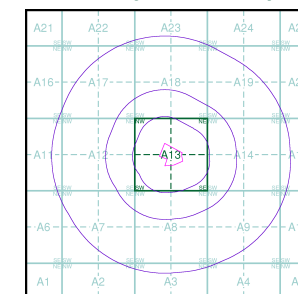
- ✕ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

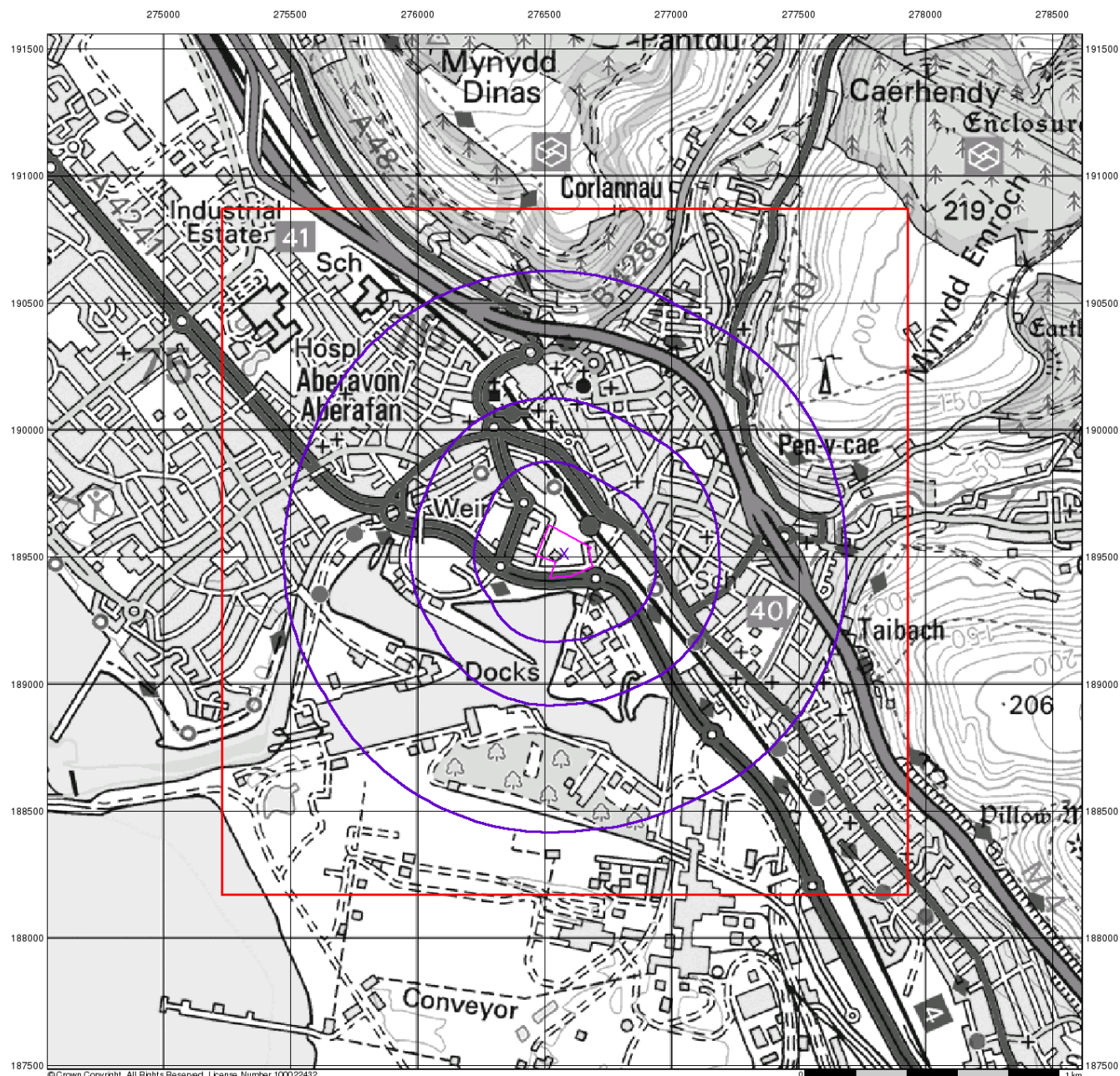
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 Customer Ref: V-C8602.00
 National Grid Reference: 276580, 189510
 Slice: A
 Site Area (Ha): 2.7
 Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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Source Protection Zones

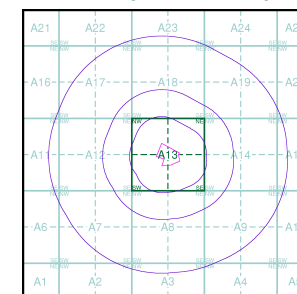
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

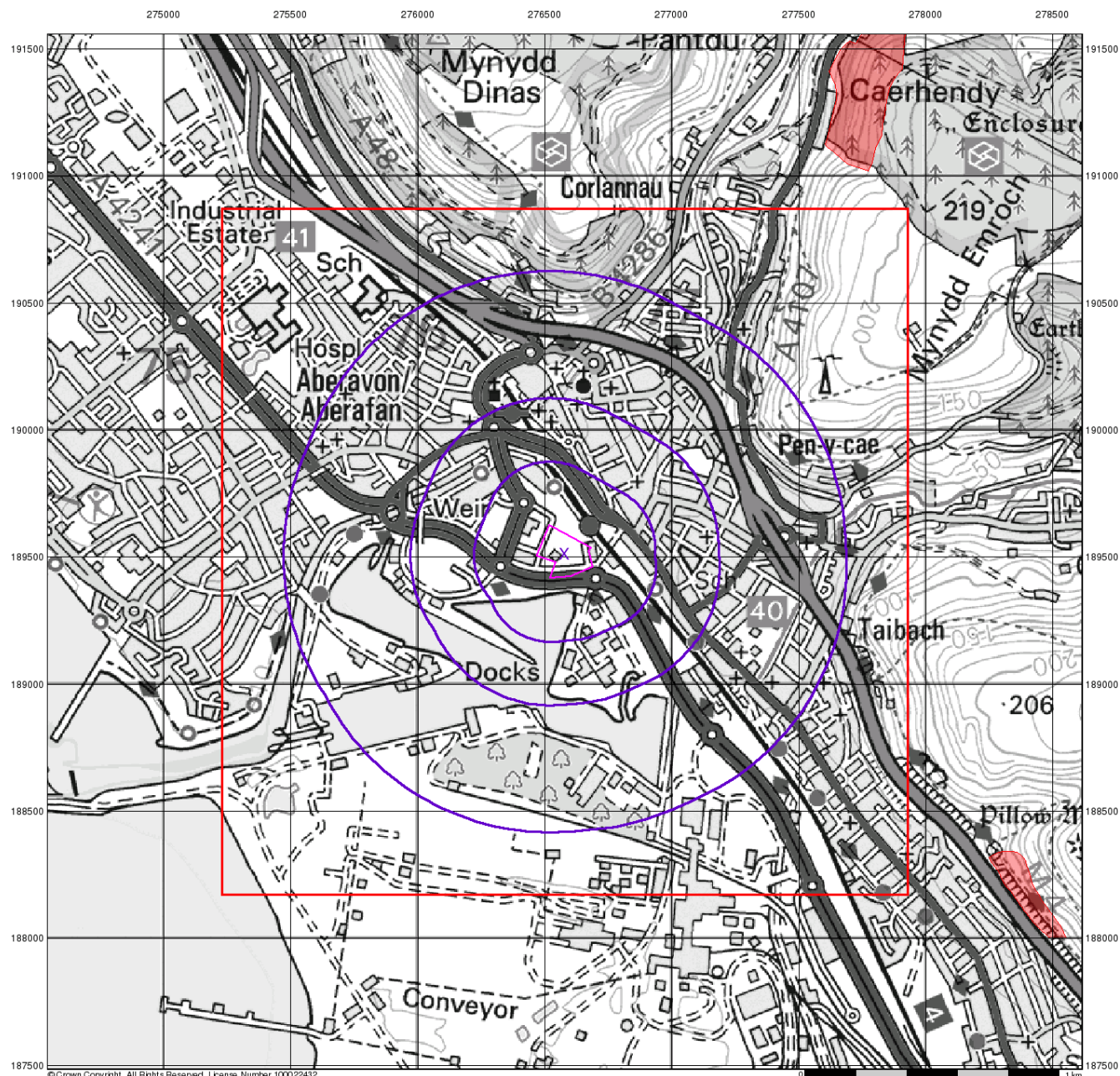
Order Number: 128172853_1_1
 Customer Ref: V-C8602.00
 National Grid Reference: 276580, 189510
 Slice: A
 Site Area (Ha): 2.7
 Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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Sensitive Land Uses

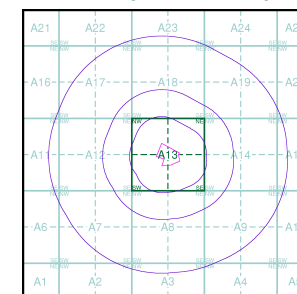
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

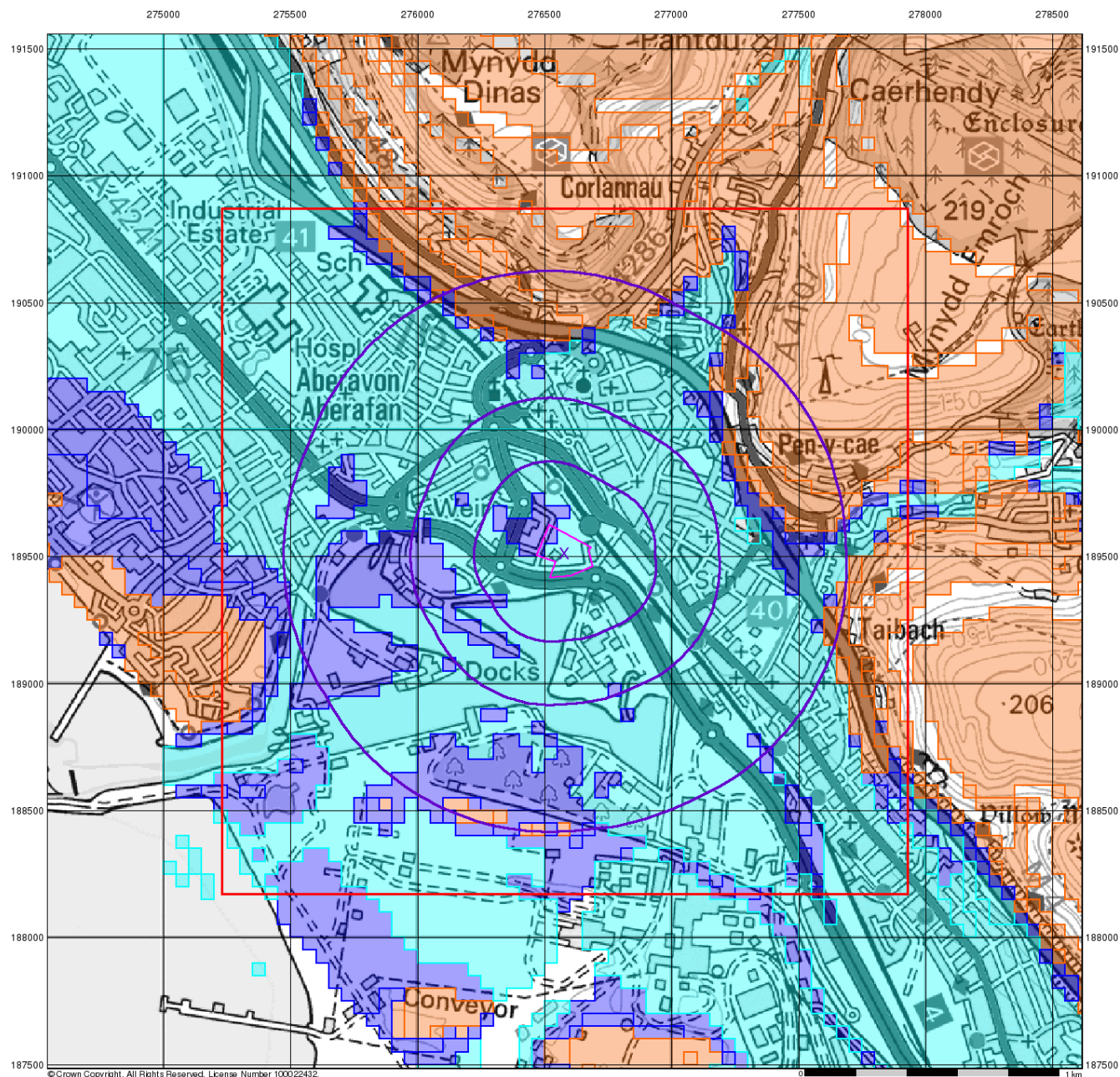
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 Slice: A
 Site Area (Ha): 2.7
 Search Buffer (m): 1000

Site Details

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BGS Flood GFS Data

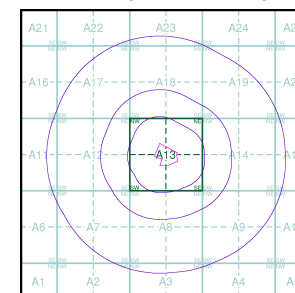
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

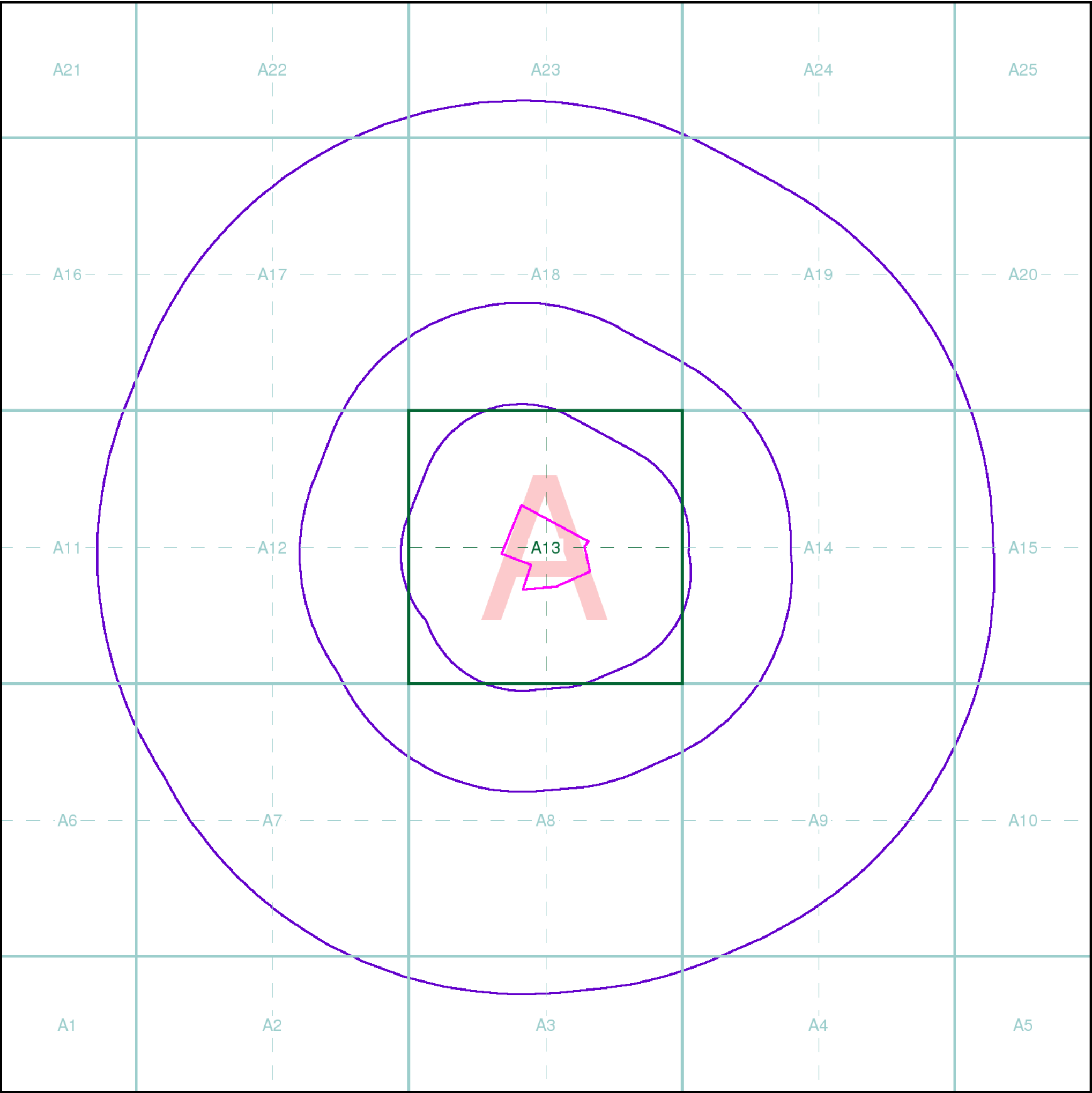
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 Slice: A
 Site Area (Ha): 2.7
 Search Buffer (m): 1000

Site Details

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



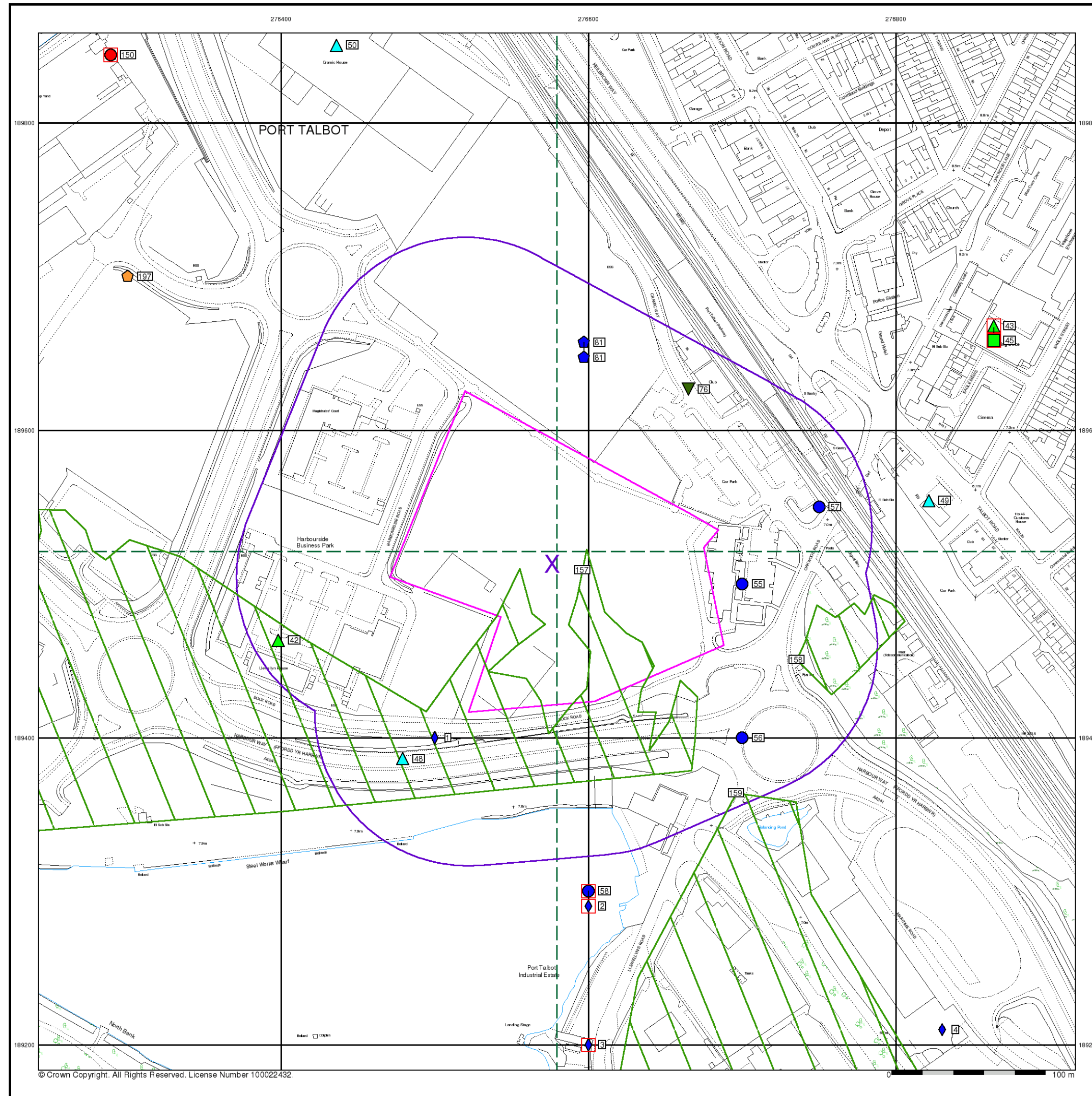
Envirocheck reports are compiled from 136 different sources of data.

Client Details
Mr J Peacock, Opus International Consultants (UK) Ltd,
Unit 2 Fountain Court, Fountain Lane, St Mellons, Cardiff,
CF3 0FB

Order Details
Order Number: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details
1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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<http://www.landmarkinfo.co.uk/Terms/Show/515>

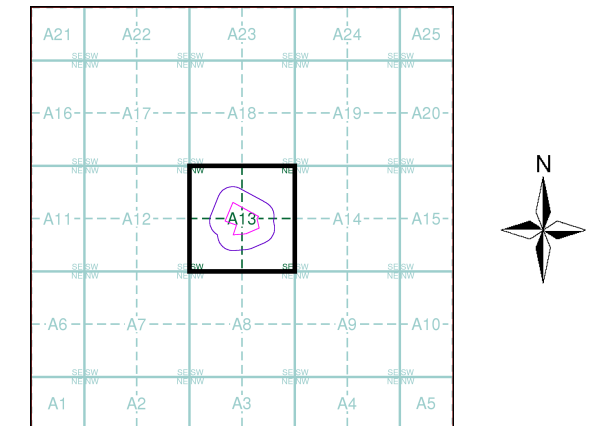


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General

- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Types at Location
 - Pylon
 - Overhead Transmission Line
- ## Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- ## Hazardous Substances
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- ## Waste
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13

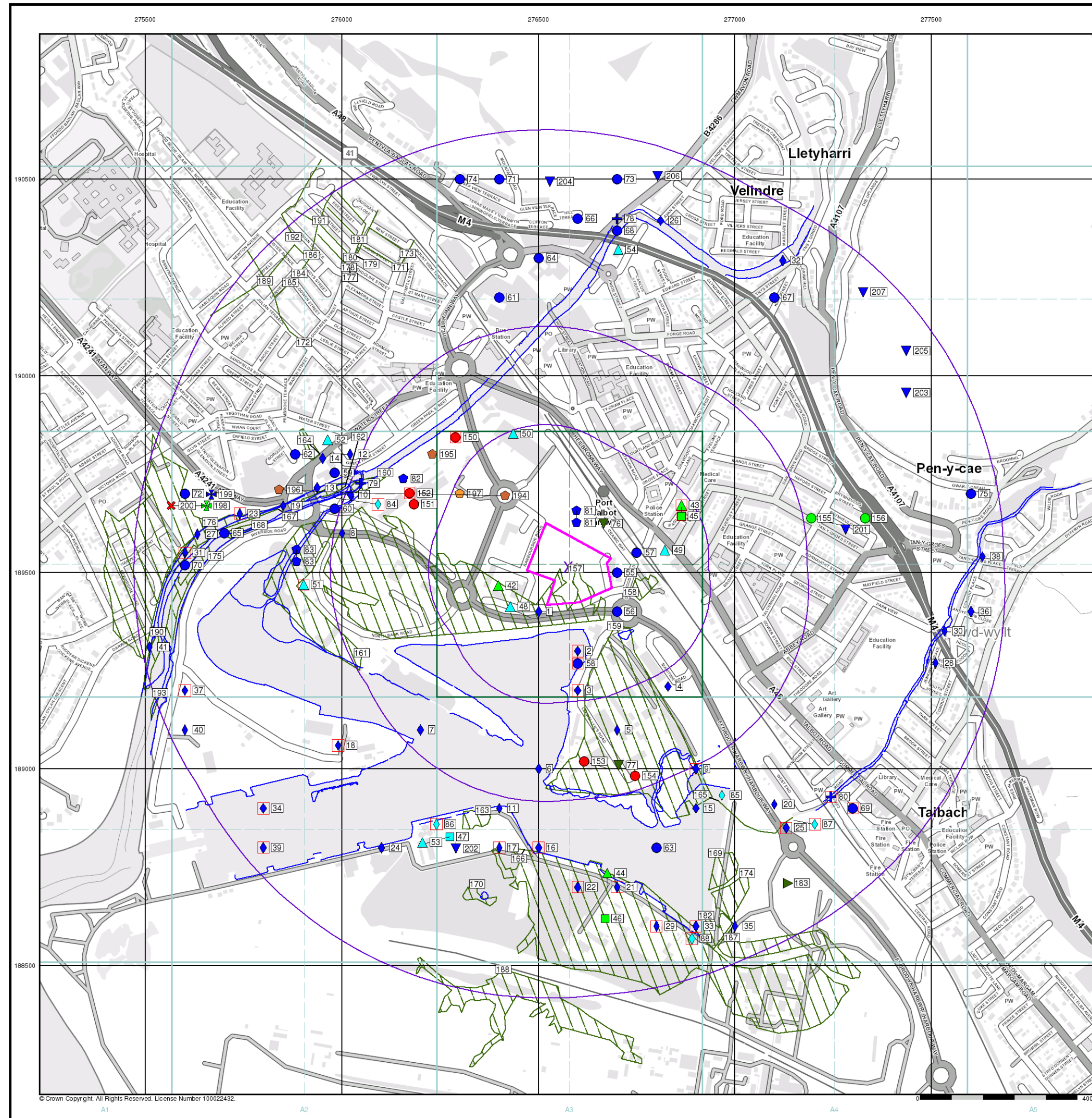


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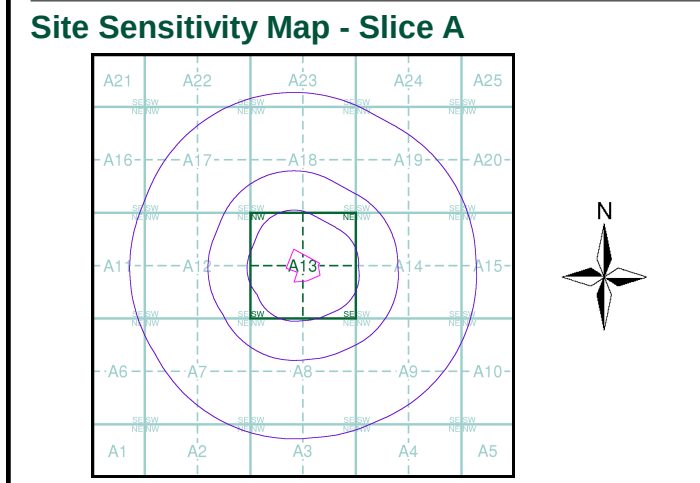
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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Plot Buffer (m): 100

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

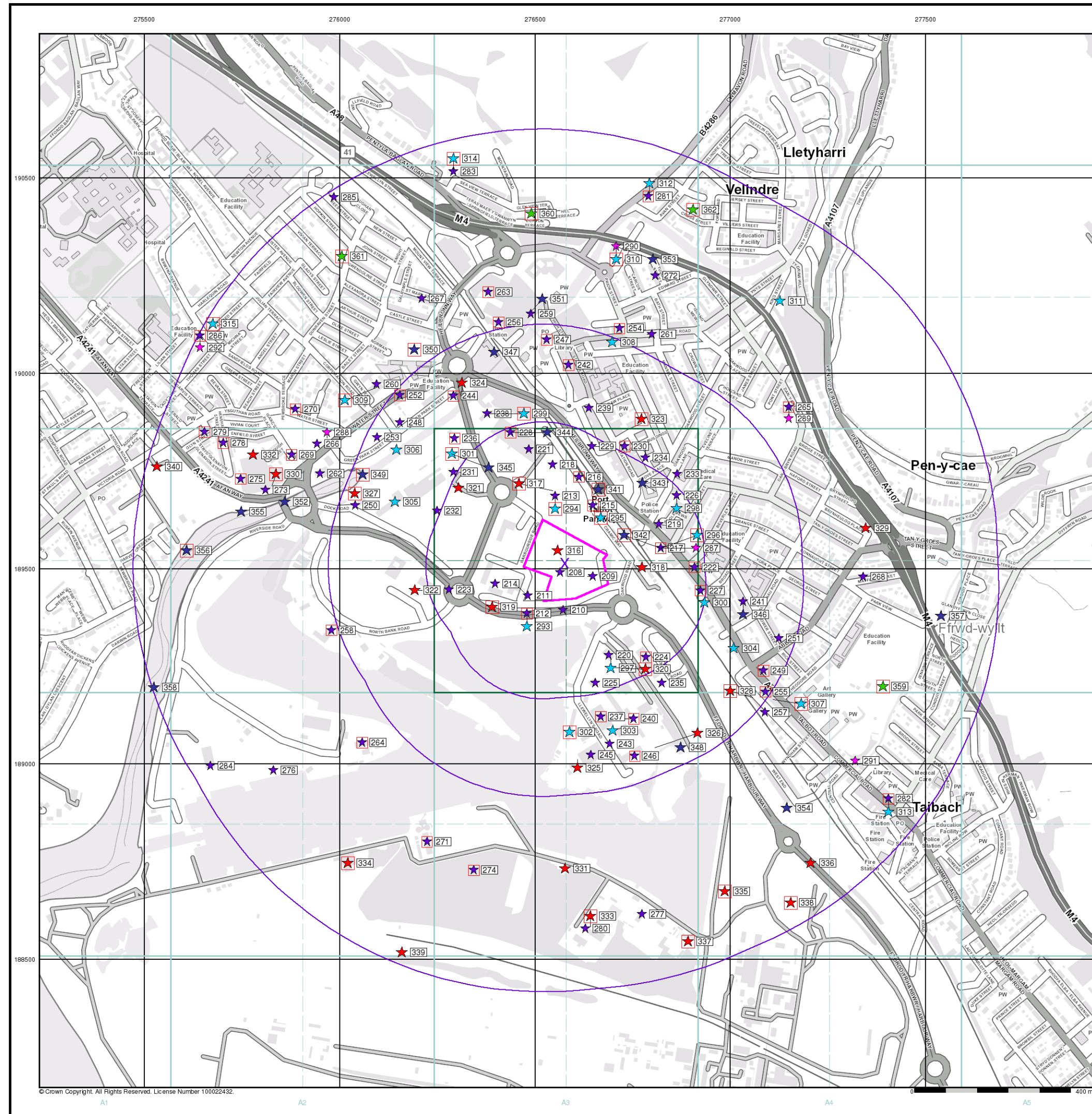


Order Details

Order Number: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB



Industrial Land Use Map

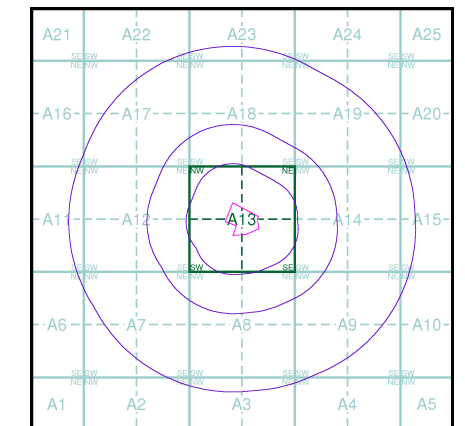
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A

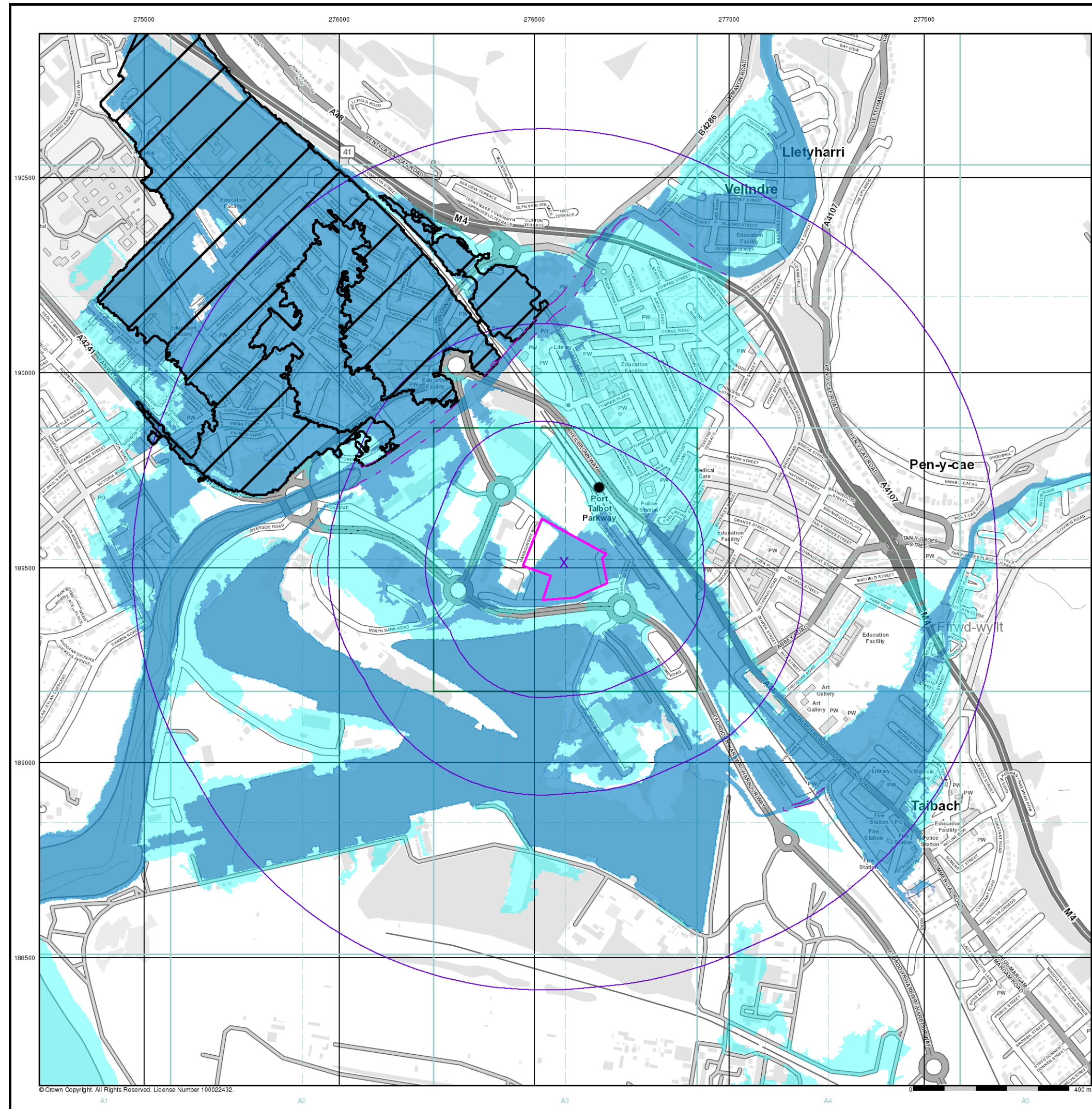


Order Details

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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

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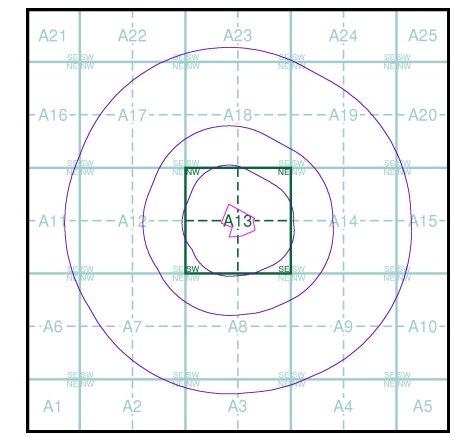
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A

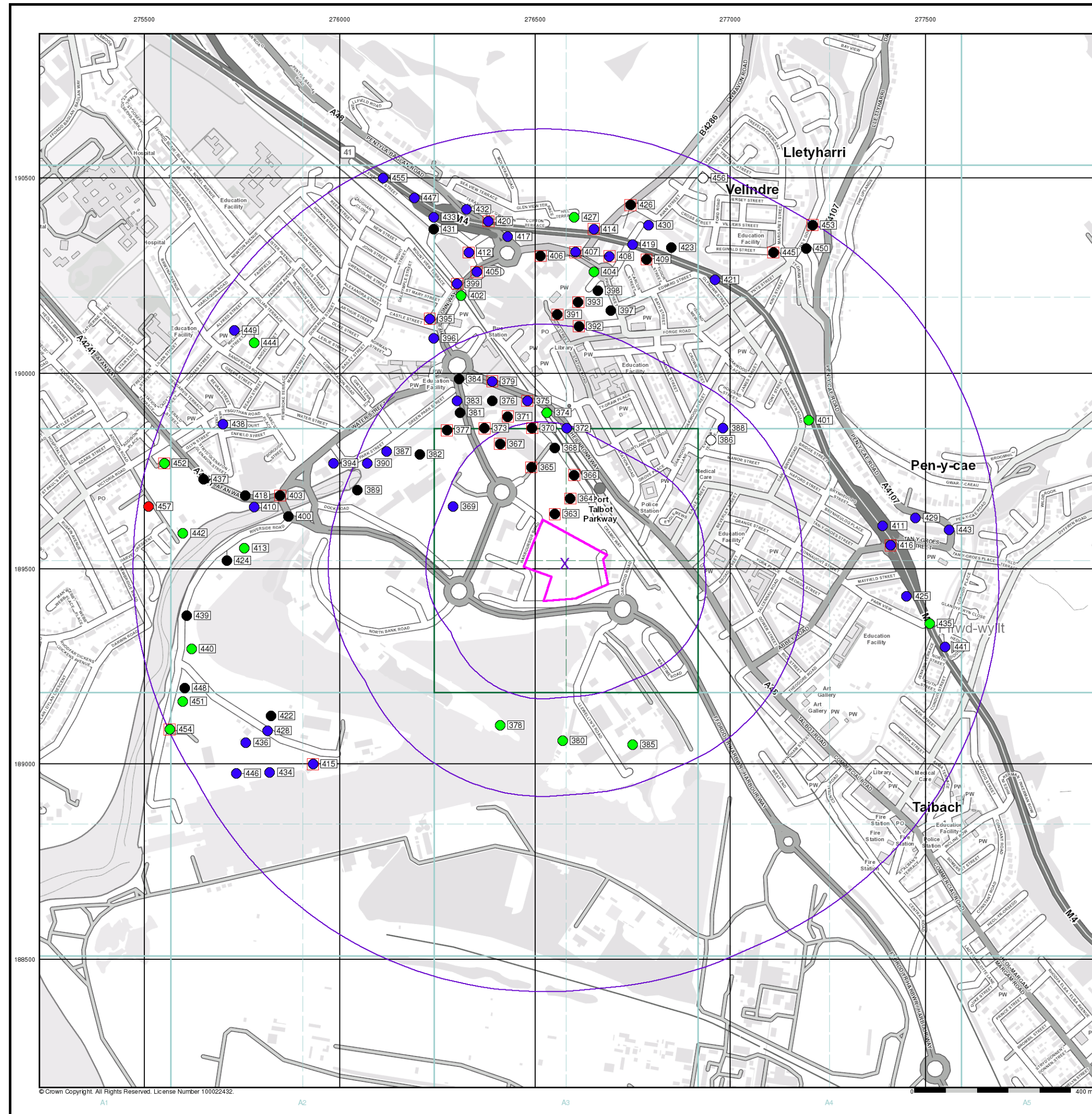


Order Details

Order Number: 128172853_1_1
 Customer Ref: V-C8602.00
 National Grid Reference: 276580, 189510
 Slice: A
 Site Area (Ha): 2.7
 Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

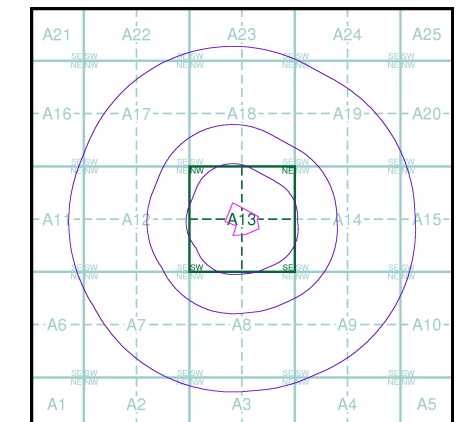
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

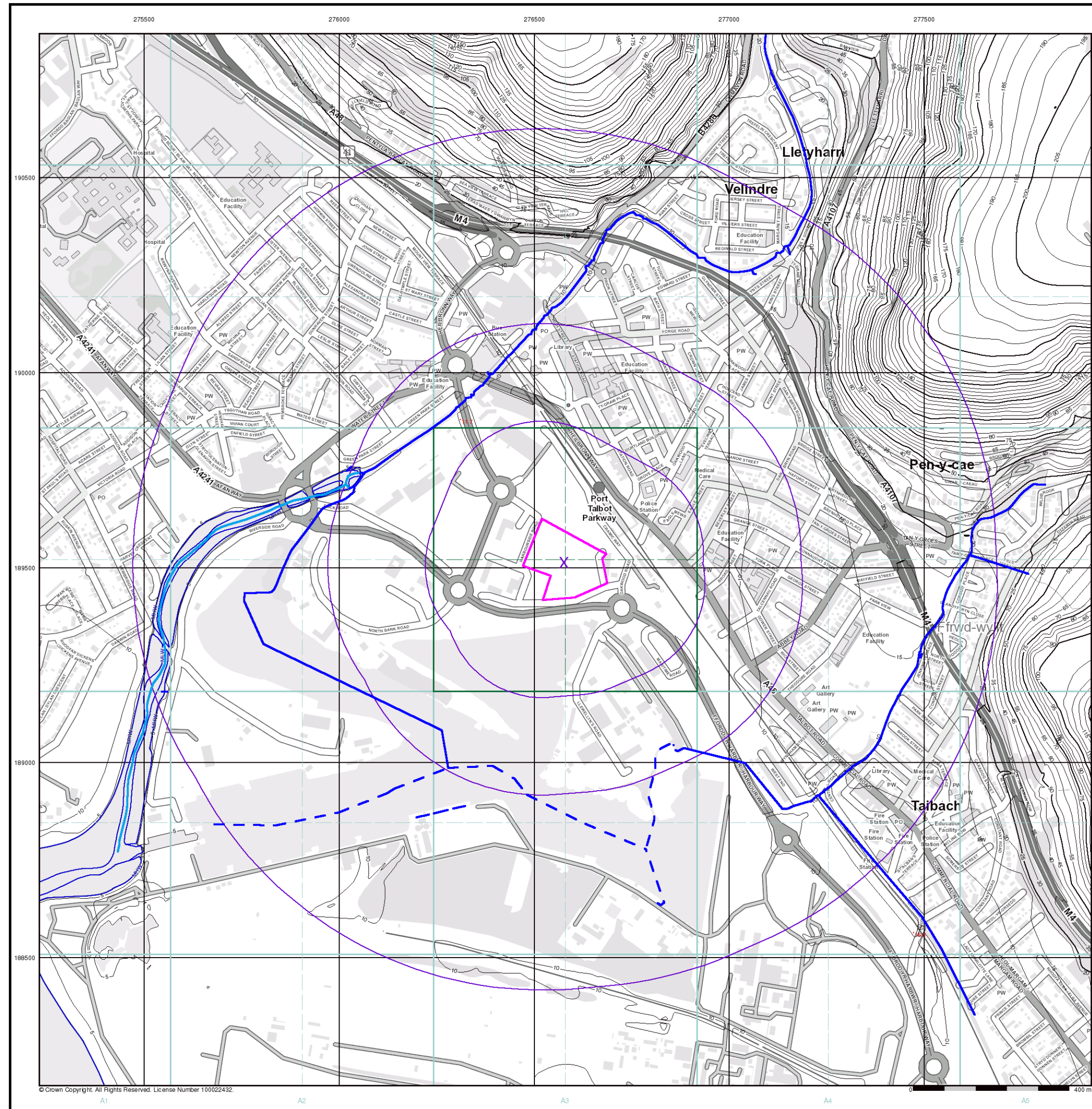


Order Details

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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

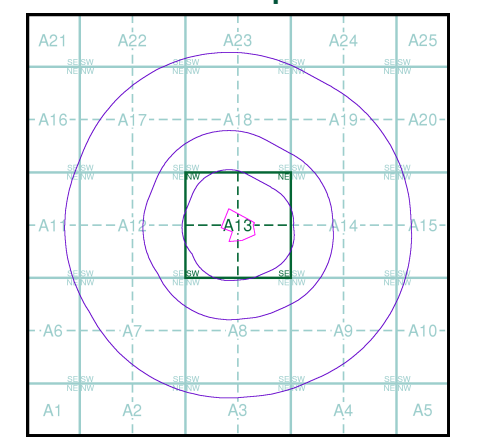
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour 105 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

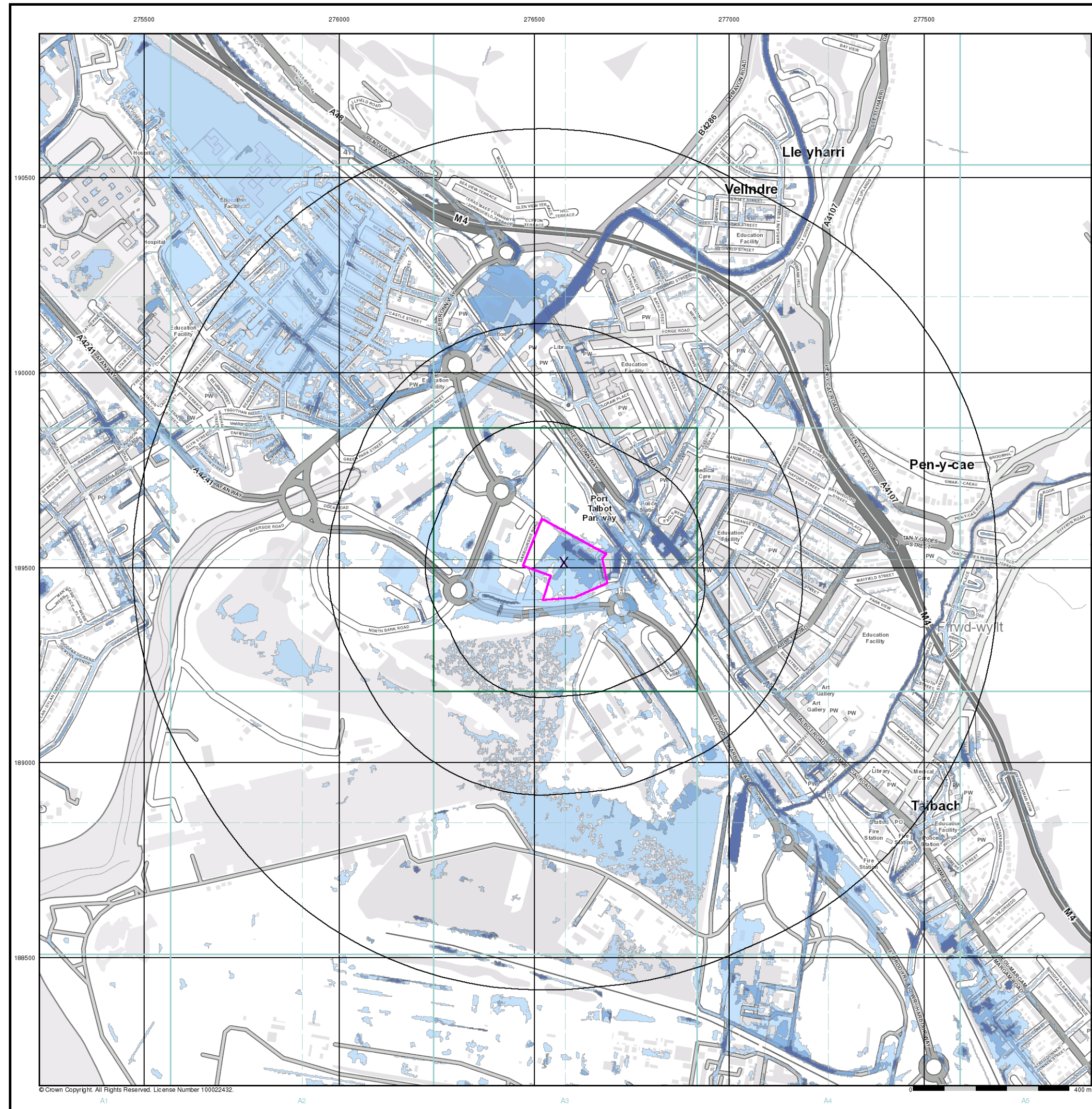
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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Risk of Flooding from Surface Water

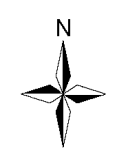
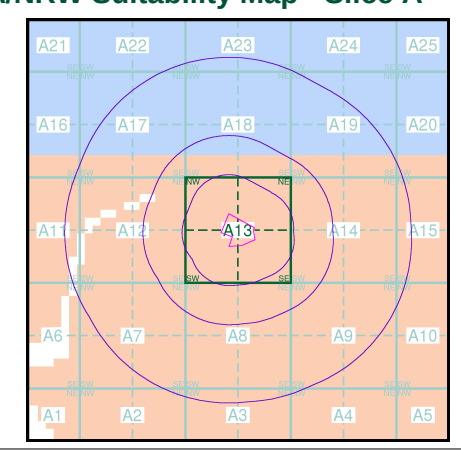
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EANRW Suitability Map - Slice A



Order Details

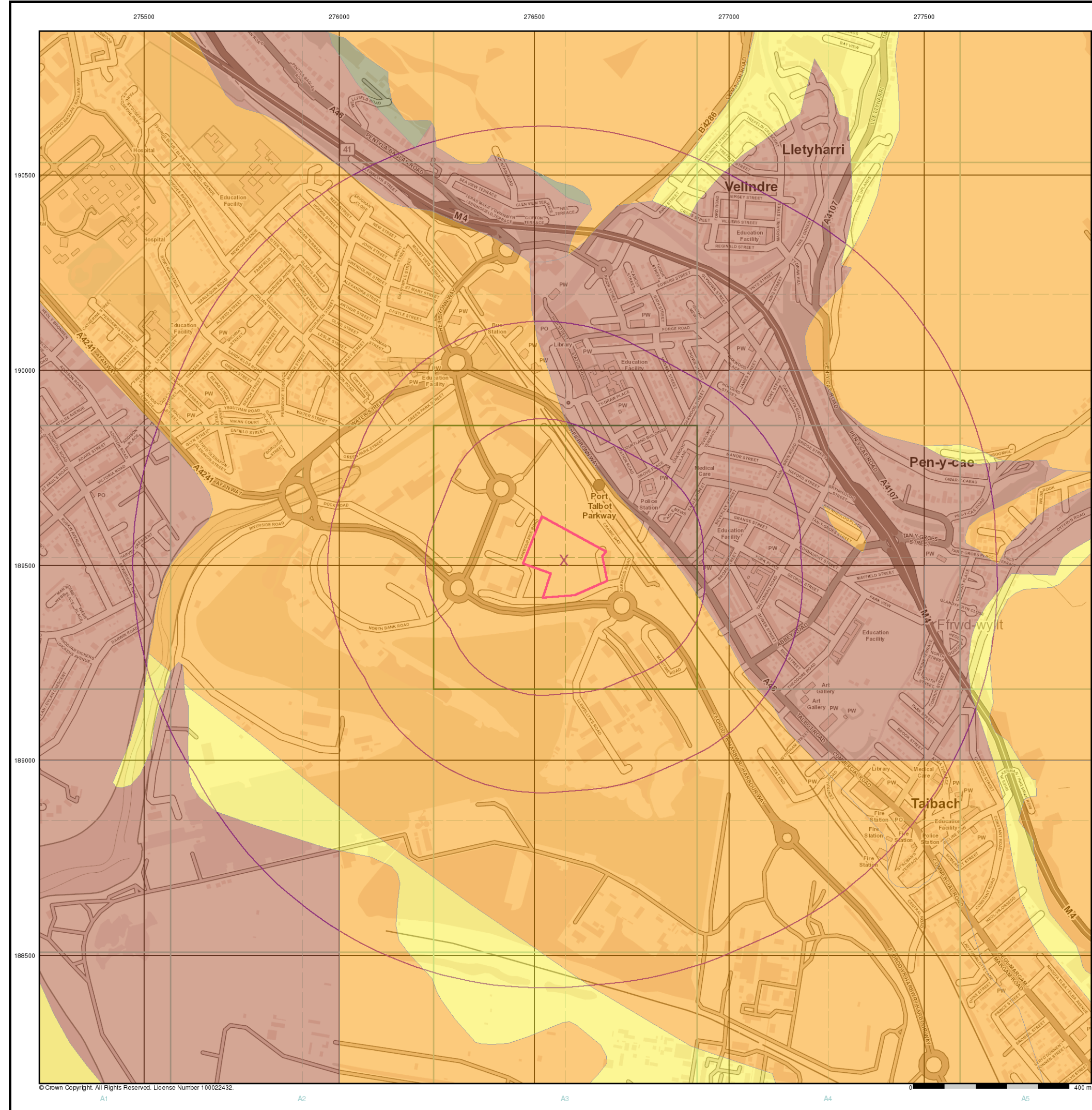
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National Grid Reference: 276580, 189510
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Site Area (Ha): 2.7
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General

📍 Specified Site 📏 Specified Buffer(s) ✕ Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

< 15
15 - 25
25 - 35
35 - 45
45 - 60
60 - 120
> 120

Estimated Soil Chemistry Arsenic - Slice A

Order Details

Order Details:	128172853_1_1
Customer Ref:	V-C8602.00
National Grid Reference:	276580, 189510
Slice:	A
Site Area (Ha):	2.7
Search Buffer (m):	1000

Site Details

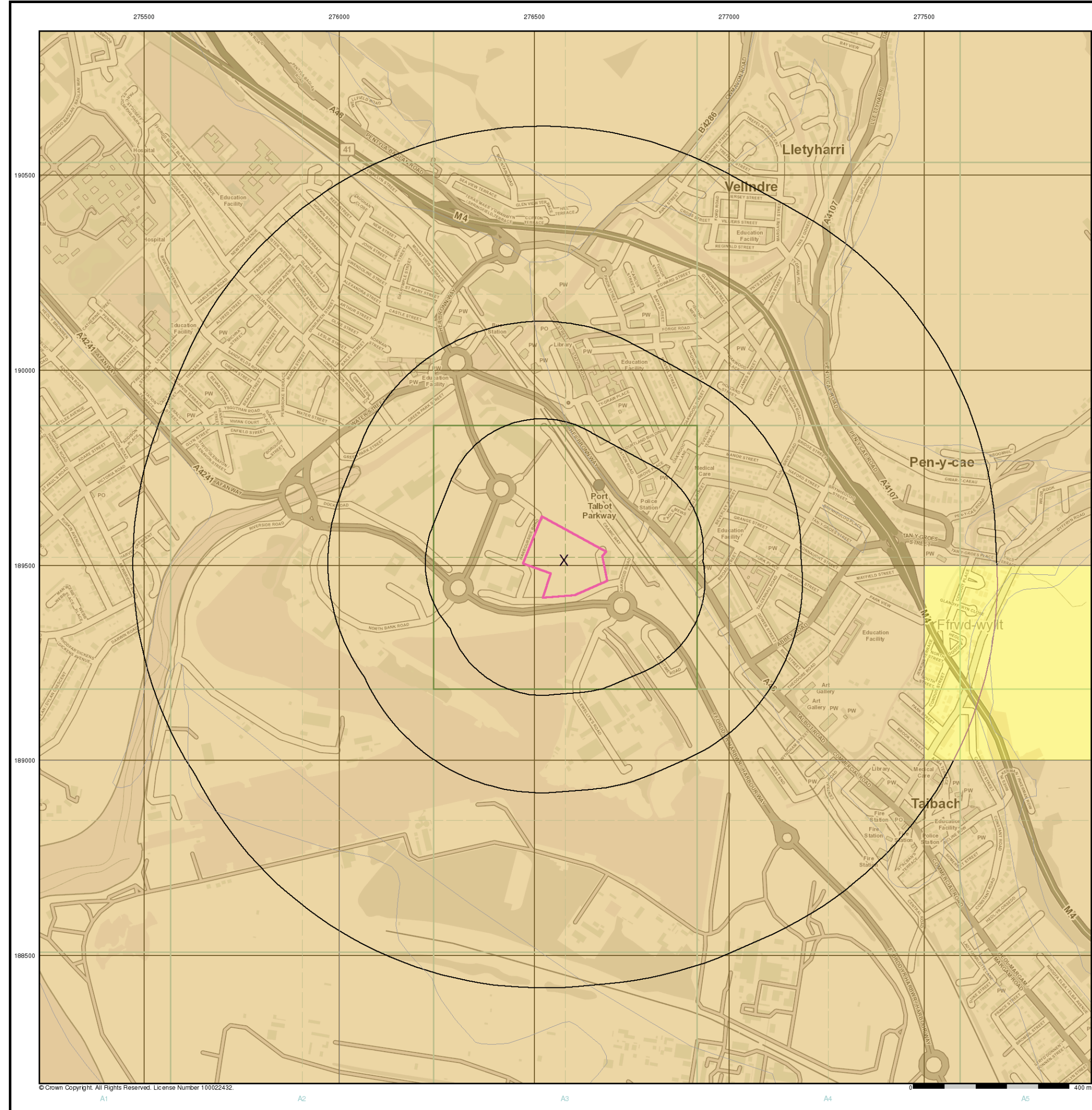
1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

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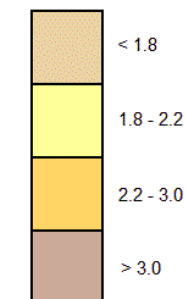
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General

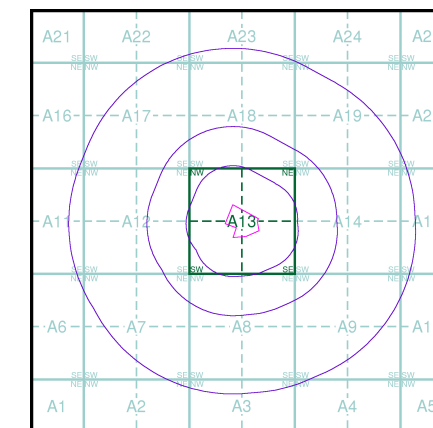
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

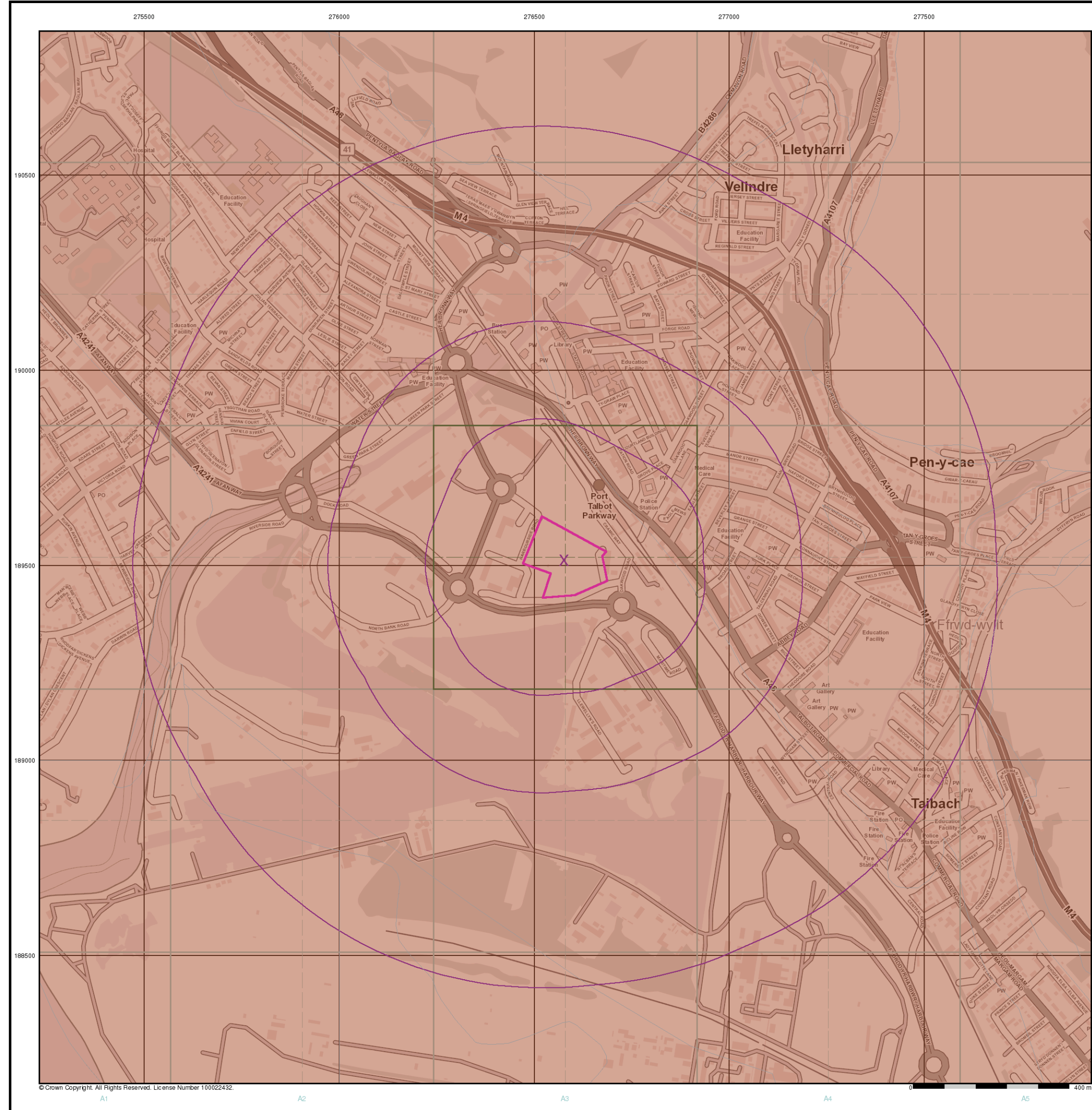
Order Details: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

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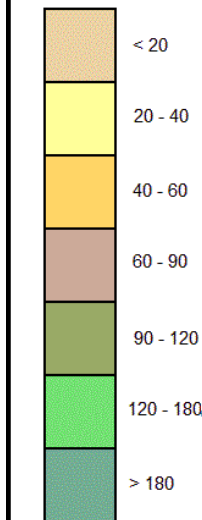
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General

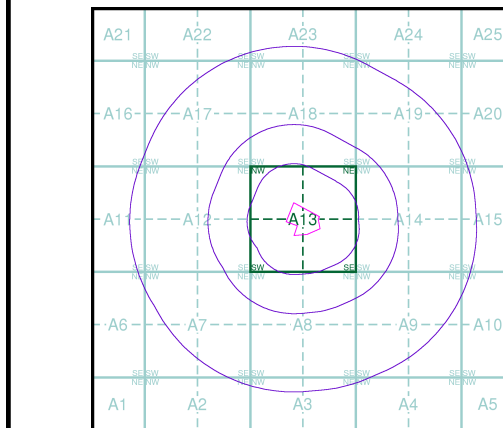
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

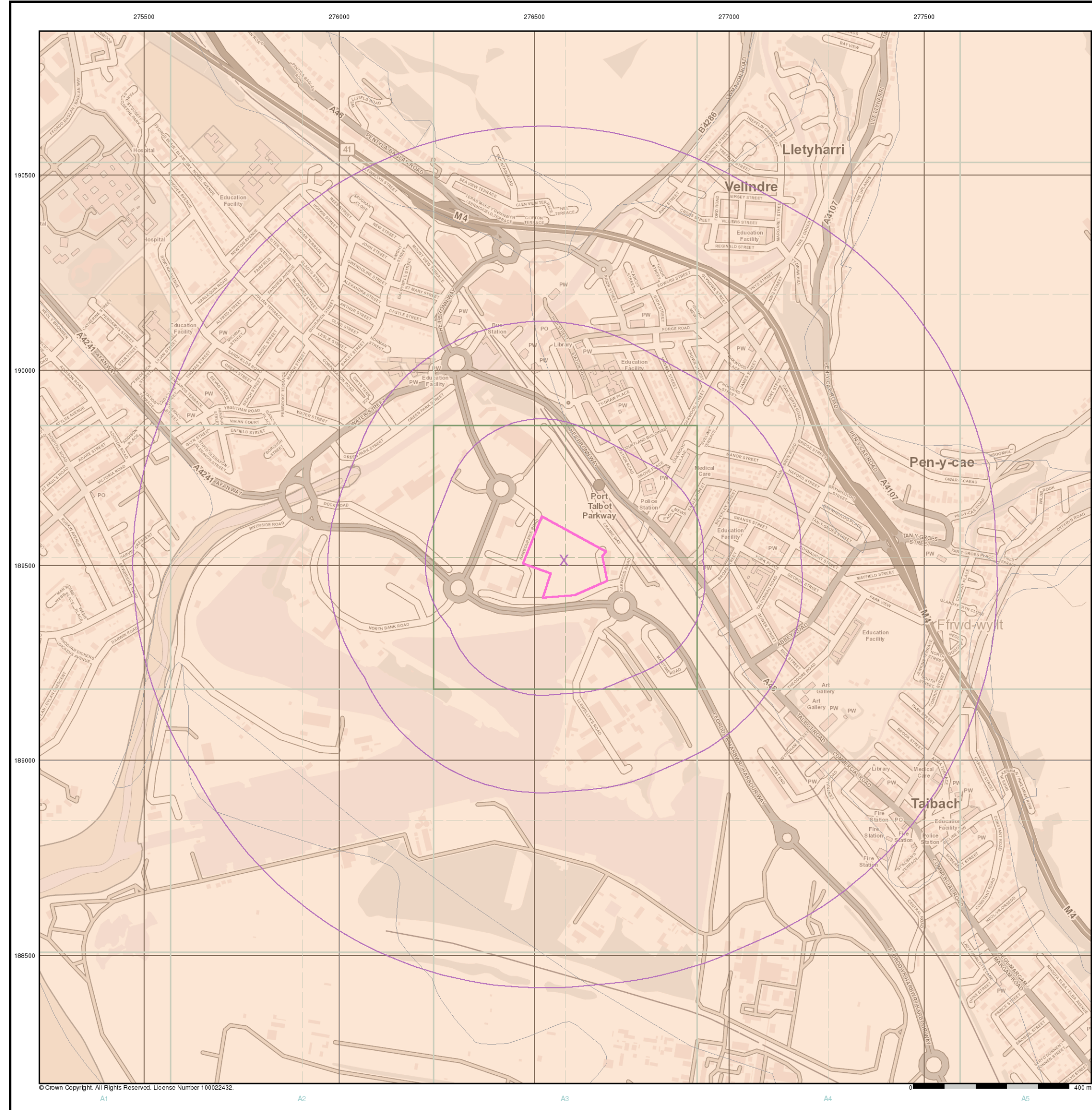


Order Details

Order Details: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
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Site Details

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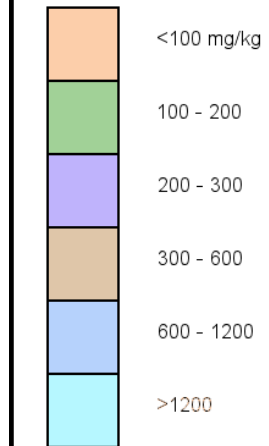
LANDMARK INFORMATION GROUP®

General

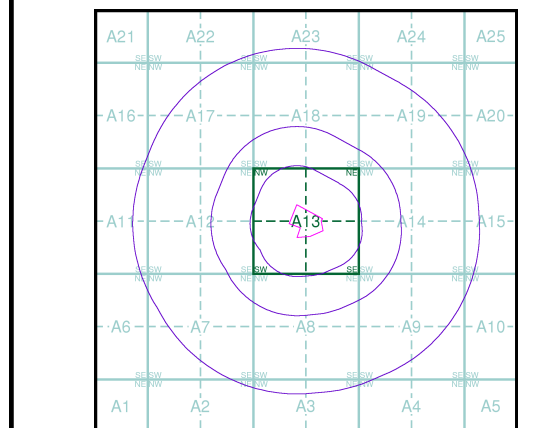
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

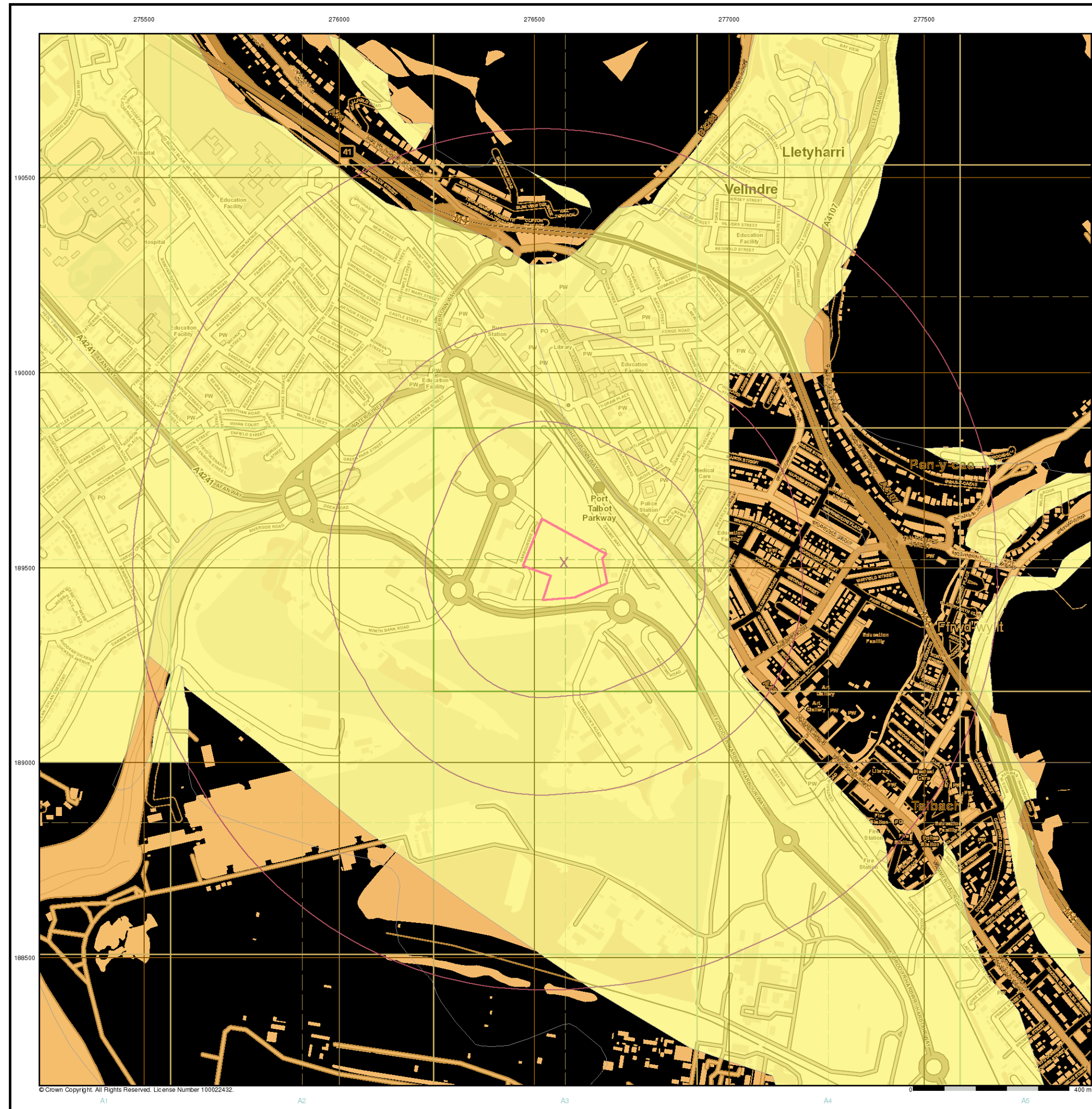
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Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

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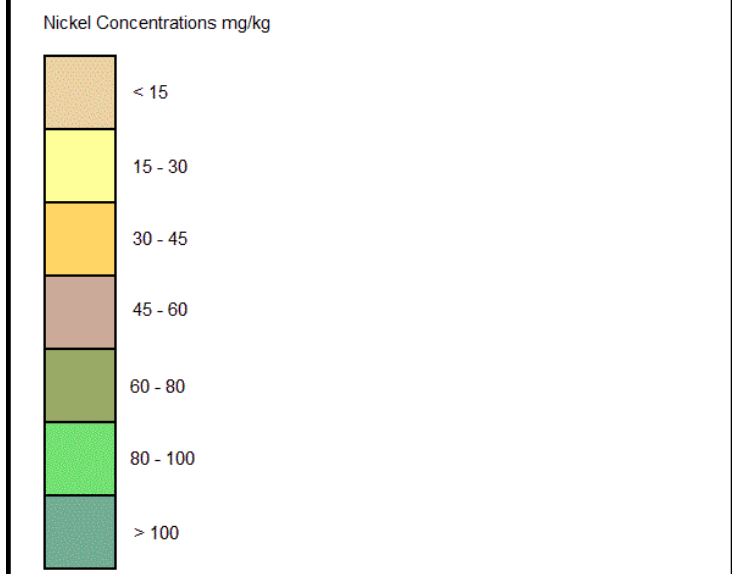
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



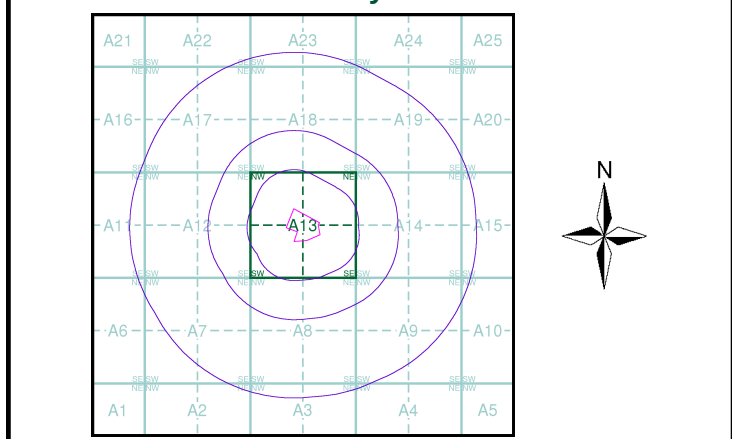
General

Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 128172853_1_1
Customer Ref: V-C8602.00
National Grid Reference: 276580, 189510
Slice: A
Site Area (Ha): 2.7
Search Buffer (m): 1000

Site Details

1, Llewellyn House, Harbourside Road, PORT TALBOT, SA13 1SB

Appendix E

UXO Desk Study and Risk Assessment



INTERNATIONAL UNEXPLODED ORDNANCE RISK MITIGATION

EXPLOSIVE ORDNANCE DESK TOP STUDY FOR:

PROJECT 17314

**NEATH PORT TALBOT HARBOURSIDE
SA13 1SB**

OPUS



Certificate No:
GB.04/286



Company Member of
the Institute of
Explosives Engineers



Certificate No:
GB.11/285

EXPLOSIVE ORDNANCE DESK TOP STUDY

Of

Neath Port Talbot Harbourside SA13 1SB

Conducted by EOD Contracts Limited

On behalf of

OPUS

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TERMS AND DEFINITIONS

Anti Aircraft Shells (AA)

Small High Explosive Shells (HE) shells ranging up to 100mm in diameter.

Battlefield Area Clearance (BAC)

The systematic clearance of munitions from military property or old battle sites e.g. ranges, airfields etc.

Borehole Search

The placing of boreholes in a set pattern, then using a magnetometer to take readings at specific depths along each borehole. When used with a geophysical survey system this will give a magnetic signature of the area. The depth of the borehole and the pattern will depend upon the type of Unexploded Bombs (UXB) and the geology of the ground.

Doodle Bug (See Pilotless Aircraft)

Explosive Ordnance (EO)

All munitions containing explosives, nuclear fission/fusion materials and or biological and chemical agents. This includes bombs and warheads; guided and ballistic missiles; artillery, mortar, rocket and Small Arms Ammunition (SAA); all mines, torpedoes and depth charges; pyrotechnics; clusters and dispensers; cartridge and propellant actuated devices; electro-explosive devices; clandestine and improvised explosive devices (IED); and all similar or related items or components explosive in nature.

Explosive Ordnance Clearance (EOC)

See BAC.

Explosive Ordnance Disposal (EOD)

The detection, identification, field evaluation, render safe, recovery and disposal of **UXO**.

Geophysical Survey

The survey of an area using a Magnetometer and geophysical gathering device, after interpretation, this will produce a geophysical map and an object list for any metallic anomalies.

High Explosive (HE)

High explosives burn/detonate at rates of up to 9,000 m/per second.

Incendiary Bomb (IB)

Incendiary bombs ranged from 1kg in size to 500kg the larger sizes were sometimes called Oil Bombs. Fills range from thermite mixtures, phosphorus to kerosene.

Intrusive Survey

The use of a cone penetrometer (MagCone) or drilled boreholes (MagDrill) to take magnetometer test in a set pattern (see borehole search), or to prove pile positions.

Land Service Ammunition (LSA)

LSA is defined as “All items containing explosives or pyrotechnic compounds which are placed, thrown or projected so as to cause damage to men and equipment during land warfare.

Long Range Rocket (LRR)

The long range rocket sometimes codenamed Big Ben is the V2 rocket designed to deliver an approximate payload of 1000 kg.

Oil Bomb (OB)

A bomb containing a flammable liquid, normally the KC 250 Flam or the C 500 flam.

Pilot less Aircraft (PAC)

A flying bomb (Fly) or doodlebug is the V1 rocket or predecessors designed to deliver an explosive payload of approximately 500kg - 800kg.

Parachute Mine (PM)

Air dropped mine may have been used as a blast effect bomb maximum explosive content 1600lb always fitted with anti-handling and anti-stripping equipment.

Unexploded Bomb (UXB)

Any air dropped bomb that has failed to operate.

Unexploded Ordnance (UXO)

Explosive ordnance that has been primed, fused, armed or otherwise prepared for use or used. It may have been fired, dropped, launched or projected yet remains unexploded either through malfunction or design or for any other cause.

Vengeance Weapons (V)

V1 see Pilot less Aircraft.

V2 see Long Range Rocket.

WWI

First World War 1 (1914 – 1918)

WWII

Second World War 2 (1939 – 1945)

EXECUTIVE SUMMARY

1 Instruction

EOD Contracts Ltd, have been commissioned by OPUS to undertake a desktop study for potential historic Unexploded Ordnance (UXO) contamination for the future site at the Neath Port Talbot Harbourside, SA13 1SB.

2 Scope Of Work

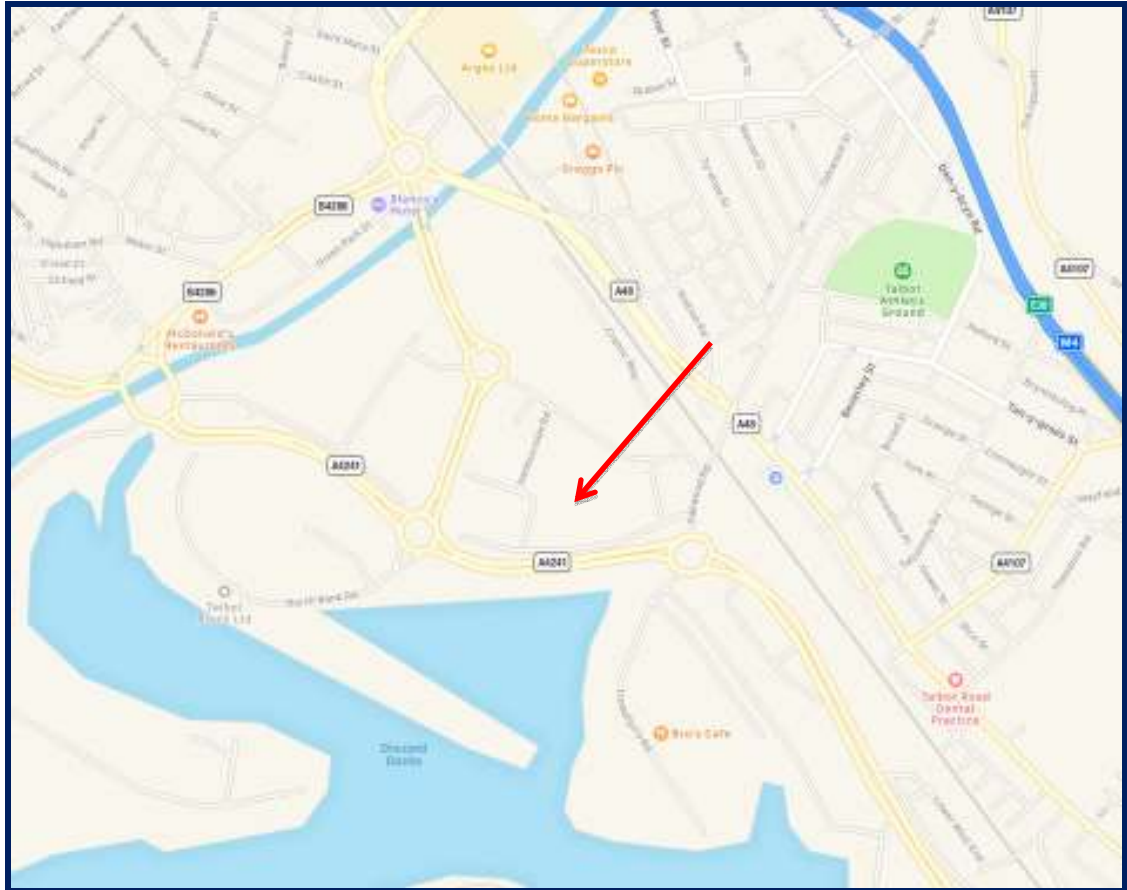
The scope of this EO Risk Assessment/Desk Study is to assess the likelihood of buried EO/UXO within the environs of Neath, Port Talbot Harbourside, SA13 1SB, in view of further development. A further aim was to evaluate the implication from UXO contamination during any future intrusive land use.

PHOTO 2.1: Clients Scope of works, This DTS will be covering all areas shown within the Purple Boundary.



2.1 Location

The site is located within the town of Port Talbot, SE of Cardiff. Access to the site can be gained through Harbourside Road. During WWII the site was located within the Wales Region (Region 8) of the HO 193 Mapping series.



Title	Description (Centre of Site)
Address	Port Talbot, Harbourside Road
Post Code	SA13 1SB (Closest)
Grid Reference	SS 765895 / SS 7653789503
OS (X)	276537
OS (Y)	189503

3 Sources of UXO Contamination

- 3.1 Through the use of thorough research (utilising both modern and historic data) EOD Contracts Ltd deem that the two main sources of UXO contamination pertaining to the site are as follows;
- 3.2 Air delivered ordnance bombs and sub munitions/incendiaries.
- 3.3 Anti Aircraft Ammunition (AA)

4 Key Findings

- 4.1 Based on the information researched by EOD Contracts Ltd for the proposed works being carried out at Neath, we can conclude the following:
- 4.2 Port Talbot was not subjected to bombardment during the period of WW1.
- 4.3 EOD Contracts have found viable evidence to suggest that the town of Port Talbot was the subject of direct attack during the Blitz.
- 4.4 The closest HAA gun emplacements to the site were 3.38km NW of the site.
- 4.5 The Luftwaffe would have considered the site itself a strategic target during the blitz; it was also surrounded by several key infrastructures that also would have been key targets (such as the railway lines/Docks) throughout this time.
- 4.6 EOD Contracts could find no evidence that the site had had any Military usage in the past. However the site was in full use throughout the WW2 and due to its very nature may have been used to produce items that could be utilised by the military. Also due to the strategic importance of the Steel works and its surrounding environment there would have been a strong military presence in and around the town.
- 4.7 The site has been the subject of construction both Pre and Post WW2 however the exact scope of works is not known to EOD Contracts at this time. Therefore it is possible that items of UXO have remained undetected up until this time.
- 4.8 Therefore the risk level on site has been deemed as **MEDIUM** (ALARP), EOD Contracts deem that UXO Risk Mitigation is recommended.

5 RECOMMENDATIONS

- 5.1 It is recommended that the following risk mitigation strategy is executed during both Phases of the project.
- 5.2 Communicating the risks, all stakeholders should be made aware of the UXO situation on the site and the possible impact it may have on the project works and day to day running of the district. Clients have a legal duty under the Construction Design & Management Regulations (CDM) and Health & Safety at Work legislation to provide Designers and Contractors with project specific information needed to identify hazards and risks associated with the design and construction work. The possibility that UXO may be encountered on site falls within the category of a significant risk and as such it should be addressed as early as possible in the lifecycle of the project.
- 5.3 Further planning; the risks posed by UXO should be brought to the attention of the Project CDM Coordinators and other individuals with a responsibility for project safety and operations at the site. The matter of UXO should be considered critical to project safety and one requiring high priority action.
- 5.4 UXO safety awareness training should be given at all levels of site personnel and selected individuals on the project staff with relevant responsibilities. A competent person as part of the project safety induction course should provide the awareness training. It should be reinforced with specific safety briefings and toolbox talks to individuals involved in conducting intrusive earthworks.
- 5.5 Project overview and the responsibilities of those working on site with regard to duty of care and public safety.
- 5.6 UXO recognition and safety procedures to be followed on discovery of a suspicious object or the alarm being sounded.
- 5.7 Emergency procedures to be followed in the event of an explosion. Evacuation routes, muster stations and accounting for personnel
- 5.8 Prior to any intrusive piling or drilling commencing, UXO safety testing and appropriate clearance certification into the ground to sufficient depth to provide clearance from UXO. This can be done using a progressive drilling process or (where large numbers of piles are to be placed and ground permitting) using a vehicle borne hydraulic system to push a magnetometer into the ground to test for the presence of UXO prior to piling.
- 5.9 UXO safety monitoring of all “at risk” excavations, including geotechnical or archaeological trial pits to be conducted during the project. This should be provided by a UK Home Office Authorised EOD/UXO Contractor using qualified EOD Engineer with specialist locators and detectors to scan the ground ahead of the excavation wherever possible.

- 6 **EOD Contracts Ltd can supply a turnkey solution to your UXO requirements. Therefore, the following mitigation strategies can be supplied for land or water based operations:**
- 6.1 Intrusive survey using CPT (*Cone Pressure Testing*) or borehole equipment, *supplying risk mitigation to all Borehole and Pile locations, down to a maximum bomb penetration depth determined within this document.*
- 6.2 Non-Intrusive Survey using multiple array system with DGPS (*Digital Global Positioning System*) *with subsequent follow up of intrusive investigation should targets be identified.*
- 6.3 Offshore, near-shore, estuarine and freshwater water environments magnetic, side scan and bathymetric supported by state of the art DGPS.
- 6.4 The aforementioned surveys are supported with post processing of data and intrusive investigations if required.
- 6.5 EOD Engineer over watch using Suitably Qualified and Experienced Personnel, normally former British Army, Navy or RAF Bomb Disposal specialists.
- 6.6 Explosive Ordnance Safety Presentations.



1.0 INTRODUCTION

1.1 Instruction

EOD Contracts Ltd, have been commissioned by OPUS to undertake a desktop study for potential historic Unexploded Ordnance (UXO) contamination for the future site at

1.2 Scope Of Work

The scope of this EO Risk Assessment/Desk Study is to assess the likelihood of buried EO/UXO within the environs of the Neath, Port Talbot Harbourside, SA13 1SB, in view of further development. A further aim was to evaluate the implication from UXO contamination during any future intrusive land use.

PHOTO 1.1: Clients Scope of works, This DTS will be covering all areas shown within the Purple Boundary.



1.3 Restrictions

It must be emphasized that a desk study can only indicate the potential for UXO to be present on the site. A geophysical survey and intrusive investigation is fundamentally important to provide proof that the site is free of the UXO threat.

This study was written with the site conditions prevailing at the time of the study and no liability can be accepted for any change in the condition of the area.

Please note that our appraisal relies on the accuracy of the information contained in the documents consulted and that EOD Contracts Ltd will in no circumstances be held responsible for the accuracy of such information or data supplied.

1.4 Sensitive Documentation

Information may be classified, restricted or deemed to be confidential in nature to EOD Contracts Limited, where such material has been gained a summary of the documentation has been approved.

1.5 Objective

The objective of this document is to define the UXO contamination routes as defined in Unexploded ordnance (UXO) A guide for the construction industry (C681) dated July 2009 and offer remediation methodologies if required.

2.0 SOURCES OF INFORMATION

Research of the site's history, with regard to military usage, bombing raids and bomb impacts has been undertaken to establish the following:

- Frequency and intensity of enemy bombing raids for the site and immediate vicinity up to 500m.
- Bomb impacts and associated damage on the Site and in the immediate vicinity.
- The potential for UXO to remain on the Site and in the vicinity.
- Records of UXO removal activities for the Site and immediate vicinity.

The main sources of information consulted include:

- EOD Contracts Ltd company records
- Ministry of Defence records
- Central and Local Government Records (Southampton)
- Public Records Office (Kew)
- Historic Maps and Air Photography
- Open Source information (Internet)

2.1 Ministry of Defence (MOD) Records

33 Engineer Regiment (Explosive Ordnance Disposal) Royal Engineers is the unit responsible for maintaining the records concerning conventional Bomb incidents, reports, clearances and related UXO matters. These records are known to be incomplete and are no longer supplied. Based on in-house information released by the MOD previously, it is considered unlikely that any information released will have any significant impact on the findings of this study.

2.2 Attack Record Keeping

In general, the quality and accuracy of bombing and shelling records prior to 1939 varied greatly from one region to another. Records relating to the limited air attacks on the United Kingdom are considered to be sufficiently accurate in urban areas to provide a reasonable level of confidence in determining the likelihood that an area was or was not bombed during this period. Wartime records, maps etc held within the civil archives are considerably more comprehensive than those still in existence within the MOD, where it is acknowledged that large numbers of records have been disposed of since 1945. Records from some areas, particularly rural districts or near large bodies of water should still be regarded as an incomplete picture of the extent and effect of the bombing campaign.

2.3 Attack Record Accuracy.

While an Air Raid was in progress it was inevitable that mistakes would be made in the transcription of rushed verbal reports into the written records. Discrepancies did occur between the total of bombs dropped against detonations witnessed. In some cases records were made several hours after the event and mistakes were inevitable. Some reports were drafted before the full extent of the raid had been determined which has led to significant omissions in the records. Reports of raids on rural areas were often witnessed and submitted by untrained individuals and passed through third parties before being recorded. Suspect UXBs occasionally went unreported by local farmers and freeholders who saw the event as insignificant, or were reluctant to report their findings for fear of valuable land or crops being destroyed by the authorities in their attempts to find the UXB. It should also be noted that bomb strikes in water were notoriously difficult to spot, particularly if the bomb had failed to detonate. As a result bomb record accuracy in areas containing large bodies of water or marshland is considered to be questionable.

2.4 Errors and Omissions

The accuracy of bombing records has been shown to vary greatly; this may have been a result of the individual record keeper's expertise. Additionally, in some cases, errors occurred as a result of poor or incomplete transcription and copying. Some "errors and omissions" were intentional, designed to serve as dis-information to confuse German intelligence. So long after the event, official verification of such incidents has often proven to be impossible to obtain. At present, UXBs are found on construction sites and other locations where there had been no documentary evidence to suggest their presence. These events, although infrequent, do serve as confirmation that records cannot be considered definitive.

2.5 Bibliography

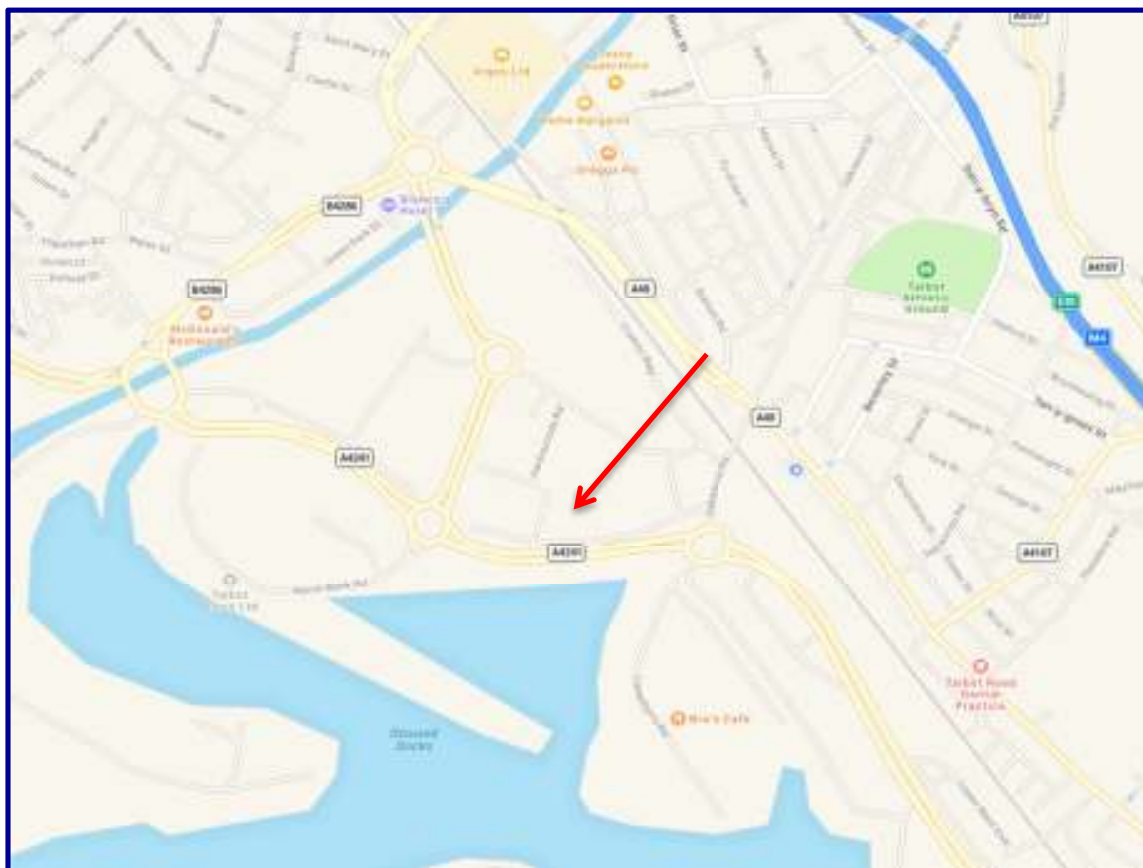
The significant published documents referred to during this study are listed below:

- HO 193 series from National Archives
- HO 198 series from National Archives
- The Blitz Then and Now Volumes 1 to 3
- AA Command Colin Dobinson
- German Air Raids on Britain 1914-1918
- Osprey - Campaign 193 - London 1914-17 - The Zeppelin Menace

3.0 SITE DESCRIPTION AND DETAILS

3.1 Location

The site is located within the town of Cwmbran North of Newport. Access to the site can be gained through Grange Street. During WWII the site was located within the Wales Region (Region 8) of the HO 193 Mapping series.



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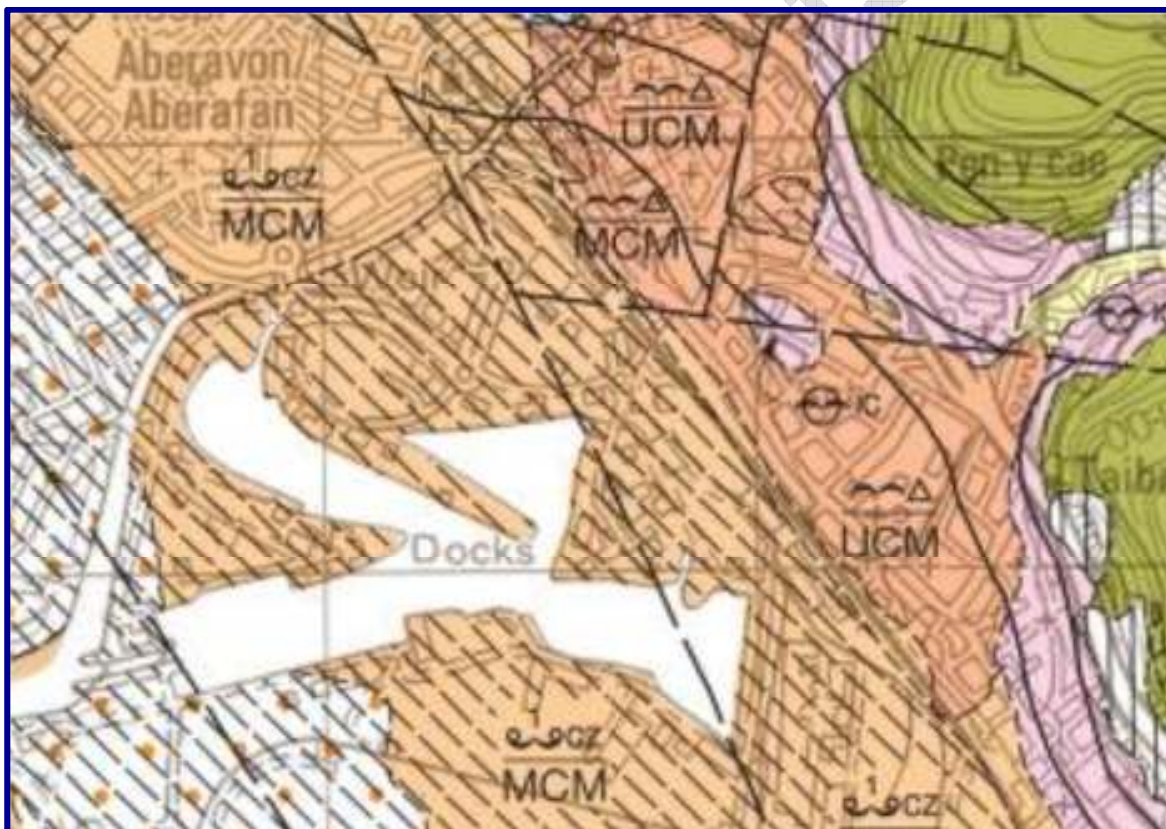
3.2 Description

The application site at present appears to be open waste ground.

3.3 Geology

Published BGS borehole data for a site investigation undertaken in or around the area are not known at this time, although the geological location of the site would indicate that Localised areas of Made Up Ground in and around the site followed by Peat - Alluvium - Sands and Gravels (information gained from BGS) due to the exact make up of the ground not being known at this time all estimations for Bomb Penetration depths will utilise the generic model.

PHOTO 3.1: The British Geological Survey map for Port Talbot and its surrounding areas, indicate that the site is made up of made ground followed by Peat/Alluvium Deposits/Sands & Gravels.



3.4 Current Site Use

See 3.2 Description

3.5 Future Works

At the time of writing this report it is understood that the site will be redeveloped (the exact scope of works is not known at this time). Therefore it is assumed that the following intrusive construction works will be carried out:

- Geotechnical investigations, percussive drilling/trial pits/window/samples
- Removal of buildings to ground level
- Removal of old foundations
- Foundations with large diameter rotary bored piling

4.0 HISTORICAL REVIEW

4.1 Historical Mapping and Aerial Photography

The air photograph in Annex B detailing the land usage is attached.

4.2 WWI

Although many people associate wartime bombing with The Blitz during World War II, the first airborne terror campaign in Britain took place during the First World War. Air raids in World War One caused significant damage and took many lives. German raids on Britain, for example, caused 1,413 deaths and 3,409 injuries. Air raids provided an unprecedented means of striking at resources vital to an enemy's war effort. Many of the novel features of the war in the air between 1914 and 1918—the lighting restrictions and blackouts, the air raid warnings and the improvised shelters—became central aspects of the Second World War less than 30 years later. The East End of London was one of the most heavily targeted places. Poplar, in particular, was struck badly by some of the air raids during the First World War. Initially these were at night by Zeppelins, which bombed the area indiscriminately, leading to the death of innocent civilians.

The first daylight bombing attack on London by a fixed-wing aircraft took place on 13 June 1917. Fourteen German Gotha G bombers led by Squadron Commander Hauptmann Ernst Brandenburg flew over Essex and began dropping their bombs. It was a hot day and the sky was hazy; nevertheless, onlookers in London's East End were able to see 'a dozen or so big aeroplanes scintillating like so many huge silver dragonflies'. These three-seater bombers were carrying shrapnel bombs, which, were dropped just before noon. Numerous bombs fell in rapid succession in various districts. In the East End alone 104 people were killed, 154 seriously injured and 269 slightly injured.

The gravest incident that day was a direct hit on a primary school in Poplar. In the Upper North Street School at the time were girls' class on the top floor, a boys' class on the middle floor and an infant class of about 50 students on the ground floor. The bomb fell through the roof into the girls' class; it then proceeded to fall through the boys' classroom before finally exploding in the infant class. Eighteen students were killed, of whom sixteen were aged from 4 to 6 years old. The tragedy shocked the British public at the time.

Using the maps located within Annex C it would appear that the area in which the subject site is located was not the subject of bombardment throughout WWI.

4.3 WWII

4.4 Hitler targets London

On 4 September Hitler, frustrated by the RAF's superiority over the Luftwaffe and enraged by its bombing of German cities, vowed to destroy the British capital and the spirit of its people.

In response, the Luftwaffe shifted its focus from attacking RAF Fighter Command's bases and communications networks to bombing Britain's cities. Hermann Goering, the Head of the Luftwaffe, had severely lost face over both the bombing of Berlin, and his force's failure to defeat the RAF. He hoped that the intense bombing of British cities would both destroy public morale and draw the remaining RAF fighters into battle and annihilation.

4.5 The bombing begins

After a preliminary raid on 5 September, the bombing started proper on the afternoon of the 7th. Almost 1,000 German aircraft - over 300 bombers escorted by 600 fighters - crossed the Channel. It was the largest collection of aircraft ever seen. Fighter Command had not expected raids on London, but now attempted to intercept the waves of bombers. A huge dogfight developed over London and the Thames Estuary.

Convinced that the German invasion of Britain was imminent, the country was put on the highest alert. Signals of impending invasion went out - the code word "Cromwell" was sent to military units and church bells rang.

Some of the German bombs did fall on their intended target of the docks, but many fell on the residential areas around them. Substantial parts of East and South-East London were devastated, 430 civilians were killed and 1600 seriously injured. Firestorms ravaged the city, acting as beacons for the second wave of bombers that evening.

After the raids Winston Churchill shared the public's fury and defiantly announced: "He [Hitler] has lighted a fire which will burn with a steady and consuming flame until the last vestiges of Nazi tyranny have been burnt out of Europe".

4.6 Bombing continues for the next 76 nights

Although no one knew at the time, this was the beginning of the Blitz. With the exception of one night, when the weather was bad, the bombing continued for the next 76 nights consecutively, with daytime raids as well. Liverpool, Manchester, Swansea, Cardiff, Bristol, Southampton were also targeted.

Now that the Luftwaffe's resources were directed into bombing civilians, Fighter Command had an opportunity to repair its infrastructure and attack anew. As well as their own lives, the pilots were now battling to protect their homes and loved ones all over the country.

4.7 Bombing raids over the rest of Great Britain

Ports and industrial centres outside of London were also targeted, this included Hull, Bristol, Cardiff, Plymouth, Portsmouth, Southampton and Swansea. Also bombed as part of Hitler's revenge bombings were the cities of Birmingham, Liverpool, Coventry, Sheffield, Glasgow and Manchester.

4.8 Wales's Blitz

In Wales, Cardiff and Swansea were subject to the most sustained attacks. In Cardiff over the course of the war 33,000 houses were damaged, over 500 demolished and 355 civilians killed. Swansea suffered the most intense attack in Wales when a raid that lasted three nights in February 1941 destroyed half the town's centre. The fires turned night into day and could be seen for miles, adding to the impact of the horror. Thirty thousand bombs were dropped; 575 business premises burnt out; 282 houses demolished and 11,084 damaged. 227 people were killed, 37 of them under the age of 16. At the height of the Swansea blitz one woman, when asked where her husband was, replied, 'He is in the army, the coward'.

The docks and industrial works of Cardiff and Swansea made them obvious targets but there were attacks elsewhere too. Ordnance factories, oil installations, mining towns and even rural communities were bombed by orchestrated attacks, lost planes or those just eager to lose their cargo before flying home. Even Caernarfonshire, which was near the flight path of bombers heading to Liverpool, saw five deaths in bombing raids over the course of the war. In April 1941, 27 people lost their lives in a raid on Cwmparc in the Rhondda; six of them

were children, including four evacuees. A miner recalled of seeing the coffins: 'That's when you realised there was a war on'.

4.9 Bombing Details Of Air Raids In And Around Port Talbot

Record of air raids on and in the vicinity of the site have been scrutinized, bomb impact maps HO193 series do not cover the area of ground where the sites are located

Below is an extract of a written report published on the 15th July 1945, with information regarding the role of the Docks during the Second World War (<http://www.swanseadocks.co.uk/Port%20Talbot%20Dock%20at%20War.html>).

In October 1939 the docks at Port Talbot were declared to be a “protected place” and permission to enter became subject to permit-holders only. Following this declaration, security control officers were posted to the port and both police officers and military personnel guarded all vulnerable points. Measures were also taken to protect the docks against attack from the air, with anti-aircraft guns being located at strategic points and barrage balloons being placed around the docks area.

At this early stage of the war, large cargoes of scrap iron were arriving from the United States and, as this material was urgently needed for the war effort, arrangements were made for the unloading of these ships to be continued throughout the night-time – no mean feat considering the reduced level of lighting permitted under the national wartime black-out restrictions. Imports of iron & steel (which included scrap iron) rose to 67,000 tons in 1939, a 75% increase over the previous year.

In the immediate pre-war years, coal exports to the Continent had been increasing considerably, reaching 1.5 million tons in 1938, but capitulation of France in June 1940 resulted in a significant reduction in these shipments and, in 1941, total coal exports fell to 450,000 tons. However, in June 1942, the authorities decided to concentrate all coal shipments to Eire through Port Talbot Docks, and this increased the port's coal exports to 815,000 tons in 1943, but this was a short-lived measure and, in 1945, the final year of the war, coal exports had dropped to just 273,000 tons.

In May 1940 the military set up their own organisation for the shipment of military traffic, taking over office accommodation at the dockside for their respective personnel – i.e. movement control, sea transport officers, etc. – and on 15th May 1940 the first ship to load a cargo of ammunition arrived at the port. Others quickly followed to load not only ammunition, but government stores and military vehicles of all description. To improve operational efficiency, the War Department undertook the refurbishment of Crown Wharf on the south side of the dock, providing a modern new berth equipped with four 3-ton electric cranes to deal specifically with the shipment of military stores and equipment.

In addition to the redevelopment of Crown Wharf, the Mines Department erected a new oil berth at the docks from which oil pipelines would run direct to the Llandarcy Refinery at Skewen. This facility was provided because the existing oil berths at Queens Dock, Swansea were at serious risk of being put out of commission by air-raids. If this had happened, oil tankers would instead have been discharged at Port Talbot Docks. In addition to the actual oil berth, two other berths were allocated so that, if required, three vessels could be dealt with at any one time. Although this contingency did not arise, the oil berths proved invaluable throughout the war period for the loading and bunkering of vessels. For the bunkering of coal-burning ships, an area was set-aside at the lock-head for the storage of thousands of tons of high and low volatile bunker coal.

During those early days of the war a large number of cargo ships were converted for the Royal Navy by the Port Talbot Dry Dock Company. This work consisted of stripping out the vessels and converting them to suit whatever tasks the Navy required, such as mine sweeping, boom defence or escort work. In addition to this, the Company fitted anti-magnetic mine devices to many ships, together armaments and other defensive measures which were necessary during the course of the war. General maintenance and repair to merchant vessels continued at this time, and was augmented by ships entering the dry dock for urgent war damage repairs.

In conjunction with Naval and Military authorities, plans were prepared for the complete immobilisation of Port Talbot Docks in the event of an enemy invasion, and regular exercises in immobilising essential dock facilities (lock-gates, quayside cranes, etc.) were carried out to ensure that such measures would operate efficiently if ever the need were to arise.

1941 saw the introduction of mail shipments from Port Talbot to the Port of Lisbon, from where letters and parcels were distributed by the Red Cross to British prisoners of war in Germany. Also during that year all dock roads were newly resurfaced in tarmac, while an entirely new road was laid down along the whole of the Talbot Wharf extension berth, with entrances at both the eastern and western ends. Other general cargo wharves were also resurfaced at this time, and the Taibach Tinplate Works (R D David) were closed down so that the War Office could use the building for the storage of motor vehicle spare parts.

In July 1943, the War Department staged an extensive invasion exercise aimed at testing the capability of various UK ports to maintain an allied force overseas (i.e. in northern Europe) for an extended period of time. At Port Talbot Docks, in conjunction with Swansea, plans were carefully prepared for the loading of a number of coastal vessels with a wide variety of stores, equipment, and motor transport vehicles. A separate organisation was set up at the docks to deal with incoming trains and to record wagons details, and also to marshal and despatch trains from the reception sidings to their appropriate quayside destinations. The hours of duty of staff such as railwaymen, transport workers, crane men, etc., were extended so that the utmost efficiency could be achieved. The number of vessels loaded during this exercise was as follows:- "Phase A" tactical loading, 16 vessels, 3,432 tons; "Phase B" composite loading, 35 vessels, 6,296 tons; "Phase C" composite loading, eight vessels, 1,956 tons, making 59 vessels overall, with cargoes totalling 11,684 tons.

It is probably well known by now that these cargoes were to be discharged to beaches on the Pembrokeshire coast under similar conditions to those which would have been anticipated in an invasion of northern Europe. Unfortunately, very bad weather was experienced during the latter part of the exercise, but extremely valuable knowledge was gained, and this was to be of critical importance in the eventual execution of the D-Day landings on the beaches of Normandy in 1944. At all times, Port Talbot Dry Dock personnel were on hand to carry out maintenance and repairs to these vessels upon their return from such manoeuvres. A special committee met each day for the purpose of resolving any difficulties arising from the loading operations, and the interests of all participating parties were represented. The improvements in operational efficiency achieved by the committee more than justified its formation, and throughout the duration of this exercise, which continued over a one-month period, all concerned worked with immense commitment.

Also in 1943, "trots" were put down in the docks for the reception of invasion barges, e.g., L.C.M.s, L.C.P.s, etc., and in June of that year the Canadian Army authorities took over a large area of land for the storage of 1,400 cased vehicles, which were at that time pouring into the country in readiness for the invasion. That same year saw the construction of a two-

berth “hard” – a special berth for the reception of tank landing ships, or L.S.T.s, as they were officially known – at Llewellyn’s Quay. Altogether, twenty-one L.S.T. ships were dealt with, arriving from North Africa and Italy to discharge a total of 1,034 vehicles comprising tanks, bulldozers, armoured cars and jeeps, etc. In addition, 1,417 military personnel were disembarked, including 1,241 members of the Free French Forces – men that, under General Le Clerc, had marched 1,000 miles from Chad to Tripoli in Libya, taking several Italian garrisons along the way.

Early in 1944 discussions took place with the U.S. Army regarding the role that Port Talbot Docks would be expected to perform in preparation for the actual D-Day landings. On 25th February the U.S. Army staged an exercise in which their own personnel were to load two coasters with military stores of all descriptions. In connection with this operation, a smoke-screen was deployed over the whole of the docks area, with smoke machines having been placed at several advantageous points around the town beforehand. Further smoke-screen tests were subsequently carried out by British military authorities to ascertain whether it was possible for the docks to be made invisible from the air and, in conjunction with the Air Ministry, aerial observations were undertaken whilst these smoke-screens were in operation.

In April 1944, an area of the dock was allocated to the U.S. Army when various engineering companies of the U.S. Armed Forces arrived to construct pontoons and barges. Eighteen barges were completed, fitted out with port engineering equipment, and dispatched to a secret destination in northern Europe. The U.S. military engineers were also permitted to construct jetties and dolphins, etc., within the dock as part of their training prior to their services being required overseas. The dock waters were also regularly used by military divers for training purposes at that time.

Military officials had decided that, in preparation for the forthcoming D-Day landings, Port Talbot Docks would be used as a base for the shipment of petrol in jerricans, and on 9th May 1944, these shipments began. 22 coastal vessels were to be loaded with this highly volatile fuel and all were completed successfully, taking on board cargoes totalling 11,500 tons. In addition, seven of these coasters embarked a total of 715 military personnel. The military authorities also decided to maintain stocks of petrol within the dock estate as a reserve against possible non-arrival of rail traffic as a result of enemy air attack and, in this regard, 13,000 tons of petroleum spirit were stored on the ground adjacent to Messrs. Calders’ premises, and at the rear of Crown Wharf – the whole of this work being undertaken by U.S. Army personnel. It will be appreciated that exceptional precautions had to be taken against the possibility of fire, and all necessary safety measures were put in place by both the Docks Fire Brigade and the National Fire Service. Altogether, shipments of petrol in jerricans through Port Talbot Docks for Allied Forces overseas amounted to 158,000 tons.

The docks at Port Talbot were exceedingly fortunate in that they experienced very few attacks from the air, and consequently suffered relatively little air-raid damage. The first of the air raids occurred in the early hours of 29th June and 1st July 1940, when a number of bombs were dropped on the docks, some falling close to Messrs. Guest Keen & Baldwins’ Margam works, but fortunately there was no significant damage. One lone raider appeared over the docks at 9.52 a.m. on 20th August 1940 and dropped a number of bombs on the south side of the docks, causing damage to dock railway lines, electricity cables and wagons of coal, etc. The necessary repairs were put in hand with immediate effect, however, and everything was fully operational again by the afternoon.

Four days later, incendiary bombs and high explosive time bombs were dropped on No. 2 Grid. All traffic working on the south side of the dock was held up for two days until the unexploded bombs were recovered. One of the unexploded bombs fell into the scullery of a

house in Dock Street, and as a consequence all the residents of the Dock Street cottages had to be evacuated, many of whom were housed in the Y.M.C.A. buildings until the bomb was cleared on 27th August. Fortunately there were no injuries to personnel. When efforts were made to recover one of the time bombs, the military found that, after excavating to 12 feet, the more they dug the more the bomb penetrated the ground. Eventually it was decided that the only way to deal with the problem was to detonate it with one of the recovered bombs. (Note - we do not know the outcome of this!) Throughout the duration of the war some 512 air-raid alerts were sounded, but no serious damage was ever occasioned to any of the dock property.

From time to time, however, enemy planes dropped mines into the port's entrance channel, resulting in Port Talbot being closed to shipping for varying periods of time, amounting to 1,639 hours in total. On 31st July 1940, following a brief closure of the port as a result of enemy mine-laying, the docks were again opened to shipping and the SS Stalheim, laden with coal, left the port at 4.25 p.m. following five other vessels which had sailed on that tide. Unfortunately, the Stalheim struck an enemy mine at a point approximately half a mile from the end of the south breakwater, and sank within two minutes. Of a total crew of 21, five lost their lives, while the pilot, Mr H. A. Gunn, sustained serious injuries, as did several of the surviving crewmembers. They were landed at Port Talbot Pier-head where first aid squads were waiting to render assistance to the injured men before they were taken away by ambulance to the local hospital. Thankfully, all recovered from their injuries. A similar misfortune befell the SS Madjoe, which struck a mine about one and a quarter miles from the end of the breakwater while leaving port on 4th November 1941. In this instance it is tragic to record that all hands were lost, including the pilot, Mr George Fairweather, who was a representative of the pilots on the Port Talbot Pilotage Authority.

4.10 V1 & V2 Bomb strikes

EOD Contracts could find no indication that the site was subjected to any attacks from Hitler's Long Range Weapons (V weapons).

4.11 Abandoned Bombs/UXO

EOD Contracts records could find no evidence of any items of UXO abandoned in or around the subject site, however the below article Dated, 28th march 2008 (<http://www.walesonline.co.uk/news/local-news/unexploded-world-war-ii-bomb-2139335>) did indicate ERW (Explosive Remnants of War) have been excavated in and around Port Talbot.



Unexploded World War II device halts work at steelworks plant

Excavation work at Corus steelworks was halted on Monday, when an unexploded bomb was uncovered.

Bomb disposal experts were called and, assisted by police and company safety officers; they cordoned off the area and removed the device from the site.

Steel production at the plant continued while the drama unfolded, and it was later confirmed that the device was inactive.

Corus spokesman Robert Dangerfield said: "We have to be aware that Swansea was

bombed during World War II and there have been stray bombs. A suspicious device was discovered and the bomb disposal team called.

“What was found may have been a bomb at one time. It was probably part of a munition of some kind; it could even have been a canister of leaflets. Its discovery was not unusual. In the past there have been similar incidents.”

The history books show the German Luftwaffe dropped a significant number of bombs in Port Talbot and its surrounding area.

The first was recorded in 1940, with many more following through until 1943.

It is believed that some had been intended to be dropped on Swansea but had been released early by enemy pilots coming under fire.

Councilor Tony Taylor, who represents Aberavon, said: “It’s interesting that, after all this time, something like this can still be lying about.

“If it had been still explosive it could’ve been a difficult situation. Corus seems to be having a run of bad luck at the moment, but the incident was dealt with in the proper way and showed, whatever problem is thrown at Corus, it can deal with it.”

Police spokesman Paul Fisher said: “At 12.35pm on Monday, November 10, officers were called to the Corus steelworks in Port Talbot following reports of an unexploded bomb being discovered during excavation work on the site.

“The bomb disposal team was called and removed the device, which turned out to be inert and there was no danger to life or property.

4.12 Anti Aircraft Artillery

The nearest recorded location of heavy anti aircraft gun (HAA) position was 3.38km NW from the site. However looking at the information gained in **Section 4.9** it would indicate that there were HAA Gun positions located closer to that.

PHOTO 4.4: Shows the location of the closest HAA guns



4.13 Prior Clearance Operations

EOD Contracts could find no evidence to suggest that there have been any prior UXO clearance operations in or around the site footprint.

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5.0 SOURCES OF UXO CONTAMINATION

The main sources of UXO contamination that are deemed a threat to the site are:

- Air delivered ordnance bombs and sub-munitions/incendiaries.
- Anti Aircraft Ammunition (AA).

5.1 GENERAL

Due to the fact that there is evidence to suggest that the town of Port Talbot was subjected to bombardment through the Blitz period of WWII (including possible direct strikes in and around the Steel Works), As such, a **MEDIUM** risk is considered to exist with respect to UXO.

UXOs are essentially dangerous; therefore further information on UXO and Safety is detailed in Annex F.

5.2 BOMB PENETRATION DEPTHS

5.3 Weapon Sub-surface Penetration.

Weapons penetrate a significant depth into the ground and other types of ammunition are designed to permit the weapon time to penetrate deeply into the target before detonating a short time after coming to rest or a considerable number of hours afterwards. The second reason is where the weapon has failed to function as designed becoming a UXB. A number of studies have been carried out into weapon penetration and it is an inevitable consequence of a number of variable factors acting on the bombs trajectory that figures can and do differ significantly. Careful consideration must be given to the weapon's velocity, trajectory and shape. Also surface conditions and subsurface geology. The largest of the common German bombs, (500kg) can penetrate to significant depths given favourable conditions for penetration. In the case of projectiles and shells, the potential for deep penetration is significantly less.

5.4 Penetration Assumptions.

A number of assumptions were used in determining the maximum threat depth within the project footprint, which were.

5.6 Factors Affecting Penetration

The penetration of sub-surface bombs will be affected by the following:

- Height of release
- Weight, shape and design of bomb
- Aerodynamic qualities
- Angle of flight and impact
- Nature of impact surface

- Nature of sub soil

The expected bomb depths for the site assuming the following criteria:

- 15,000 feet, the vast majority of bombs were dropped from height to avoid AA fire and balloons
- General Purpose Bombs of 50kg to 1000kg
- Near Vertical impact 80 to 90 degrees
- Surface geotechnical conditions are made ground
- Subsurface geotechnical conditions are generally clays see Paragraph 3.3

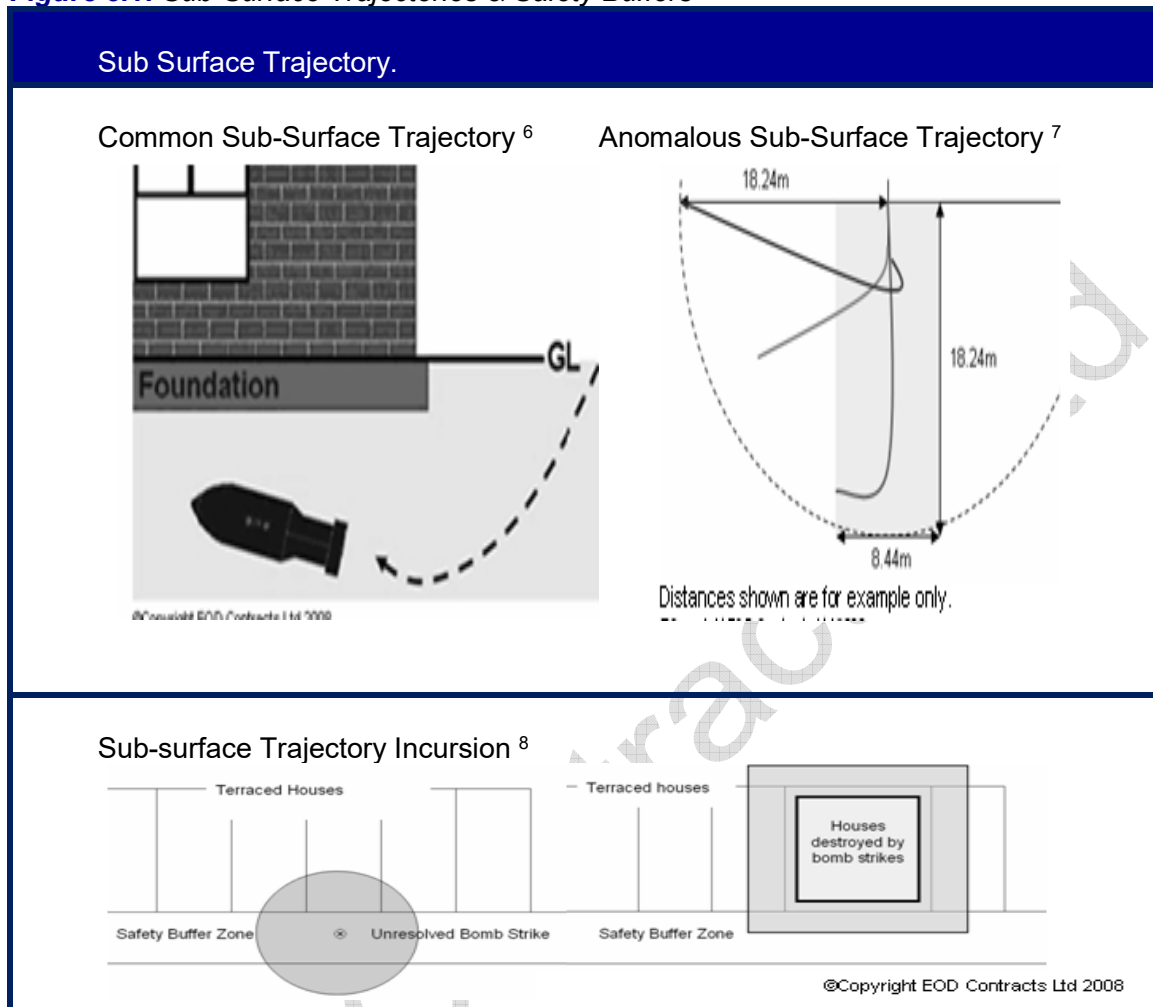
Therefore the expected depths for Air dropped UXBs on site are indicated in **RED** in the following table:

TABLE 5.1: Bomb Penetration Depths

Sub Soil Type	Bomb Weights			
	50kg	250kg	500kg	1000kg
Soft Rock	2.442	5.016	6.006	7.062
Gravel	2.442	5.016	6.006	7.062
Sand	2.442	5.016	6.006	7.062
Chalk	3.7	7.6	9.1	10.7
Shingle	3.7	7.6	9.1	10.7
Dry Clay	3.7	7.6	9.1	10.7
Wet Sand	5.55	11.4	13.65	16.05
Wet Clay	5.55	11.4	13.65	16.05
Average Offset (m)	0.8-1.6	1.6-3.7	3-4.5	3.4-5.3

Bombs on penetration of the surface do not follow a straight-line trajectory they can and do curve; this is called a “J” curve where the bomb’s path bends back towards the surface. This gives what is known as the Offset, which may place a bomb under a structure and at a shallow depth.

Figure 5.1: Sub-Surface Trajectories & Safety Buffers



Note; the common sub-surface trajectory will follow a path best described as a 'J' curve. The curve can result in a weapon coming to rest some distance from its impact point. The distance from impact point to resting place is referred to as the "Off set Distance and is normally considered to be 1/3 of the depth. This mechanism can permit a weapon to strike outside a building and travel below ground finally coming to rest within the building footprint. Where a strike is known to have occurred close to a building or structure such as a dock wall, a danger zone should be considered to exist around the area of the strike of sufficient size to accommodate the likely sub-surface travel distance for the weapon.

Note; the typical offset distance is shown as the shaded area, on rare occasions a near surface deflection of the weapon can occur and the offset distance can be substantially increased up to 5/4 of the penetration depth. This mechanism does however reduce the penetration depth considerably with the net result that while the offset is increased the overall travel distance is for the most part unaffected.

Note; scenario 1 shown top left shows a hypothetical bomb strike outside a structure or building. The strike location has been accurately identified and as a consequence; a potential danger zone (circular shaded area) can be placed around the point of impact. Scenario 2 shown top right; depicts a direct HE bomb or Incendiary strike within a building

which totally destroyed the building. In circumstances such as this UXB entry the building rubble may have concealed hole and the weapon may still be present within the building footprint or it may have travelled sub-surface and come to rest outside the footprint. Here the danger zone (square shaded Area) extends outwards on all sides of the original building footprint.

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6.0 RISK ASSESSMENT

6.1 Risk Assessment

Assessing both the likelihood of occurrence and the consequences of the encounter has derived the overall risk for the site from unexploded ordnance. Review of the site's history and geographic location can provide an overall likelihood of encounter factor, which is used in the subsequent determination of a risk level when a Figure can be determined for the consequence.

6.2 Likelihood of Encounter

Given the study findings and other criteria (See Annex F Tables) it is considered that there is a **MEDIUM** risk of encountering UXO within the site footprint. This finding is based on assessment of all of the available information and taking account of the following factors:

6.3 Consequence of Encounter

The consequence (See Annex E) of an uncontrolled encounter with UXO, given its lethal design and its unpredictable nature could be catastrophic and warrants a high severity factor. With regards to the consequences, the following factors were considered:

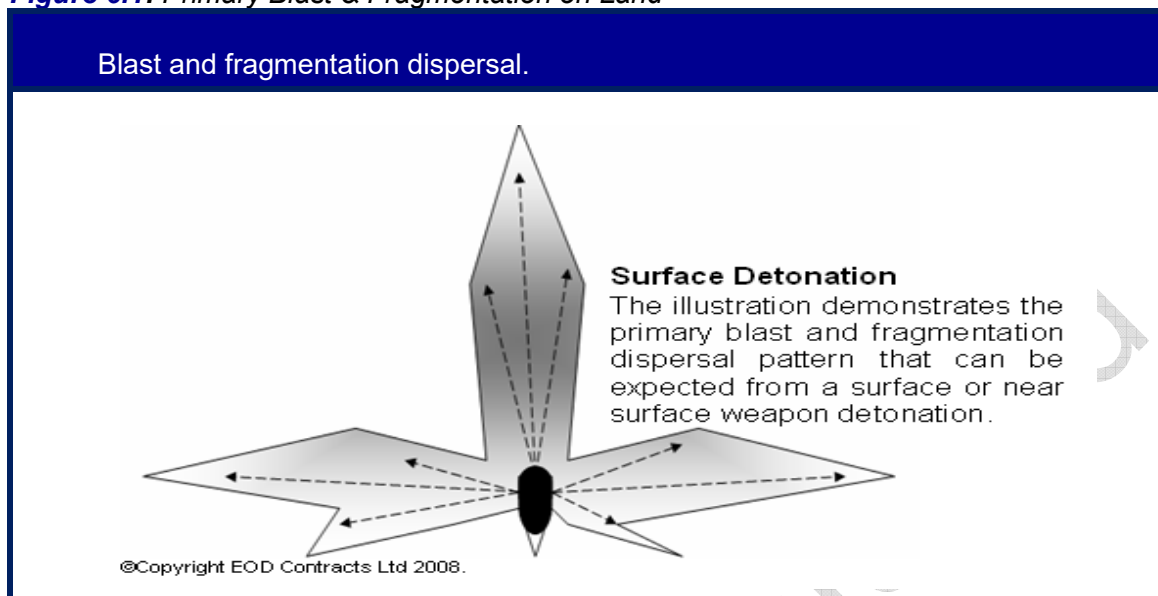
The project works may make use of a number of common ground investigation and construction techniques in its methodology during the project. Any intrusive groundwork has the potential to encounter UXO.

Intrusive earthwork, piling driving and dynamic ground compaction are by nature, aggressive, significant force (kN) is often required to achieve the desired results. As a precaution it is prudent to assume that any external stimulus, no matter how slight, may result in an unstable weapon detonating.

Records of encounters with UXO, particularly where plant machinery has been involved have resulted in detonations of the items with varying degrees of consequence; ranging from slight injuries sustained to piling contractors when a bomb detonated at 6.0m bgl to fatal injuries sustained to a construction worker while conducting near surface machine works on a motorway.

Detonation on land; the effects of a detonation at depth will be more localised and less destructive than one occurring on the surface. Figure 6.1 shows an illustration of the primary blast and fragmentation dispersal from explosive ordnance when it detonates on the surface. The weapon's design, and other key factors such as the ratio of explosive charge weight to total weapon weight (CWR) and the Net Explosive Quantity (NEQ) will determine the size and effects of a blast. The effects will also be enhanced or reduced by a number of factors including, the presence of other energetic materials in close proximity to the blast or if the weapon is buried or exposed on the surface. As a guide Annex E Table 1 gives an indication of the likely blast radius for common types of UXO.

Figure 6.1: Primary Blast & Fragmentation on Land



In addition to the dangers of explosion, many common chemicals used in the manufacture of explosive ordnance fillings are; in sufficient quantity, and level of exposure, toxic or poisonous. Although it is unlikely that such chemicals would be encountered in significant quantity to represent a significant risk to personnel, leakage or venting could pose a risk to the local marine environment. In addition to heavy metals; copper, lead, zinc etc used in the weapon body and fuze, hydrocarbon propellants such as Kerosene may also be present.

6.4 Risk Level

The overall risk has been determined to apply to all of the ground within the site footprint. The prevailing risk level has been determined to be **MEDIUM** in the area of the site footprint.

6.5 Encounter Consequences

It is acknowledged that when viewed from a “likelihood versus consequence” scenario; the consequences of an explosion may have the potential to include:

- Multiple casualties or fatalities.
- Extensive damage to high value private and public assets and property.
- Significant delays to the construction project.

6.6 Those at Risk

The risk is considered to have the potential to pose a direct and indirect threat to a wide range of individuals and facilities. While the impact on fixed assets can be estimated based on the asset's proximity to the seat of the explosion. The impact to transient assets and people will, for the most part, be the result of both; proximity to the explosion and the time at which the event occurs. The overall impact therefore has the potential to range from little more than a minor localised event to a level, which may be considered to be a more widespread major incident involving some or all of the following:

- Construction and other specialist personnel carrying out the work.
- General public in open spaces, at their places of work and transient population on foot or road users in proximity to the construction work.
- Public services including; transport, water, gas and electricity supplies.
- Public facilities, including; buildings, vehicles, other high value assets and equipment.
- Private business property including construction equipment.
- Private residential property in proximity to the work.

6.7 At Risk Activities

Based on our understanding of the scope of the most common construction projects, it is considered that a wide range of intrusive processes may be required to complete the project. Any intrusive groundworks has the potential to encounter UXO and each activity therefore has a degree of risk attached to it. The severity or level of the risk is derived as a consequence of activity's; location, methodology and volume or quantity of risk material to be worked, at risk activities are considered to include:

- Site preparation and levelling.
- Intrusive geotechnical and archaeological investigations including drilling and pitting.
- Foundation construction, trenching and other excavations.
- Intrusive construction works, which may include piling.

7.0 CONCLUSIONS

Based on the information researched by EOD Contracts Ltd for the proposed works being carried out within the site area laid out within the client's scope of works, we can conclude the following:

Port Talbot was not subjected to bombardment during the period of WW1.

EOD Contracts have found viable evidence to suggest that the town of Port Talbot was the subject of direct attack during the Blitz.

The closest HAA gun emplacements to the site were 3.38km NW of the site.

The Luftwaffe would have considered the site itself a strategic target during the blitz; it was also surrounded by several key infrastructures that also would have been key targets (such as the railway lines/Docks) throughout this time.

EOD Contracts could find no evidence that the site had had any Military usage in the past however the site was in full use throughout the WW2 and due to its very nature may have been used to produce items that could be utilised by the military. Also due to the strategic importance of the Steel works and its surrounding environment there would have been a strong military presence in and around the town.

The site has been the subject of construction both Pre and Post WW2 however the exact scope of works is not known to EOD Contracts at this time. Therefore it is possible that items of UXO have remained undetected up until this time.

Therefore the risk level on site has been deemed as **MEDIUM** (ALARP), EOD Contracts deem that UXO Risk Mitigation is recommended.

8.0 RECOMMENDATIONS

It is recommended that the following risk mitigation strategy is executed during the project:

Communicating the risks, all stakeholders should be made aware of the UXO situation on the site and the possible impact it may have on the project works and day to day running of the district. Clients have a legal duty under the Construction Design & Management Regulations (CDM) and Health & Safety at Work legislation to provide Designers and Contractors with project specific information needed to identify hazards and risks associated with the design and construction work. The possibility that UXO may be encountered on site falls within the category of a significant risk and as such it should be addressed as early as possible in the lifecycle of the project.

Further planning; the risks posed by UXO should be brought to the attention of the Project CDM Coordinators and other individuals with a responsibility for project safety and operations at the site. The matter of UXO should be considered critical to project safety and one requiring high priority action.

UXO safety awareness training should be given at all levels of site personnel and selected individuals on the project staff with relevant responsibilities. A competent person as part of the project safety induction course should provide the awareness training. It should be reinforced with specific safety briefings and toolbox talks to individuals involved in conducting intrusive earthworks.

Project overview and the responsibilities of those working on site with regard to duty of care and public safety.

UXO recognition and safety procedures to be followed on discovery of a suspicious object or the alarm being sounded.

Emergency procedures to be followed in the event of an explosion. Evacuation routes, muster stations and accounting for personnel.

Prior to any intrusive piling or drilling commencing, UXO safety testing and appropriate clearance certification into the ground to sufficient depth to provide clearance from UXO. This can be done using a progressive drilling process or (where large numbers of piles are to be placed and ground permitting) using a vehicle borne hydraulic system to push a magnetometer into the ground to test for the presence of UXO prior to piling.

UXO safety monitoring of all “at risk” excavations, including geotechnical or archaeological trial pits to be conducted during the project. This should be provided by a UK Home Office Authorised EOD/UXO Contractor using qualified EOD Engineer with specialist locators and detectors to scan the ground ahead of the excavation wherever possible.

9.0 Specifically

Geotechnical investigations, percussive drilling/trial pits/window/samples, require an EOD Engineer over watch.

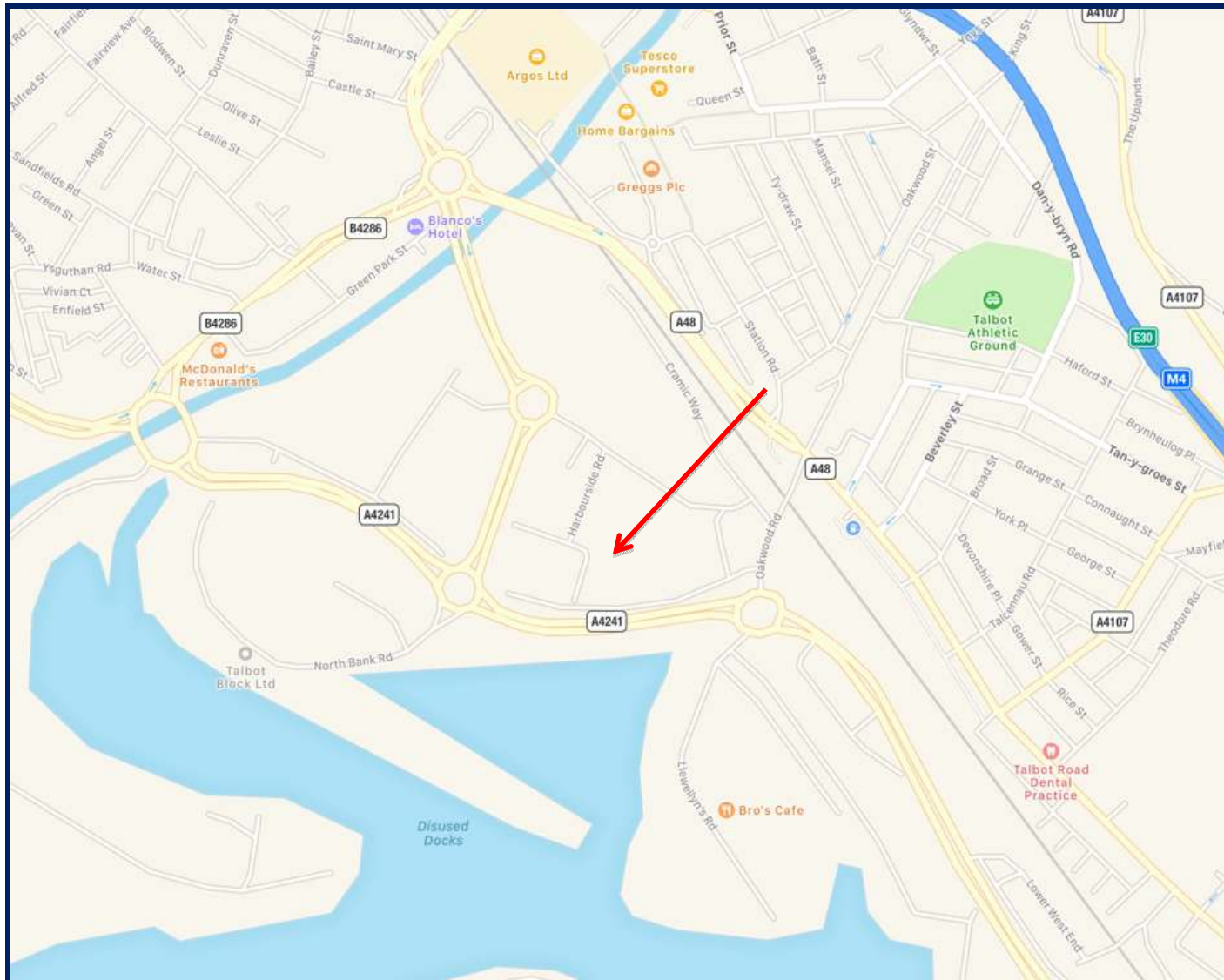
Demolition of buildings to ground level, does not require any mitigation

Removal of old foundations does not require a specific mitigation; however it would be deemed prudent to have an Explosive Ordnance Safety presentation to all ground workers.

New foundations with piling should be mitigated by the insertion of a magnetometer to encompass the pile position, this would be carried out using a CPT rig (magcone), the expected radius of the magcone is 1.5m therefore multiple piles could be checked.

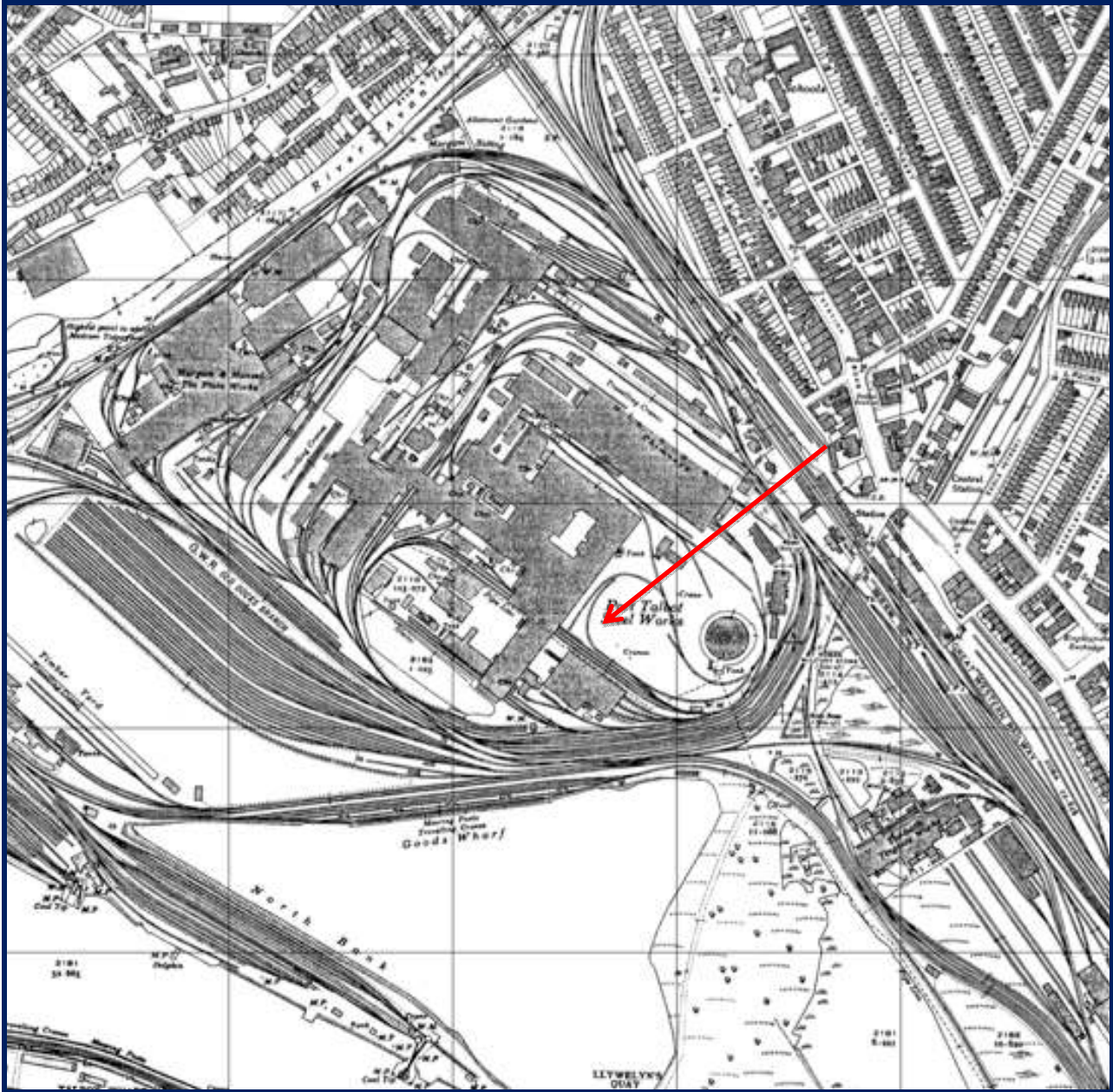
Non-Intrusive Magnetometer surveys generally prove inconclusive on “Brownfield sites”, this is due to the high ferromagnetic background, therefore this methodology is not recommended for this site and shallow excavations should be overseen by a qualified EOD Engineer.

SITE LOCATION



B - 1

PHOTO 2: Historic map of the site published in 1939



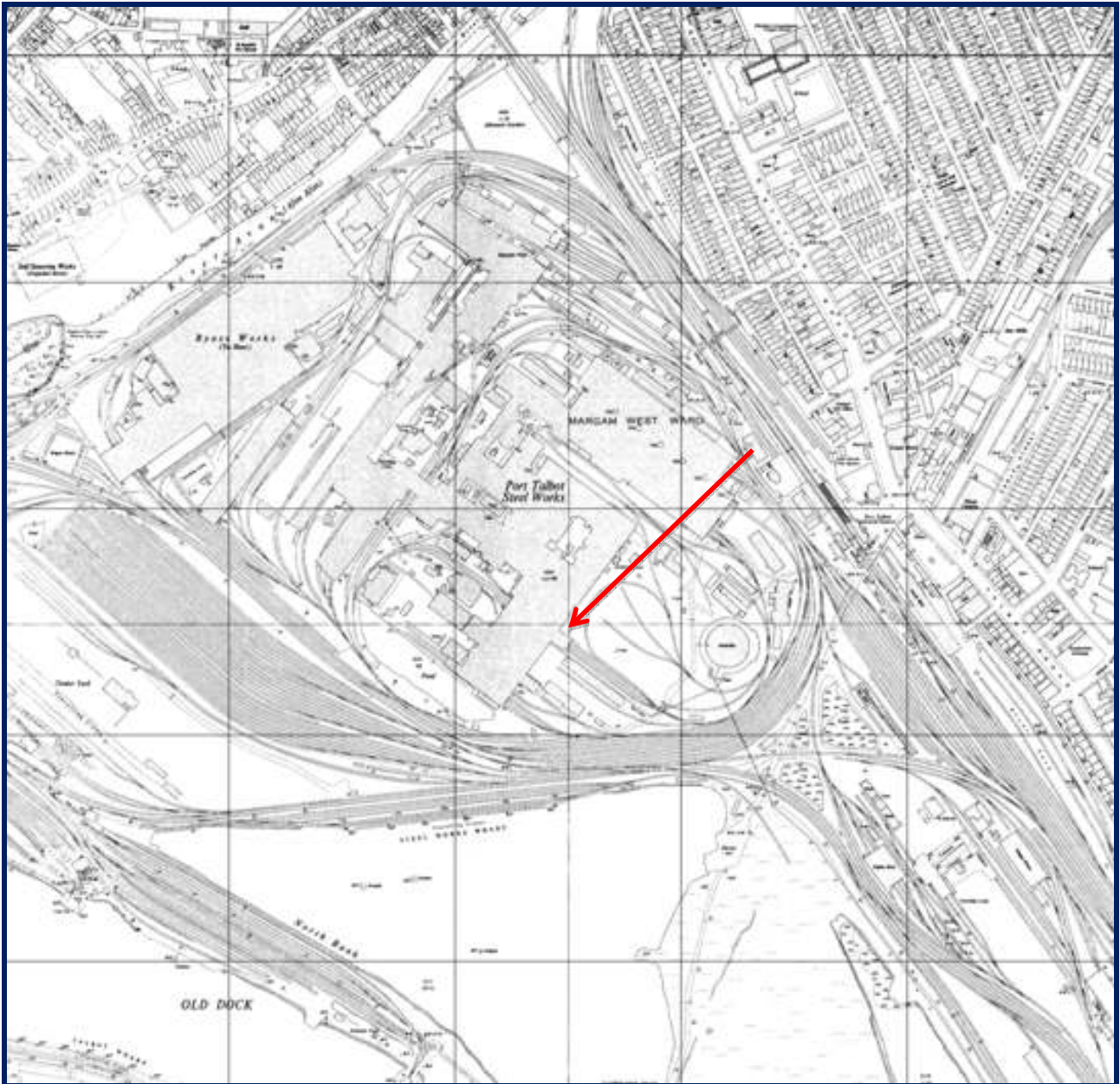
Published – 1939

Site indicated – Red arrow

Map Scale – 1:10,560

The above map shows that at the time of publishing the site does appear to have changed slightly since the previous time period, however it is still being utilised as Port Talbot Steel Works.

PHOTO 3: Historic map of the site published in 1952



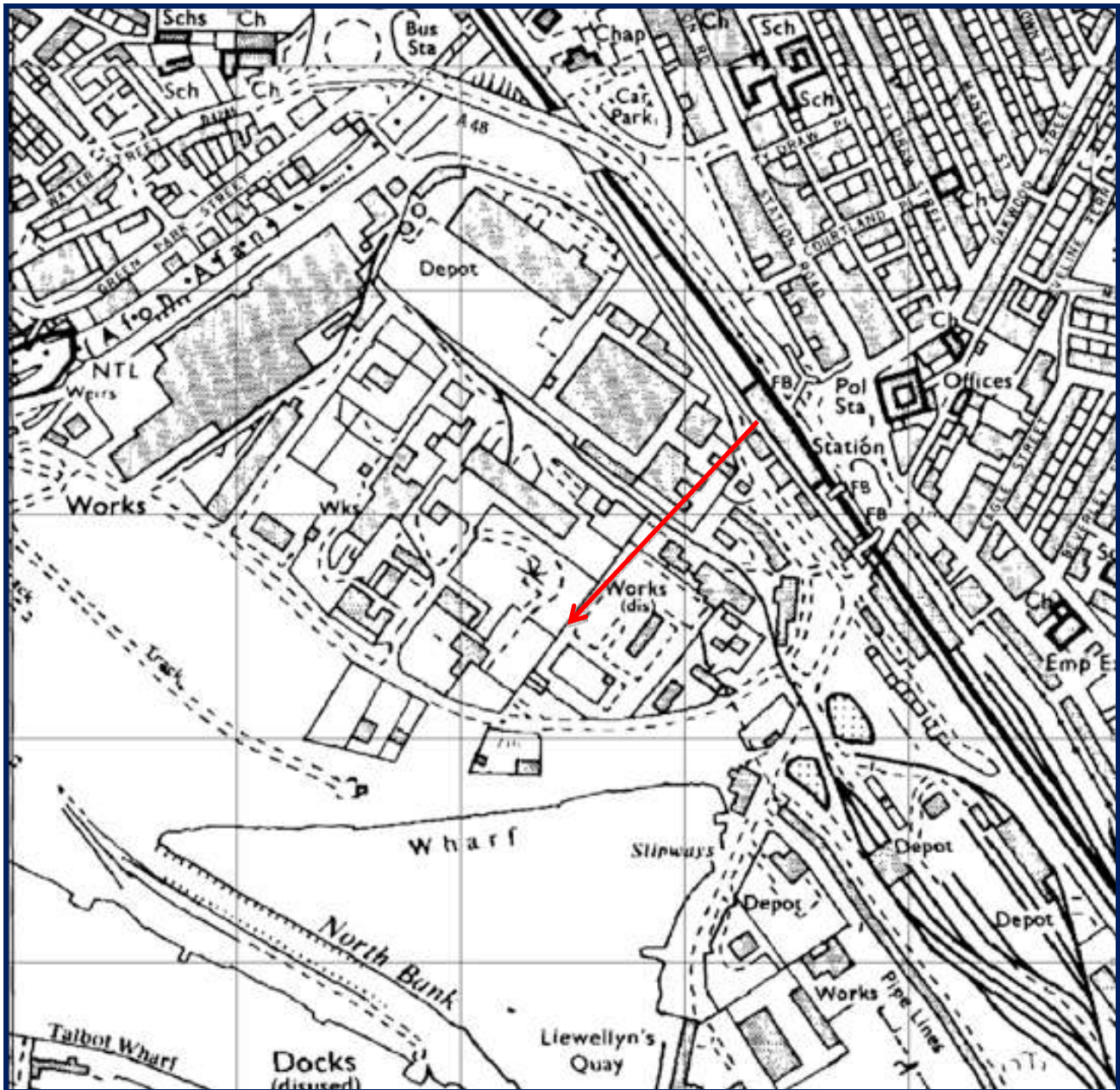
Published – 1952

Site indicated – Red arrow

Map Scale – 1:2,500

The above post war map still indicates the site being utilised as Steel works, there also doesn't appear to be any significant changes to the layout of the site since the previous time period.

PHOTO 4: Historic map of the site published in 1980



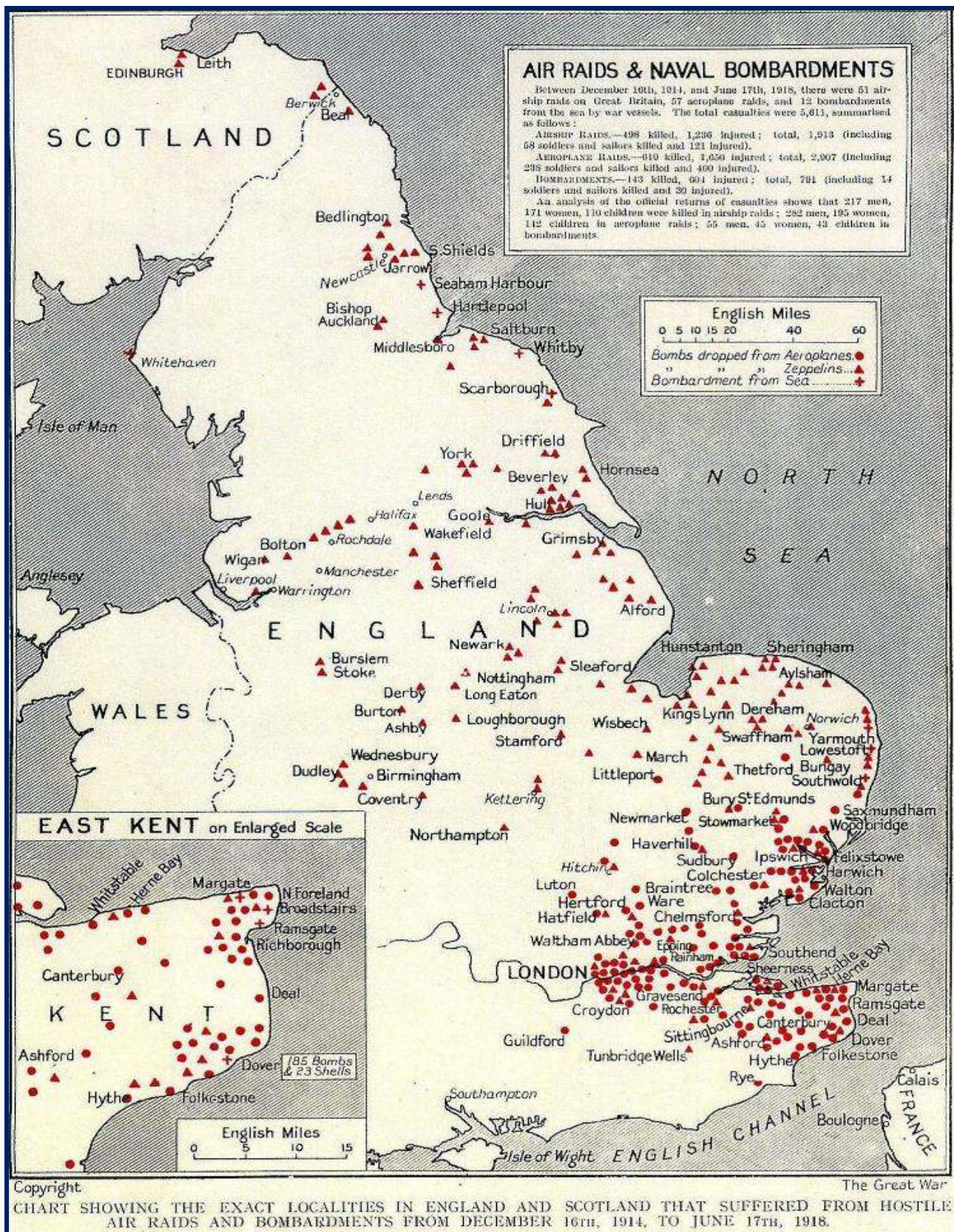
Published – 1980

Site indicated – Red arrow

Map Scale – 1:10,000

The above Map indicates that the land is still being utilised however there does appear to have been changes to the site layout.

BOMB RAIDS WWI



NOTE: The site location is not visible on this map, however it is a historic fact that Wales was not the subject of any bombing raids during WWI.



16th May 2017



Bomb disposal experts in Birmingham are taking part in a "major, delicate operation" to make a wartime bomb safe.

A major route into the city remains closed for a second day, rail services are affected and people have been evacuated from their homes.

The bomb disposal team said 13 lorry loads of sand had been brought in to create a "sizeable igloo" around

the 250kg (551lb) bomb.

Junctions four to seven of the M6 have been closed ahead of detonation.

West Midlands Police, who has praised the bravery of the team at the scene, said the motorway between junction four near Coleshill and seven at Great Barr will shut in both directions while a controlled explosion is carried out.

Mike Luedicke, deputy commander of the Army's UK bomb disposal unit who is coordinating the operation, said the team was "very confident it was a classic Second World War German air drop bomb".

"It's called an SC2 50 - 250kg in weight, 139kg of high explosives," he said.

He said a "large cave of sand bags" consisting of 250 tonnes of sand had been put around the site.

Major Luedicke said it had been a particularly "complex" case because the fuses were "on the underside and pressed into the earth and so our process of identification and diagnostics has been a real challenge".

"We need to either magnetically or chemically freeze the fuses to essentially put a handbrake on them," he said.

A 500m cordon was set up after the discovery at about 09:45 BST on Monday and hundreds of homes and businesses evacuated.

About 80 people were forced to spend the night in a rest centre, the Red Cross, said Paige Collins, of Aston, and her 10-month-old daughter, were among residents who spent the night at Alexander Stadium in Perry Barr.

"We're in a dusty gym - I think it is normally used for martial arts. It is a bit draughty," she said.

Ms Collins said she slept for about "an hour" on a mat and sheet after putting her daughter to sleep in her pushchair. She said cots should have been provided.

"I was trying to go into my house about 2:45pm [on Monday] and the police were at the bottom of my road saying everyone has to be evacuated," she said.

Residents were told they could be there until about 18:00 BST, she said.



Analysis by Birmingham historian Carl Chinn

Birmingham was a major munitions centre, as were Manchester and Coventry, and on 19 November 1940, the Germans attacked the city very heavily. At the time Aston and Tyseley were very industrial areas. The raid carried on for nine hours on 19 November, but it could have been the next night when this device was dropped.

On 20 November, nearby Queen's Road was absolutely destroyed by a big bomb. Queen's Road is right next to where this bomb was found.



SOURCE: <http://www.bbc.co.uk/news/uk-england-birmingham-39932247>

Wembley WW2 live bomb posed 'risk to life'

22 May 2015 | London

Share



SERGEANT RUPERT FRERE RLC

A blast wall was put up around the bomb to minimise damage if it exploded

An unexploded World War Two bomb uncovered by builders near Wembley Stadium posed "a genuine risk to life", the Army has said.

The 50kg (110lb) device was removed by a specialist Army team and safely detonated.

The bomb, thought to date from the early 1940s German air raids on London, was found on Thursday. Homes and businesses were evacuated and the Army built a blast wall around the device in case it exploded.

The device was taken away by the Royal Logistic Corps disposal teams to a safe area to be detonated in a controlled explosion.

Police confirmed it was blown up in an unspecified location in Bedfordshire shortly after 17:00 BST.

After the bomb was removed from its position near Wembley, street cordons were taken down and people were allowed back into the area.

Wembley Stadium said its weekend games would go ahead including the Championship Middlesbrough v Norwich play-off on Monday.

"This weekend's games remain unaffected and we look forward to welcoming supporters of all six Football League Play-Off finalists to Wembley", it **tweeted**.

The Army said the bomb was located about 200m (656ft) away from Wembley Stadium but there was no risk to the venue. Empire Way had been partially closed and a 400m cordon was in place while bomb disposal experts dealt with the device.

The bomb was reported at about 15:00 BST on Thursday and Met Police officers said about 300 properties had been evacuated, which included the TV studio where Britain's Got Talent is filmed.

Chief Supt Mick Gallagher, from Brent Police, said the public had been "very mature" in its response to the bomb.

He said 70 people had spent the night in an evacuation centre and more people joined them in the morning.

"I must also thank our courageous soldiers from various Army regiments for working tirelessly for over 24 hours, using their skill and experience to safely bring this incident to its conclusion," he added.

An Army spokesman said: "This bomb is a live munition in a potentially dangerous condition so it's important that people listen to the police and evacuate their homes if asked.

"Any bomb, even under a controlled explosion, could cause significant damage to property and there is a genuine risk to life."

The Met Police said it had worked with disposal experts and partner agencies "to keep disruption to local residents and businesses to an absolute minimum", while ensuring everyone's safety.



SOURCE: <http://www.bbc.co.uk/news/uk-england-london-32841971>

Friday 20th January 2017



Discovery: the unexploded German SD 50kg bomb was dropped by an aircraft during the second world war.

This is the World War Two bomb which caused chaos after it was found in the Thames near the Houses of Parliament on Thursday evening.

Waterloo and Westminster bridges were both closed for several hours, Westminster underground station was closed and river traffic was halted after the device was dredged up near the Victoria Embankment. Scores of police carried out safety checks in the area and the riverfront remained closed until around 3am on Friday morning.

The Royal Navy operation to dispose of the unexploded bomb involved towing it along the river to Tilbury where a controlled detonation was carried out.

In pictures released by the Royal navy today, the German SD 50kg bomb appears to be covered in years of river slime but is still in a reasonable condition.

It is thought to have been dropped from an aircraft during the Blitz.

Lieutenant Mike St Pierre, the officer who led the bomb disposal team on scene, said: "It was a long night for me and the team but this is exactly what we are trained for so it was a successful operation, although it was a little surreal carrying out our job right next to the Houses of Parliament.

"I'd like to thank the authorities who worked with us so well on this operation, particularly the Met Police. The bomb itself was in good condition considering how old it was, and it clearly still

"We removed it from the barge and towed it along the Thames, working very closely with the Met Police to safely close off bridges as we went, until we were sure we could detonate it safely."

Large crowds of tourists and passers-by had gathered at the police tape with some calmly taking photographs of the odd sight.



SOURCE: <http://www.standard.co.uk/news/london/pictured-ww2-bomb-found-in-thames-which-caused-chaos-in-london-a3445831.html>

EXPLOSIVE ORDNANCE SAFETY AND INFORMATION

UNEXPLODED ORDNANCE

Since the end of WWII, there have been a limited number of recorded incidents in the UK where bombs have detonated during engineering works, though a significant number of bombs have been discovered.

The threat to any proposed investigation or development on the site may arise from the effects of a partial or full detonation of a bomb or ordnance item. The major effects usually being shock, blast, heat and shrapnel damage. It should be noted that the detonation of a 50kg buried bomb could damage brick/concrete structures up to 16m away and unprotected personnel on the surface up to 70m away from the blast. Larger ordnance is obviously more destructive. Table 1 denotes recommended safe distance for UXO.

Table 1: Safety Distances for Personnel

UXO (Kg)	Safety Distances (m)			
	Surface UXO		Buried UXO	
	Protected	Unprotected	Protected	Unprotected
2	20	200	10	20
10	50	400	20	50
50	70	900	40	70
250	185	1100	120	185
500	200	1250	140	200
1000	275	1375	185	275
3000	450	1750	300	450
5000	575	1850	400	575

Explosives rarely become inert or lose effectiveness with age. Over time, fuzing mechanisms can become more sensitive and therefore more prone to detonation.

This applies equally to items that have been submersed in water or embedded in silt, clay, peat or similar materials.

Once initiated, the effects of the detonation of the explosive ordnance such as shells or bombs are usually extremely fast, often catastrophic and invariably traumatic to the personnel involved.

The degradation of a shell or bomb may also offer a source of explosive contamination into the underlying soils. Although this contamination may still present an explosion hazard, it is not generally recognised that explosives offer a significant toxicological risk at concentrations well below that at which a detonation risk exists.

TYPES OF ORDNANCE

German Air Delivered Ordnance. Technical information on the nature and characteristics of the ordnance used by the German Air Force during both world wars has been available for a number of years. Assessment that began during the 1930's has continued to the present day. Experts have conducted research in many countries as part of national research programmes and as individual research projects. Consequently a well-informed assessment of the threat posed by unexploded ordnance, and the hazards that they represent, can be made with a high degree of confidence.

Terminology. It should be noted that two terms used in bomb records can lead to some confusion as to their meaning and therefore significance. The term Unexploded Bomb (UXB) refers to a bomb that has fallen, failed to function and has been subsequently dealt with and removed from the site. The term Abandoned Bomb (A/UXB) refers to a UXB that could not be found or recovered, or the decision was taken not to pursue the matter further. Consequently the unexploded bomb remains where it came to rest when it was dropped or fell to the present day. It should also be noted the word 'bomb' can be used to describe an airdropped bomb or a shell as in some cases no differentiation was made and the term was interchangeable.

Abandoned Bombs. The records of known abandoned unexploded bomb locations in the London area were released in response to a written Parliamentary Question from Simon Hughes. (Hansard: Volume; 282. Dated 15th October 1996). The information was provided by the Ministry of Defence (MOD) and supplied under an indemnity.

Explosive Ordnance Failure Rates. Over the course of both World Wars a considerable quantity of ordnance dropped on UK targets failed to function as designed and subsequently penetrated the ground without exploding. Information gathered during the war by the MOD and its research partners provide typical failure rates for different types of ordnance. Figures significant to this study are:

- 10% of all German airdropped bombs failed to function as intended.
- 30% of all anti-aircraft and other types of shells failed to function as intended.

Deductions & Considerations. The following points were considered as part of the assessment and have been given due consideration:

Records were found that indicated that the general area was subjected to heavy bombing.

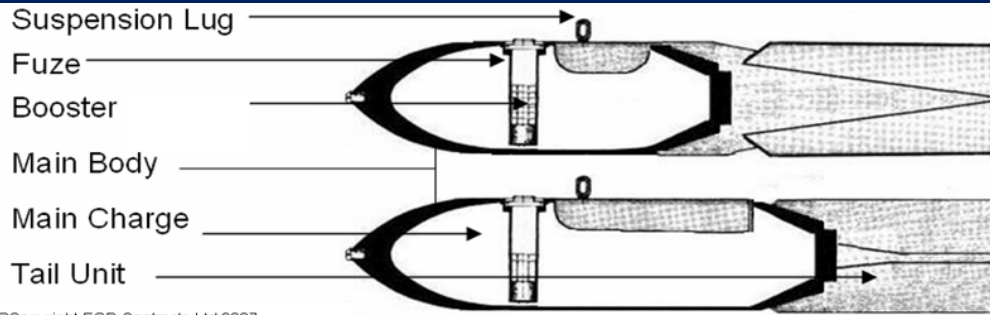
Bombs, which struck previously, hit or burned out targets and did not function; consequently their impact was unseen and therefore no report was ever made.

In all likelihood, the local anti-aircraft battery would have fired a far higher number of shells than the bombers dropped HE bombs. Contamination by anti aircraft shells can not be rules out.

Generic German Bomb Types. The majority of German bombs dropped were 50kg in weight, accounting for approximately 16% of the total bombs dropped. The range of common bombs increased in weight to a maximum of 1700kg. Regardless of size, German bombs were fitted with one or more Electrical Condenser Resistance (ECR) fuzes many of which included a mechanical component. The fuzes were mounted transversely in the bomb body with the booster directly below, and in contact with, the fuze. The booster; sometimes referred to as the Gaine, is composed of a sensitive explosive material (Picric Acid). Picric Acid is known to deteriorate over time becoming increasingly unstable. The internal layout of two common German bombs and a German fuze is shown in Figures 6.1 & 6.2.

FIGURE 1: Generic German Bomb Design.

Graphic Cross Section through the most common German bombs (50kg)



Note; the diagram shows that there can be a significant difference in the quantity of High Explosive contained within bombs of similar size and shape; the Grade 1 bomb on the bottom having 30% more HE than the Grade 2 shown at the top. This serves to demonstrate the importance of an accurate identification of any item of UXO.

FIGURE 2: Generic German Bomb Fuze Design.

Graphic Cross Section through a typical German fuze (ECR)

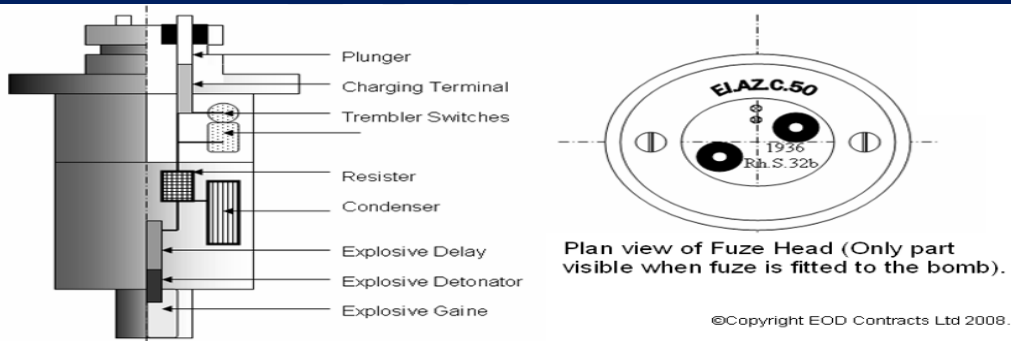


FIGURE 3: Range of HE bombs dropped on the United Kingdom.**German bombs**

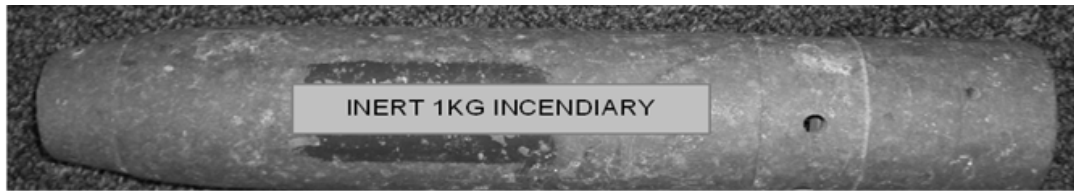
NOTE: The smaller sub-munitions (Bomblets) seen to the right, ranged in size between 1 and 3kg, were dropped in large numbers and were intended as incendiary bombs, anti-personnel bombs or as bombs filling both roles. The smaller bomblets were dropped in larger container bombs designed to hold between 360 and 620 of the bomblets. The containers were designed to burst open at a predetermined height above ground level, dispersing the bomblets over a wide area. Air raid damage was far greater by using both incendiary, and HE bombs on a single raid. The fires started by the incendiaries being rapidly spread by the blast waves from the HE bomb. This scenario was shown to devastating effect on the 14th February 1945 in the German city of Dresden. Where fires started and spread by the bombing increased to a point where the oxygen was being sucked into the flames at such a high speed that the fire became a "Fire Storm". At the time the city's population had increased due to a high number of refugees fleeing the Russian advance to the east, the exact civilian death toll from fire and suffocation will never be known, but is considered to be somewhere between 25,000 and 100,000.

High Explosive (HE) Bomb. Some of the most common type of ordnance to be dropped on the United Kingdom, HE bombs are often the type encountered as UXBs. Relatively thick cased, they are still recovered in remarkably good condition. Ranging in size from 50 to 1700 kg, their typical release height (1,500m) allowed them to penetrate deep into the ground as a result of design or flaw. Towards the end of the bombing campaign, as steel became scarce the German Engineers produced a range of bombs that used steel reinforced concrete as the bomb body. Figure 6.3 shows the range of steel HE bombs dropped on the UK.

Incendiary Bomb. The larger incendiary bombs, containing bottles of white phosphorus and an incendiary mixture contained within a thin steel case were designed to burst on contact with the ground. A fixed dispenser on the aircraft delivered the smaller type of bomb or 'Bomblet' to the target area in container bombs or; both types of container would open dispersing the smaller Incendiary bombs. Relatively small and light they were unlikely to penetrate the ground to any significant depth. However, once concealed in bomb damage rubble or below water they were easily missed and are still unearthed today from in-fill and drained land. Later versions of the incendiary bomb contained an additional explosive charge used as a short delay "Booby Trap" device that contained a significant amount of high explosive. The Booby Trap component was designed to kill or injure fire fighters and hinder the damage control. See Figure 4.

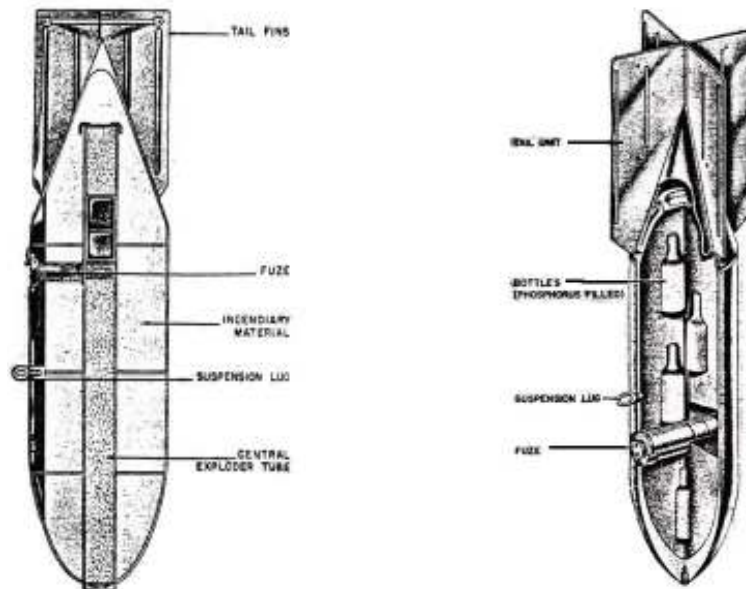
FIGURE 4: Incendiary Bombs.

Common German Incendiary Bombs



← 250 mm →

Above 1kg incendiary bomblet, below left the larger 500kg incendiary bomb Below right a 50kg incendiary bomb containing bottles of white phosphorus.

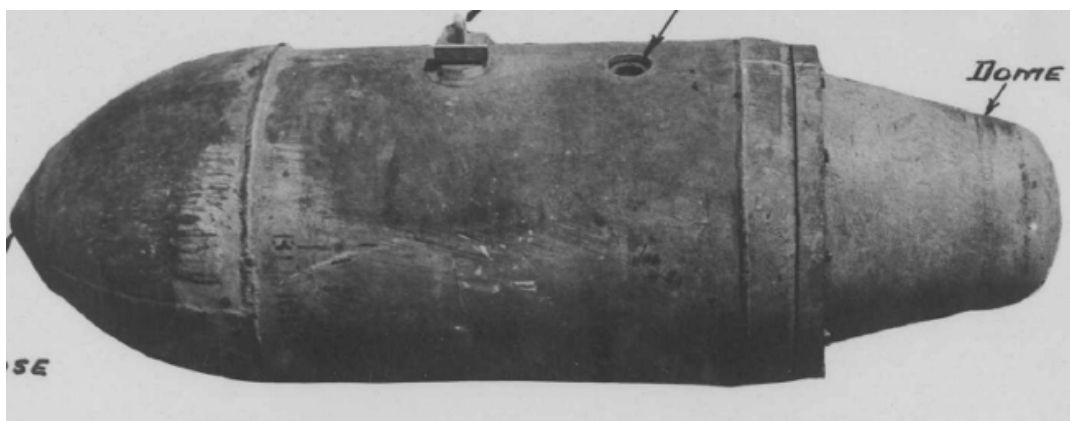


Note; Incendiary bomblets were made of a flammable alloy similar in appearance to aluminium, which resists corrosion well. The tail unit was made of thin tin-plate steel and is more prone to have rusted away. Some Incendiary models were fitted with a High Explosive (HE) steel nose. With the tail and explosive nose attached the bomb was 480mm long.

Blast Bomb / Parachute Mine. The parachute mine was extensively used on land and at sea and was fitted with specialist fuzes designed to trigger the weapon at a predetermined altitude, water depth or to switch on other magnetic influence mechanisms to trigger the weapon when a ship approached (Magnetic or Acoustic influence). While early versions were based on the standard 1000kg SD Bomb case others were specially designed and manufactured with an aluminium body, making them extremely difficult to detect using magnetometers. The thin cased versions would normally disintegrate on impact on land and are normally considered to pose little threat to work on land based projects, but the risk increases significantly on projects over water or in marshland. Thicker cased versions however will survive impact and pose a significant risk regardless of the local ground conditions. (See Figure 5)

FIGURE 5: Common Airdropped Mines.

Parachute & Ground Mines



Note; all mine fuzes were designed to arm after deployment from the ship, submarine or aircraft, some fuze designs incorporated anti-removal booby traps. Unexploded mines found today are the result of a failure within the arming mechanism or procedure whereby the mine never fully armed. Sudden shock or jarring of a weapon in this state has the potential to complete the arming sequence and could result in the mine detonating with lethal consequences.

Non Steel Cased Bombs. Used primarily in the construction of training or practice bombs, some high explosive variants were introduced towards the end of the war. With resources running scarce, German Engineers produced a small number of blast bombs with a concrete body. The design utilised a steel framework onto which concrete was cast. The explosive filling was also contained within a thin steel container within the bomb body. Very few “concrete” bombs were dropped on the UK. In common with standard steel cased weapons, this type of bomb can be detected using standard magnetometer detection techniques (albeit; providing a smaller ferromagnetic signature than its all steel counterparts). This type of bomb represents a very small percentage of the total number of bombs dropped worldwide and are not considered a significant threat, particularly when viewed from an overall bomb threat in the UK.

Anti-Personnel Bomb. Generally these were small weapons of 1-3 kilograms in weight and are often referred to as ‘Bomblets’ and possessing similar ground penetration ability as the Incendiary Bomblets. They were often located during the post-raid searches. This type of bomb has been recovered within the bomb rubble being cleared or used as in-fill on construction projects and poses the same potential to function as the Incendiary bomb with a greater potential to cause localised casualties.

Specialist Bomb. These types of bombs were designed to meet a specific mission requirement. Typically, this would be a design modification or special fusing to enable the bomb to destroy hardened/armoured targets or deep buried and sub-marine targets. Similar to the more common HE bombs, they differ in that they rarely contain large amounts of high explosive. Therefore the consequence of a detonation is reduced but remains a significant risk, particularly when the detonation occurs on or near the surface.

Depth Bombs & Depth Charges. These types of weapons were designed to meet a specific mission requirement. Typically, the modifications would include the type of explosive filling and special fusing to enable the bomb to penetrate to a significant depth into the ground or water before detonating. Depth bombs intended for maritime attack and sub-marine targets would be fitted with one or more fuzes, one of which would be a hydrostatic fuze designed to detonate the bomb at a predetermined depth. The bomb would be fitted with an anti skip ring to reduce the deflection of the bomb as it entered the water. Similar in many ways to Depth Bombs, Depth Charges were exclusively designed to detonate at a predetermined depth. This was achieved by fitting the Charge with a short time delay or hydrostatic fuze. Depth bombs; having a similar configuration to general purpose bombs had the potential to penetrate deeply into the sea bed where an attack occurred in the relatively shallower water of a dock.

Unmanned Rocket Bombs & Missiles. The most famous in this category of weapons were the V1 (Fi103 flying bomb) commonly known as the Doodlebug and the Larger V2 (A4 missile). Both V1 & V2 with high explosive warheads containing 850kg & 1000kg (respectively) represent some of the largest weapons to land in the United Kingdom. Both types were built in a similar manner to an aircraft and would generally disintegrate on impact even if the warhead failed to detonate. The impact would spread debris over a wide area which was difficult to miss and any resulting unexploded ‘V’ weapons were comprehensively dealt with at the time. For this reason they are rarely encountered on land. However, where a ‘V’ weapon landed in water the opportunity for the event to have been missed and/or follow-up action abandoned was greater and they continue to pose a significant risk. Other, less well known rocket bombs were also produced by the Luftwaffe to attack maritime targets. Some were equipped with TV/Radio guidance from the parent bomber. Two of the most common were the Fritz X which consisted of an adapted SD1400kg bomb and the Henschel Hs293 which was based on a smaller 500kg bomb. No record of one having been recovered on land as a UXB can be found but these large HE bombs are considered to pose a significant risk, particularly to maritime projects. No records were found to indicate this type of bomb was ever used on targets in the area.

Photoflash Bomb. This type of bomb was dropped by specialist “Pathfinder” aircraft and although this type of bomb can be included with the category of specialist bombs, it is worthy of

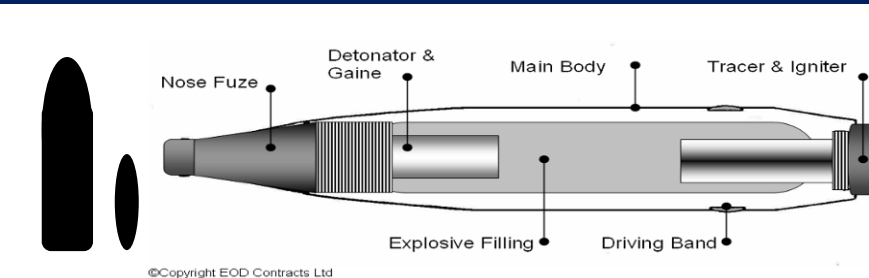
specific comment due to the danger it may still pose. Photoflash bombs were designed to explode with a blinding flash, rather like a camera flashbulb. They were used to enable photographs to be taken of targets at night and also served to identify ground targets for other aircraft to attack. The speed at which the highly energetic filling detonated, and energy it produced in doing so, was significant. Although these bombs were thin skinned and are prone to corrosion the functioning of one can be compared to a high explosive bomb detonation.

High Explosive Shells & Projectiles. As mentioned previously, one of the most common sources of UXO contamination encountered in the United Kingdom is High Explosive Shells and Projectiles. This is most commonly found to be as the result of firing practice ranges, bombardment and anti-aircraft defence, the latter often positioned to defend Major cities and Strategic installations and ports from German Bombing. Anti Aircraft Shells and projectiles are generally smaller (Up to 4.7" inch diameter) than the airdropped bombs and as a consequence were more easily missed amongst the bomb rubble. However, coastal bombardment guns could fire a shell weighing 1000kg, (larger than most common airdropped bombs) and capable of significant ground penetration. The generic layout of a projectile can be found at Figure 6.6. It should be noted that the fatal incident on the German autobahn in 2006 was thought to be the result of a shell or projectile detonating, not an airdropped bomb as first reported.

The Fuzes used in Anti-Aircraft Ammunition were designed to ensure the projectile would detonate in contact with the target, or at a pre-set altitude, or in close proximity to the target. The fuzes employed different means to achieve this, including; direct impact, or indirect impact, Barometric, Delay and Electro-magnetic influence. Some were fitted with more than one fuze, which served to reduce the chance of the projectile falling to earth and detonating. Artillery fuzes are activated during the firing process, using the projectile's acceleration or spin within the gun barrel to switch off the safety mechanisms. For this reason fired projectiles are considered more dangerous than unfired ones.

FIGURE 6: Generic Shell Design

Scale & Graphic Cross Section of a typical High Explosive (HE) Shell



Approximate size of a large shell used by battleships and coastal bombardment guns (Left) and Anti-aircraft shell (Right)

Other Types of Ordnance.

The following additional sources of ordnance types have been considered, and inherent risks taken account of:

Flares and Pyrotechnics. Flares and pyrotechnics were used for a variety of reasons throughout the war and continue to be found today in the most unlikely places. However, due to the thin casings of these weapons a high level of corrosion is likely to have occurred since manufacture. Depending on the specific nature of the weapon, this effectively renders them inert with the exception of any white phosphorous content or explosive gaine.

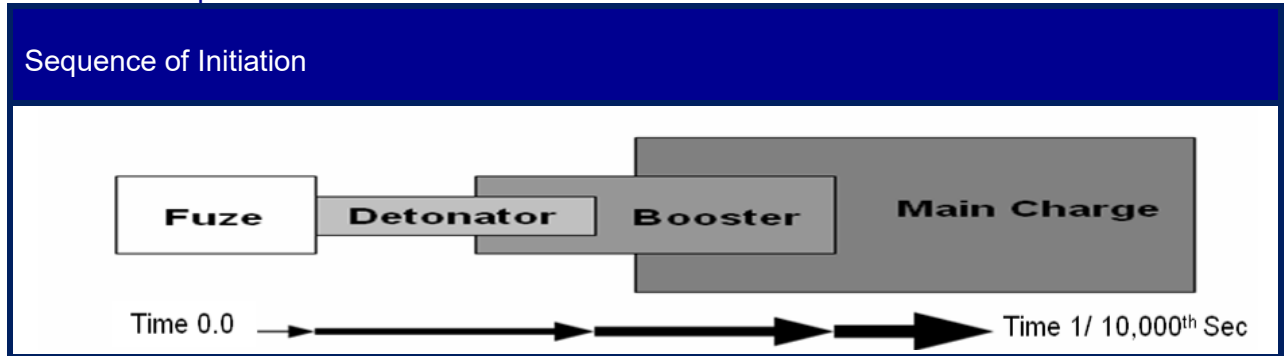
Land Service Ammunition (LSA). While as the name implies this type of ammunition was designed for use on land, it was also issued to naval personnel for close protection of vessels and their crew and to provide a limited offensive capability even to relatively small craft. This type of ammunition includes some shells and projectiles such as those covered previously. Other natures of LSA range from Small Arms Ammunition (SAA), having little or no high explosive content to Grenades, Mortars and Rockets which may pose a risk of detonation due to their explosive content and the design of their fuzes (impact) which; if subjected to sufficient shock or friction may result in the weapon functioning. (See Figure 7)

FIGURE 7: Common Categories of Land Service Ammunition



Initiation of Unexploded Ordnance. Explosive Ordnance is highly unlikely to spontaneously explode. The energetic chemical compounds, (Explosives) used in weapon manufacture are chosen to be as stable as possible and they all require a significant application of additional energy to create the right conditions for detonation to occur. If stored correctly, most explosive materials are designed to remain stable for the duration of their expected lifespan (typically 20 years). During this time, the correct functioning of the weapon is achieved by means of the 'Initiation Train' (See Figure 8).

FIGURE 8: Explosive Ordnance Initiation Train.



Initiation Train. This is a means by which, once the safety features have been switched off or removed, a chain reaction occurs through the weapon. Starting within the fusing system as a small ignition or spark, causing a detonator to explode, which in turn causes the booster charge to detonate with a greater energy and ending in the full detonation of the main explosive filling. Each part of the process has in-built safety features to prevent an unintended detonation. A failure in any of the components within the Initiation Train can result in a UXO. In the case of a UXB; the chain reaction has broken down and the Initiation Train is brought to a halt, albeit, a temporary one. There are a number of ways that sufficient energy could be introduced to the otherwise stable UXB / UXO that may allow the Initiation Train to set off once more, overcoming the initial reason for failure. In addition to subjecting the weapon to excessive heat, such as a fire, the most common methods to bring about an explosive detonation in such items are considered to be:

Direct impact onto the main body of the bomb by mechanical excavation or pile driving: Such an occurrence can cause the bomb to detonate, should the point of impact be on the bomb fuze; less force would be required to bring about a full or partial explosive detonation.

Re-starting the clock timer in the bomb fuze. Only a small percentage of bombs were fitted with clockwork fuzes. It is likely that corrosion has taken place within the fuze that may prevent the clockwork mechanism from functioning. However, the restarting of the clock is by no means a scenario that can be completely ruled out. This is considered to be one of the two most credible mechanisms by which sufficient energy could be introduced to the bomb and result in a detonation.

Induction of a static charge or exposure to an external power source (Electrical Services), causing a current in an electrical fuze. The majority of German bombs employed an electrical component within the fuzes, it is likely that corrosion would have taken place within the fuze mechanism and that it would no longer contain, or conduct sufficient electrical charge to initiate the bomb.

Friction initiating the sensitive fuze explosive. Some chemical constituents may have deteriorated, due to oxidation. Components designed with a high degree of stability at the time of manufacture may no longer be as safe. **This is considered to be the most likely mechanism by which sufficient energy could be introduced to the bomb and result in a detonation.**

Risk Assessment Tables

Table 1: Summary of Potential Contamination Sources

Source	Applicable	Not Applicable
Enemy Attack & Counter Measures		
Bombing WW1		☒
Manned Aircraft Bombing WW2	☒	
Unmanned V1 & V2 Rocket Attack		☒
Shelling		☒
Anti-Shipping Mines & Depth Charges		☒
Anti-Aircraft Shells & Rockets		☒
Beach Mines & Coastal Defences.		☒
Airfield/Key Point Defensive Mines/Charges		☒
Abandoned Unexploded Bomb (A/UXB)		☒
Migration of UXO		
UXO Migration in Rubble & Infill		☒
UXO Migration by Tide & River Current		☒
UXO Migration by Marine Dredging		☒
Ship Wrecks		☒
Dispersal by Explosion, Fire & Accident		☒
Aeroplane Crash		☒
Private Collections		☒
MOD Facilities		
Bombing Range		☒
Artillery, Mortar & Tank Range		☒
Grenade Range		☒
Small Arms Firing Range		☒
Weapon Research & Development Facilities		☒
Ammunition Burial Grounds		☒
Docks & Harbour Facilities		☒
Offshore Ammunition Dumping Grounds		☒
Ammunition Storage & Manufacture Sites		☒
Airfields & Air Stations		☒
Bombing Decoy Site		☒
Army Barracks & Camps		☒
MOD Training / Concentration Areas		☒
Home Guard & SOE Weapon Caches		☒

Table 2: Baseline Bomb Penetration Assessment

Sub Soil Type	Bomb Weights			
	50kg	250kg	500kg	1000kg
Soft Rock	2.442	5.016	6.006	7.062
Gravel	2.442	5.016	6.006	7.062
Sand	2.442	5.016	6.006	7.062
Chalk	3.7	7.6	9.1	10.7

Sub Soil Type	Bomb Weights			
	50kg	250kg	500kg	1000kg
Shingle	3.7	7.6	9.1	10.7
Dry Clay	3.7	7.6	9.1	10.7
Wet Sand	5.55	11.4	13.65	16.05
Wet Clay	5.55	11.4	13.65	16.05
Average Offset (m)	0.8-1.6	1.6-3.7	3-4.5	3.4-5.3

Table 3: Site Specific Bomb Penetration Assessment

Input Figures			
Bomb Weight	Release Height	Velocity on Impact	Angle of Strike
500 kg	5000 m	340 m.s ⁻¹	10° to vertical
Geology	Made Ground – Alluvium – Terraced Gravels - Wet sands		
Output Figures			
Maximum Penetration Depth		Maximum Offset	
16.5 m		5.3 m	
The maximum threat depth from airdropped weapons is considered to be: Bombs 16.5 m The maximum threat depth for smaller shells is considered to be: AA Shells 3.0 m			
Input figures based on the most common bombing methods and largest common bomb type Figures derived from computer simulation. All depths based on 1939 levels.			

Table 4: Airdropped Weapon Strike Indicators (UK)

Item	Increasing Potential level →			
Site Location	Rural	Small Town	Brown Field Large Towns	Cities
Site Description and Use	Greenfield or Agricultural Land	Near Strategic Target	Adjacent to Strategic Target	Strategic Target
Site History	No history of Attack	Near area of Attack	Immediate Area Attacked	Direct Attack
Strategic Target: Military Installation, Industrial or Munitions Manufacturer, Power Station, Gas or Water Works, Port, Dock, Railway Yard, Decoy Site.				

Table 5: Weapon Strike Records (UK)

Source	Availability			
Archive	None	Non specific	Specific	Extensive
In-house	None	Non specific	Specific	Extensive
Anecdotal	None	Non specific	Specific	Confirmed

Table 6: Anti-Aircraft Weapon Strike Indicators (UK)

Item	Increasing Potential level ⇒			
Site Location	Rural	Town	City	Military Site
Fixed Battery Location	None	General Area	Nearby	Onsite
Mobile Battery	Rural	Town	City	Military Site
Military Site: Airfield, Port, Radar, Barracks, Depots, Arsenal or Similar.				

Table 7: Abandoned Bomb Records (UK)

Item	Increasing Potential level ⇒		
In-house	None	Yes	On-site
Other	None	Yes	On-site

Table 8: Bomb Strike Density Assessment

Bombs & Mines	Significant around the area.
---------------	------------------------------

Table 9: Opportunity to have detected Bomb or Shell Strikes (UK)

Increasing Potential level ⇒
Light bomb damage
Good ARP cover
Significant development
No significant ground cover
Light bomb damage
Moderate ARP cover
Moderate development
Frequent public access
Little ground cover
Significant bomb damage
Poor ARP cover
Minimal development limited to shallow excavations
Infrequent public access
Moderate ground cover
Heavy bomb damage
No ARP cover
Development limited to site clearance
Controlled private access
Heavy ground cover, vegetation, ploughing or body of water

Table 10: Post Contamination Development Indicators (UK)

Nature of Post Contamination Development	Increasing Potential level →
	100% excavations of the entire site to below contamination depth.
	Significant development
	Moderate development
	Minimal development
	No development

Table 11: Construction Activities Encounter Indicators

Activities	Increasing Potential level →
	Borehole Drilling
	Dynamic Sampling
	Shallow Trial Pit
	Services Trenching
	Bored (CFA) Piling
	Sheet Piling
	Shallow Excavations over extended area
	Deep Excavations over a limited area
	High Density Piles
	Deep Excavations over extended area
	Bulk Excavations



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