



Proposed Biomass Strategy Storage Facility at Wimbourne Road, Barry Docks

Baseline Ground Conditions Report

A105832

JM Envirofuels Ltd

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Contents

Executive Summary	4
1 Introduction	5
1.1 Instruction	5
1.2 Brief	5
1.3 Report Scope.....	5
1.4 Limitations	6
2 Site Information	7
2.1 Location	7
2.2 Site description.....	7
2.3 Geology	7
2.4 Hydrology	7
2.5 Hydrogeology	7
3 Site History.....	8
3.1 Introduction	8
3.2 Summary of Site History.....	8
4 Environmental Database Search	12
5 Preliminary Site Conceptual Model	15
5.1 Conceptual Site Model.....	15
5.1.1 Sources	15
5.1.2 Pathways.....	16
5.1.3 Potential receptors at risk	16
6 Site Investigation	17
6.1 Scope	17



7	Ground Conditions Encountered	18
7.1	Strata encountered	18
7.1.1	Made Ground	18
7.2	Groundwater	18
7.3	Visual Evidence of Contamination encountered	18
7.4	Obstructions.....	18
8	Laboratory Testing	19
8.1	Environmental Testing	19
9	Tier 1 Screening.....	20
9.1	Soils.....	20
9.2	Leachates.....	21
10	Conclusions and Recommendations	24

Figures

Figure 1 - Site Location Plan

Figure 2 - Site Layout Plan

Appendices

Appendix A – Report Conditions

Appendix B – Envirocheck Report

Appendix C – Exploratory Hole Logs and Photo Plates

Appendix D – Environmental Laboratory Testing Results

Executive Summary

The Site	The site occupies an area of approximately 1.59 hectares of largely open space with concrete hardstanding. The site is located within the defined boundary of Berth 31, Port of Barry, directly adjacent to Dock No. 2. It is proposed to use the site as a biomass storage facility.
Geology, Hydrogeology and Hydrology	<p>Superficial deposits at the site comprise tidal flat deposits overlain by site-wide Made Ground coverage. The solid geology underlying the site is recorded as the Mercia Mudstone Group, of Triassic age. Bedrock beneath the site is classified by the Environment Agency (EA) as a Secondary B aquifer. The site is not located within a source protection zone area.</p> <p>The closest watercourses are the adjacent Dock No. 2, located 30m from the south-western boundary and the Cadoxton river; located 500m to the south-east. The Bristol channel is located 1km to the south.</p>
Site History	Earliest maps (circa 1877) show the site to comprise generally open agricultural pasture land. By 1900 the site is shown to have undergone significant development and industrialisation comprising construction of multiple railways within the site boundary, and docks, factories, residential areas and associate infrastructure surrounding the site. Throughout the early 1900's there are signs of continual industrial use across the site and surrounding area, slowly declining towards the 1950's. By 1960 almost all railway tracks are no longer shown. Following this date, there has been little to no documented development on the site, other than the re-profiling of the relic railway sidings and eventual hardstanding construction observed on site at present.
Ground Investigation	<p>The site investigation work was undertaken by WYG on the 8th December 2017. The scope of the completed ground investigation comprised the following:</p> <ul style="list-style-type: none"> • 7 No. Machine excavated (by JM Envirofuels Ltd) trial pits to a maximum depth of 0.80m BGL); • Collection of disturbed soil samples from exploratory positions for environmental laboratory testing; • 8 no. soil samples were scheduled for chemical testing of potential contaminants; and, • 3 No. leachate tests.
Ground Conditions	Made Ground was encountered across the entire site up to a depth of 0.80m bgl. The base of the Made Ground was not proven. Groundwater was not encountered.
Laboratory Analysis	Soil and leachate samples underwent external laboratory analysis for a range of analytes. Laboratory results were screened against relevant screening guidelines. Screening of leachate samples against water quality standards highlighted a number of exceedances across the samples for determinands including; pH, ammoniacal nitrogen, cyanide, copper, benzene, Total Petroleum Hydrocarbon (TPH) aromatics EC5-EC7, EC10-EC12, >EC16-EC21 and EC21-EC35, fluorene, benzo(a)pyrene, and benzo(ghi)perylene.
Recommendations	<p>The ground investigation and subsequent analysis has provided a set of baseline data. The data indicates that some contamination is currently present in shallow soils beneath the site when compared with established screening values. However, the contamination does not preclude the use of the site as a storage area for biomass, and no remediation is required for this proposed end use.</p> <p>Further ground investigation will be required once the permitted activity ceases at the site to verify that contamination levels have not increased as a result of the usage by JM Envirofuels Ltd.</p>

1 Introduction

1.1 Instruction

WYG Environment Planning Transport Ltd (WYG) was commissioned by JM Envirofuels Ltd to undertake a desk study and intrusive ground investigation at a site on Wimbourne Road, Barry Dock, south Wales.

1.2 Brief

The ground investigation is required to provide information pertaining to baseline ground conditions, prior to developing the site as a Biomass Storage Facility, in order to satisfy the environmental permitting obligations and to inform leasing arrangements with the landowner (Associated British Ports).

The scope of the ground investigation, as requested by JM Envirofuels Ltd comprised the following elements:

- 7 No. trial pits (excavated by JM Envirofuels Ltd) to a maximum depth of 0.80m BGL;
- Logging of all soil arisings by a WYG Geo-Environmental Consultant;
- 8 no. disturbed soil samples taken and sent to an accredited laboratory for analysis for a general suite of potential contaminants including pH, cyanide, heavy metals/metalloids, speciated Polyaromatic Hydrocarbons (PAHS), Phenol, Total Petroleum Hydrocarbons (TPH), and an asbestos screen.
- 3 No. Leachate tests will be undertaken on 3 no soil samples to assess the potential mobility of contaminants.
- Factual reporting of findings with screening of data against established soil screening values.

1.3 Report Scope

This report summarises the work undertaken and includes the following key elements;

- Desk Top Study including a summary of historical mapping, general expected ground and groundwater conditions, and details of an Environmental Database Search of key relevant agencies;
- Full factual records of the site works carried out;
- Details of ground conditions encountered;
- *In situ* testing results; and



- Tier 1 screening of the chemical testing results against commonly accepted generic soil screening criteria values.

1.4 Limitations

This report has been prepared in accordance with the requirements of JM Envirofuels Ltd. It is subject to the report conditions contained in Appendix A **Error! Reference source not found..**

The information contained in this report is intended for the use of JM Envirofuels Ltd. WYG can take no responsibility for the use of this information by any third party or for uses other than that described in this report.

2 Site Information

2.1 Location

The application site (known hereafter as 'the site') is located at Berth 31, Wimbourne Road, Barry Dock, South Wales. The site is rectangular and approximately 1.59 hectare in size. The site is currently unoccupied. The site lies within the defined boundary of Berth 31, Port of Barry.

A site location plan is presented as Figure 1.

2.2 Site description

The site is level land predominantly covered by concrete hardstanding adjacent to Berth 31 of Dock No. 2 within the securely fenced Associated British Ports (ABP) docks complex. The site is orientated north east to south west with Dock No. 2 running parallel to the south-eastern margin. The south-eastern boundary is defined by David Davies Road and railway lines. The north western and south-western boundaries are formed by an elongated raised mound. The north-eastern boundary is undefined with a scrapyard immediately adjacent extending to the north. Vacant land is present to the north west and south west.

A site layout plan is included as Figure 2. The site boundary is detailed by the green line.

2.3 Geology

The anticipated geology at the site has been inferred from a review of England & Wales Geological Map Sheet 263: Cardiff (Solid Edition) and the online GeoIndex, published by the BGS. This indicates that the underlying geology comprises Mercia Mudstone Marginal Group of Triassic age. Superficial deposits of recent age are present in the form of tidal flat deposits and modern Made Ground is shown to overlie the site.

2.4 Hydrology

No. 2 Dock is located 30m from the south-western boundary. The Cadoxton River is located 550m to the south-east, running southwest towards the Bristol Channel. Freshwater ponds are present 300m north-east and 300m west. The Bristol Channel is located 1000m to the south.

2.5 Hydrogeology

The bedrock beneath the site is designated as a Secondary B aquifer. This denotes a predominantly lower permeability strata which may in part have the ability to store and yield limited amounts of groundwater by virtue of localised features such as fissures, thin permeable horizons and weathering. The site is not situated in an area designated as a source protection zone.

3 Site History

3.1 Introduction

The historical development of the site and surrounding area has been assessed using information available from historical aerial photographs and historical Ordnance Survey (OS) maps within the Envirocheck report for the site, which is presented in Appendix B of this report. In the context of historical development of the surrounding area, the descriptions are limited to significant features identified within approximately 500m of the site boundary unless otherwise specified in the following section.

3.2 Summary of Site History

Earliest maps from 1878 and 1885 show the centre of the site and much of the surrounding area to comprise generally open agricultural pasture land, with only minimal anthropogenic development. A meander of the Cadoxton River is shown to flow through the northern portion of the site at this time whilst the south of the site is occupied by an 'Old Brick Works'.

By 1900 the site and surrounding area has been subject to extensive development including the construction of multiple railway sidings across the site and development of the adjacent No. 2 Dock indicated to be for purposes of loading coal. The Cadoxton River is no longer shown to pass through the north of the site and is presumed to have been culverted or in-filled. To the north and west of the site there has been extensive development of the new town of Barry, with No. 1 Dock and further industrial development indicated approximately 800m to the southwest of the site.

During the mid-1950's, signs of reduction in industrial activity is apparent with the decommissioning of several railways within the site and surrounding area. However, development of factory buildings/warehouses continues in the local area. By 1960 most railways within the site boundary are no longer shown. Following this there has been little to no development within the site, other than re-profiling of the relic railway embankments and creation of the concrete hardstanding present today. A detailed review of the available historical mapping is presented in the table below.

Table 1 – Site Historical Map Review

Map Dates & Scales	Within Site Boundary	Surrounding Area (< 500m from site, unless specified)
1878 Glamorganshire Map Series (1:2500)	The south of the site is shown to contain an old brick works. The far southern tip of the site extends into an area marked as the high-water mark of ordinary tides, with accompanying mooring posts. The north of the site is crossed by a NW-SW trending river channel (Cadoxton River).	110m north of the site a weir with sluice crosses the river adjacent to a corn mill. A further 100m upstream from this the river bank is marked with shooting stations. The remainder of the surrounding land generally comprises agricultural grazing fields (for sheep).
1885 Glamorganshire Map Series (1:10,560)	The old brick works are no longer labelled, though the buildings remain.	There are no significant changes from the previous map edition.
1900 Glamorganshire Map Series (1:2500) & 1901 Glamorganshire Map Series (10,560)	The site is shown to comprise a series of parallel bunded railway tracks, perpendicular to the newly constructed dock adjacent to the site boundary. The buildings associated with the old brick works no longer remain.	50m NW of the site is the NE – SW trending Barry Railway, a multi-line system generally following the coast / docks. 100m NW of the site is the newly constructed town of Barry, a large residential settlement containing multiple Hotels, Schools and a Church. 15m SE of the site, Dock No. 2 has been constructed, a large dock with a timber pond connected to the northern tip. Coal tips are marked along the north-western bank of the dock. Dock No. 2 is connected to Dock No. 1 to the south. 500m SE from the site is a hydraulic engine house. A few small railway tracks exist adjacent to the southern boundary of the dock.
1920 Glamorganshire Map Series (1:2500) & 1921 - 1922 Glamorganshire Map Series (1:10,560)	There are no significant changes from the previous map edition.	The Barry Railway to the NW of the site has increased in size, with the addition of seven new lines. Additional trackways have been constructed adjacent to the southern boundary of the dock. A transit shed has been constructed 500m south of the site. A fresh water reservoir is located 300m east of the site.
1943 Glamorganshire Map Series (1:2500) &	One of the railway lines crossing the site is no longer shown.	Barry Railway has been renamed to G.W.R., presumed to refer to the Great Western Railway. A wagon works has been constructed 100m south-west of the site

Map Dates & Scales	Within Site Boundary	Surrounding Area (< 500m from site, unless specified)
1938 – 1947 Glamorganshire Map Series (1:10,560)		boundary. Additional Transit Sheds have been constructed ~200m to the south-east. Magnesite Works are located 900m north-east of the site. The works comprise a pipe line leading to multiple circular features inferred to be tanks.
1955 – 1956 Ordnance Survey Plan (1:1250)	The railways within the site are no longer shown, with the exception of one ~10m long protrusion into the northern corner of the site. The railway embankments remain.	The extent of the wagon works has been increased. Travelling cranes are marked along the banks of the Dock. A cold storage depot is marked 200m east of the site. The large transit shed 200m south-east of the site is now shown to comprise an Enamel Products Factory.
1963 – 1973 Ordnance Survey Plan (1:1250) & 1965 Ordnance Survey Plan (1:10,000)	No railways are shown within the site boundary, although embankments remain.	Multiple small buildings to the south-east of the site are no longer shown. A transit shed 250m south of the site is now a mill. The timber pond is reduced in size.
1975 Ordnance Survey Plan (1:10,000)	There are no significant changes from the previous map edition.	Many additional warehouses and factories have been constructed in a trading estate from 300-1000m south of the site. Tanks are marked 800m north-east of the site.
1984 Ordnance Survey Plan (1:10,000)	There are no significant changes from the previous map edition.	The extent of the works 800m north-east of the site has been increased, comprising the construction of numerous additional tanks and buildings. The majority of the railway lines 150m north of the site are no longer shown, only four lines remain.
1986 – 1990 Additional SIMs (1:1250)	The site generally comprises open, flat space, with a small embankment constructed along the north-western site boundary.	David Davies road has been constructed. Two tanks are marked 175m south-west of the site boundary. More railways to the north of the site have been dismantled.
1991 Ordnance Survey Plan (1:10,000)	There are no significant changes from the previous map edition.	The size of the reservoir 300m north of the site is reduced. Embankments that remained as relics of the removed railway tracks have been levelled.
1993 Large-Scale National Grid Data (1:1250)	There are no significant changes from the previous map edition.	The extent of the depot and tanks 150m south-west of the site has been increased. The dismantled railway bordering the (removed) timber pond is shown again,

Map Dates & Scales	Within Site Boundary	Surrounding Area (< 500m from site, unless specified)
		however is thought to be dis-used. The railway runs adjacent to the dock and site boundary.
1999 10k Raster Mapping (1:10,000)	The position of the embankment is marked further south-east within the site.	Three additional buildings have been constructed at the depot 75m south-west of the site. A road has been constructed following the route of the old railways 100m north-west of the site. Only the mainline railway remains.
2018 Street View (1:10,000)	Detail of small scale features in this mapping format is poor. The site is shown to comprise open empty space.	The change in mapping format makes a comparison to the previous map edition difficult. It appears as though there have been no significant changes from the previous map edition.

4 Environmental Database Search

A search of an environmental database obtained for the site has been undertaken and is summarised in the following sections. The full database is provided within the Envirocheck report, included in Appendix B of this report. The following summary is generally limited to locations within 500m of the site boundaries unless it is considered that installations or activities beyond this range could potentially have an impact on the site, or be affected by the redevelopment of the site.

Table 2 – Summary of Environmental Database Search

Database Entry	Summary
Discharge Consents	There are 17 discharge consents within 250m of the site, and 10 between 251 to 500m of the site. The majority of these consents are operated by Welsh Water or Associated British Ports. Of these 27 consents, 19 have been revoked or expired.
Integrated Pollution Prevention and Controls	There is 1 Integrated Pollution Prevention and Control (IPPC) record within 250m of the site and 3 between 251 to 500m from the site. The details of these are as follows: <ul style="list-style-type: none"> • 237m South - Premier Food Group (Barry Flour Mill) for Animal, Vegetable and Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day. • 266m South – Rank Hovis Ltd. (Barry Flour Mill) for Animal, Vegetable and Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day. • 341m South East – Alembic Manufacturing Ltd. (Barry Aluminium Chlorohydrate Plant) for Inorganic Chemicals; Gases Eg. Ammonia. • 341m South East - Alembic Manufacturing Ltd. (Barry Aluminium Chlorohydrate Plant) for Inorganic Chemicals; Gases Eg. Ammonia.
Local Authority Pollution Prevention and Control	There are 2 no. Local Authority Pollution Prevention and Control (LAPPC) records within 250m of the site, and 2 no. between 251 to 500m of the site. <ul style="list-style-type: none"> • 49m East – local authority air pollution related to coal, coke and coal product processes. • 49m East – local authority pollution prevention and control related to the blending, packing, loading and use of bulk cement. • 410m South – local authority air pollution control related to the blending, packing, loading and use of bulk cement. • 441m S – Local authority air pollution control related to the blending, packing, loading and use of bulk cement.

Prosecutions or pollution incidents relating to Controlled Waters	<p>There are 3 no. recorded incidents within 1000m of the site.</p> <ul style="list-style-type: none"> • 678m SE – Disposal of controlled waste on land without a waste management licence. • 953m E – Release of between 5.7 and 8.5 tonnes of VCM (vinyl chloride monomer) into the atmosphere from its sully plant. • 989m SE – Knowingly permitting controlled waste to be deposited at Hayes Lane.
Substantiated Pollution Incident Register	<p>There are no entries within 250m of the site, however there are 2 no. entries between 251 to 500m from the site, as outlined below;</p> <ul style="list-style-type: none"> • 277m East – Category 2 impact to land and water, Category 3 impact to air associated to Oils and Fuel: Mixed/Waste Oils. • 292m East – Category 2 impact to water and land, Category 3 impact to air associated Oils and Fuel: Mixed/Waste Oils.
Water Abstractions	<p>There are no groundwater abstractions recorded within 250m of the site.</p> <p>There are 15 Water Abstractions within 1000m of the site. All of which are located between 754m - 796m to the south.</p>
Landfill, Waste Management and Treatment Sites	<p>There are 3 no. Historical Landfill Sites within 500m of the site, the details of which are as follows;</p> <ul style="list-style-type: none"> • 182m North-East – Deposited waste included inert, industrial, household, special waste and liquid sludge. Last input date not specified. • 391m South-East - Deposited waste included inert, industrial, household, and special waste. Last input date July 1981. • 391m South-East - Deposited waste included inert, industrial, household, and special waste. Last input date July 1996. <p>There are 2 no Local Authority Recorded Landfill Sites within 500m of the site boundary, as detailed below;</p> <ul style="list-style-type: none"> • 381m South-East – Building Hardcore, Domestic • 381m South-East – Building Hardcore, Domestic <p>There are 2. no. registered landfill site within 500m of the site boundary as detailed below;</p> <ul style="list-style-type: none"> • 373m North-East – Landfill authorised to accept calcium sulphate filter cake, Carbon filters, Kieselguhr, Limestone, Silicon Gel and Spent Silicon. The source of the waste is from the licence holder; Dow Corning Factory. • 476m South-East – Landfill authorised to accept Glass, Office Rubbish, Packaging materials, Rubble, Hardcore, Concrete, Soil and Timber waste. There Is no known restriction on the source of waste

	<p>There are 4 no. Licenced Waste Management Facilities within 500m of the site, detailed below;</p> <ul style="list-style-type: none"> • 282m North-East – Industrial waste landfill • 99m North-East – Metal Recycling Sites (Mixed) • 115m North-East – Use of waste in construction <50,000 tps • 389m South-East – End of life vehicles
BGS Recorded Mineral Sites	<p>There are no BGS recorded mineral sites within 500m, however; there are 8 BGS Recorded Mineral Sites within 1000m of the site all of which are considered to have ceased excavation. Commodities include Secondary Aggregates, Sandstone, Marine Sand and Gravel, and Limestone.</p>
Potentially in filled land	<p>The site is not recorded as potentially in filled land.</p>
Potential for Ground Stability Hazards	<p>The site is listed as very low to no hazard potential for all BGS ground stability assessments (Collapsible Ground, Compressible Ground, Ground Dissolution, Landslide Stability, Running Sand and Shrinking or Swelling Clay).</p>
Contemporary Trade Directory Entries	<p>There are 6 Contemporary Trade Directory Entries recorded within 250m of the site, only one of which is listed as active; Terry Auto Repairs (227m South West) for Garage Services.</p>
Fuel Station Entries	<p>There are no fuel station entries recorded with in 500m of the site.</p>

5 Preliminary Site Conceptual Model

5.1 Conceptual Site Model

The preliminary conceptual model for the site is presented and is based on the information in the preceding sections. The site is currently unused and undeveloped, comprising an open, level area of concrete hardstanding within a secure metal fenced complex.

It is understood that as part of the development of the site, proposed construction will comprise the creation of a Biomass Storage Facility within the site boundary.

The key source, pathway, receptor model is outlined below within the context of the proposed development.

5.1.1 Sources

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

On-Site Sources

- Made Ground associated with historic industrial use of the site including an old brick works, infilling of a river channel and railway sidings related to the extensive coal industry in the regional area.
- Site wide land profiling and flattening following the decommissioning of several railway lines on the site.
- Potential for asbestos containing materials in Made Ground associated with coal industry infrastructure and railways.
- Land-gas generated from on-site Made Ground.

Off-Site Sources

- Mobile contamination from adjacent land uses associated with current and historical industrial activity including multiple railway lines and above ground storage tanks.
- Leaching of potentially mobile contaminants from historical tipping into the adjacent dock.

- Mobile potential contamination from the nearby historic and current landfill/waste/pollution incident register.

5.1.2 Pathways

The primary pathways by which sensitive receptors may come into contact with ground contamination are considered to be the following:

- Direct dermal contact of ingestion of soils, inhalation of gases/dust (i.e. human interaction with surface and sub-surface material)
- Leaching and horizontal or vertical migration of contaminants through unsaturated ground, either through permeable sub-surface materials and/or preferential pathways.
- Lateral and vertical migration of groundwater through permeable sub-surface materials and preferential pathways.
- Migration of potential contaminants into surface waters influenced by tidal fluctuations.
- Migration and accumulation of gases or vapour through permeable sub-surface materials and/or preferential pathways.
- Lateral and vertical migration through surface runoff.

5.1.3 Potential receptors at risk

The following are considered to be sensitive receptors:

- Future site users;
- Construction workers during development;
- Underlying Secondary B Aquifer in bedrock deposits;
- Nearby surface waters;
- Adjacent land users;
- Future development infrastructure.

6 Site Investigation

The site investigation was undertaken on the 8th December 2017. Details of the fieldwork methods are given in the notes section at the end of this report.

6.1 Scope

The scope of the site investigation included the following:

- 7 No. Machine excavated (by JM Envirofuels Ltd) trial pits to a maximum depth of 0.80m BGL);
- Logging and collection of disturbed soil samples from exploratory positions by a WYG Geo-Environmental Consultant;
- 8 no. soil samples were scheduled for chemical testing of potential contaminants; see Section 5 for details of the analysis undertaken; and,
- 3 No. Leachate tests were undertaken. See Section 8 for details of the analysis undertaken.

7 Ground Conditions Encountered

7.1 Strata encountered

Made Ground was encountered across all the trial pit locations – the base of the Made Ground was not proven and found to be present to a depth of at least 0.80m BGL. Descriptions of the Made Ground are provided in the subsequent sections. Exploratory hole logs including photographic plates can also be seen in Appendix C.

7.1.1 Made Ground

Made Ground was variable across the trial pit locations. Detailed descriptions can be found in the trial pit logs in Appendix C. Generally, the Made Ground was recovered as Dark grey brown very clayey silty sandy fine to coarse sub angular to angular GRAVEL of mixed lithology with rare concrete, brick and plastic fragments.

7.2 Groundwater

Groundwater was not encountered during the ground investigation.

7.3 Visual Evidence of Contamination encountered

No visual or olfactory evidence of contamination was encountered during the ground investigation.

7.4 Obstructions

Apart from the concrete hardstanding covering the majority of the site, obstructions were not encountered during the ground investigation.

8 Laboratory Testing

8.1 Environmental Testing

The environmental chemistry was investigated by specialist chemical analysis of selected soil and leachate samples carried out by ALS Environmental Ltd, which is an approved supplier in accordance with the requirements of WYGs quality system and is UKAS and MCERTS accredited for a range of chemical analyses. The testing was scheduled by WYG and is summarised in Tables 3 and 4. The test results for the samples are included in Appendix D.

Table 3 - Summary of environmental testing (Soil)

Test suite	No.
Fraction Organic Carbon	8
Phenols	8
Inorganic Suite (water soluble sulphate (as SO ₄), pH and Easily Liberatable Cyanide)	8
Metals Suite (arsenic, beryllium, cadmium, chromium (total, trivalent and hexavalent), copper, lead, mercury, nickel, selenium, vanadium and zinc)	8
Asbestos Screen	8
TPH Criteria Working Group (speciated aliphatic and aromatic compounds, BTEX and MTBE)	8
PAH (naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benz(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenzo(a,h)anthracene and benzo(g,h,i)perylene)	8

Table 4 - Summary of environmental testing (Leachate)

Test suite	No.
Organic Carbon	3
Inorganics (Nitrite as NO ₂ , pH, Sulphate, Chloride, Ammoniacal Nitrogen as NH ₃ , Total Cyanide, Ammoniacal Nitrogen as NH ₄ , Nitrate as NO ₃ , Total Alkalinity as CaCO ₃)	3
Metals and Metalloids (Mercury, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Selenium, Zinc)	3
Phenol	3
TPH-CWG Banded Hydrocarbons (Aliphatics >EC5-EC6, >EC6-EC8, >EC8-EC10, >EC10-EC12, >EC12-EC16, >EC16-EC21, >EC21-EC35, and Aromatics >EC5-EC7, >EC7-EC8, >EC8-EC10, >EC10-EC12, >EC12-EC16, >EC16-EC21, >EC21-EC35)	3
BTEX and MTBE (Benzene, Toluene, Ethylbenzene, Xylene and Methyl Tert Butyl Ether)	3
Speciated PAHs (Naphthalene, Acenaphthene, Acenaphthylene, Fluoranthene, Anthracene, Phenanthrene, Fluorene, Chrysene, Pyrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3-c,d)pyrene)	3

9 Tier 1 Screening

9.1 Soils

Screening of the chemical testing results against commonly accepted generic soil screening criteria values for a commercial/industrial land use scenario (soil organic matter 1%) has been undertaken. This is the most appropriate land-use scenario based on the proposed end use of the site for the Proposed Biomass Storage Facility. Table 5 summarises the chemical data and specifies a pass/fail for each determinand with respect to the screening criteria.

Table 5 – Tier 1 Soil Screening Table

Determinand	Units	Screening Value	Max	Pass/Fail
Asbestos Screen	N/A	presence	None Detected	Pass
Chromium, Hexavalent	mg/kg	49	<0.6	Pass
Boron	mg/kg	240,000	3.77	Pass
Arsenic	mg/kg	640	13.6	Pass
Beryllium	mg/kg	12	1.27	Pass
Cadmium	mg/kg	410	1.94	Pass
Chromium	mg/kg	8,600	800	Pass
Copper	mg/kg	68,000	224	Pass
Lead	mg/kg	2,300	138	Pass
Mercury	mg/kg	1,100	0.536	Pass
Nickel	mg/kg	980	80.5	Pass
Selenium	mg/kg	12,000	4.62	Pass
Vanadium	mg/kg	9,000	114	Pass
Zinc	mg/kg	730,000	1510	Pass
Phenol	mg/kg	440	<0.01	Pass
Methyl tertiary butyl ether (MTBE)	mg/kg	7900	<0.005	Pass
Benzene	mg/kg	27	<0.01	Pass
Toluene	mg/kg	56,000	0.036	Pass
Ethylbenzene	mg/kg	5,700	<0.003	Pass
m,p,o-Xylene	mg/kg	5,900	<0.006 (m,p), 0.0112 (o)	Pass
Aliphatics >C5-C6	mg/kg	3,200	<0.01	Pass
Aliphatics >C6-C8	mg/kg	7,800	0.013	Pass
Aliphatics >C8-C10	mg/kg	2,000	0.0413	Pass
Aliphatics >C10-C12	mg/kg	9,700	0.0283	Pass
Aliphatics >C12-C16	mg/kg	59,000	3.75	Pass

Determinand	Units	Screening Value	Max	Pass/Fail
Aliphatics >C16-C35	mg/kg	1,000,000	13.7 (C16-21), 138 (C16-35)	Pass
Aliphatics >C35-C44	mg/kg	1,000,000	228	Pass
Aromatics >EC7-EC8	mg/kg	56,000	<0.01	Pass
Aromatics >EC8-EC10	mg/kg	3,500	0.0354	Pass
Aromatics >EC10-EC12	mg/kg	16,000	0.0189	Pass
Aromatics >EC12-EC16	mg/kg	36,000	9.41	Pass
Aromatics >EC16-EC21	mg/kg	28,000	87.1	Pass
Aromatics >EC21-EC35	mg/kg	28,000	480	Pass
Aromatics >EC35-EC44	mg/kg	28,000	476	Pass
Naphthalene	mg/kg	190	0.413	Pass
Acenaphthylene	mg/kg	83,000	0.381	Pass
Acenaphthene	mg/kg	84,000	0.234	Pass
Fluorene	mg/kg	63,000	0.369	Pass
Phenanthrene	mg/kg	22,000	2.97	Pass
Anthracene	mg/kg	520,000	1.01	Pass
Fluoranthene	mg/kg	23,000	8.52	Pass
Pyrene	mg/kg	54,000	8.63	Pass
Benz(a)anthracene	mg/kg	170	7.35	Pass
Chrysene	mg/kg	350	6.89	Pass
Benzo(b)fluoranthene	mg/kg	44	9.52	Pass
Benzo(k)fluoranthene	mg/kg	1,200	3.68	Pass
Benzo(a)pyrene	mg/kg	35	6.67	Pass
Indeno(1,2,3-cd)pyrene	mg/kg	500	3.87	Pass
Dibenzo(a,h)anthracene	mg/kg	3.5	1.68	Pass
Benzo(g,h,i)perylene	mg/kg	3,900	3.97	Pass
Cyanide, Easily liberatable (low level)	mg/kg	40	<0.5	Pass

The Tier 1 Screening exercise has indicated no exceedances of the commercial land use screening values.

9.2 Leachates

Screening of the leachate chemical testing results against commonly accepted water screening criteria values (Environmental Quality Standards and Drinking Water Standards) has been undertaken. Table 6 summarises the chemical data and specifies a pass/fail for each determinand with respect to the screening criteria.

Table 6 – Tier 1 Leachate Screening Table

Determinand	Units	Screening Value	Max	Pass/Fail
Electrical Conductivity @ 20 deg C	µS/cm	1,000	373	Pass
Nitrite as NO ₂	µg/l	500	<5	Pass
pH	pH Units	6.0 to 9.0	11.32	Fail
Sulphate	µg/l	250,000	31,100	Pass
Chloride	µg/l	250,000	2,500	Pass
Ammoniacal Nitrogen as NH ₃	µg/l	300	2,710	Fail
Ammoniacal Nitrogen as NH ₄	µg/l	300	<300	Pass
Cyanide, Total	µg/l	1	<50	Fail
Nitrate as NO ₃	µg/l	50,000	3,000	Pass
Mercury	µg/l	0.07	<0.01	Pass
Antimony	µg/l	5	3.1	Pass
Arsenic	µg/l	10	6.03	Pass
Barium	µg/l	700	24.8	Pass
Boron	µg/l	1000	194	Pass
Cadmium	µg/l	0.08	<0.08	Pass
Chromium	µg/l	50	2.95	Pass
Copper	µg/l	1	22.8	Fail
Lead	µg/l	1.2	0.5665	Pass
Molybdenum	µg/l	70	12.1	Pass
Nickel	µg/l	4	0.562	Pass
Selenium	µg/l	10	1.11	Pass
Zinc	µg/l	10.9	2.01	Pass
Phenol	µg/l	7.7	<2	Pass
Methyl tertiary butyl ether (MTBE)	µg/l	15	3	Pass
Benzene	µg/l	1	<7	Fail
Toluene	µg/l	74	4	Pass
Ethylbenzene	µg/l	20	5	Pass
Sum of detected Xylenes	µg/l	30	11	Pass
Aliphatics >C5-C6	µg/l	10	<10	Pass
Aliphatics >C6-C8	µg/l	10	<10	Pass
Aliphatics >C8-C10	µg/l	10	<10	Pass
Aliphatics >C10-C12	µg/l	10	<10	Pass
Aliphatics >C12-C16	µg/l	10	<10	Pass
Aliphatics >C16-C21	µg/l	10	<10	Pass
Aliphatics >C21-C35	µg/l	10	<10	Pass
Aromatics >EC5-EC7	µg/l	1	<10	Fail
Aromatics >EC7-EC8	µg/l	10	<10	Pass
Aromatics >EC8-EC10	µg/l	10	<10	Pass

Determinand	Units	Screening Value	Max	Pass/Fail
Aromatics >EC10-EC12	µg/l	2	<10	Fail
Aromatics >EC12-EC16	µg/l	10	<10	Pass
Aromatics >EC16-EC21	µg/l	0.00017	<10	Fail
Aromatics >EC21-EC35	µg/l	0.0082	<10	Fail
Naphthalene	µg/l	2	0.0243	Pass
Anthracene	µg/l	0.1	<0.005	Pass
Fluorene	µg/l	0.0063	0.0212	Fail
Benzo(b)fluoranthene	µg/l	0.017	0.00005	Pass
Benzo(k)fluoranthene	µg/l	0.017	0.00005	Pass
Benzo(a)pyrene	µg/l	0.00017	0.083	Fail
Benzo(g,h,i)perylene	µg/l	0.0082	0.0302	Fail
PAH (Sum of BbF, BkF, BghiP and I123cdP)	µg/l	0.1	0.04072	Pass

The Tier 1 Screening exercise has indicated a number of exceedances of the screening values used, for pH, Ammoniacal Nitrogen as NH₃, Total Cyanide, Copper, Benzene, Aromatics >EC5-EC7, >EC10-EC12, >EC16-EC21 and >EC21-EC35, Fluorene, Benzo(a)pyrene, and Benzo(g,h,i)perylene. However, for several substances (namely cyanide and various TPH fractions) it should be noted that the failures are as a result of the limit of detection of the test being lower than the screening value used.

10 Conclusions and Recommendations

From the data obtained, a number of conclusions can be drawn. The majority of substances analysed for are below the relevant generic assessment criteria. This indicates that the site is currently suitable for the proposed commercial use with regards to human health, although if the use of the land was to change then further work and risk assessment may be required.

There are some exceedances of screening guidelines for the leachate samples; these are pH, ammoniacal nitrogen as NH_3 , cyanide, copper, benzene, TPH aromatics EC5-EC7, EC10-EC12, EC16-EC21 and EC21-EC35, fluorene, benzo(a)pyrene, and benzo(g,h,i)perylene. The leachate test that is undertaken is a stringent one which does not accurately represent natural leaching processes; a stronger acid is used in the preparation of the test than the weak acid which occurs in nature as rainfall, and would therefore leach more of the substances from the soil than would otherwise be the case. Furthermore, the screening values used largely relate to conservative drinking water standards and so are also particularly stringent. Taking account of these two factors results it is concluded that the soils on site are unlikely pose a risk of significant harm to controlled waters or other off site receptors.

The ground investigation and subsequent chemical analysis has provided a baseline data set against which future investigations can be compared. The data indicates that some contamination is present and that this would need to be reassessed to confirm that the proposed on-site use had not increased the presence of identified contaminants. However, the contamination does not preclude the use of the site as a storage area for biomass, and no remediation is required for the proposed site use.

Further ground investigation will be required once the permitted activity ceases at the site to verify that contamination concentrations have not increased as a result of the usage of the site by JM Envirofuels Ltd.

Notes

1. Standards

All boring operations, sampling of soils, *in situ* testing and geotechnical laboratory testing have been carried out in accordance with the recommendations of the British Standards BS 5930 (2015)⁽¹⁾, BS 1377 (1990)⁽²⁾ and BS10175 (2001)⁽³⁾.

Soil and rock descriptions follow the recommendations of BS 593. Where descriptions or classifications are based on other documents (e.g. BS 8004 (1986) or CIRIA Project Report 11 (1993)), this is stated in the report text.

2. Site methods

Unless specifically stated otherwise, the following methods are used for exploratory holes.

- Holes described as cable percussive are bored using a light cable percussive rig. Standard penetration tests are carried out where appropriate, as shown in the logs. Disturbed and undisturbed samples are taken from the exploratory holes at the depths on the records.
- Window sampling generally uses the windowless sampling method, using a tracked Geotool.
- Dynamic probes are usually heavy dynamic probes, using the same tracked Geotool used for window sampling.

3. Definitions and abbreviations

The following terms are used in the exploratory hole logs

Samples

U	Undisturbed 102mm dia. sample
TW	Thin Walled undisturbed 102mm dia. sample
B	Bulk sample
D	Small disturbed sample
W	Water sample
CBR	California Bearing Ratio test or CBR value obtained from Mexiprobe test

In situ tests

S	Standard penetration test (SPT)
N	SPT N value (blows/300mm)
HP	Hand penetrometer – shear strength
SV	Hand shear vane – shear strength
VOC	Volatile organic compounds (ppm)
PID	Photo-ionisation detector – used to detect the presence of VOCs.

Core recovery and rock quality

TCR	Total core recovery (%)
SCR	Solid core recovery (%)
RQD	Rock quality designation (%)
FI	Fracture index
NR	No recovery
NI	Not intact

Rotary drilling sizes

Index letter	Nominal diameter (mm)	
	Borehole	Core
N	75	54
H	99	76
P	120	92
S	146	113

Water strikes

▽	Level of water strike
▼	Water level rose to this level (see Remarks at foot of log for details)

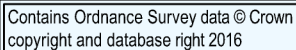
Depth means depth below existing ground level unless otherwise specified. Values specified in soil descriptions given in the exploratory hole logs are depths unless otherwise specified.



Figures



Figure 1 - Site Location Plan



REV	DESCRIPTION				BY	CHK	APP	DATE
ION PLAN	Scale @ A4 NTS		Drawn PP	Date 15.01.18	Checked NP	Date 15.01.18	Approved SJ	Date 15.01.18
	Project No. A105832		Office CDF	Type N	Drawing No. 1		Revision 00	

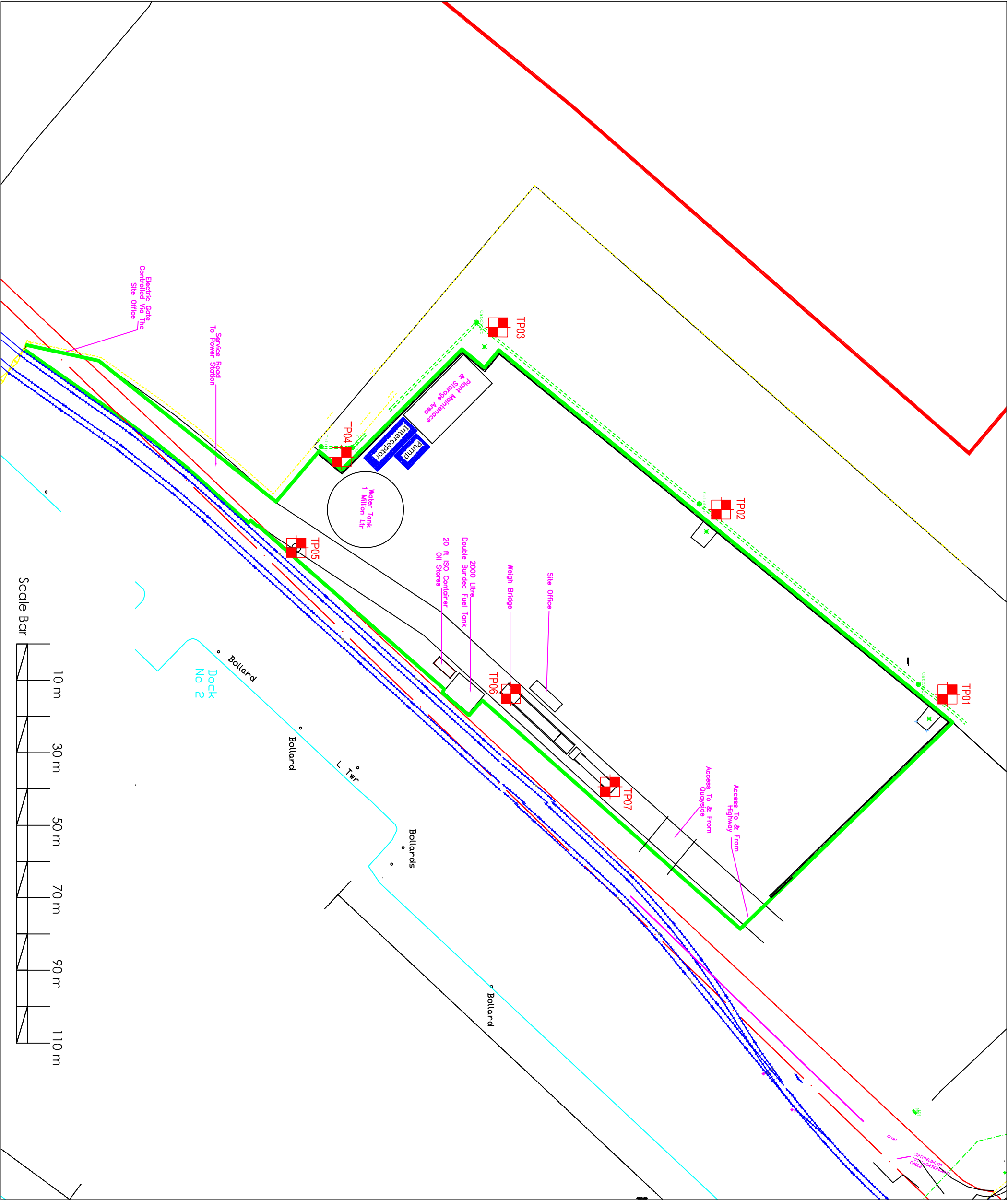


Figure 2 - Site Layout Plan

LEGEND:



Note:
Plan based on JM Envirofuels Barry Proposed
Layout Plan - Infrastructure and Stores. Dwg No
BAR001 - Test Pits Rev A (20.10.17).



REV	DESCRIPTION	BY	CHK	APP	DATE
-----	-------------	----	-----	-----	------

Client:
JM ENVIROFUELS LTD

5th FLOOR
LONGCROSS COURT
47 NEWPORT ROAD
CARDIFF
CF24 0AD
TEL: +44 (0)29 2082 9200
FAX: +44 (0)29 2045 5321
e-mail: cardiff@wyg.com



Project:
BARRY DOCKS

Drawing Title:

SITE INVESTIGATION LAYOUT PLAN

Scale @	Drawn	Date	Checked	Date	Approved	Date
NTS	PP	16.01.18	NP	16.01.18	SJ	16.01.18
Project No.	Office	Type	Drawing No.	Revision		
A105832	CDF	N	2	00		



Appendices



Appendix A – Report Conditions



APPENDIX A - REPORT CONDITIONS

Desk Study Report

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

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

This report is based on a visual site inspection, reference to accessible referenced historical records, information supplied by those parties referenced in the text and preliminary discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented as the best that can be obtained without further extensive research. Where ground contamination is suspected but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample. The possibility of the presence of contaminants, perhaps in higher concentrations, elsewhere on the site cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categorical assurances that they will be accepted by Authorities or Funds etc. without question as such bodies often have unpublished, more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to WYG. In time, improved practices or amended legislation may necessitate a re-assessment.

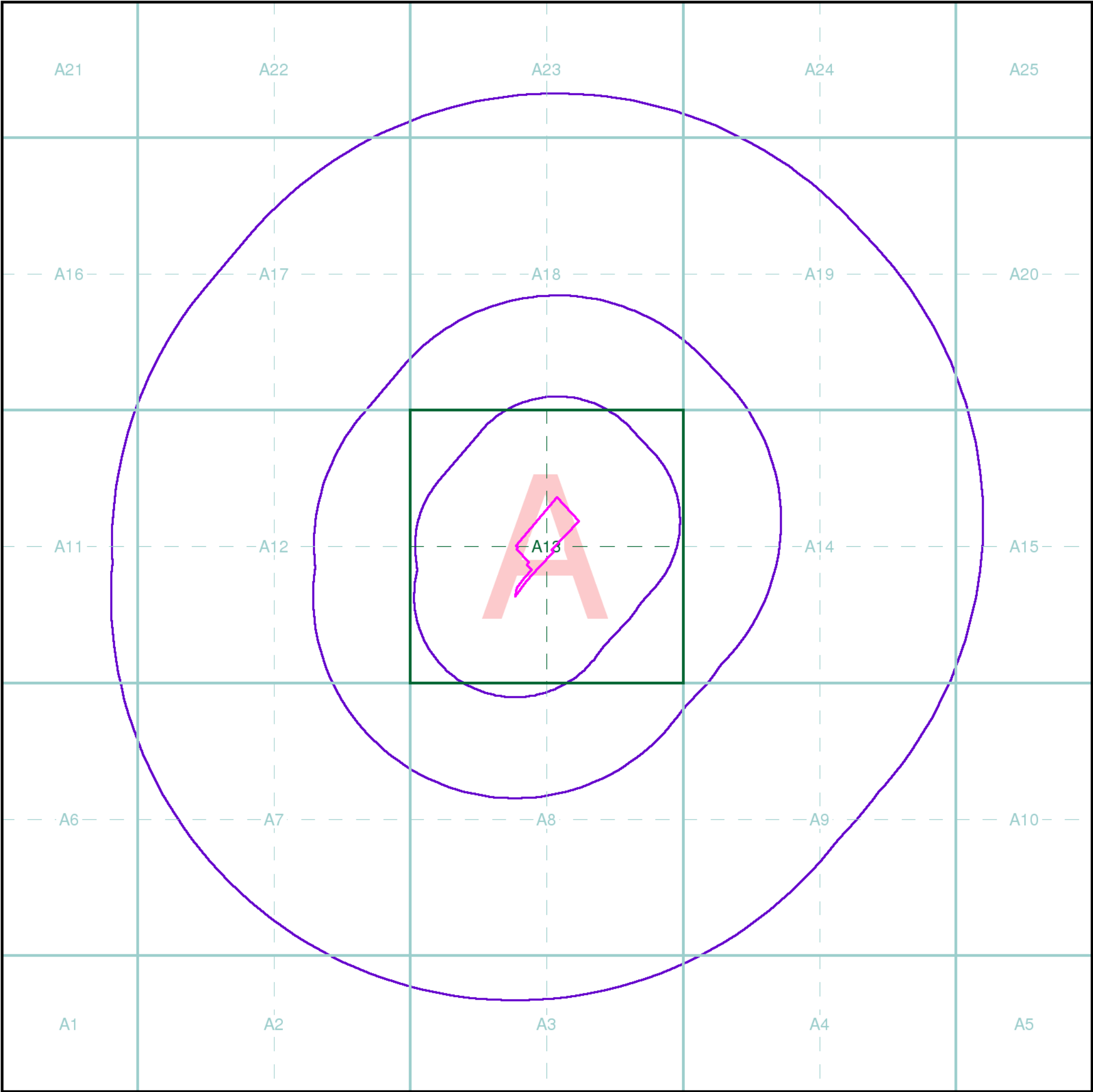
The assessment of ground conditions within this report is based upon the findings of the study undertaken. We have interpreted the ground conditions in between locations on the assumption that conditions do not vary significantly. However, no investigation can inspect each and every part of the site and therefore changes or variances in the physical and chemical site conditions as described in this report cannot be discounted.



The report is limited to those aspects of land contamination specifically reported on and is necessarily restricted and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents. The opinions expressed cannot be absolute due to the limitations of time and resources imposed by the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites. If migrating pollution or contamination (past or present) exists further extensive research will be required before the effects can be better determined.



Appendix B – Envirocheck Report



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:



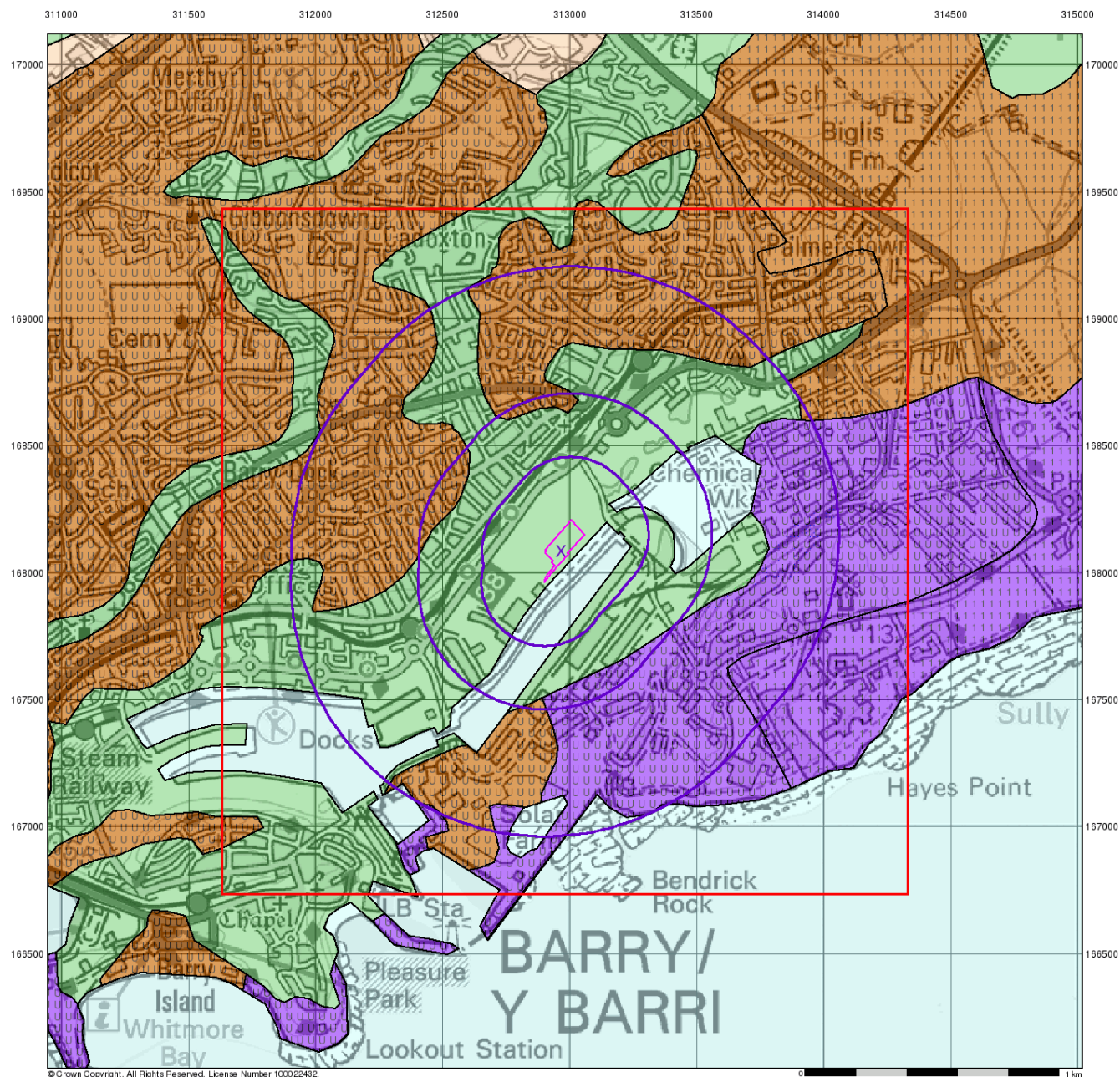
Envirocheck reports are compiled from 136 different sources of data.

Client Details
Dr S Roberts, WYG Environment Planning Transport Ltd,
Level 5, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

Order Details
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312980, 168110
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details
Site at, Barry Dock, The Vale of Glamorgan

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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

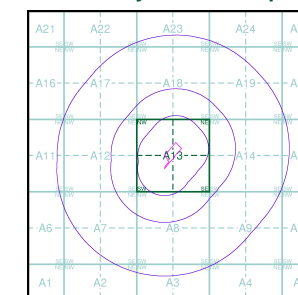
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

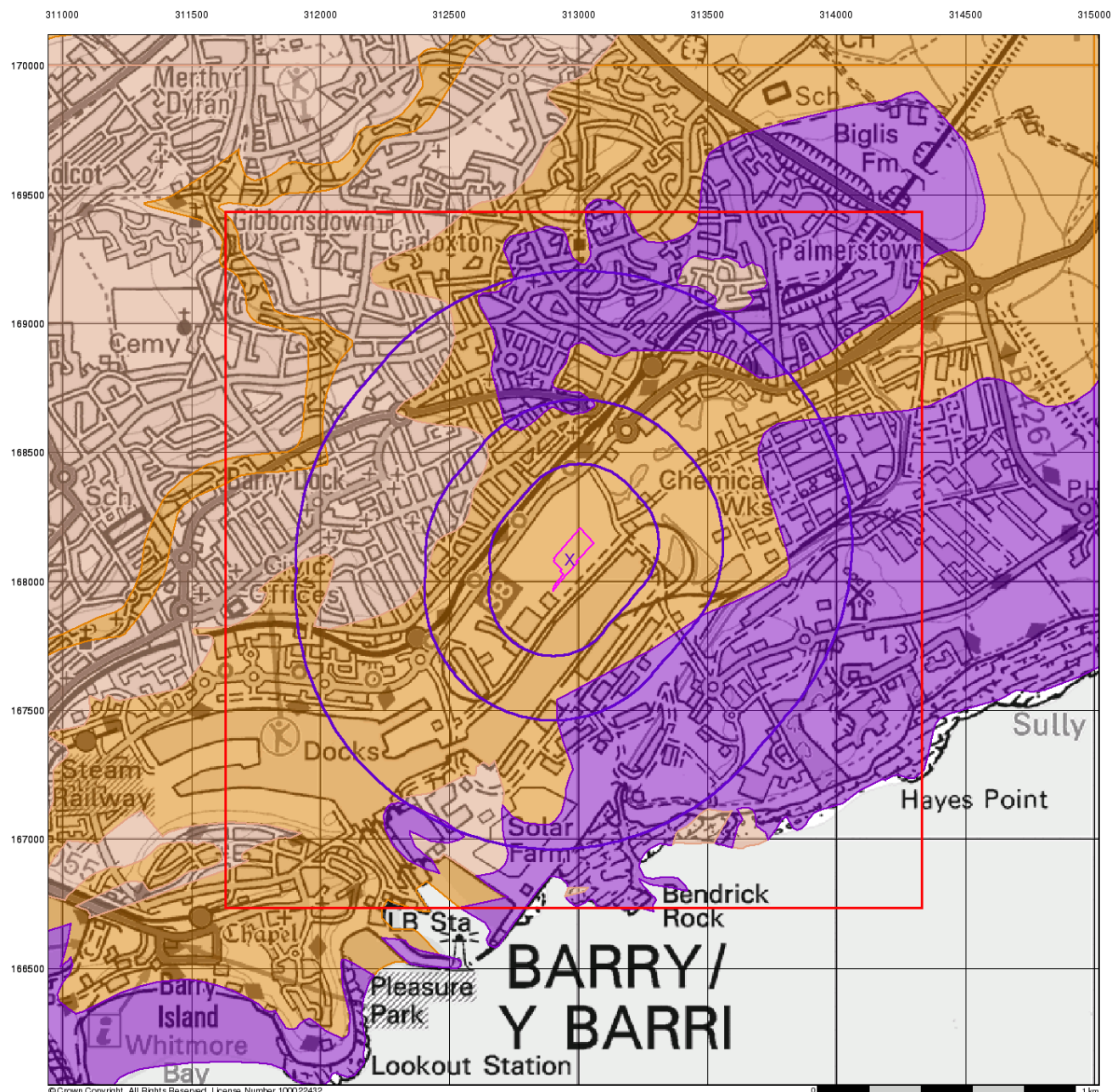
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 Customer Ref: A105832
 National Grid Reference: 312970, 168080
 Slice: A
 Site Area (Ha): 1.33
 Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
 INFORMATION GROUP

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



Bedrock Aquifer Designation

General

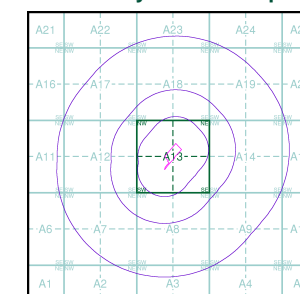
- X Specified Site
- Specified Buffer(s)
- Slice
- B Map ID
- X Bearing Reference Point

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

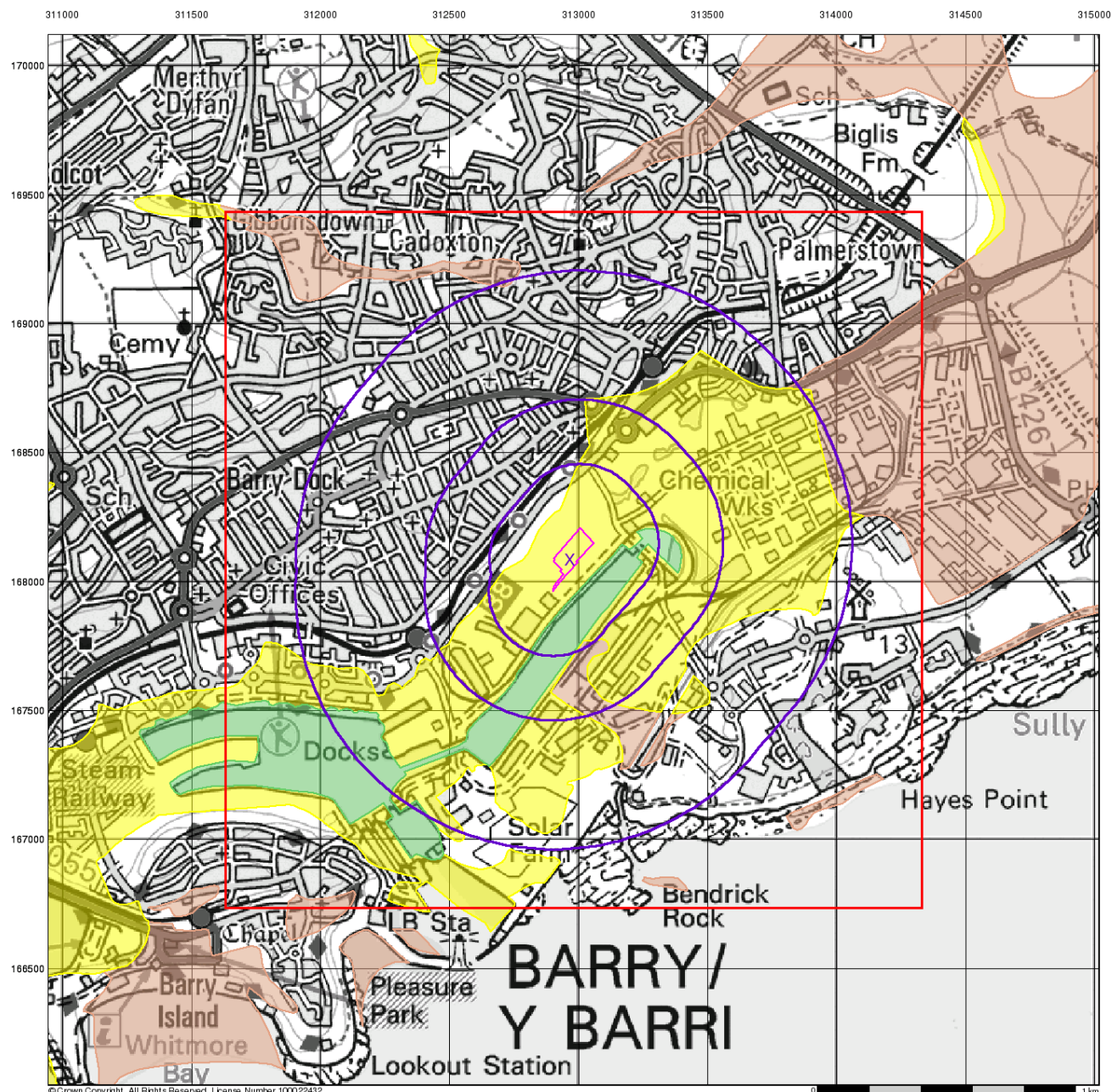
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 Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

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Superficial Aquifer Designation

General

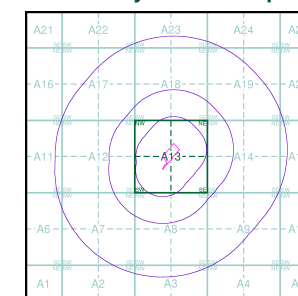
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

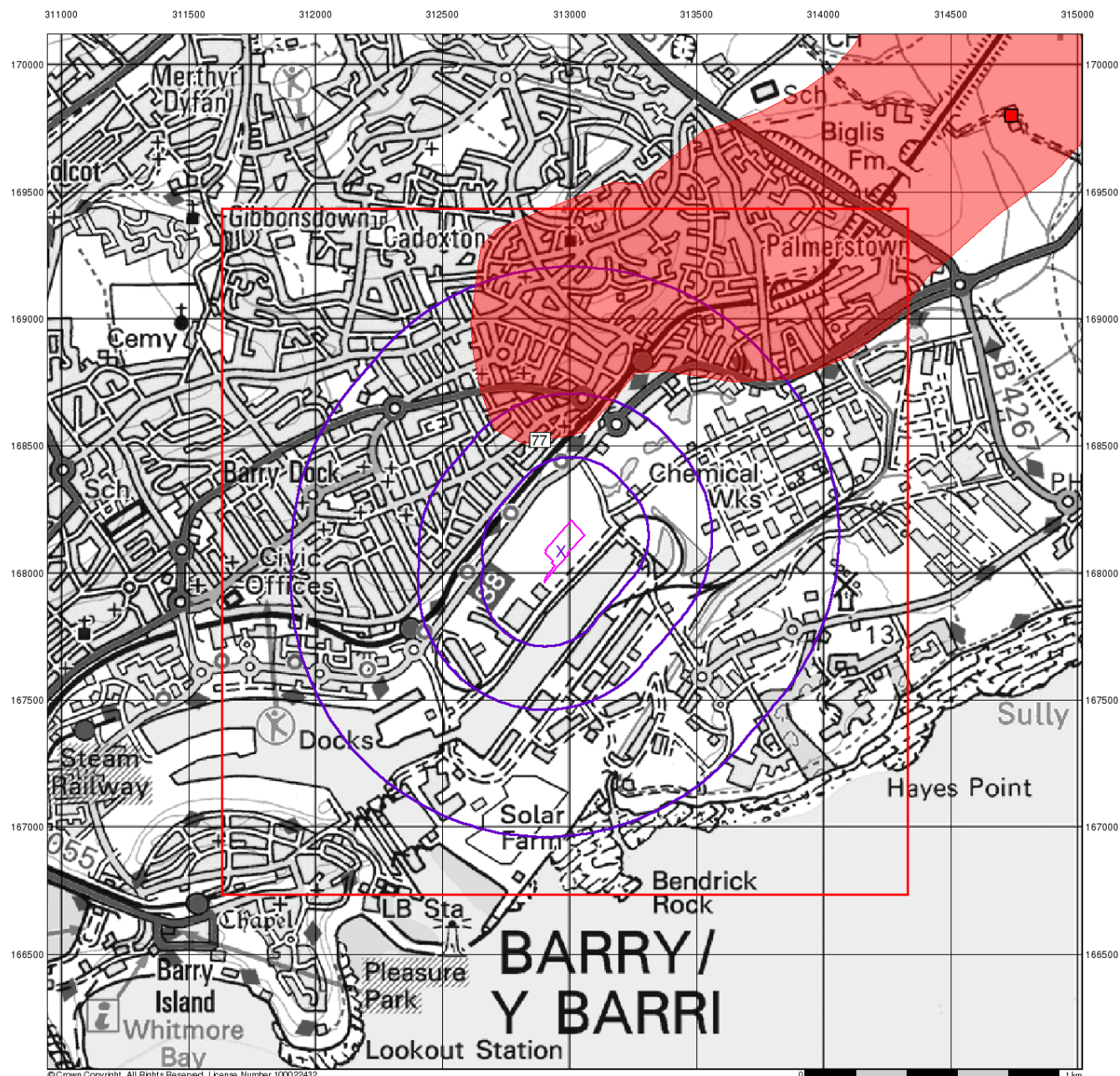
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Source Protection Zones

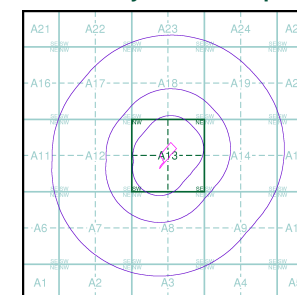
General

- 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

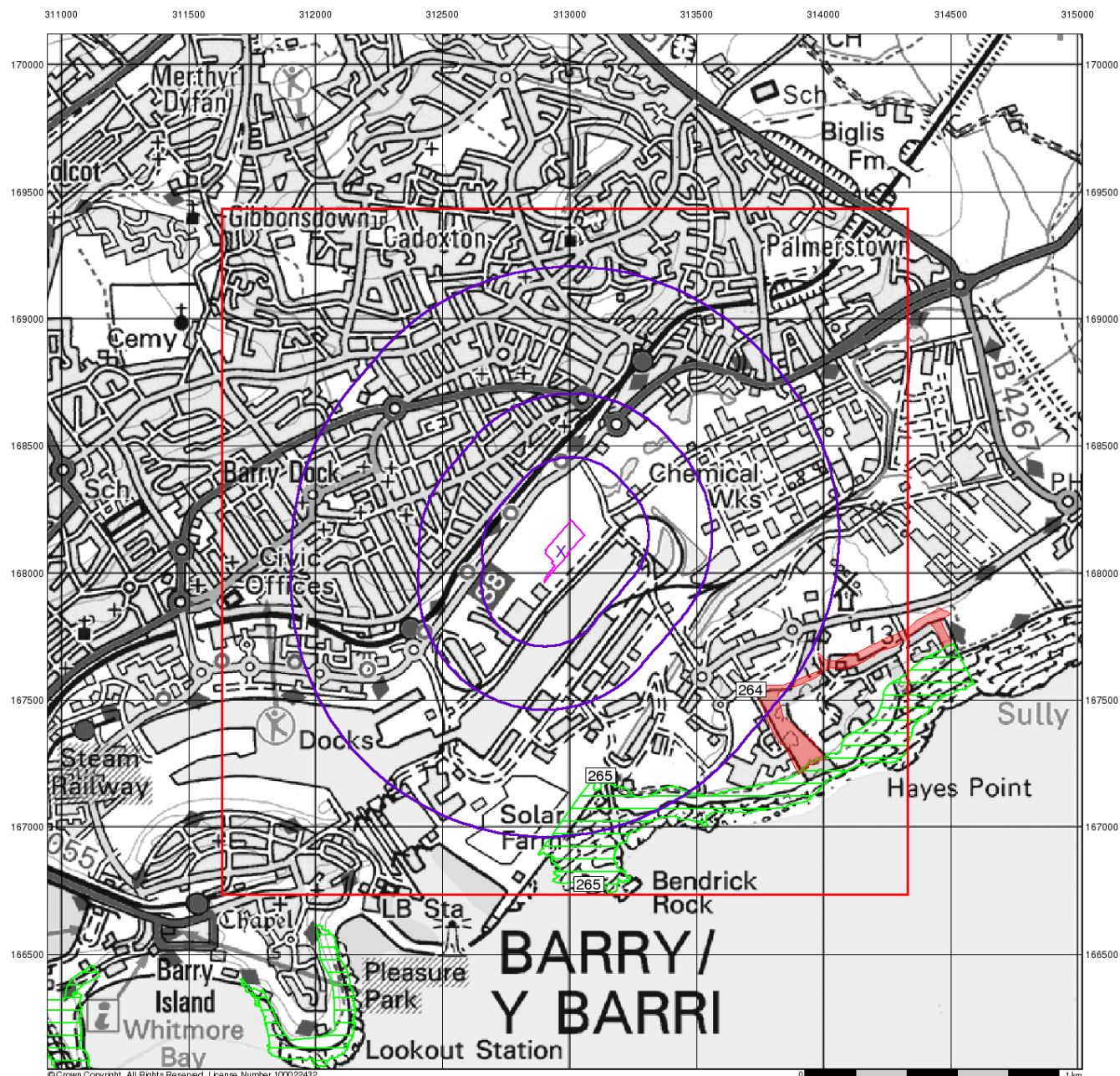
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 Customer Ref: A105832
 National Grid Reference: 312970, 168080
 Slice: A
 Site Area (Ha): 1.33
 Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
 INFORMATION GROUP

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 Fax: 0844 844 9951
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Sensitive Land Uses

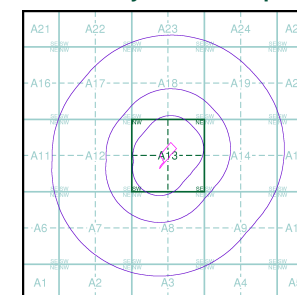
General

- 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

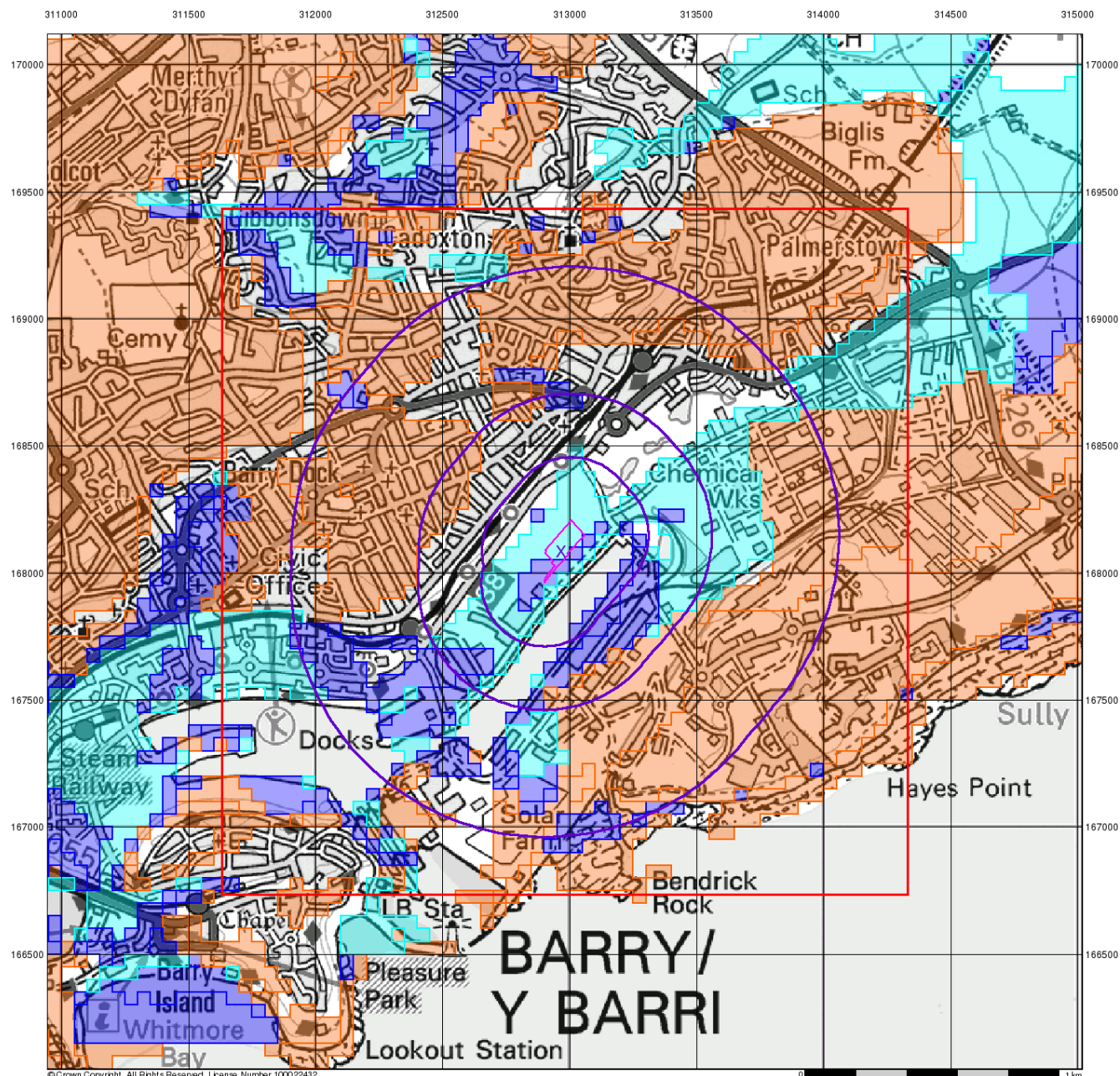
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 Site Area (Ha): 1.33
 Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
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BGS Flood GFS Data

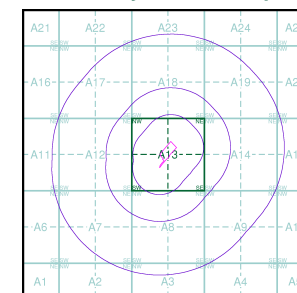
General

- 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

Order Number: 154476684_1_1
 Customer Ref: A105832
 National Grid Reference: 312970, 168080
 Slice: A
 Site Area (Ha): 1.33
 Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
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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
- 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
- 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
- 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

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

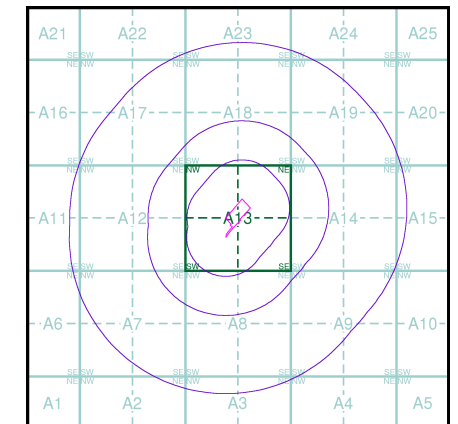
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

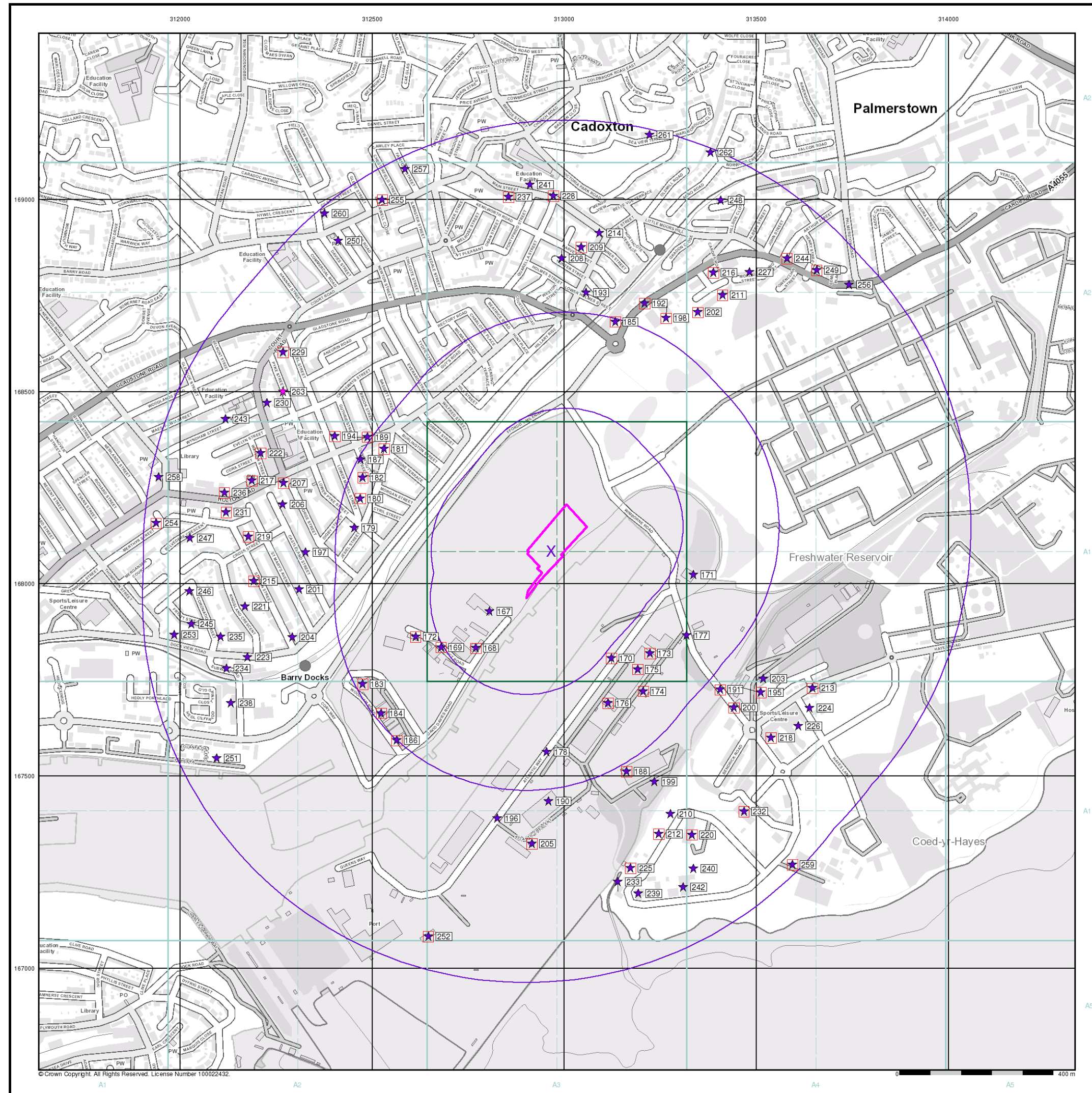
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Customer Ref: A105832
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Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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



Industrial Land Use Map

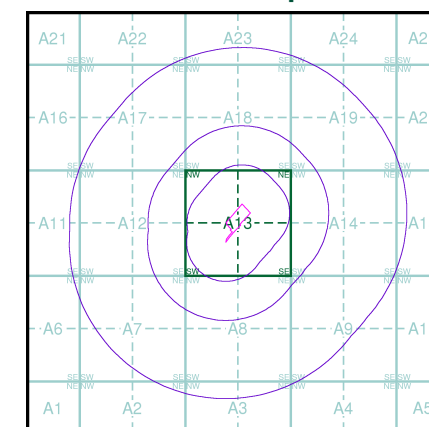
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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



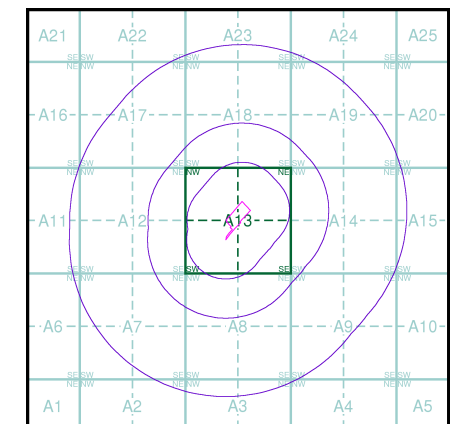
General

- 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

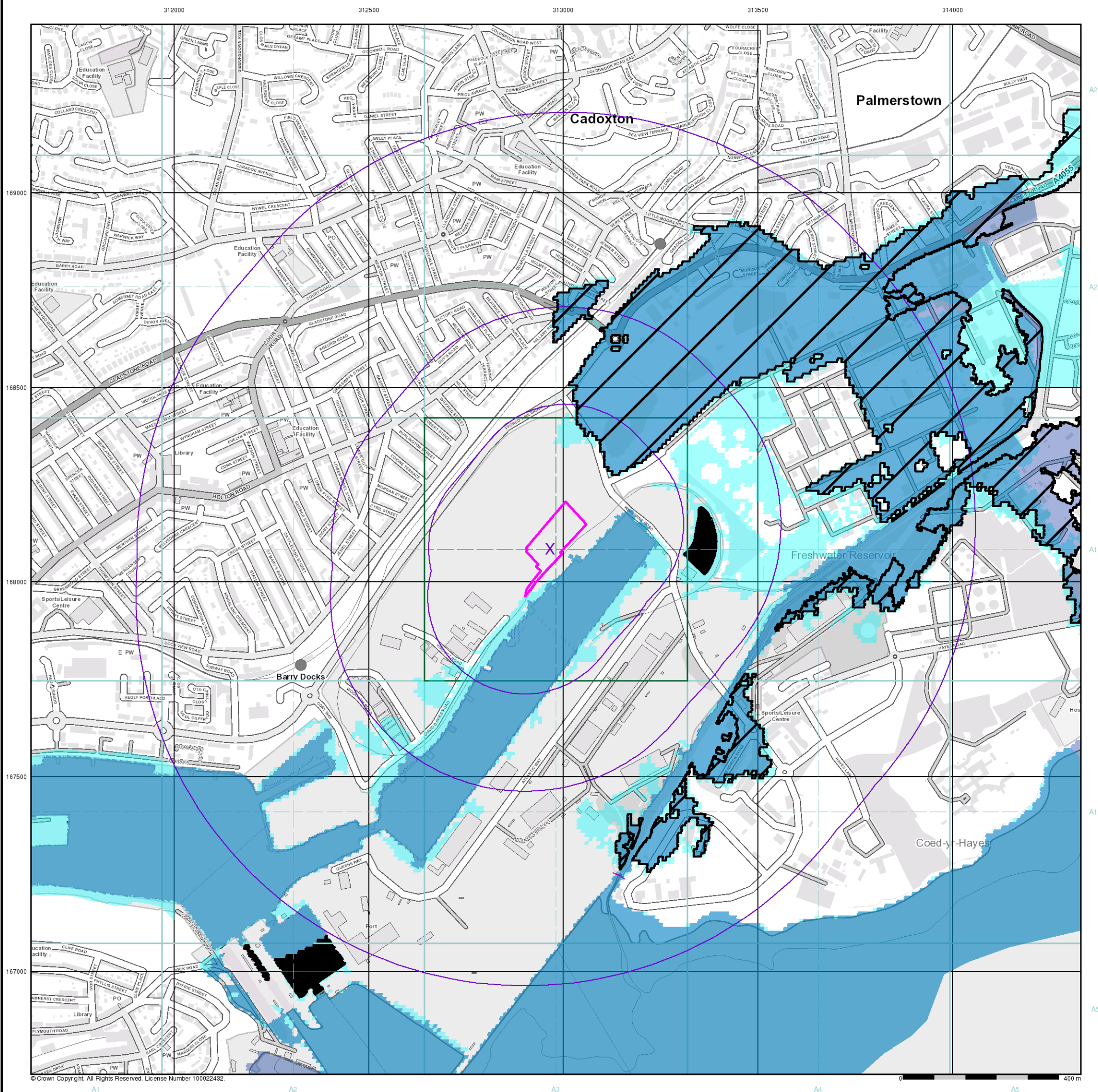
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

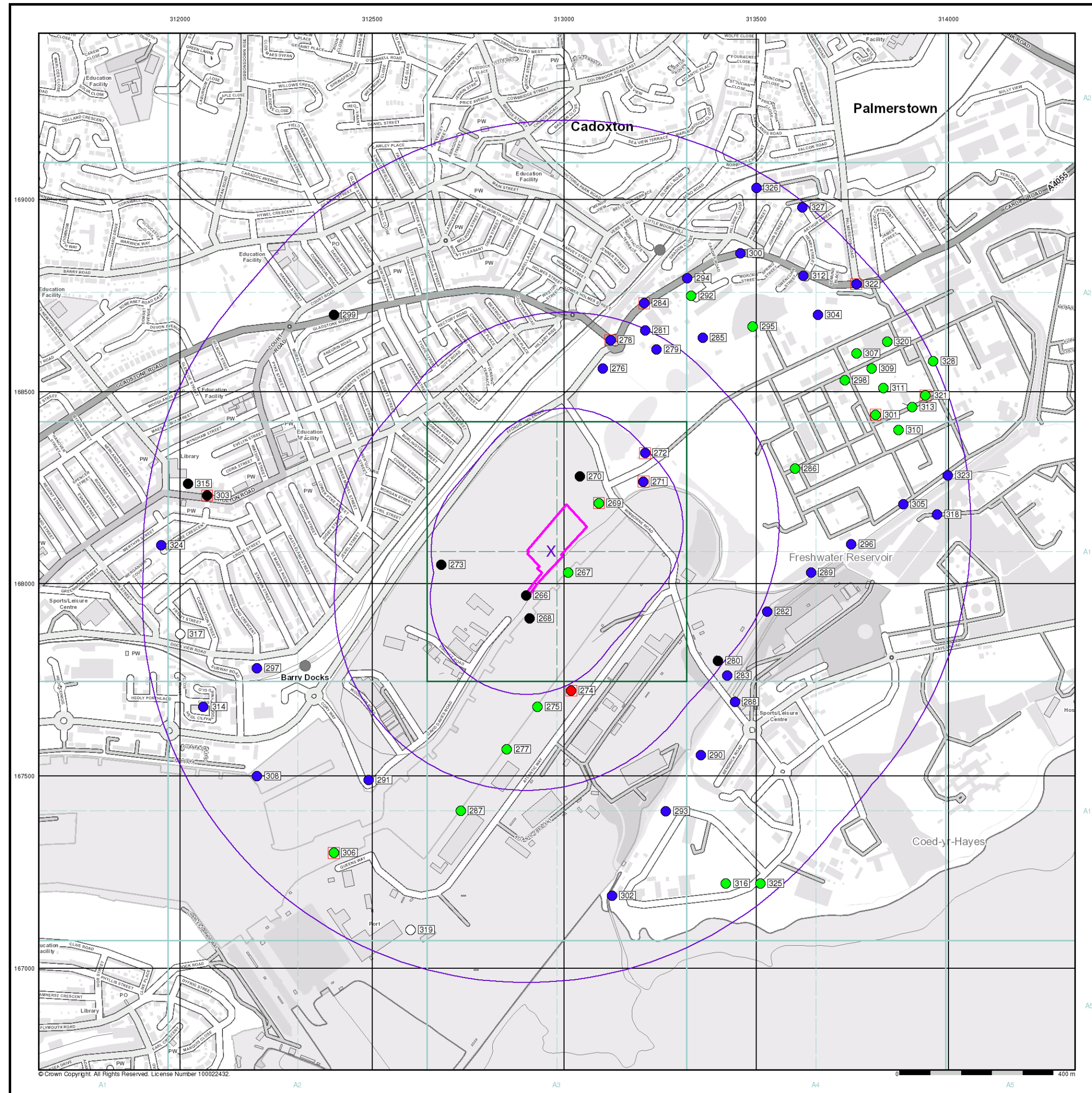
Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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





General

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

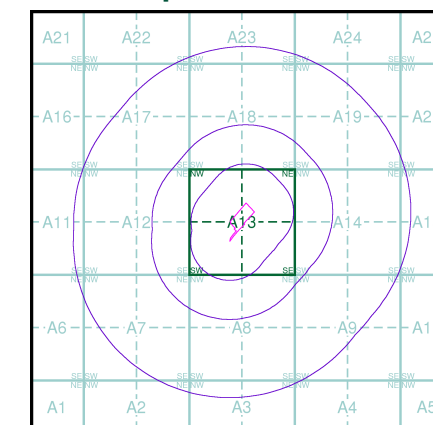
Agency and Hydrological (Boreholes)

- 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

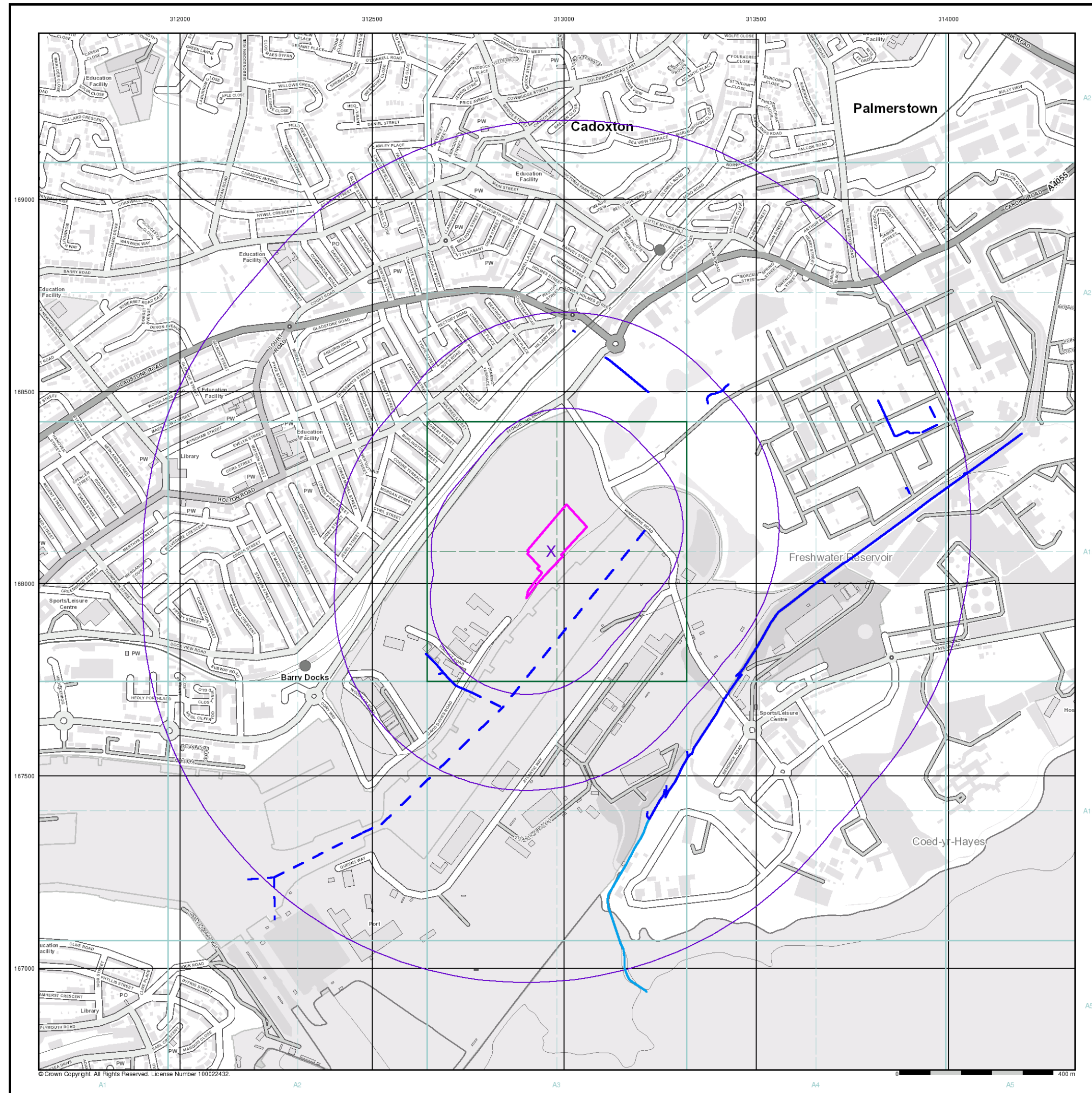
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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



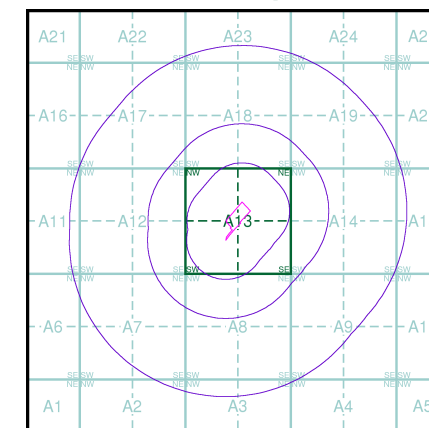
General

- 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 |

OS Water Network Map - Slice A



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

154476684_1_1

Customer Reference:

A105832

National Grid Reference:

312970, 168080

Slice:

A

Site Area (Ha):

1.33

Search Buffer (m):

1000

Site Details:

Site at

Barry Dock

The Vale of Glamorgan

Client Details:

Dr S Roberts

WYG Environment Planning Transport Ltd

Level 5, Longcross Court

47 Newport Road

Cardiff

CF24 0AD



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	51
Hazardous Substances	60
Geological	61
Industrial Land Use	64
Sensitive Land Use	84
Data Currency	85
Data Suppliers	89
Useful Contacts	90

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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Report Version v53.0



Summary

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 2		17	10	49
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 21				1
Integrated Pollution Controls	pg 21		4		2
Integrated Pollution Prevention And Control	pg 22		1	3	6
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 25		2	2	7
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 27		Yes		
Pollution Incidents to Controlled Waters	pg 27		2		15
Prosecutions Relating to Authorised Processes	pg 30				3
Registered Radioactive Substances					
River Quality	pg 30				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 31			2	2
Water Abstractions	pg 31				15 (*10)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 37	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 37	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 37	Yes	n/a	n/a	n/a
Source Protection Zones	pg 37			1	
Extreme Flooding from Rivers or Sea without Defences	pg 37	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 43		Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 45		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 46		1	9	33



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	pg 51		1	2	5
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 52			1	2
Licensed Waste Management Facilities (Locations)	pg 53		2	1	10
Local Authority Landfill Coverage	pg 55	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 55			2	4
Registered Landfill Sites	pg 57			2	4
Registered Waste Transfer Sites	pg 59				1
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 60				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 60				3
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 61	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 61				8
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			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	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 62	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 63	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 63	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



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 64		5	63	162
Fuel Station Entries	pg 83				1
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 84				1
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	pg 84				1
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	A13NE (E)	0	1	313050 168100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	0	1	312966 168050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	0	1	313000 168085
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (SE)	0	1	312966 168085
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	12	1	312950 167950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	15	1	312966 168000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	18	1	313000 168050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	26	1	313050 168085
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	41	1	313100 168100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	41	1	313100 168150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	77	1	312900 168200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	141	1	313200 168150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	168	1	313150 168000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	191	1	313250 168100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	197	1	313200 167950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	246	1	313300 168085
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	267	1	312966 167700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	296	1	313350 168200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	331	1	312700 167700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	346	1	313050 167650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	346	1	312600 168250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	361	1	313150 167700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	362	1	312900 167600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	370	1	313250 167750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	376	1	313000 167600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	407	1	313300 167800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	412	1	312950 167550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	412	1	312900 167550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SW)	415	1	312700 167600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	424	1	312850 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	441	1	312650 167600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	444	1	312966 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	457	1	312900 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SW)	483	1	312650 167550
1	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks Outlet 45 No 29 Base Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033245 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	38	2	313000 168020
2	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033244 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SW (S)	56	2	312920 167910



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: Barry Docks . . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033248 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13NE (E)	56	2	313100 168110
4	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033246 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SE (E)	61	2	313060 168060
4	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033247 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SE (E)	82	2	313080 168050
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Barry Docks Ps Cso Off Wimbourne Rd, Wimbourne Road, Barry Docks (No.2 Dock), Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0037801 Permit Version: 4 Effective Date: 31st March 2007 Issued Date: 26th April 2005 Revocation Date: 11th March 2008 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Controlled Sea Environment: Receiving Water: The North West Corner Of Barry 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	A13NE (NE)	103	2	313160 168170



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Barry Docks Ps Cso Off Wimbourne Rd, Wimbourne Road, Barry Docks (No.2 Dock), Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0037801 Permit Version: 3 Effective Date: 31st August 1997 Issued Date: 14th April 1997 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Not Supplied Environment: Receiving Water: The North West Corner Of Barry Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	103	2	313160 168170
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Barry Docks Ps Cso Off Wimbourne Rd, Wimbourne Road, Barry Docks (No.2 Dock), Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0037801 Permit Version: 2 Effective Date: 22nd March 1994 Issued Date: 22nd December 1993 Revocation Date: 30th August 1997 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Not Supplied Environment: Receiving Water: The North West Corner Of Barry Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	103	2	313160 168170
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Barry Docks Ps Cso Off Wimbourne Rd, Wimbourne Road, Barry Docks (No.2 Dock), Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0037801 Permit Version: 1 Effective Date: 11th December 1987 Issued Date: 11th December 1987 Revocation Date: 21st March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: The North West Corner Of Barry Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	103	2	313160 168170
5	Discharge Consents Operator: Associated British Ports Property Type: Sewerage Network - Pumping Station - Water Company Location: Barry Docks Ps Cso Off Wimbourne Rd, Wimbourne Road, Barry Docks (No.2 Dock), Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033249 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	103	2	313160 168170



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Barry Docks Ps Cso Off Wimbourne Rd, Wimbourne Road, Barry Docks (No.2 Dock), Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0037801 Permit Version: 5 Effective Date: 12th March 2008 Issued Date: 12th March 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Controlled Sea Environment: Receiving Water: The North West Corner Of Barry Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	105	2	313161 168172
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Support Services - Sea Transport Location: Barry Docks Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033205 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 5th August 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13NE (E)	123	2	313180 168170
6	Discharge Consents Operator: Harris Pye Marine Ltd Property Type: Trade (Unknown/Other) Location: Factory At David Davies Road Barry, Barry Docks, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Not Given Reference: AN0238001 Permit Version: 1 Effective Date: 27th October 1992 Issued Date: 27th October 1992 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Barry Docks Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	146	2	312770 167900
7	Discharge Consents Operator: Engineering Supervisor Property Type: Undefined Or Other Location: Rank Hovis Ltd Atlantic Mills Barry, Rank Hovis Limited, Atlantic Mills Atlantic Way, No2 Dock Barry, Valoe Of Glamorgan, Cf63 3ra Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0324001 Permit Version: 1 Effective Date: 30th August 2002 Issued Date: 30th August 2002 Revocation Date: 27th October 2006 Discharge Type: Trade Boiler Blowdown Effluent: Unspecified Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Via Soakaway Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	202	2	313070 167850



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks Outlet 43 No 26 Hoist ., Outlet 43 No 26 Hoist . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033243 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 31st March 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	206	2	312790 167790
9	Discharge Consents Operator: Rank Hovis Ltd Property Type: Undefined Or Other Location: Barry Docks Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033204 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8NW (S)	237	2	312950 167730
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Barry Docks Storm Ps Barry Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0088801 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 9th February 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Barry Dock Number 2 Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	249	2	313220 168340
11	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - St Hillary Rise (Rear Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0102801 Permit Version: 3 Effective Date: 29th March 2007 Issued Date: 29th March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Receiving Water: Unnamed W'Course Then P.S. The Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18SW (N)	324	2	312850 168490



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - St Hillary Rise (Rear) Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0102801 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 31st March 2005 Revocation Date: 28th March 2007 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Receiving Water: Unnamed W'Course Then P.S. The Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18SW (N)	324	2	312850 168490
11	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - St Hillary Rise (Rear) Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0102801 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2007 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Unnamed W'Course Then P.S. The Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18SW (N)	324	2	312850 168490
12	Discharge Consents Operator: The Occupier Property Type: Miscellaneous Transport Not Specified Location: Fisher Containers David Davies Road, David Davies Road Barry Dock Bar, Barry Dock Barry Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033206 Permit Version: 2 Effective Date: 10th October 1992 Issued Date: 10th July 1992 Revocation Date: 31st October 1996 Discharge Type: Unspecified Discharge: Controlled Sea Environment: Receiving Water: Barry Docks Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	370	2	312720 167640
12	Discharge Consents Operator: The Occupier Property Type: Miscellaneous Transport Not Specified Location: Fisher Containers David Davies Road, David Davies Road Barry Dock Bar, Barry Dock Barry Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033206 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Barry Docks Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	370	2	312720 167640



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks - No 4 Berth Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033203 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8NW (S)	386	2	312850 167580
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Holton Road, Barry Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0102701 Permit Version: 3 Effective Date: 31st March 2007 Issued Date: 31st March 2005 Revocation Date: 31st March 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Stream Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18SW (N)	476	2	312970 168680
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Holton Road, Barry Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0102701 Permit Version: 2 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Stream Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18SW (N)	476	2	312970 168680
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Holton Road, Barry Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0102701 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 19th October 1989 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Stream Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A18SW (N)	476	2	312970 168680



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Discharge Consents Operator: Denholm Terminals Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Barry Docks Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033202 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 11th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8NW (S)	485	2	312790 167490
16	Discharge Consents Operator: Ici Chemical & Polymers Ltd Property Type: Basic Industry, Chemicals Organic Location: Barry Wimbourne Road Ici Rail Sidin, Wimbourne Road Ici Rail Sidings Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0069001 Permit Version: 1 Effective Date: 23rd May 1988 Issued Date: 23rd May 1988 Revocation Date: 17th August 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Soakaway Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A14SW (E)	506	2	313500 167900
17	Discharge Consents Operator: Hanson Aggregates Property Type: Trade (Unknown/Other) Location: Atlantic Trading Estate Barry, Vale Of Glamorgan, Wales Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: Af4010801 Permit Version: 1 Effective Date: 10th July 1974 Issued Date: 10th July 1974 Revocation Date: 9th July 2009 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: River Cadoxton Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	549	2	313400 167700
17	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks Cadaxton River Bridge W, Cadaxton River Bridge Wimbourne, Wimbourne Road . . Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0033240 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	551	2	313420 167720



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033242 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	577	2	312570 167490
18	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033241 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	625	2	312530 167460
19	Discharge Consents Operator: Barry Cargomasters Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Barry Docks Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033201 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 11th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8NW (S)	579	2	312730 167410
20	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Gladstone Road Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0103901 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 9th February 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Dock No.2 Via Barry Dock Storm Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	594	2	312820 168770



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Discharge Consents Operator: Holton Road Developments Ltd Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0141401 Permit Version: 2 Effective Date: 9th June 1989 Issued Date: 9th June 1989 Revocation Date: 17th May 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Landlocked Marsh Wetland/Pond Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	633	2	313400 168700
21	Discharge Consents Operator: Holton Road Developments Ltd Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0141401 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 8th June 1989 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Landlocked Marsh Wetland/Pond Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	633	2	313400 168700
22	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Vere Street Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0107201 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 31st March 2005 Revocation Date: 31st March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Dock No.2 Via P.S.Via Unnamed Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NE (N)	638	2	313070 168840
22	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Vere Street Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0107201 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Dock No.2 Via P.S.Via Unnamed Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18NE (N)	638	2	313070 168840



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Atlantic Trading Est Ps Barry Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0243401 Permit Version: 3 Effective Date: 21st February 2008 Issued Date: 21st February 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Cadoxton Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	642	2	313264 167433
23	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Atlantic Trading Est Ps Barry Authority: Natural Resources Wales Catchment Area: Not Given Reference: AN0243401 Permit Version: 2 Effective Date: 1st April 1997 Issued Date: 13th June 1995 Revocation Date: 20th February 2008 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Cadoxton Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	642	2	313260 167430
23	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Atlantic Trading Est Ps Barry Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0243401 Permit Version: 1 Effective Date: 1st July 1995 Issued Date: 14th June 1994 Revocation Date: 31st March 1997 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Cadoxton Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	642	2	313260 167430
24	Discharge Consents Operator: Vopak Terminal Windmill Ltd Property Type: Wholesale Distribution Fuels & Metals Location: Windmill Site Hayes Road Barry, Hayes Road, Vale Of Glamorgan, Cf64 5yb Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An028010101 Permit Version: 3 Effective Date: 27th September 2005 Issued Date: 26th September 2005 Revocation Date: 7th September 2006 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: River Cadoxton Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A14NE (E)	643	2	313700 168100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Discharge Consents Operator: Vopak Terminal Windmill Ltd Property Type: Wholesale Distribution Fuels & Metals Location: Windmill Site Hayes Road Barry, Hayes Road, Vale Of Glamorgan, Cf64 5yb Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An028010101 Permit Version: 2 Effective Date: 23rd January 2001 Issued Date: 22nd January 2001 Revocation Date: 26th September 2005 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: River Cadoxton Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A14NE (E)	643	2	313700 168100
24	Discharge Consents Operator: Vopak Windmill Ltd Property Type: Wholesale Distribution Fuels & Metals Location: Windmill Site Hayes Road Barry, Hayes Road, Vale Of Glamorgan, Cf64 5yb Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: AN028010101 Permit Version: 1 Effective Date: 27th April 1998 Issued Date: 27th April 1998 Revocation Date: 22nd January 2001 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: River Cadoxton Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A14NE (E)	643	2	313700 168100
25	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Gladstone Road Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0104001 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 9th February 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Dock No.2 Via Barry Dock Storm Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (NW)	643	2	312680 168760
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Gladstone Road Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0104101 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 31st March 2007 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Dock No. 2 Via Barry Dock Stor Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	667	2	312620 168750



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Vere Street Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0107101 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 18th March 2005 Revocation Date: 31st March 2007 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Receiving Water: Dock No.2 Via P.S. Via Unnamed Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	680	2	313400 168760
27	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Vere Street Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0107101 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2007 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Dock No.2 Via P.S. Via Unnamed Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	680	2	313400 168760
28	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks North Side Of Junction, North Side Of Junction Cut Outfa, Cut Outfall 7 . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033207 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	727	2	312480 167370
28	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks North Side Of Junction, North Side Of Junction Cut D, Da, Cut D, Davies Way . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033208 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	751	2	312440 167370



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033239 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	752	2	312480 167340
28	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks S.S. Junction Cut, Outf, S.S. Junction Cut, Outfall 38 Qu, Cut, Outfall 38 Queens Way . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033238 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	769	2	312480 167320
29	Discharge Consents Operator: Barry Dock Property Type: Undefined Or Other Location: Barry Docks Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033211 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 17th May 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	744	2	312270 167570
30	Discharge Consents Operator: Bp Chemicals Ltd Property Type: Basic Industry, Chemicals Organic Location: Bp Chemicals Ltd Sully Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0049101 Permit Version: 3 Effective Date: 29th November 1991 Issued Date: 16th January 1991 Revocation Date: 10th January 1994 Discharge Type: Trade Effluent Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8SE (S)	761	2	313140 167240



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Discharge Consents Operator: Bp Chemicals Ltd Property Type: Basic Industry, Chemicals Organic Location: Bp Chemicals Ltd Sully Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0049101 Permit Version: 2 Effective Date: 16th January 1990 Issued Date: 16th January 1990 Revocation Date: 28th November 1991 Discharge Type: Trade Effluent Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8SE (S)	761	2	313140 167240
30	Discharge Consents Operator: Bp Chemicals Ltd Property Type: Basic Industry, Chemicals Organic Location: Bp Chemicals Ltd Sully Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0049101 Permit Version: 1 Effective Date: 14th October 1987 Issued Date: 14th October 1987 Revocation Date: 15th January 1990 Discharge Type: Unspecified Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8SE (S)	761	2	313140 167240
31	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033209 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	778	2	312410 167360
31	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033210 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	805	2	312380 167350



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Discharge Consents Operator: Mdh Tanker Cleaning Services Ltd Property Type: Support Services - Sea Transport Location: Brt International Ltd, No3 Dock, Barry Docks, Cf63 3ra Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033237 Permit Version: 2 Effective Date: 10th July 1996 Issued Date: 9th July 1996 Revocation Date: 29th April 2007 Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Controlled Sea Environment: Receiving Water: Barry Docks Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	816	2	312440 167290
31	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Brt International Ltd, No3 Dock, Barry Docks, Cf63 3ra Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0033237 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th July 1996 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Barry Docks Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	817	2	312410 167310
31	Discharge Consents Operator: Central Trailer Rentco Ltd Property Type: Undefined Or Other Location: Barry Docks Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033236 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 31st March 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	843	2	312380 167300
32	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bendricks New Outfall Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0037401 Permit Version: 3 Effective Date: 13th June 1995 Issued Date: 13th June 1995 Revocation Date: 1st April 1997 Discharge Type: Sewerage System Discharge Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	841	2	313120 167150



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bendricks New Outfall Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0037401 Permit Version: 2 Effective Date: 13th January 1993 Issued Date: 13th October 1992 Revocation Date: 12th June 1995 Discharge Type: Sewerage System Discharge Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8SE (S)	841	2	313120 167150
32	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bendricks New Outfall Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0037401 Permit Version: 1 Effective Date: 11th December 1987 Issued Date: 11th December 1987 Revocation Date: 12th January 1993 Discharge Type: Unspecified Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8SE (S)	841	2	313120 167150
33	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks Subway Road Outfall 12, Subway Road Outfall 12 . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033212 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	886	2	312140 167510
34	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks North Side No 1 Dock Ro, North Side No 1 Dock Road Drainage, Road Drainage O/Fall 1 . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033213 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	938	2	312080 167510



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Gladstone Road Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0103701 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 31st March 2005 Revocation Date: 31st March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Dock No.1 Via Unnamed Watercou Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	950	2	312140 168650
35	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Gladstone Road Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: AN0103701 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1988 Revocation Date: 30th March 2007 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Dock No.1 Via Unnamed Watercou Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	950	2	312140 168650
36	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bendricks Old Outfall Barry East Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0037501 Permit Version: 3 Effective Date: 19th September 1995 Issued Date: 18th September 1995 Revocation Date: 1st April 1997 Discharge Type: Unspecified Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A3NE (S)	983	2	313100 167000
36	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bendricks Old Outfall Barry East Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0037501 Permit Version: 2 Effective Date: 13th January 1993 Issued Date: 13th October 1992 Revocation Date: 18th September 1995 Discharge Type: Unspecified Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A3NE (S)	983	2	313100 167000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bendricks Old Outfall Barry East Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0037501 Permit Version: 1 Effective Date: 11th December 1987 Issued Date: 11th December 1987 Revocation Date: 12th January 1993 Discharge Type: Unspecified Discharge: Controlled Sea Environment: Receiving Water: Bristol Channel Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A3NE (S)	983	2	313100 167000
37	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Barry Docks . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033235 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 9th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	985	2	312330 167160
37	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks Windward Terminal Outfa, Windward Terminal Outfall 34 . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033234 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	985	2	312360 167140
38	Discharge Consents Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Barry Docks North Side No 1 Dock Dr, North Side No 1 Dock Drainage No, No 1 Dock Drainage No 14 . . Authority: Natural Resources Wales Catchment Area: Boundary Of HA 58 & HA 59 Reference: An0033214 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Severn Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	987	2	312020 167520



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Robins Lane Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: An0105201 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 18th March 2005 Revocation Date: 31st March 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Coldbrook Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A23SW (N)	1000	2	312650 169140
39	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Barry - Robins Lane Authority: Natural Resources Wales Catchment Area: River Cadoxton Reference: AN0105201 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2007 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Coldbrook Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1000	2	312650 169140
40	Enforcement and Prohibition Notices Location: Sully Works, Barry, PENARTH, South Glamorgan, CF64 5XB Permit Reference: NOT GIVEN Enforcement Date: 10th October 1997 Details: ENDS Report 273 (October 1997), Two tonnes of vinyl chloride monomer leaked from an over pressurised vessel. (Prohibition Notice lifted on the 14/10/1997 after the plant was modified.) Positional Accuracy: Manually positioned to the address or location	A14NE (E)	838	3	313895 168086
41	Integrated Pollution Controls Name: Npower Cogen Ltd Location: Dow Corning Site, Winbourne Road-dock 2, BARRY, South Glamorgan, CF63 3DH Authority: Environment Agency, Welsh Region Permit Reference: BA7794 Dated: 23rd March 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the address or location	A13SE (E)	111	3	313143 168076
41	Integrated Pollution Controls Name: Npower Cogen Ltd Location: Dow Corning Site, Winbourne Road-Dock 2, BARRY, South Glamorgan, CF63 3DH Authority: Environment Agency, Welsh Region Permit Reference: AY8310 Dated: 18th November 1997 Process Type: IPC new application Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the address or location	A13SE (E)	114	3	313143 168071



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Integrated Pollution Controls Name: Npower Cogen Ltd Location: Dow Corning Site, Winbourne Road-Dock 2, BARRY, South Glamorgan, CF63 3DH Authority: Environment Agency, Welsh Region Permit Reference: BF9913 Dated: 15th July 1999 Process Type: IPC major (substantial) variation Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the address or location	A13SE (E)	115	3	313148 168076
41	Integrated Pollution Controls Name: Npower Cogen Ltd Location: Dow Corning Site, Winbourne Road, -dock 2, BARRY, South Glamorgan, CF63 3DH Authority: Environment Agency, Welsh Region Permit Reference: BE3677 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the address or location	A13SE (E)	118	3	313148 168071
42	Integrated Pollution Controls Name: Npower Cogen Ltd Location: Winbourne Road - Dock 2, Barry, South Glamorgan, Cf63 3dh Authority: Environment Agency, Welsh Region Permit Reference: By4483 Dated: 17th November 2004 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Revoked - Now IPPC Positional Accuracy: Manually positioned to the road within the address or location	A14SW (SE)	506	3	313388 167752
43	Integrated Pollution Controls Name: Npower Cogen Ltd Location: Winbourne Road - Dock 2, BARRY, South Glamorgan, CF63 3DH Authority: Environment Agency, Welsh Region Permit Reference: B11835 Dated: 28th June 2001 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	621	3	313460 167658
44	Integrated Pollution Prevention And Control Name: Premier Foods Group Ltd Location: Barry Flour Mill, Atlantic Mills, Atlantic Way, No. 2 Dock, Barry, Vale Of Glamorgan, CF63 3RA Authority: Natural Resources Wales Permit Reference: KP3735XW Original Permit Ref: Kp3735xw Effective Date: 25th February 2008 Status: Effective Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Manually positioned to the address or location Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A13SE (S)	237	2	313050 167778
44	Integrated Pollution Prevention And Control Name: Rank Hovis Limited Location: Barry Flour Mill, Atlantic Way, Barry, South Glamorgan, CF63 3RA Authority: Natural Resources Wales Permit Reference: Bp3376ie Original Permit Ref: Bp3376ie Effective Date: 17th August 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A13SE (S)	266	2	313063 167751



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Integrated Pollution Prevention And Control Name: Alembic Manufacturing Ltd Location: Barry Aluminium Chlorohydrate Plant Ea/Epr/Mp3431sp/V002, Unit 6, Wimbourne Buildings, Atlantic Way, Barry Docks, Barry, Vale Of Glamorgan, CF63 3RA Authority: Natural Resources Wales Permit Reference: LP3638ZP Original Permit Ref: Mp3431sp Effective Date: 28th February 2013 Status: Effective Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 4.2 A(1) (A) (I) Activity Description: Inorganic Chemicals; Gases Eg Ammonia, Primary Activity: Y	A13SE (SE)	341	2	313176 167760
45	Integrated Pollution Prevention And Control Name: Alembic Manufacturing Ltd Location: Barry Aluminium Chlorohydrate Plant, Unit 6, Wimbourne Buildings, Atlantic Way,, Barry Docks, South Glamorgan, CF63 3RA Authority: Natural Resources Wales Permit Reference: Mp3431sp Original Permit Ref: Mp3431sp Effective Date: 7th November 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (A) (I) Activity Description: Inorganic Chemicals; Gases Eg Ammonia, Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A13SE (SE)	341	2	313176 167760
46	Integrated Pollution Prevention And Control Name: Iba Recycling Facility Epr/Lp3239aw Location: Iba Recycling Facility Epr/Lp3239aw, Iba Recycling Facility, Wimborne Road, Barry Docks,, BARRY, South Glamorgan, CF63 3DH Authority: Natural Resources Wales Permit Reference: LP3239AW Original Permit Ref: Lp3239aw Effective Date: 9th March 2017 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Manually corrected supplier location Activity Code: 5.4 PART A (1) B) (III) Activity Description: Not Supplied Primary Activity: Y	A14SW (SE)	509	2	313430 167800
47	Integrated Pollution Prevention And Control Name: Barry Chp Location: Barry Silicon Based Manufacturing Installation Ea/Epr/Bx4135ij/V002, Winbourne Road - Dock 2, Barry, Vale Of Glamorgan, CF63 3DH Authority: Natural Resources Wales Permit Reference: JP3632ZH Original Permit Ref: Jp3632zh Effective Date: 10th February 2017 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 PART A (1) A) (I) Activity Description: Not Supplied Primary Activity: Y	A14NE (E)	683	2	313740 168200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Integrated Pollution Prevention And Control Name: Npower Cogen Ltd Location: Barry Silicon Based Manufacturing Installation Ea/Epr/Bx4135ij/V002, Winbourne Road - Dock 2, Barry, Vale Of Glamorgan, CF63 3DH Authority: Natural Resources Wales Permit Reference: RP3139KG Original Permit Ref: Bx4135ij Effective Date: 13th November 2009 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) a) (i) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y	A14NE (E)	683	2	313740 168200
47	Integrated Pollution Prevention And Control Name: Npower Cogen Ltd Location: Barry Silicon Based Manufacturing Installation, Winbourne Road - Dock 2, Barry, Vale Of Glamorgan, CF63 3DH Authority: Natural Resources Wales Permit Reference: Bx4135ij Original Permit Ref: Bx4135ij Effective Date: 30th June 2006 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 1.1 A(1) a) (i) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 1.1 A(1) a) (i) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N	A14NE (E)	683	2	313740 168200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	Integrated Pollution Prevention And Control Name: Barry Silicon Plant Location: Barry Silicon Plant, Dow Corning Ltd, Cardiff Road,, Barry, Vale of Glamorgan, CF63 2yl Authority: Natural Resources Wales Permit Reference: Br9685ix Original Permit Ref: Pp3131zm Effective Date: 3rd October 2016 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 PART A (1) B (III) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 3.1 PART B C) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 4.1 A(1) (A) (I) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 4.1 PART A (1) A (IV) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 4.1 PART A (1) A (VI) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 4.2 PART A (1) A (I) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 4.2 PART A (1) A (II) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 4.2 PART A (1) A (V) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 4.2 A(1) (B) Activity Description: Not Supplied Primary Activity: Y Activity Code: 4.7 PART A (1) B) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 5.1 PART A (1) F) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 5.3 PART A (1) C) (I) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 5.4 PART A (1) A) (I) Activity Description: Not Supplied Primary Activity: Not Supplied Activity Code: 0.0 Associated Process Activity Description: Not Supplied Primary Activity: Not Supplied	A14NE (E)	878	2	313900 168400
49	Integrated Pollution Prevention And Control Name: Barry Silicon Installation Location: Vopak Terminal Windmill Ltd Hayes Road, Sully, Penarth, Vale Of Glamorgan, CF64 5RZ Authority: Natural Resources Wales Permit Reference: Kp3734sh Original Permit Ref: Kp3734sh Effective Date: 31st March 2016 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (B) Activity Description: Not Supplied Primary Activity: Y	A14SE (E)	895	2	313909 167867
50	Local Authority Pollution Prevention and Controls Name: Associated British Ports Location: Dock Offices, No 2 Dock, Barry Docks, BARRY, South Glamorgan, CF63 4US Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: Vog/12 Dated: 1st March 1994 Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorised Positional Accuracy: Located by supplier to within 10m	A13NE (E)	49	4	313102 168125



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	Local Authority Pollution Prevention and Controls Name: Associated British Ports Location: No 2 Dock, Barry Docks, Barry Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: VOG/12 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Permitted Positional Accuracy: Located by supplier to within 10m	A13NE (E)	49	4	313102 168125
51	Local Authority Pollution Prevention and Controls Name: Lafarge Redland Aggregates Limited Location: Berth 4 Atlantic Way, South Side Dock Number 2, Barry Docks, BARRY, South Glamorgan, CF63 Authority: Vale Of Glamorgan 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: Application Not Yet Authorised Positional Accuracy: Located by supplier to within 100m	A8NW (S)	410	4	312907 167552
51	Local Authority Pollution Prevention and Controls Name: Rmc Readymix (South Wales) Ltd Location: 4 Berth Atlantic Way, South Side - Dock No 2, Barry Docks, BARRY, South Glamorgan, CF63 3 Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: Bpha/2 Dated: 1st March 1993 Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8NW (S)	441	4	312905 167521
52	Local Authority Pollution Prevention and Controls Name: W Baker & Son Ltd Location: Coalyard Opposite Atlantic Way, No 2 Dock, BARRY, South Glamorgan, CF63 3RA Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: Not Given Dated: 1st March 1993 Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	510	4	312872 167453
53	Local Authority Pollution Prevention and Controls Name: Hanson Building Material Europe Ltd Location: Atlantic Trading Estate, Wimborne Road, Barry Docks, BARRY, CF63 Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: Vog/4 Dated: 1st April 2004 Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Authorised Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	544	4	313392 167698
54	Local Authority Pollution Prevention and Controls Name: Ab Car Sales Location: Cardiff Road, Barry, Cf63 2qw Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: VOG/WOB/2 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	A18SE (N)	568	4	313188 168744



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Local Authority Pollution Prevention and Controls Name: Hargreaves C/O Maxibrite Ltd Location: Coal Yard, Off Atlantic Way, No2 Dock, Barry, CF63 Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: VOG/Hargreaves/1 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorised Positional Accuracy: Located by supplier to within 10m	A8SE (S)	591	4	312983 167377
56	Local Authority Pollution Prevention and Controls Name: Briscoe Dry Cleaners Location: Cardiff Road Business Park, Barry, Cf63 2qw Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: VOG/42/DCC Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A18SE (NE)	618	4	313294 168752
57	Local Authority Pollution Prevention and Controls Name: Apex Coal Ltd Location: Coal Yard, Off Atlantic Way, No 2 Dock, BARRY, South Glamorgan, CF63 3RA Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: Vog/11 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Authorisation has varied Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	625	4	312905 167337
58	Local Authority Pollution Prevention and Controls Name: Perfections Location: 180 Holton Road, Barry, Cf63 4hn Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: VOG/42/PB Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A12NW (W)	717	4	312202 168227
	Nearest Surface Water Feature	A13SE (SE)	31	-	313015 168039
59	Pollution Incidents to Controlled Waters Property Type: Boats/Ships Location: Barry No 2 Dock, BARRY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Deliberate Act Incident Date: 8th October 1994 Incident Reference: 21358 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	126	3	313100 168000
60	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Not Supplied Incident Date: 29th July 1994 Incident Reference: 20962 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	A13SE (E)	204	3	313200 168000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Atlantic Trading Estate Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Accident Incident Date: 12th April 1997 Incident Reference: 31983 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	516	3	313400 167750
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Roundabout, Near Atlantic Trading Estate Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 11th April 1995 Incident Reference: 23302 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	A14SW (SE)	556	3	313450 167750
62	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lantic, Trading Estate, Barry Docks, BARRY Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 31st January 1995 Incident Reference: 22224 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	A8NE (SE)	610	3	313300 167500
63	Pollution Incidents to Controlled Waters Property Type: Not Given Location: lantic Trading Estate Authority: Environment Agency, Welsh Region Pollutant: Washery Effluent Note: Not Supplied Incident Date: 21st June 1991 Incident Reference: 1253 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	A9NW (SE)	616	3	313400 167600
64	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Jewsons On, Barry Dock Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Silage Liquor Note: Not Supplied Incident Date: 16th July 1991 Incident Reference: 1558 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	A14NE (E)	643	3	313700 168100
65	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ici Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 13th April 1991 Incident Reference: 243 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	A8SE (S)	662	3	313250 167400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Downstream Of Bp Authority: Environment Agency, Welsh Region Pollutant: Industrial Solid Waste Note: Deliberate Act Incident Date: 11th July 1991 Incident Reference: 1550 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	727	3	313200 167300
66	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Weather Incident Date: 27th June 1992 Incident Reference: 4455 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	731	3	313200 167295
66	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Budget Mix Concrete, BARRY Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 21st July 1991 Incident Reference: 674 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	A8SE (S)	772	3	313200 167250
66	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Chemical Works, BARRY Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Paints / Dyes Note: Deliberate; River Cadoxton Incident Date: 9th July 1998 Incident Reference: 36199 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	A8SE (S)	819	3	313200 167200
67	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Bendrick Rock, Barry Docks, BARRY Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Paints / Dyes Note: Deliberate; River Cadoxton Incident Date: 31st July 1998 Incident Reference: 36374 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	A8SE (S)	748	3	313250 167300
67	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Budget Mix, Atlantic Trading Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 27th July 1991 Incident Reference: 1194 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	A8SE (SE)	773	3	313300 167300



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Atlantic Trading Estate Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Paints / Dyes Note: Deliberate; River Cadoxton Incident Date: 9th July 1998 Incident Reference: 36199 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	A8SE (S)	823	3	313200 167195
68	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Paints / Dyes Note: Deliberate; River Cadoxton Incident Date: 9th July 1998 Incident Reference: 36199 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	A8SE (S)	825	3	313205 167195
69	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Barry Docks, BARRY Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th August 1994 Incident Reference: 21253 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	A7SW (SW)	895	3	312300 167300
70	Prosecutions Relating to Authorised Processes Location: Spider Camp, Hayes Road, Atlantic Trading Estate, Barry, CF63 Prosecution Text: Disposing of controlled waste on land without a WML Prosecution Act: Epa90 S33(1)(B) Hearing Date: 12th October 2005 Verdict: Guilty Fine: 24000 Costs: 5550 Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	678	3	313526 167648
71	Prosecutions Relating to Authorised Processes Location: Sully, PENARTH, South Glamorgan, CF64 Prosecution Text: EA News Release 07/05/1998, Releasing of between 5.7 and 8.5 tonnes of VCM (vinyl chloride monomer) into the atmosphere from its sully plant. Breaching the conditions of its authorisation. Prosecution Act: EPA90 Hearing Date: 7th May 1998 Verdict: Guilty Fine: 18000 Costs: 13000 Positional Accuracy: Manually positioned within the geographical locality	A15SW (E)	953	3	314000 168000
72	Prosecutions Relating to Authorised Processes Location: Hayes Lane, Barry, CF64 5SF Prosecution Text: Knowingly Permitting Controlled Waste To Be Deposited At Hayes Lane. Prosecution Act: Epa90 S33 & S34 Hearing Date: 19th February 2002 Verdict: Guilty Fine: 750 Costs: 250 Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	989	3	313763 167447
	River Quality Name: Cadoxton GQA Grade: River Quality C Reach: Tidal Limit - Conf.Cold Bk. Estimated Distance (km): 1.5 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A19SE (NE)	929	3	313919 168499



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 16th August 2015 Incident Reference: 1365049 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Mixed/Waste Oils	A13SE (E)	277	2	313318 168051
73	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 20th August 2015 Incident Reference: 1366325 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Gas And Fuel Oils	A14SW (E)	292	2	313329 168038
74	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 11th August 2015 Incident Reference: 1363382 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 Damage to Buildings, Vehicles and Vegetation	A18NE (NE)	726	2	313313 168863
75	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 1st October 2003 Incident Reference: 193772 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: Asbestos Waste	A9NE (SE)	922	2	313707 167485
76	Water Abstractions Operator: Hargreaves (Uk) Services Limited Licence Number: 21/58/11/0011 Permit Version: 104 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Coal Depot At Barry Docks Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th August 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	754	3	313150 167250
76	Water Abstractions Operator: Hargreaves (Uk) Services Limited Licence Number: 21/58/11/0011 Permit Version: 104 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th August 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	754	3	313150 167250



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Water Abstractions Operator: Hargreaves (Uk) Services Limited Licence Number: 21/58/11/0011 Permit Version: 104 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th August 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	754	3	313150 167250
76	Water Abstractions Operator: Evans & Reid Coal Co Ltd Licence Number: 21/58/11/0011 Permit Version: 103 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Coal Depot At Barry Docks Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	754	3	313150 167250
76	Water Abstractions Operator: Evans & Reid Coal Co Ltd Licence Number: 21/58/11/0011 Permit Version: 103 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	754	3	313150 167250
76	Water Abstractions Operator: Evans & Reid Coal Co Ltd Licence Number: 21/58/11/0011 Permit Version: 103 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	754	3	313150 167250



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Water Abstractions Operator: Evans & Reid Coal Co Ltd Licence Number: 21/58/11/0011 Permit Version: 102 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Coal Depot At Barry Docks Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	789	3	313164 167218
76	Water Abstractions Operator: Evans & Reid Coal Co Ltd Licence Number: 21/58/11/0011 Permit Version: 102 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	789	3	313164 167218
76	Water Abstractions Operator: Evans & Reid Coal Co Ltd Licence Number: 21/58/11/0011 Permit Version: 102 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	789	3	313164 167218
76	Water Abstractions Operator: Apex Coal Ltd Licence Number: 21/58/11/0011 Permit Version: 101 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Coal Depot At Barry Docks Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	789	3	313164 167218



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Water Abstractions Operator: Apex Coal Ltd Licence Number: 21/58/11/0011 Permit Version: 101 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	789	3	313164 167218
76	Water Abstractions Operator: Apex Coal Ltd Licence Number: 21/58/11/0011 Permit Version: 101 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	789	3	313164 167218
76	Water Abstractions Operator: Partners For The Time Being Of W Baker & Sons (Barry) Ltd Licence Number: 21/58/11/0011 Permit Version: 100 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Cadoxton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th April 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	789	3	313164 167218
76	Water Abstractions Operator: Partners For The Time Being Of W Baker & Sons (Barry) Ltd Licence Number: 21/58/11/0011 Permit Version: 100 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Tidal 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: 24th April 1996 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	A8SE (S)	794	3	313164 167213



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Water Abstractions Operator: Partners For The Time Being Of W Baker & Sons (Barry) Ltd Licence Number: 21/58/11/0011 Permit Version: 100 Location: Cadoxton River At Barry Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal 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: 24th April 1996 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	A8SE (S)	796	3	313169 167213
	Water Abstractions Operator: Dow Corning Ltd Licence Number: 21/58/11/0003 Permit Version: 100 Location: River Cadoxton At Dow Corning Authority: Environment Agency, Welsh Region Abstraction: Chemicals: General Use (High Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: R.Cadoxton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th September 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1158	3	314190 168395
	Water Abstractions Operator: Dow Corning Ltd Licence Number: 21/58/11/0003 Permit Version: 101 Location: River Cadoxton At Dow Corning Authority: Environment Agency, Welsh Region Abstraction: Chemicals: General Use (High Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Dow Corning Barry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NW (E)	1159	3	314190 168400
	Water Abstractions Operator: Dow Corning Ltd Licence Number: 21/58/11/0003 Permit Version: 102 Location: River Cadoxton At Dow Corning Authority: Natural Resources Wales Abstraction: Chemicals: General Use (High Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Dow Corning Barry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th July 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NW (E)	1159	2	314190 168400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Dow Corning Ltd Licence Number: 21/58/11/0003 Permit Version: 100 Location: River Cadoxton At Dow Corning Authority: Environment Agency, Welsh Region Abstraction: Chemicals: 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: R.Cadoxton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th September 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1159	3	314190 168400
	Water Abstractions Operator: Dow Corning Ltd Licence Number: 21/58/11/0003 Permit Version: 100 Location: River Cadoxton At Dow Corning Authority: Environment Agency, Welsh Region Abstraction: Chemicals: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Cadoxton At Dow Corning Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th September 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1163	3	314195 168395
	Water Abstractions Operator: Dow Corning Ltd Licence Number: 21/58/11/0003 Permit Version: 100 Location: River Cadoxton At Dow Corning Authority: Environment Agency, Welsh Region Abstraction: Chemicals: 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 Cadoxton At Dow Corning Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th September 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1164	3	314195 168400
	Water Abstractions Operator: The Vale Of Glamorgan Council Licence Number: Wa/058/0011/004 Permit Version: 1 Location: Un-Named Tributary Of The Cold Brook Authority: Natural Resources Wales Abstraction: Environmental: Other Environmental Improvements: Transfer Between Sources (Pre Water Act 2003) 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 April Authorised End: 31 March Permit Start Date: 27th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SE (NW)	1513	2	311931 169271



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Vale Of Glamorgan Council Licence Number: Wa/058/0011/004 Permit Version: 1 Location: Un-Named Tributary Of The Cold Brook Authority: Natural Resources Wales Abstraction: Environmental: Transfer between sources 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: 04 January Authorised End: 03 July Permit Start Date: 27th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SE (NW)	1513	2	311931 169271
	Water Abstractions Operator: Hyper Value Holdings Limited Licence Number: 21/58/31/0031 Permit Version: 1 Location: Borehole At Barry Island Pleasure Park Authority: Environment Agency, Welsh Region Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barry Island Pleasure Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SW (SW)	1856	3	311620 166620
	Water Abstractions Operator: Hyper Value Holdings Limited Licence Number: 21/58/31/0030 Permit Version: 100 Location: Borehole At Barry Island Pleasure Park Authority: Environment Agency, Welsh Region Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Borehole - Max Depth 60 M & Dia. 150 Mm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SW (SW)	1856	3	311620 166620
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 36 Mid Glamorgan Scale: 1:100,000	A13NW (SE)	0	3	312966 168085
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13NW (SE)	0	1	312966 168085
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (SE)	0	1	312966 168085
77	Source Protection Zones Name: Biglis Wells Source: Natural Resources Wales Reference: We073 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A18SW (N)	333	2	312884 168522
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (S)	0	2	312966 168004



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/Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	12	2	313016 168043
	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	A13SE (SE)	18	2	313013 168065
	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 (S)	20	2	312915 167945
	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 (S)	28	2	312980 168010
	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	A13SE (S)	32	2	312989 168018
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	33	2	312987 168013
	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	A13SE (SE)	33	2	312996 168023
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	34	2	312997 168023
	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	A13SE (S)	34	2	312986 168012
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	35	2	312986 168010
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	35	2	312995 168019
	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	A13NE (E)	47	2	313084 168103
	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	A13SE (E)	48	2	313063 168082
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (E)	50	2	313066 168083
	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	A13NE (E)	51	2	313070 168085
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	51	2	313074 168086



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: Tidal Models Boundary Accuracy: As Supplied	A13SE (E)	51	2	313064 168079
	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	A13NE (E)	52	2	313079 168094
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	52	2	313082 168093
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	53	2	313099 168113
	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	A13NE (E)	54	2	313106 168120
	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	A13NE (E)	54	2	313108 168124
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	54	2	313104 168116
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	54	2	313106 168121
	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	A13NE (E)	56	2	313103 168114
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	56	2	313103 168114
	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	A13NE (E)	56	2	313104 168114
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	59	2	313116 168133
	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	A13NE (E)	59	2	313117 168133
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	66	2	313124 168139
	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	A13NE (E)	66	2	313125 168139
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	120	2	313177 168173



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: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	121	2	313180 168156
	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	A13NE (E)	126	2	313184 168165
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	127	2	313115 168274
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	133	2	313105 168295
	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	A13NE (E)	136	2	313195 168154
	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	A13NE (NE)	137	2	313113 168291
	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	A13NE (NE)	138	2	313115 168290
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (N)	139	2	312995 168344
	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	A13NE (NE)	139	2	313116 168291
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	142	2	313201 168153
	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	A13NE (E)	145	2	313204 168147
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	154	2	313212 168127
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	154	2	313213 168142
	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	A13NE (E)	155	2	313214 168135
	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	A13NE (NE)	156	2	313104 168327
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	157	2	313095 168334



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: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	157	2	313104 168328
	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	A13NE (E)	157	2	313215 168126
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	158	2	313215 168125
	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	A13NE (E)	158	2	313216 168125
	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	A13NE (NE)	159	2	313105 168329
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	162	2	313134 167964
	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	A13NE (NE)	164	2	313156 168284
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	165	2	313157 168284
	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	A13NE (NE)	171	2	313095 168352
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	175	2	313094 168357
	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	A13NE (NE)	179	2	313096 168360
	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	A13NE (NE)	180	2	313092 168364
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	181	2	313096 168362
	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	A13NE (NE)	184	2	313176 168293
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	186	2	313177 168294
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	192	2	313224 168245



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)	198	2	312815 167784
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	201	2	312816 167780
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	202	2	313011 167793
	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	A13SE (S)	204	2	313016 167793
	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	A13SE (S)	204	2	313017 167794
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	204	2	313016 167794
	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)	207	2	312814 167775
	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	A13SE (S)	207	2	313007 167784
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	208	2	312814 167774
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	210	2	312998 167776
	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	A13SE (S)	211	2	312997 167774
	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)	211	2	312807 167774
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	218	2	312994 167765
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (S)	231	2	312974 167743
	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	A8NW (S)	231	2	312977 167744
	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	A8NW (S)	237	2	312967 167734



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: Tidal Models Boundary Accuracy: As Supplied	A8NW (S)	240	2	312965 167731
	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	A18SE (N)	248	2	313036 168452
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A18SE (N)	249	2	313025 168454
	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 (SE)	12	2	313013 168065
	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)	49	2	312935 167914
	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)	78	2	312895 167884
	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)	111	2	312866 167858
	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)	119	2	312855 167854
	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)	121	2	312849 167854
	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	312845 167849
	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)	127	2	312844 167849
	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	A13NE (NE)	133	2	313125 168274
	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)	133	2	312842 167844
	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)	142	2	312834 167838
	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)	170	2	312819 167814
	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	312816 167804



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	A13SE (S)	192	2	313034 167824
	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)	193	2	313024 167814
	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)	194	2	313027 167814
	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)	196	2	313017 167804
	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	312815 167784
	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)	201	2	312816 167780
	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)	202	2	312806 167785
	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)	202	2	313011 167793
	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)	207	2	313007 167784
	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)	207	2	312814 167775
	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	312814 167774
	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	312795 167784
	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)	210	2	312998 167776
	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)	211	2	312997 167774
	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	312807 167774
	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	312786 167773



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)	224	2	312786 167770
	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)	224	2	312984 167755
	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)	225	2	312785 167770
	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)	226	2	312785 167769
	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)	227	2	312784 167768
	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	A8NW (S)	231	2	312977 167744
	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	A8NW (S)	231	2	312974 167743
	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)	232	2	312783 167764
	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)	234	2	312778 167764
	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)	235	2	312777 167763
	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	A8NW (S)	237	2	312967 167734
	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)	238	2	312776 167760
	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)	238	2	312776 167761
	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	A8NW (S)	240	2	312965 167731
	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)	243	2	312774 167756
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NE (NE)	133	2	313125 168274
	Flood Water Storage Areas None				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences None				
78	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 590.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dock Number 2 Catchment Name: Thaw Cadoxton Primacy: 1	A13SE (SE)	124	5	313088 167987
79	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 90.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dock Number 2 Catchment Name: Thaw Cadoxton Primacy: 1	A8NW (SW)	284	5	312784 167704
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NW (SW)	285	5	312758 167716
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A13SW (SW)	290	5	312688 167767
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A13SW (SW)	290	5	312688 167767
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A13SW (SW)	290	5	312667 167791
84	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 436.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dock Number 2 Catchment Name: Thaw Cadoxton Primacy: 1	A8NW (S)	292	5	312839 167678
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A18SE (NE)	363	5	313220 168498
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A19SW (NE)	450	5	313374 168469



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A18SE (N)	450	5	313028 168655
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 327.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (SE)	540	5	313458 167769
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (SE)	549	5	313449 167760
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (SE)	551	5	313458 167769
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 245.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A9NW (SE)	556	5	313446 167744
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (SE)	558	5	313455 167753
93	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: Thaw Cadoxton Primacy: 1	A9NW (SE)	579	5	313320 167562
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A9NW (SE)	586	5	313321 167553
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A9NW (SE)	589	5	313322 167550



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	611	5	313267 167473
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	616	5	313262 167462
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	623	5	313260 167454
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	623	5	313260 167454
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	625	5	313271 167458
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SE (E)	626	5	313670 168011
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 461.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A14SE (E)	626	5	313670 168011
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	627	5	313269 167454
104	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: Thaw Cadoxton Primacy: 1	A14SE (E)	633	5	313676 168006



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8SE (S)	640	5	313216 167405
106	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 510.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A8SE (S)	657	5	313222 167388
107	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 53.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7SE (SW)	699	5	312525 167374
108	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 259.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dock Number 1 Catchment Name: Thaw Cadoxton Primacy: 1	A7SE (SW)	743	5	312476 167353
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A19SE (NE)	826	5	313817 168477
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A19SE (E)	828	5	313834 168441
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A19SE (E)	830	5	313842 168425
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14NE (E)	837	5	313890 168248
113	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Spill Pond Catchment Name: Thaw Cadoxton Primacy: 1	A14NE (E)	876	5	313901 168391



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14NE (E)	908	5	313933 168395
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A19SE (E)	946	5	313953 168460
116	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 108.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dock Number 1 Catchment Name: Thaw Cadoxton Primacy: 2	A7SW (SW)	980	5	312245 167235
117	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 67.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dock Number 1 Catchment Name: Thaw Cadoxton Primacy: 1	A7SW (SW)	980	5	312245 167235
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A15NW (E)	992	5	314041 168286
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A15NW (E)	993	5	314043 168282
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cadoxton River Catchment Name: Thaw Cadoxton Primacy: 1	A15NW (E)	999	5	314048 168288



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Historical Landfill Sites Licence Holder: Dow Corning Limited Location: Wimbourne Road, Barry, South Glamorgan Name: Barry Factory Salt Water Pond Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14913 First Input Date: 31st December 1972 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Household and Special Waste, and Type: Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0011 BGS Ref: Not Supplied Other Ref: 22A	A13NE (NE)	182	2	313205 168257
122	Historical Landfill Sites Licence Holder: Not Supplied Location: Barry Dock No 2, Wimbourne Road, Barry, South Glamorgan Name: Atlantic Trading Estate Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14491 First Input Date: 31st December 1993 Last Input Date: 30th April 1996 Specified Waste: Deposited Waste included Inert, Industrial, Household and Special Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0006 BGS Ref: Not Supplied Other Ref: 6950/0060	A13SE (SE)	391	2	313292 167816
123	Historical Landfill Sites Licence Holder: F J H Brackett Location: Atlantic Trading Estate, Wimbourne Road, Barry, South Glamorgan Name: Barry Dock No.1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14907 First Input Date: 31st December 1944 Last Input Date: 31st July 1981 Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0005 BGS Ref: Not Supplied Other Ref: 6, 6950/0025	A13SE (SE)	391	2	313292 167816
124	Historical Landfill Sites Licence Holder: Dow Corning Limited Location: Wimbourne Road, Barry, South Glamorgan Name: Barry Factory Ponds A, B and C Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14912 First Input Date: 31st December 1977 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0010 BGS Ref: Not Supplied Other Ref: 9	A14NW (NE)	511	2	313526 168357
125	Historical Landfill Sites Licence Holder: BP Chemicals Limited Location: Atlantic Trading Estate, Atlantic Crescent, Barry, South Glamorgan Name: Barry Docks Area A Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14908 First Input Date: 31st December 1945 Last Input Date: 31st December 1994 Specified Waste: Deposited Waste included Industrial and Special Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0007 BGS Ref: Not Supplied Other Ref: 4	A8NE (S)	547	2	313052 167436



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	Historical Landfill Sites Licence Holder: BP Chemicals Limited Location: Atlantic Trading Estate, Atlantic Crescent, Barry, South Glamorgan Name: Barry Docks Area A and B Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14909 First Input Date: 31st December 1945 Last Input Date: 31st December 1994 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0008 BGS Ref: Not Supplied Other Ref: 16	A8NE (S)	547	2	313052 167436
127	Historical Landfill Sites Licence Holder: Associated British Ports Location: Off Cory Way, Barry, Vale Of Glamorgan Name: Barry Graving Dock Operator Location: 150 Holborn, London Boundary Accuracy: As Supplied Provider Reference: EAHLD14914 First Input Date: 1st January 1996 Last Input Date: 30th November 1996 Specified Waste: Deposited Waste included Industrial, Household and Special Waste Type: Special Waste EA Waste Ref: 30147 Regis Ref: WU1/L/ASS001 WRC Ref: 6950/0012 BGS Ref: Not Supplied Other Ref: 61	A7NE (SW)	598	2	312405 167629
128	Historical Landfill Sites Licence Holder: BP Chemicals Limited Location: Atlantic Trading Estate, Atlantic Crescent, Barry, South Glamorgan Name: Barry Docks Area B Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14911 First Input Date: 31st December 1945 Last Input Date: 31st December 1994 Specified Waste: Deposited Waste included Industrial Waste Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0009 BGS Ref: Not Supplied Other Ref: 8	A8SW (S)	877	2	312683 167113
129	Licensed Waste Management Facilities (Landfill Boundaries) Name: Dow Corning Ltd Licence Number: 30043 Location: Dow Corning Landfill, Cardiff Road, Barry, Glamorgan, CF63 2YL Licence Holder: Dow Corning Ltd Authority: Natural Resources Wales Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Issued Issued: 9th April 1991 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13NE (NE)	282	2	313265 168340
130	Licensed Waste Management Facilities (Landfill Boundaries) Name: Graving Dock Licence Number: 30147 Location: Graving Docks Landfill, 1 & 2 Dock, Off Cory Way, Barry Docks, Barry, Vale Of Glam, CF1 7QB Licence Holder: Associated British Ports Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Inactive Issued: 11th October 1994 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A7NE (SW)	588	2	312407 167646



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	Licensed Waste Management Facilities (Landfill Boundaries) Name: Not Supplied Licence Number: 30147 Location: Not Supplied Licence Holder: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Max Input Rate: Not Supplied Licence Status: Inactive Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A7NE (SW)	588	2	312407 167646
132	Licensed Waste Management Facilities (Locations) Licence Number: 100571 Location: Berth 31, Wimbourne Road, Barry Dock, Barry, Glamorgan, CF63 3DH Operator Name: Sims Group U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Surrendered Issued: 11th October 2010 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 7th February 2014 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	99	2	313090 168260
132	Licensed Waste Management Facilities (Locations) Licence Number: 900177 Location: Wimborne Rd, Barry, CF63 4DH Operator Name: Raymond Brown Minerals And Recycling Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Use of waste in construction <50,000 tps Licence Status: Issued Issued: 28th July 2015 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	115	2	313116 168256
133	Licensed Waste Management Facilities (Locations) Licence Number: 30354 Location: Atlantic Salvage Company, 22 Atlantic Business Park , Barry Docks, Barry, CF63 3RF Operator Name: Comerford David John Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: End of Life Vehicles Licence Status: Issued Issued: 29th September 2005 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 (SE)	389	2	313180 167691
134	Licensed Waste Management Facilities (Locations) Licence Number: 30362 Location: Sub Unit 1, 19 Atlantic Crescent , Barry Docks, Barry, CF63 3RG Operator Name: Levics Len Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: End of Life Vehicles Licence Status: Issued Issued: 14th June 2005 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)	518	2	313114 167490



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	Licensed Waste Management Facilities (Locations) Licence Number: 30376 Location: Dow Corning Waste Transfer Station, Cardiff Road, Barry, CF63 2YL Operator Name: Dow Corning Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Material Recycling Treatment Facilities Licence Status: Issued Issued: 29th December 2005 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	A14NW (E)	536	2	313595 168171
136	Licensed Waste Management Facilities (Locations) Licence Number: 400205 Location: Unit 7, Cardiff Road, Barry, CF63 2QW Operator Name: S B S Salvage Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Vehicle Depollution Facility <5000 tps Licence Status: Issued Issued: 20th August 2013 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	A18SE (NE)	549	2	313293 168673
137	Licensed Waste Management Facilities (Locations) Licence Number: 30043 Location: Dow Corning Landfill, Cardiff Road, Barry, CF63 2YL Operator Name: Dow Corning Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Industrial Waste Landfills Licence Status: Issued Issued: 9th April 1991 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	A19SW (NE)	601	2	313530 168521
138	Licensed Waste Management Facilities (Locations) Licence Number: 30147 Location: 1 & 2 Dock Off Cory Way, Barry Docks, Barry, Glamorgan, CF1 7QB Operator Name: Associated British Ports Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Surrendered Issued: 11th October 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 16th January 2006 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	721	2	312329 167525
139	Licensed Waste Management Facilities (Locations) Licence Number: 30372 Location: Unit 14e, Atlantic Trading Estate, Barry, CF63 3RF Operator Name: Andrew Brown & Lee Walter Peacock Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: End of Life Vehicles Licence Status: Issued Issued: 26th January 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	A8SE (S)	749	2	313183 167268



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Licensed Waste Management Facilities (Locations) Licence Number: AB3296HT Location: Unit 12F, Atlantic Trading Estate, Barry, Vale of Glamorgan, CF63 3RF Operator Name: Install Waste management Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 15th November 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	A9SW (SE)	759	2	313323 167331
141	Licensed Waste Management Facilities (Locations) Licence Number: 30076 Location: Court Road C A Site, Court Road, Barry, CF63 1ET Operator Name: Vale Of Glamorgan Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household Waste Amenity Sites Licence Status: Transferred Issued: 22nd December 1992 Last Modified: 29th March 1999 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	867	2	312290 168702
142	Licensed Waste Management Facilities (Locations) Licence Number: UP3395VQ Location: Atlantic H W R C, Atlantic H W R C, Barry, South Glamorgan, Vale of Glamorgan, CF63 3RF Operator Name: FCC Waste Services (UK) Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 15th June 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	A9SW (SE)	896	2	313443 167249
142	Licensed Waste Management Facilities (Locations) Licence Number: 102487 Location: Plot 6, Atlantic Trading Estate, Barry, CF63 3RF Operator Name: Biffa Waste Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household Waste Amenity Sites Licence Status: Issued Issued: 6th July 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	A9SW (SE)	896	2	313443 167249
	Local Authority Landfill Coverage Name: Vale Of Glamorgan County Borough Council - Has supplied landfill data		0	6	312966 168085
143	Local Authority Recorded Landfill Sites Location: West Of St Andrews Cottage, St Donats Reference: 6 Authority: Vale Of Glamorgan County Borough Council Last Reported Status: Unknown Types of Waste: Building Hardcore, Domestic Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A13SE (SE)	381	6	313294 167834



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	Local Authority Recorded Landfill Sites Location: West Of St Andrews Cottage, St Donats Reference: 17 Authority: Vale Of Glamorgan County Borough Council Last Reported Status: Unknown Types of Waste: Building Hardcore, Domestic Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A13SE (SE)	381	6	313294 167834
145	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 61 Authority: Vale Of Glamorgan County Borough Council Last Reported Status: Not Supplied Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Applicable	A7NW (SW)	759	6	312300 167500
146	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 16 Authority: Vale Of Glamorgan County Borough Council Last Reported Status: Not Supplied Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Applicable	A8SW (S)	762	6	312900 167200
147	Local Authority Recorded Landfill Sites Location: Unit 9 Atlantic Trading Estate, Barry, Cf6 6rf Reference: L17 Authority: Vale Of Glamorgan County Borough Council Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9NW (SE)	766	6	313458 167437
148	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 9 Authority: Vale Of Glamorgan County Borough Council Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A19SE (NE)	800	6	313737 168573



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	Registered Landfill Sites Licence Holder: Dow Corning Ltd Licence Reference: 38 Site Location: Dow Corning Factory, East No 2 Dock, Barry, South Glamorgan Licence Easting: 313400 Licence Northing: 168300 Operator Location: Cardiff Road, BARRY, South Glamorgan, CF6 7YL Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Operational as far as is knownOperational Dated: 9th April 1991 Preceded By: 22/A WAS 9 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Calcium Sulphate Filter Cake Carbon Filter / Molecular Sieve Kieselguhr Limestone Max.Waste Permitted By Licence Silicon Gel Spent Silicon Prohibited Waste: Flammable Liquids Including Petrol Percussive/Explosive/Similar Waste Special Wastes Sub'S Control. Radioactive Subs Act'60 Substances As Per Dir. 76/464/EC	A14NW (NE)	373	3	313400 168300
150	Registered Landfill Sites Licence Holder: Penarth Commercial Properties Ltd Licence Reference: 17 (Was 6) Site Location: Atlantic Trading Estate, Barry Dock, Barry, South Glamorgan Licence Easting: 313300 Licence Northing: 167700 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Glass Office Rubbish Packaging Materials Rubble,Hardcore,Concrete Soil Timber Waste	A8NE (SE)	476	3	313300 167700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	Registered Landfill Sites Licence Holder: Associated British Ports Ltd Licence Reference: 61 Site Location: Graving Docks 1 & 2 And Barry No.1 Dock, Off Cory Way, Barry, South Glamorgan Licence Easting: 312300 Licence Northing: 167500 Operator Location: 150 Holborn, LONDON, Greater London, EC1N 2LR Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Site Closed Dated: 11th October 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Contaminated Soil Max.Waste Permitted By Licence Prohibited Waste: Liquid Wastes Pcbs At > 20 Ppm Percussive/Explosive/Similar Waste Special Wastes Sub'S Control. Radioactive Subs Act'60 Waste N.O.S. Wastes With Ph < 5	A7NW (SW)	759	3	312300 167500
152	Registered Landfill Sites Licence Holder: Dow Corning Ltd Licence Reference: 22/A WAS 9 Site Location: Dow Corning Factory, East 2 Dock, Barry, South Glamorgan Licence Easting: 313740 Licence Northing: 168570 Operator Location: Cardiff Road, BARRY, South Glamorgan, CF6 7YL Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Record supersededSuperseded Dated: 1st December 1980 Preceded By: Not Given Licence: Superseded By: 38 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Gellspent Silicon Inert Calcium Sulphate Water Treatment Wastes	A19SE (NE)	801	3	313740 168570
153	Registered Landfill Sites Licence Holder: Bp. Chemicals Ltd Licence Reference: 16 Site Location: Barry Docks, Barry, South Glamorgan Licence Easting: 312800 Licence Northing: 167100 Operator Location: Sully, PENARTH, South Glamorgan, CF6 2YU Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1985 Preceded By: 16 WAS 4; 8 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Ind. Non-Haz. Non-Toxic Waste Prohibited Waste: Industrial Wastes Special Wastes	A8SW (S)	868	3	312800 167100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	Registered Landfill Sites Licence Holder: Bp. Chemicals Ltd Licence Reference: 16 WAS 4; 8 Site Location: Barry Docks, Barry, South Glamorgan Licence Easting: 312800 Licence Northing: 167100 Operator Location: Sully, PENARTH, South Glamorgan, CF6 2YU Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st March 1979 Preceded By: Not Given Licence: Superseded By: 16 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Insulation Ind. Non-Notifiable Waste Latex Nitrile Nitrile Rubber Non-Haz, Non-Toxic Controlled Waste Pvc Pvc As Powder Compound	A8SW (S)	868	3	312800 167100
154	Registered Waste Transfer Sites Licence Holder: Ecovert Ltd Licence Reference: 47 Site Location: Court Road Depot, Court Road, Barry, South Glamorgan Operator Location: South Wales Area Office, Unit 8 Bridgend Business Centre, Bennett Street, BRIDGEND, Mid Glamorgan, CF31 3XJ Authority: Environment Agency Wales, South East Area Site Category: Civic Amenity Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 22nd December 1992 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: Asbestos Construction Wastes Household Waste Recycled Glass Recycled Metal Recycled Oil Recycled Paper Recycled Textiles Refrigerators Prohibited Waste: Flammable Liquids/Petroleum Percussive/Explosive/Similar Waste Special Wastes Sub'S Control. Radioactive Subs Act'60	A17SW (NW)	908	3	312260 168730



Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	Control of Major Accident Hazards Sites (COMAH) Name: Navigator Terminals Windmill Limited Location: Windmill Site, Vopak Terminal Windmill Ltd, Hayes Road, Penarth, Vale Of Glamorgan, CF64 5RZ Reference: Not Supplied Type: Upper Tier Status: Active Positional Accuracy: Manually positioned to the address or location	A14SE (E)	895	7	313909 167868
156	Planning Hazardous Substance Consents Name: Dow Corning Limited Location: Cardiff Road, Barry, Cf63 2yl Authority: Vale Of Glamorgan County Borough Council, Planning Department Application Ref: 2010/01146/HAZ Hazardous Substance: Combination of Dangerous Substances Maximum Quantity: 1850 Application date: 19th October 2010 Decision: Deemed Consent GrantedGranted Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	770	8	313751 168486
157	Planning Hazardous Substance Consents Name: Dow Corning Ltd Location: Cardiff Road, BARRY, South Glamorgan, CF63 2YL Authority: Vale Of Glamorgan County Borough Council, Planning Department Application Ref: 1993/00910/HAZ Hazardous Substance: Unknown at time of report Maximum Quantity: 2400 Application date: 2nd September 1993 Decision: Deemed Consent GrantedGranted Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	893	8	313880 168500
158	Planning Hazardous Substance Consents Name: Dow Corning Limited Location: Cardiff Road, Barry, Vale Of Glamorgan Authority: Vale Of Glamorgan County Borough Council, Planning Department Application Ref: 14/01180/HAZ Hazardous Substance: Combination of Dangerous Substances Maximum Quantity: 0 Application date: Not Supplied Decision: Deemed Consent GrantedGranted Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	914	8	313872 168566



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13NW (SE)	0	1	312966 168085
159	BGS Recorded Mineral Sites Site Name: Woodham Road Railway Embankment Location: Cardiff, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 6084 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Not Available Geology: Aggregates For Recycling Commodity: Secondary Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	541	1	312500 167600
160	BGS Recorded Mineral Sites Site Name: Coed Yr Hayes Location: Sully, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161268 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	669	1	313587 167737
161	BGS Recorded Mineral Sites Site Name: Barry Wharf Location: Atlantic Way, Barry, South Glamorgan, Cf63 3ra Source: British Geological Survey, National Geoscience Information Service Reference: 10851 Type: Wharf Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 10m	A8SW (S)	680	1	312750 167300
162	BGS Recorded Mineral Sites Site Name: St Mary'S Location: Holton Road, Barry Dock, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 66910 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Triassic Geology: St Mary'S Well Bay Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	880	1	312055 168315
163	BGS Recorded Mineral Sites Site Name: Church Road Location: Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161223 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Friars Point Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A23SW (N)	947	1	312825 169135



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	BGS Recorded Mineral Sites Site Name: Victoria Park Location: Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161224 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Friars Point Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A23SW (N)	956	1	312978 169161
165	BGS Recorded Mineral Sites Site Name: Robins Lane Location: Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161222 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A22SE (N)	974	1	312624 169102
166	BGS Recorded Mineral Sites Site Name: Barry Wharf Location: Berth 8-9, No 1 Dockatlantic Way, Barry, South Glamorgan, Cf63 3ra Source: British Geological Survey, National Geoscience Information Service Reference: 10852 Type: Wharf Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 10m	A3NW (S)	979	1	312750 166995
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	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	A13NW (SE)	0	1	312966 168085
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	99	1	312825 168151
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	312966 168085
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	73	1	313046 168014
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	99	1	312825 168151
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	150	1	313156 168264
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	312966 168085
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	312966 168085
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	113	1	313144 168001



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	240	1	313298 168118
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	312966 168085
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	73	1	313046 168014
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	99	1	312825 168151
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	150	1	313156 168264
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	312966 168085
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	227	1	313020 167769
	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	A13NW (SE)	0	1	312966 168085
	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	A13NW (SE)	0	1	312966 168085



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	Contemporary Trade Directory Entries Name: Harris Pye Uk Ltd Location: David Davies Road, Barry, South Glamorgan, CF63 4AB Classification: Marine Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	103	-	312805 167928
168	Contemporary Trade Directory Entries Name: S & K Haulage Glamorgan Ltd Location: David Davies Road, Barry, South Glamorgan, CF63 4AB Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	186	-	312770 167832
168	Contemporary Trade Directory Entries Name: S & K Haulage (Glamorgan) Ltd Location: David Davies Road, Barry, South Glamorgan, CF63 4AB Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	186	-	312770 167832
168	Contemporary Trade Directory Entries Name: Vaughan Transport Systems Ltd Location: Dock 2, David Davies Road, Barry, CF63 4AB Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	217	-	312730 167830
168	Contemporary Trade Directory Entries Name: S & K Haulage Ltd Location: Dock 2, David Davies Road, Barry, CF63 4AB Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	217	-	312730 167830
169	Contemporary Trade Directory Entries Name: Soltherm E W I Wales Ltd Location: 2 Dock, Viaduct Road, Barry, South Glamorgan, CF63 4JB Classification: Distribution Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	256	-	312679 167837
169	Contemporary Trade Directory Entries Name: Fraiser Metals Location: 3 Viaduct Rd, Barry, South Glamorgan, CF63 4JB Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	257	-	312679 167835
170	Contemporary Trade Directory Entries Name: Scott Packaging Ltd Location: Atlantic Buildings, Atlantic Crescent, Barry, South Glamorgan, CF63 3RG Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	279	-	313123 167793
170	Contemporary Trade Directory Entries Name: Ocean Engineering Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	281	-	313110 167774
171	Contemporary Trade Directory Entries Name: John T Evans Haulage Ltd Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	304	-	313337 168023
172	Contemporary Trade Directory Entries Name: Valevac Location: Viaduct Road, Barry, South Glamorgan, CF63 4JB Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SE (SW)	306	-	312613 167862
172	Contemporary Trade Directory Entries Name: Bruno Timber Products Location: Viaduct Road, BARRY, South Glamorgan, CF63 4JB Classification: Fencing Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	306	-	312613 167862



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	Contemporary Trade Directory Entries Name: E C Wood & Co (Engineers) Ltd Location: Viaduct Road, Barry, South Glamorgan, CF63 4JB Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	306	-	312613 167862
173	Contemporary Trade Directory Entries Name: Jewson Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	325	-	313234 167851
173	Contemporary Trade Directory Entries Name: R & N Spraying Location: 11 Wimbourne Buildings, Atlantic Way, Barry, CF63 3RA Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	338	-	313213 167809
173	Contemporary Trade Directory Entries Name: Dragon Windscreens Location: Unit 12, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Window Tinting Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	339	-	313223 167819
173	Contemporary Trade Directory Entries Name: John Clissold Location: Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	339	-	313223 167819
173	Contemporary Trade Directory Entries Name: Q Ball Powder Coatings Ltd Location: Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Powder Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	339	-	313223 167819
173	Contemporary Trade Directory Entries Name: Wardle Painters Location: Unit 5, Wimbourne Buildings, Atlantic Way, Barry, CF63 3RA Classification: Spraying - Paint & Coatings Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	340	-	313206 167798
173	Contemporary Trade Directory Entries Name: Baymarine Services Ltd Location: Rear of 9 Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Coating Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	340	-	313197 167789
173	Contemporary Trade Directory Entries Name: Extotquip Refrigeration Location: 10, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	344	-	313209 167797
173	Contemporary Trade Directory Entries Name: Expoquip Refrigeration Location: 10, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	344	-	313209 167797
174	Contemporary Trade Directory Entries Name: Alembic Ltd Location: Unit 6, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Chemical Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	341	-	313176 167760



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	Contemporary Trade Directory Entries Name: Alembic Ltd Location: Unit 6, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Chemical Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	341	-	313176 167760
174	Contemporary Trade Directory Entries Name: Mice Glass Location: Unit 6, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	341	-	313176 167760
174	Contemporary Trade Directory Entries Name: Woodland Garden Products Ltd Location: Unit 4, Wimbourne Buildings, Atlantic Way, Barry, CF63 3RA Classification: Fencing Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	342	-	313161 167740
174	Contemporary Trade Directory Entries Name: Atlantic Salvage Location: Atlantic Salvage, Unit 22, Atlantic Trading Estate, Barry, CF63 3RF Classification: Car Breakers & Dismantlers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	389	-	313206 167720
175	Contemporary Trade Directory Entries Name: Atlantic Cladding Location: 8 Wimbourne Buildings, Atlantic Way, Barry, CF63 3RA Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	343	-	313191 167777
175	Contemporary Trade Directory Entries Name: S M Motors Location: Unit 9, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	343	-	313192 167777
176	Contemporary Trade Directory Entries Name: Frazer Metals Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8NE (SE)	344	-	313138 167712
176	Contemporary Trade Directory Entries Name: Gavan Products Location: 2, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	345	-	313148 167720
176	Contemporary Trade Directory Entries Name: Limbtrim Ltd Location: 2, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	345	-	313148 167720
176	Contemporary Trade Directory Entries Name: Gavan Products Location: 2, Wimbourne Buildings, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	345	-	313148 167720
176	Contemporary Trade Directory Entries Name: S & S Motors Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	346	-	313114 167689



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	Contemporary Trade Directory Entries Name: Groupe Samat Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	346	-	313114 167689
176	Contemporary Trade Directory Entries Name: Barry Auto Engineering Ltd Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	346	-	313114 167689
176	Contemporary Trade Directory Entries Name: Brt International Location: Unit F, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	346	-	313114 167689
177	Contemporary Trade Directory Entries Name: A F C Location: Wimborne Rd, Barry, South Glamorgan, CF63 3DH Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SW (SE)	383	-	313319 167866
178	Contemporary Trade Directory Entries Name: M D H Tanker Cleaning Services Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Tank Cleaning & Repairing Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	404	-	312954 167562
179	Contemporary Trade Directory Entries Name: Jewelleryaddicts Location: 48, Jewel Street, Barry, South Glamorgan, CF63 3NR Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	455	-	312454 168145
180	Contemporary Trade Directory Entries Name: Classic Joinery Location: Rear of Castle Hotel, Jewel Street, Barry, CF63 3NQ Classification: Joinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	456	-	312469 168222
180	Contemporary Trade Directory Entries Name: Platinum Contract Cleaners Ltd Location: 3, Lower Morel Street, Barry, CF63 4PJ Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	491	-	312432 168221
181	Contemporary Trade Directory Entries Name: Ironed Out Location: 2a, Jewel Street, Barry, South Glamorgan, CF63 3NQ Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	457	-	312531 168351
181	Contemporary Trade Directory Entries Name: Barry Tyre Centre Ltd Location: Barry Tyre Centre, 276-280, Holton Road, Barry, CF63 4HU Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	465	-	312540 168376
181	Contemporary Trade Directory Entries Name: Cymraeg 4x4 Tyres & Wheels Direct Ltd Location: 276-280, Holton Road, Barry, South Glamorgan, CF63 4HU Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	465	-	312540 168376
181	Contemporary Trade Directory Entries Name: Barry Tyre Centre Location: 276-280, Holton Road, Barry, South Glamorgan, CF63 4HU Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	465	-	312540 168376



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	Contemporary Trade Directory Entries Name: Barry Tyre Centre Location: Lower Guthrie Street, Barry, South Glamorgan, CF63 4PS Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	469	-	312476 168276
182	Contemporary Trade Directory Entries Name: Barry Tyre Centre Ltd Location: Lower Guthrie Street, Barry, South Glamorgan, CF63 4PS Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	469	-	312476 168276
182	Contemporary Trade Directory Entries Name: Motorsports Centre Location: Lower Guthrie St, Barry, South Glamorgan, CF63 4PS Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (NW)	472	-	312483 168298
183	Contemporary Trade Directory Entries Name: Alistair'S Mini Bus Hire Location: 13, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	470	-	312503 167714
183	Contemporary Trade Directory Entries Name: Tutssel-Warne Location: 13, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	470	-	312503 167714
183	Contemporary Trade Directory Entries Name: B & T (Catering Equipment) Ltd Location: 13, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Catering Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	470	-	312503 167714
183	Contemporary Trade Directory Entries Name: Topend Ltd Location: 13, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	470	-	312503 167714
183	Contemporary Trade Directory Entries Name: Raymac Patio Products 97 Location: 12, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Concrete Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	476	-	312504 167701
183	Contemporary Trade Directory Entries Name: B J Potter & Sons Location: 12, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	476	-	312504 167702
183	Contemporary Trade Directory Entries Name: Church Motors Location: 16, Woodham Road, Barry, CF63 4JE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	482	-	312476 167738
183	Contemporary Trade Directory Entries Name: Autotec Wales Location: 16, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	490	-	312469 167734
184	Contemporary Trade Directory Entries Name: S & J Car Care Ltd Location: 9, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	482	-	312524 167663



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	Contemporary Trade Directory Entries Name: Prestige Salvage Location: 9, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Salvage Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	482	-	312524 167663
184	Contemporary Trade Directory Entries Name: Bill Richards Co Location: 9, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Catering Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	482	-	312524 167663
184	Contemporary Trade Directory Entries Name: Vale Of Glamorgan Trade Centre Location: Unit 8 Woodham Rd, Barry, South Glamorgan, CF63 4JE Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	502	-	312515 167642
185	Contemporary Trade Directory Entries Name: Bryan Thomas Car Sales Ltd Location: Cardiff Road, Barry, South Glamorgan, CF63 2QW Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	493	-	313133 168682
185	Contemporary Trade Directory Entries Name: Bryan Thomas Location: Cardiff Road, Barry, South Glamorgan, CF63 2QW Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	493	-	313133 168682
186	Contemporary Trade Directory Entries Name: D A T S C Location: 5, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	497	-	312548 167614
186	Contemporary Trade Directory Entries Name: German Car & Camper Location: 5, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	497	-	312548 167614
186	Contemporary Trade Directory Entries Name: Cars On Gas Location: 4, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	497	-	312548 167614
186	Contemporary Trade Directory Entries Name: Welsh Caravan Specialist Location: 5, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Caravans - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	497	-	312548 167614
186	Contemporary Trade Directory Entries Name: Cars On Gas Location: Ross Garage, 4, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	500	-	312553 167604
186	Contemporary Trade Directory Entries Name: Star Window Systems Ltd Location: 3, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	502	-	312564 167592
186	Contemporary Trade Directory Entries Name: Ross Garage Location: 3, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	502	-	312564 167592



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	Contemporary Trade Directory Entries Name: Frazer Metals Location: 2, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	505	-	312569 167583
186	Contemporary Trade Directory Entries Name: G & S Tyres Location: 1, Woodham Road, Barry, South Glamorgan, CF63 4JE Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	507	-	312576 167574
187	Contemporary Trade Directory Entries Name: 1st Choice Trade Appliance Centre Location: 19 Lower Guthrie St, Barry, South Glamorgan, CF63 4PS Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (NW)	497	-	312470 168328
188	Contemporary Trade Directory Entries Name: Ross Upholstery Location: Unit 7, Arcade Workshops, Atlantic Trading Estate, Barry, CF63 3RF Classification: Furniture - Repairing & Restoring Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	521	-	313162 167511
188	Contemporary Trade Directory Entries Name: K A Engineering Location: Unit 19, Arcade Workshops, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Engineering Machine Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	521	-	313163 167511
188	Contemporary Trade Directory Entries Name: Ray Hawkins Location: Unit 19, Arcade Workshops, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Furniture - Reproduction Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	521	-	313163 167511
188	Contemporary Trade Directory Entries Name: D & J Sheet Metal Location: Unit 19, Arcade Workshops, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Sheet Metal Work Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	521	-	313163 167511
188	Contemporary Trade Directory Entries Name: J & S Autos Location: Unit 19, Arcade Workshops, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	521	-	313163 167511
188	Contemporary Trade Directory Entries Name: Sos Salvage Car Breakers Location: Unit 19, Atlantic Crescent, Barry Docks, Barry, South Glamorgan, CF63 3RF Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	533	-	313132 167482
189	Contemporary Trade Directory Entries Name: Broadside Location: 243 Holton Rd, Barry, South Glamorgan, CF63 4HT Classification: Car Customizing Specialists Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NE (NW)	525	-	312475 168388
189	Contemporary Trade Directory Entries Name: Glamorgan Cleaning Services Ltd Location: 237, Holton Road, Barry, South Glamorgan, CF63 4HT Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	534	-	312459 168382



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
190	Contemporary Trade Directory Entries Name: Salevon Ltd Location: Old Docks Canteen, Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Staircase, Balustrade & Handrail Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	532	-	312960 167434
191	Contemporary Trade Directory Entries Name: Tank Gauging Systems Location: Wimborne Rd, Barry, South Glamorgan, CF63 3DH Classification: Tank Cleaning & Repairing Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	537	-	313406 167724
191	Contemporary Trade Directory Entries Name: Vale Aggregates Ltd Location: Wimborne Road, Barry, South Glamorgan, CF63 3DH Classification: Sand, Gravel & Other Aggregates Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	544	-	313393 167700
192	Contemporary Trade Directory Entries Name: Robert Price Builders Merchants Location: Cardiff Road, Barry, South Glamorgan, CF63 2QW Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	543	-	313219 168705
192	Contemporary Trade Directory Entries Name: Scrap 4 Cash Location: Cardiff Rd, Barry, South Glamorgan, CF63 2QW Classification: Scrap Yards Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	562	-	313209 168729
192	Contemporary Trade Directory Entries Name: Oneil'S Car Sales Location: Cardiff Road, Barry, South Glamorgan, CF63 2QW Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	601	-	313219 168767
193	Contemporary Trade Directory Entries Name: The Laundry Rooms Location: 25, Vere Street, Barry, South Glamorgan, CF63 2HW Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	553	-	313057 168757
194	Contemporary Trade Directory Entries Name: Seabreezes Location: 223, Holton Road, Barry, CF63 4HR Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	566	-	312412 168365
194	Contemporary Trade Directory Entries Name: The Drift In Location: 223, Holton Road, Barry, South Glamorgan, CF63 4HR Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	566	-	312412 168365
194	Contemporary Trade Directory Entries Name: D J Exhausts Fast Fit Service Location: 38, Morel Street, Barry, South Glamorgan, CF63 4PL Classification: Exhaust & Shock Absorber Centres Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	583	-	312403 168383
195	Contemporary Trade Directory Entries Name: Facelift Cleaning Systems Ltd Location: Unit 7 Windmill Industrial Estate, Wimborne Road, Barry, South Glamorgan, CF63 3DH Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	575	-	313460 167731



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	Contemporary Trade Directory Entries Name: Window Cleaning Ltd Location: Unit 7, Wimborne Road, Barry, South Glamorgan, CF63 3DH Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	575	-	313460 167731
195	Contemporary Trade Directory Entries Name: Facelift Cleaning Systems Location: Unit 7, Wimborne Road, Barry, South Glamorgan, CF63 3DH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	575	-	313460 167731
196	Contemporary Trade Directory Entries Name: Scott Pallets Location: Atlantic Way, Barry, South Glamorgan, CF63 3RA Classification: Pallets, Crates & Packing Cases Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	578	-	312826 167389
197	Contemporary Trade Directory Entries Name: Advanced Membrane Coatings Location: Castleland St, Barry, South Glamorgan, CF63 4LL Classification: Concrete Contractors Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SE (W)	579	-	312326 168082
198	Contemporary Trade Directory Entries Name: Exhaust Tyres & Batteries Of Barry Location: Cardiff rd, Barry, South Glamorgan, CF63 2QW Classification: Tyre Dealers Status: Active Positional Accuracy: Manually positioned to the address or location	A18SE (NE)	580	-	313266 168724
198	Contemporary Trade Directory Entries Name: Barry Motors Ltd Location: Barry Motors, Cardiff Road, Barry, CF63 2QW Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	580	-	313266 168723
198	Contemporary Trade Directory Entries Name: A & J Motors Location: Cardiff Road, BARRY, South Glamorgan, CF63 2QW Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	588	-	313271 168730
198	Contemporary Trade Directory Entries Name: S B S Salvage Location: Rear of Unit 7, Cardiff Road, Barry, South Glamorgan, CF63 2QW Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18SE (NE)	588	-	313271 168730
198	Contemporary Trade Directory Entries Name: Wheelie Smart Location: Cardiff Road, BARRY, South Glamorgan, CF63 2QW Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	595	-	313278 168734
198	Contemporary Trade Directory Entries Name: Briscoe Cleaning Services Location: Cardiff Road, BARRY, South Glamorgan, CF63 2QW Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	616	-	313291 168751
199	Contemporary Trade Directory Entries Name: Aquamarine Location: Unit 18-19, Atlantic Trading Est, Barry, South Glamorgan, CF63 3RF Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	583	-	313235 167484
200	Contemporary Trade Directory Entries Name: Car & Commercials Location: Windmill industrial estate, Wimborne Rd, Barry, South Glamorgan, CF63 3DH Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	592	-	313462 167707



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
200	Contemporary Trade Directory Entries Name: Sims Metal Management Location: 31 Wimborne Rd, Barry, South Glamorgan, CF63 3DH Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	592	-	313440 167680
200	Contemporary Trade Directory Entries Name: J L Glazing & Glass Location: Windmill Indust Est, Wimbourne Rd, Barry, South Glamorgan, CF63 3DH Classification: Glass Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	595	-	313442 167677
200	Contemporary Trade Directory Entries Name: A F C Engineering Care Of T J Williams Location: Wimborne Road, Barry, South Glamorgan, CF63 3DH Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	614	-	313432 167639
201	Contemporary Trade Directory Entries Name: Ian Lowe Ltd Location: 71, St. Marys Avenue, Barry, South Glamorgan, CF63 4LT Classification: Aviation Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	593	-	312310 167985
202	Contemporary Trade Directory Entries Name: Wayne Matthews Location: Unit 7, Cardiff Road Business Park, Cardiff Road, Barry, South Glamorgan, CF63 2PQ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	605	-	313348 168704
202	Contemporary Trade Directory Entries Name: Trade Price Cars (Barry) Ltd Location: Unit 7, Cardiff Road Business Park, Cardiff Road, Barry, South Glamorgan, CF63 2PQ Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	605	-	313348 168704
202	Contemporary Trade Directory Entries Name: Autopro Of Barry Location: Unit 7, Cardiff Road Business Park, Cardiff Road, Barry, South Glamorgan, CF63 2PQ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	605	-	313348 168704
202	Contemporary Trade Directory Entries Name: Autopro Garage Services Location: Unit 7, Cardiff Road Business Park, Cardiff Road, Barry, CF63 2PQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	606	-	313348 168706
202	Contemporary Trade Directory Entries Name: Howe Motors Ltd Location: Unit 8-8b, Cardiff Road Business Park, Cardiff Road, Barry, South Glamorgan, CF63 2PQ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	619	-	313359 168714
202	Contemporary Trade Directory Entries Name: R Cheeseman Location: Unit 9, Cardiff Road Business Park, Cardiff Road, Barry, South Glamorgan, CF63 2PQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	629	-	313369 168718
202	Contemporary Trade Directory Entries Name: Conix Ltd Location: 8-9b, Unit, Cardiff Road Business Park, Cardiff Road, Barry, South Glamorgan, CF63 2PQ Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A19SW (NE)	655	-	313370 168750



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	Contemporary Trade Directory Entries Name: J L Minimix Location: Unit S86, Wimbourne Road, Barry, South Glamorgan, CF63 3DH Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	606	-	313518 167752
204	Contemporary Trade Directory Entries Name: Dop'S Location: 42, Dock View Road, Barry, South Glamorgan, CF63 4LQ Classification: Painting & Decorating Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	618	-	312292 167861
205	Contemporary Trade Directory Entries Name: D B Engineering Services Location: Unit 12 Atlantic Crescent, Barry, South Glamorgan, CF63 3RG Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	639	-	312916 167324
205	Contemporary Trade Directory Entries Name: R I P Custom Location: Unit 19 Sub Unit 7, Atlantic Crescent, Barry, South Glamorgan, CF63 3RG Classification: Spraying - Paint & Coatings Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	641	-	312871 167322
205	Contemporary Trade Directory Entries Name: Leisure Solutions Uk Ltd Location: Unit 1, Atlantic Crescent, Barry, South Glamorgan, CF63 3RG Classification: Cabinet Makers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	641	-	312871 167322
205	Contemporary Trade Directory Entries Name: Caring Coaches Location: Unit 8,2 Atlantic Cr, Barry, South Glamorgan, CF63 3RG Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SW (S)	641	-	312870 167322
205	Contemporary Trade Directory Entries Name: Ecd Castings Ltd Location: Unit 2, Atlantic Crescent, Barry, CF63 3RG Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	660	-	312897 167302
206	Contemporary Trade Directory Entries Name: T Shirt Printing 4 U Location: The Warehouse, Castleland Street, Barry, CF63 4LL Classification: Printers Textile Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	649	-	312267 168206
207	Contemporary Trade Directory Entries Name: Copy-It Location: 196, Holton Road, Barry, South Glamorgan, CF63 4HN Classification: Copying & Duplicating Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	659	-	312269 168262
207	Contemporary Trade Directory Entries Name: Copy It Location: 196, Holton Road, Barry, CF63 4HN Classification: Copying & Duplicating Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	661	-	312268 168265
207	Contemporary Trade Directory Entries Name: Coolcare Technical Services Location: Flat 1, 194, Holton Road, Barry, South Glamorgan, CF63 4HN Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	662	-	312265 168260
207	Contemporary Trade Directory Entries Name: Community Nurses Location: Holton Rd, Barry, South Glamorgan, CF63 4HN Classification: Hospitals Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	681	-	312249 168272



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	Contemporary Trade Directory Entries Name: Viney Cleaning Location: 15, Harvey Street, Barry, CF63 2HZ Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	663	-	312993 168868
209	Contemporary Trade Directory Entries Name: A J Millar Location: 42, Harvey Street, Barry, South Glamorgan, CF63 2HZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	671	-	313044 168875
209	Contemporary Trade Directory Entries Name: Noah'S Garage Location: 42, Harvey Street, BARRY, South Glamorgan, CF63 2HZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	671	-	313044 168875
210	Contemporary Trade Directory Entries Name: Concrete Design Centre Location: Unit 13a, Atlantic Trading Estate, Barry, CF63 3RF Classification: Concrete Products Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (SE)	675	-	313276 167401
211	Contemporary Trade Directory Entries Name: Howdens Joinery Ltd Location: Unit 14,14 Cardiff Rd Business Pk,Cardiff Rd, Barry, South Glamorgan, CF63 2PQ Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	677	-	313410 168748
211	Contemporary Trade Directory Entries Name: R I M Motors Location: Unit 12-13, Cardiff Road Business Park, Cardiff Road, Barry, CF63 2PQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	680	-	313412 168751
212	Contemporary Trade Directory Entries Name: M B Haulage Ltd Location: Unit 14A, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	703	-	313246 167349
212	Contemporary Trade Directory Entries Name: R D Baker Commercials Location: Unit 14, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	703	-	313246 167349
212	Contemporary Trade Directory Entries Name: A & N Car & Commercial Repair Location: Unit 14, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	703	-	313246 167349
213	Contemporary Trade Directory Entries Name: Ecovert Ltd Location: Hayes Rd, Penarth, South Glamorgan, CF64 5SG Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	706	-	313612 167710
213	Contemporary Trade Directory Entries Name: Mike Brinkard Location: The Windmill Site,Hayes Rd, Sully, Penarth, South Glamorgan, CF64 5SE Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	722	-	313646 167728



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
214	Contemporary Trade Directory Entries Name: White Lightening Launderette Location: 59, Vere Street, Barry, South Glamorgan, CF63 2HW Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	711	-	313091 168912
215	Contemporary Trade Directory Entries Name: Mechanical Services Location: 57, Station Street, Barry, South Glamorgan, CF63 4LW Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	712	-	312192 168006
215	Contemporary Trade Directory Entries Name: Barry Motor Services Location: 57, Station Street, Barry, South Glamorgan, CF63 4LW Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	712	-	312192 168006
216	Contemporary Trade Directory Entries Name: B E T S Location: Unit 4-6, Cardiff Road Business Park, Cardiff Road, Barry, CF63 2PQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	714	-	313388 168809
216	Contemporary Trade Directory Entries Name: B E T S Location: Unit 4/6, Cardiff Road Business Park, Cardiff Road, Barry, South Glamorgan, CF63 2PQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	715	-	313388 168809
217	Contemporary Trade Directory Entries Name: Perfections Location: 180, Holton Road, Barry, South Glamorgan, CF63 4HN Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	716	-	312203 168227
217	Contemporary Trade Directory Entries Name: G T M Uk Location: 159, Holton Road, Barry, South Glamorgan, CF63 4HP Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	732	-	312195 168269
217	Contemporary Trade Directory Entries Name: Anterior Dental Laboratory Location: 157, Holton Road, Barry, CF63 4HP Classification: Medical & Dental Laboratories Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	736	-	312191 168268
218	Contemporary Trade Directory Entries Name: J S Bowsher Ltd Location: Unit 3a, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Joinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	719	-	313538 167599
218	Contemporary Trade Directory Entries Name: J & E Hall Ltd Location: Unit D1, Atlantic Trading Estate, BARRY, South Glamorgan, CF63 3RF Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	750	-	313552 167567
218	Contemporary Trade Directory Entries Name: Verde Coffee Location: D2 Atlantic Gate, Atlantic Trading Estate, Barry, CF63 3RF Classification: Catering Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	759	-	313557 167560



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	Contemporary Trade Directory Entries Name: Cross Street Motors Location: Cross Street Garage, Cross Street, Barry, South Glamorgan, CF63 4LU Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	728	-	312178 168122
219	Contemporary Trade Directory Entries Name: Cash For Clothes Location: 91, Station Street, Barry, South Glamorgan, CF63 4LX Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	772	-	312135 168134
220	Contemporary Trade Directory Entries Name: L D H Motors Location: Unit 12c, Atlantic Trading Estate, Barry, CF63 3RF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	729	-	313329 167372
220	Contemporary Trade Directory Entries Name: Heinnie Haynes Location: Unit 12c, Atlantic Trading Estate, Barry, CF63 3RF Classification: Cutlery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	729	-	313329 167372
220	Contemporary Trade Directory Entries Name: Nick'S Auto Repairs Location: Unit 12d, Atlantic Trading Estate, Barry, CF63 3RF Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	739	-	313327 167359
220	Contemporary Trade Directory Entries Name: L D H Motors Location: Unit 12, Atlantic Trading Est, Barry, South Glamorgan, CF63 3RF Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	752	-	313333 167347
220	Contemporary Trade Directory Entries Name: David James & Son Location: Unit 8n Atlantic House, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: French Polishing Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	752	-	313333 167347
220	Contemporary Trade Directory Entries Name: Ornamental Iron Ltd Location: Unit 8, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Fencing Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	752	-	313333 167347
220	Contemporary Trade Directory Entries Name: Lead Automation Systems Ltd Location: Unit 8, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Automation Systems & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	752	-	313333 167347
220	Contemporary Trade Directory Entries Name: Aspfase Location: Unit 8, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Rubber & Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	752	-	313333 167347
221	Contemporary Trade Directory Entries Name: Kick The Bucket Cleaning Ltd Location: 36, Kingsland Crescent, Barry, South Glamorgan, CF63 4JQ Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	733	-	312169 167941



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
222	Contemporary Trade Directory Entries Name: Barry Advertiser Ltd Location: Watson Street, Barry, South Glamorgan, CF63 4EQ Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	739	-	312210 168339
222	Contemporary Trade Directory Entries Name: G A Management Services Location: 2, Cora Street, Barry, South Glamorgan, CF63 4EP Classification: Copying & Duplicating Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	758	-	312189 168338
222	Contemporary Trade Directory Entries Name: Llan Motors Location: Evelyn Street, Barry, CF63 4EN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	766	-	312196 168377
223	Contemporary Trade Directory Entries Name: Jones Dairies Location: Dock View rd, Barry, South Glamorgan, CF63 4JP Classification: Dairies Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	742	-	312176 167808
224	Contemporary Trade Directory Entries Name: Colin Stevens Commercial Ltd Location: 1, Hayes Lane, Sully, Penarth, CF64 5SF Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	747	-	313638 167677
225	Contemporary Trade Directory Entries Name: South West Metals & Salvage Location: Unit 14e Atlantic Trading Est, Barry, South Glamorgan, CF63 3RF Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	752	-	313184 167265
225	Contemporary Trade Directory Entries Name: Ace Site Services Ltd Location: Unit 14D, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Industrial Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	753	-	313172 167259
225	Contemporary Trade Directory Entries Name: Danecraft Master Cabinet Makers Location: Unit 14D, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	753	-	313172 167259
225	Contemporary Trade Directory Entries Name: A & L Vehicle Recycling & Scrap Metals Ltd Location: Unit 14e, Atlantic Trading Estate, BARRY, South Glamorgan, CF63 3RF Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	753	-	313172 167259
226	Contemporary Trade Directory Entries Name: Small Batch Polishing & Plating Location: Unit 2, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	756	-	313610 167629
227	Contemporary Trade Directory Entries Name: Predator Location: 14, Morlais Street, BARRY, South Glamorgan, CF63 2PB Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	771	-	313483 168811
228	Contemporary Trade Directory Entries Name: Bikers Gear Location: 37, Main Street, Barry, South Glamorgan, CF63 2HJ Classification: Cycle Accessories, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	775	-	312985 168980



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	Contemporary Trade Directory Entries Name: Main Street Motors Location: 38, Main Street, Barry, CF63 2HJ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	818	-	312972 169023
229	Contemporary Trade Directory Entries Name: Travis Perkins Plc Location: Morel Street, Barry, South Glamorgan, CF63 4PN Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	775	-	312289 168559
229	Contemporary Trade Directory Entries Name: Kwik Fit Location: Court Road, Barry, CF63 4EU Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	819	-	312268 168602
230	Contemporary Trade Directory Entries Name: Lydair Environmental Ventilation Location: 20, Court Road, Barry, South Glamorgan, CF63 4EU Classification: Ventilators & Ventilation Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	780	-	312226 168471
231	Contemporary Trade Directory Entries Name: Barri Print Location: 156, Holton Road, Barry, South Glamorgan, CF63 4TY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	791	-	312120 168186
231	Contemporary Trade Directory Entries Name: Charlie'S Cleaners Location: 26, Merthyr Street, Barry, South Glamorgan, CF63 4LA Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	815	-	312095 168171
232	Contemporary Trade Directory Entries Name: S H S Integrated Services Location: Unit 15a, Atlantic Business Park, Barry, South Glamorgan, CF63 3RF Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	793	-	313468 167407
232	Contemporary Trade Directory Entries Name: A K Location: Unit 9, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	793	-	313468 167407
232	Contemporary Trade Directory Entries Name: Levics Vehicle Recycling Services Location: Unit 9, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	793	-	313468 167407
232	Contemporary Trade Directory Entries Name: Western Welding & Engineering Co Ltd Location: Unit 9, Atlantic Trading Estate, BARRY, South Glamorgan, CF63 3XA Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	793	-	313468 167407
232	Contemporary Trade Directory Entries Name: M & G Haulage Container Service Ltd Location: Unit 9, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	793	-	313468 167407
232	Contemporary Trade Directory Entries Name: G D Blasting Location: Unit 9, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Blast Cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	793	-	313468 167407



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	Contemporary Trade Directory Entries Name: R M C Aggregates Location: Unit 8-9, Atlantic Trading Est, Barry, South Glamorgan, CF63 3RF Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	794	-	313468 167406
233	Contemporary Trade Directory Entries Name: Welsh Motor Spares Location: Unit 12, Atlantic Trading Est, Barry, South Glamorgan, CF63 3RF Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	799	-	313140 167200
234	Contemporary Trade Directory Entries Name: Hinds Garages Ltd Location: Dock View Road, Barry, South Glamorgan, CF63 4JP Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	800	-	312121 167790
235	Contemporary Trade Directory Entries Name: A P C Wales Location: 35, Coronation Street, Barry, South Glamorgan, CF63 4JW Classification: Concrete Products Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	803	-	312106 167862
236	Contemporary Trade Directory Entries Name: Derek Freye Location: 145, Holton Road, Barry, South Glamorgan, CF63 4HP Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	804	-	312115 168237
236	Contemporary Trade Directory Entries Name: Bagz Location: 146, Holton Road, Barry, South Glamorgan, CF63 4HL Classification: Bags, Belts & Accessories - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	823	-	312089 168198
237	Contemporary Trade Directory Entries Name: Appliance Centre Of Barry Ltd Location: 71-73, Main Street, Barry, South Glamorgan, CF63 2HL Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	815	-	312855 169006
237	Contemporary Trade Directory Entries Name: The Appliance Centre Of Barry Ltd Location: 73, Main Street, Barry, South Glamorgan, CF63 2HL Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	815	-	312855 169006
237	Contemporary Trade Directory Entries Name: In-A-Spin Location: 70, Main Street, Barry, South Glamorgan, CF63 2HN Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	843	-	312888 169040
238	Contemporary Trade Directory Entries Name: Caterite Ltd Location: 3, Subway Road, Barry, South Glamorgan, CF63 4QT Classification: Catering Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	817	-	312132 167689
239	Contemporary Trade Directory Entries Name: A P C Panels Ltd Location: Atlantic Trading Estate, BARRY, South Glamorgan, CF63 3RF Classification: Door Manufacturers - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	822	-	313193 167194
240	Contemporary Trade Directory Entries Name: Penarth Industrial Services Ltd Location: Unit C, Atlantic Trading Est, Barry, South Glamorgan, CF63 3RF Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	828	-	313336 167258



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
241	Contemporary Trade Directory Entries Name: E J Llewellyn Printers Ltd Location: 62, Main Street, Barry, South Glamorgan, CF63 2HN Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	837	-	312910 169038
242	Contemporary Trade Directory Entries Name: Nu-Co Location: Unit 15, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Blast Cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	855	-	313310 167211
243	Contemporary Trade Directory Entries Name: Dustmates Location: 2, Wyndham Street, Barry, South Glamorgan, CF63 4EL Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (W)	857	-	312119 168429
244	Contemporary Trade Directory Entries Name: Chivers Restoration Location: 21-22, Cardiff Road, Barry, South Glamorgan, CF63 2QY Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	860	-	313580 168846
244	Contemporary Trade Directory Entries Name: The Stove Room Cardiff Location: 22, Cardiff Road, Barry, CF63 2QY Classification: Fireplaces & Mantelpieces Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	862	-	313585 168844
245	Contemporary Trade Directory Entries Name: S J B Complete Cleaning Location: 9, Fryatt Street, Barry, South Glamorgan, CF63 4JU Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	875	-	312030 167890
246	Contemporary Trade Directory Entries Name: G M Plumbing And Heating Location: 56, Coronation Street, Barry, South Glamorgan, CF63 4JX Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	878	-	312024 167980
247	Contemporary Trade Directory Entries Name: A1 Smart Repairs Mobile Location: Belvedere Cr, Barry, South Glamorgan, CF63 4JZ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12NW (W)	880	-	312025 168118
248	Contemporary Trade Directory Entries Name: Sbs Salvage Ltd Location: 7, Nordale Rise, Barry, South Glamorgan, CF63 2QN Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	889	-	313408 168998
249	Contemporary Trade Directory Entries Name: Clarke & Sons Ltd Location: Cardiff Road, Barry, South Glamorgan, CF63 2NW Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	893	-	313657 168816
249	Contemporary Trade Directory Entries Name: Port Painters Ltd Location: Cardiff Road, Barry, South Glamorgan, CF63 2NW Classification: Spraying - Paint & Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	893	-	313657 168816
250	Contemporary Trade Directory Entries Name: Pendragon Cleaning Services Location: 4, Llewellyn Street, Barry, South Glamorgan, CF63 1BZ Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	908	-	312412 168892



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
251	Contemporary Trade Directory Entries Name: G M Plumbing & Heating Location: 28, Romanza, Cei Dafydd, Barry, South Glamorgan, CF63 4BH Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	908	-	312095 167546
252	Contemporary Trade Directory Entries Name: Groupe Samat Uk Ltd Location: Port Office, Atlantic Way, Barry, CF63 3US Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	917	-	312645 167082
252	Contemporary Trade Directory Entries Name: Associated British Ports Location: Port Office, Atlantic Way, Barry, South Glamorgan, CF63 3US Classification: Ports, Docks & Harbours Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	917	-	312646 167082
252	Contemporary Trade Directory Entries Name: Associated British Ports Location: Port Office, Atlantic Way, Barry, South Glamorgan, CF63 3US Classification: Ports, Docks & Harbours Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	917	-	312646 167082
252	Contemporary Trade Directory Entries Name: Associated British Ports Location: Port Office, Atlantic Way, Barry, South Glamorgan, CF63 3US Classification: Ports, Docks & Harbours Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	917	-	312646 167082
253	Contemporary Trade Directory Entries Name: Hillary'S Blinds Ltd Location: Telephone Exchange, Dock View Road, Barry, South Glamorgan, CF63 4UF Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	922	-	311985 167867
254	Contemporary Trade Directory Entries Name: I J P Automotive Ltd Location: 65, Merthyr Street, Barry, CF63 4LD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	926	-	311981 168158
254	Contemporary Trade Directory Entries Name: Haggard Motors (Wales) Ltd Location: Merthyr Street, Barry, South Glamorgan, CF63 4LD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	926	-	311981 168158
254	Contemporary Trade Directory Entries Name: John Rees (Agricultural Merchants) Ltd Location: Merthyr Street, Barry, South Glamorgan, CF63 4UL Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	970	-	311937 168157
255	Contemporary Trade Directory Entries Name: Harper & Kemp Location: 58, Barry Road, Barry, South Glamorgan, CF63 1BA Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	926	-	312527 168998
255	Contemporary Trade Directory Entries Name: Harper & Kemp Location: 58, Barry Road, Barry, South Glamorgan, CF63 1BA Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	926	-	312527 168998
256	Contemporary Trade Directory Entries Name: A B Service Centre Location: Cardiff Rd, Barry, South Glamorgan, CF63 2NW Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A19NE (NE)	929	-	313742 168778



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
257	Contemporary Trade Directory Entries Name: Mrc Trading Location: The Garage, Fairford St, Barry, South Glamorgan, CF63 1BY Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17NE (N)	968	-	312586 169078
258	Contemporary Trade Directory Entries Name: 1st Choice Appliances Location: 3a, Tynnewydd Road, Barry, CF62 8HB Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	979	-	311944 168277
259	Contemporary Trade Directory Entries Name: Techni-Flow Uk Ltd Location: Atlantic House, Atlantic Trading Estate, Barry, CF63 3RF Classification: Pumps - Sales, Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	980	-	313594 167269
259	Contemporary Trade Directory Entries Name: David James & Son Location: Unit 8, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: French Polishing Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	999	-	313631 167281
259	Contemporary Trade Directory Entries Name: Champions Lifting And Safety Location: Atlantic House, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	999	-	313631 167281
259	Contemporary Trade Directory Entries Name: Techni Flow (Uk) Ltd Location: Unit 8, Atlantic Trading Estate, Barry, South Glamorgan, CF63 3RF Classification: Pumps - Sales, Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	999	-	313631 167281
259	Contemporary Trade Directory Entries Name: Vale Of Glamorgan Brewery Location: Unit 8a, Atlantic Trading Estate, Barry, CF63 3RF Classification: Brewers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	999	-	313631 167280
260	Contemporary Trade Directory Entries Name: Acl Location: Herbert Street, Barry, South Glamorgan, CF63 1EA Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	985	-	312376 168963
261	Contemporary Trade Directory Entries Name: Coles Coal Merchants Location: Morfa, Victoria Park Road, Barry, South Glamorgan, CF63 2JS Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	986	-	313221 169168
262	Contemporary Trade Directory Entries Name: Tags Cleaning Location: 44, Norwood Crescent, Barry, South Glamorgan, CF63 2AR Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A24SW (N)	990	-	313380 169122
263	Fuel Station Entries Name: Barry Service Station Location: 146 Court Road, BARRY, South Glamorgan, CF63 1EU Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A17SW (NW)	754	-	312268 168491



Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
264	Ancient Woodland Name: Not Supplied Reference: 11327 Area(m ²): 36196.65 Type: Restored Ancient Woodland Site	A9NE (SE)	894	2	313714 167539
265	Sites of Special Scientific Interest Name: Hayes Point To Bendrick Rock Multiple Areas: Y Total Area (m2): 289900.65 Source: Natural Resources Wales Reference: 51033wdp Designation Details: Geological Designation Date: 18th March 1996 Date Type: Notified	A8SE (S)	793	2	313123 167202



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Vale Of Glamorgan County Borough Council - Environmental Health Department Cardiff Council - Pollution Control Division	April 2014 October 2017	Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 August 2017	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Vale Of Glamorgan County Borough Council - Environmental Health Department Cardiff Council - Pollution Control Division	June 2014 March 2016	Variable Variable
Local Authority Pollution Prevention and Controls Vale Of Glamorgan County Borough Council - Environmental Health Department Cardiff Council - Pollution Control Division	June 2014 March 2016	Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Vale Of Glamorgan County Borough Council - Environmental Health Department Cardiff Council - Pollution Control Division	June 2014 March 2016	Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 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
Substantiated Pollution Incident Register Environment Agency Wales - South East Area Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2017	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



Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Natural Resources Wales	November 2016	As notified
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	November 2017	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	November 2017	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2017	Quarterly
Flood Water Storage Areas Natural Resources Wales	November 2017	Quarterly
Flood Defences Natural Resources Wales	November 2017	Quarterly
OS Water Network Lines Ordnance Survey	October 2017	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
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	July 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 East Area Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Local Authority Landfill Coverage Cardiff Council Vale Of Glamorgan County Borough Council	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cardiff Council Vale Of Glamorgan County Borough Council	May 2000 May 2000	Not Applicable Not Applicable
Registered Landfill Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	March 2003	Not Applicable



Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Vale Of Glamorgan County Borough Council - Planning Department Cardiff Council - Regulatory Services	January 2016 October 2015	Variable Variable
Planning Hazardous Substance Consents Vale Of Glamorgan County Borough Council - Planning Department Cardiff Council - Regulatory Services	January 2016 October 2015	Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
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	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
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	November 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	October 2017	Bi-Annually
Areas of Adopted Green Belt Cardiff Council	November 2017	As notified
Areas of Unadopted Green Belt Cardiff Council	November 2017	As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	August 2017	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Cardiff Council Vale Of Glamorgan County Borough Council	August 2017 August 2017	Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2017	Bi-Annually
National Nature Reserves Natural Resources Wales	August 2017	Bi-Annually
National Parks Natural Resources Wales	August 2017	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2017 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	August 2017	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	August 2017	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2017	Bi-Annually
Special Protection Areas Natural Resources Wales	August 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	



Useful Contacts

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	Vale Of Glamorgan County Borough Council - Environmental Health Department Civic Offices, Holton Road, Barry, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Vale Of Glamorgan County Borough Council Civic Offices, Holton Road, Barry, South Glamorgan, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
7	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	Vale Of Glamorgan County Borough Council - Planning Department Dock Offices, Barry Docks, Barry, South Glamorgan, CF63 4RT	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.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.

Historical Mapping Legends

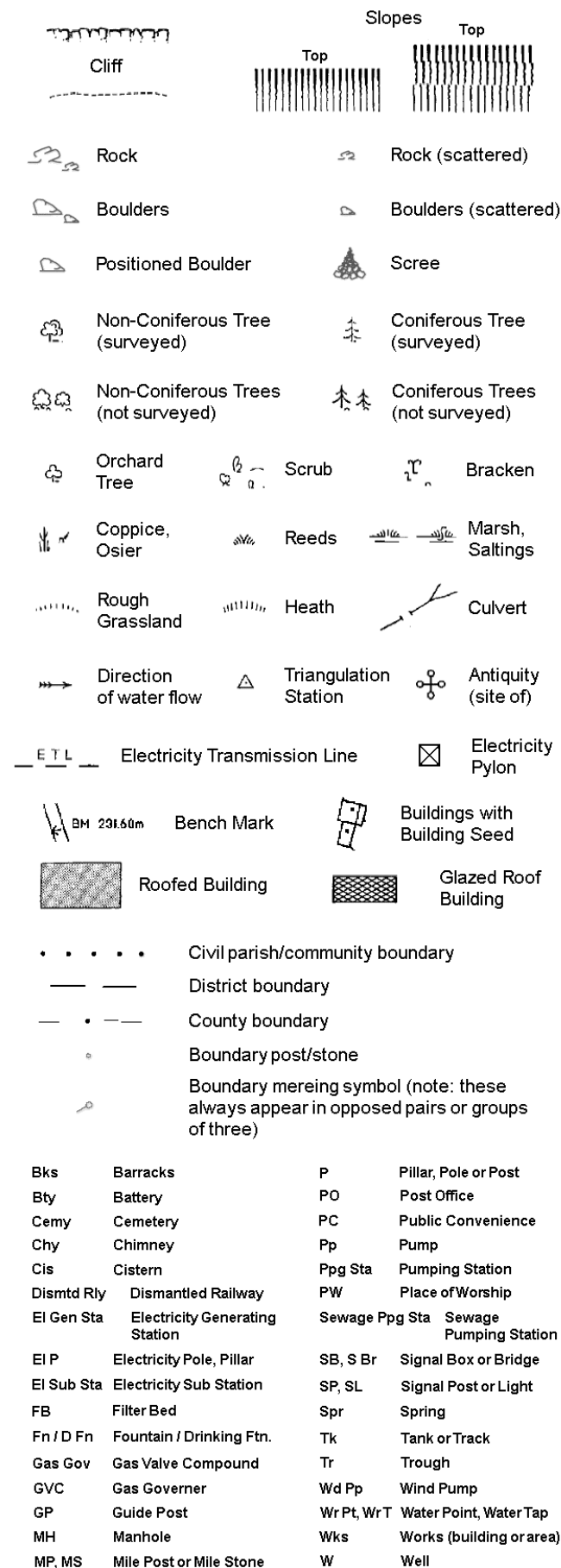
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



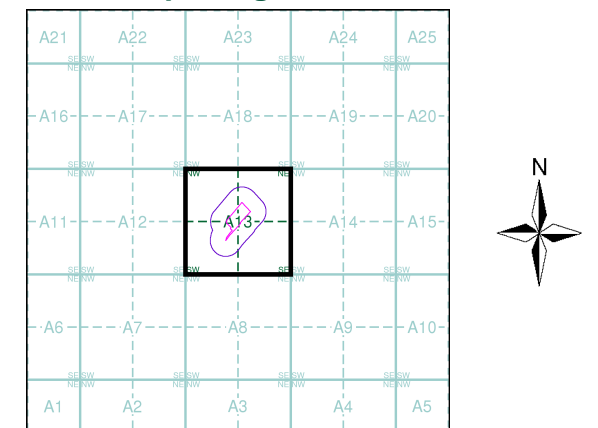
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1878	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1920	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:1,250	1955 - 1956	6
Ordnance Survey Plan	1:2,500	1955 - 1956	7
Additional SIMs	1:2,500	1955	8
Ordnance Survey Plan	1:1,250	1963 - 1973	9
Ordnance Survey Plan	1:1,250	1973 - 1989	10
Additional SIMs	1:1,250	1986 - 1990	11
Additional SIMs	1:1,250	1990	12
Additional SIMs	1:1,250	1991	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:1,250	1996	15

Historical Map - Segment A13



Order Details

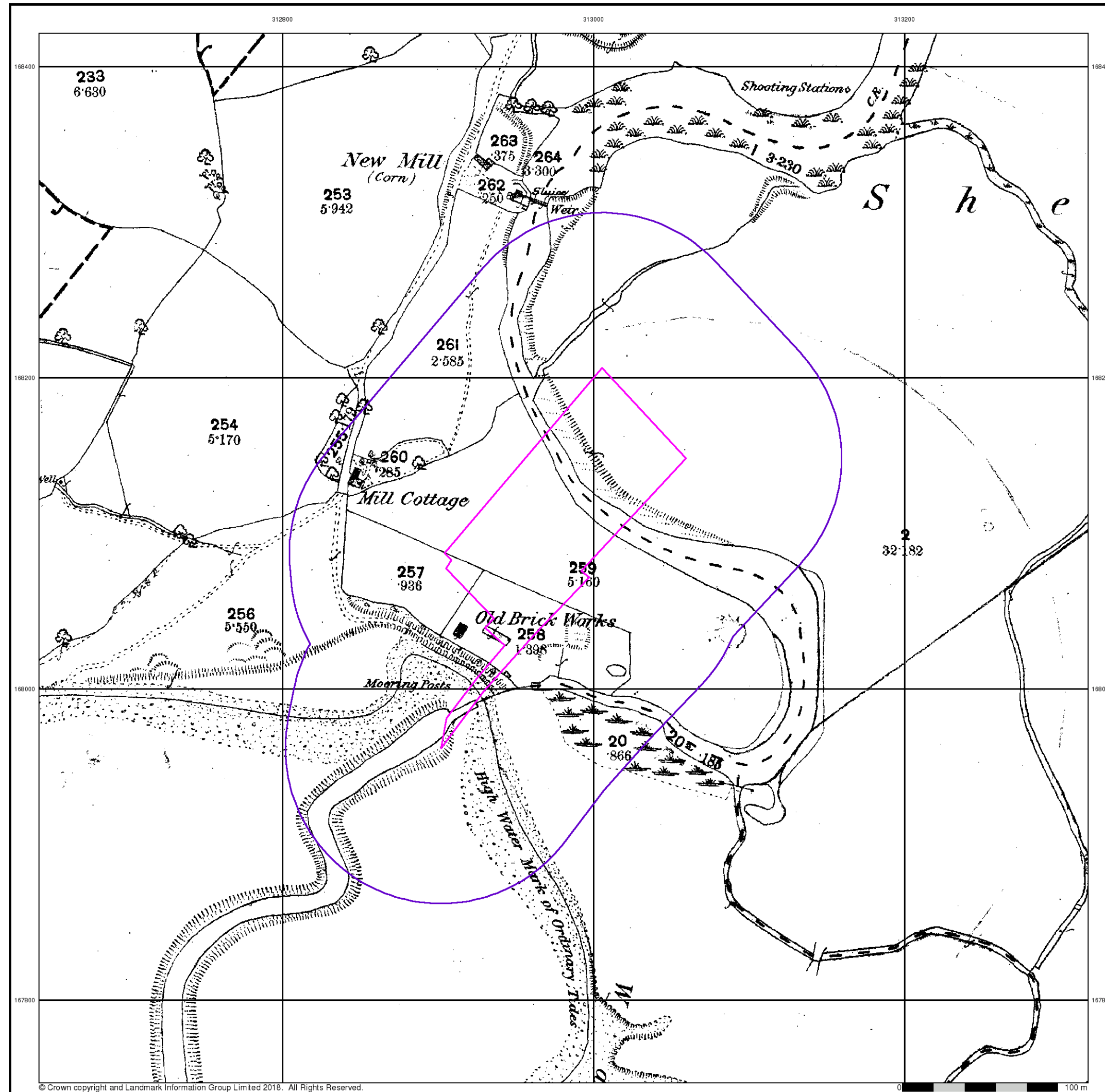
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 100

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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



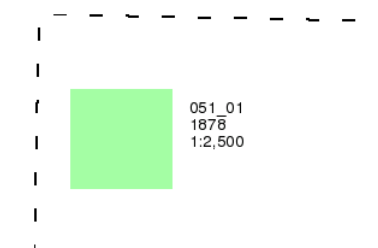
Glamorganshire

Published 1878

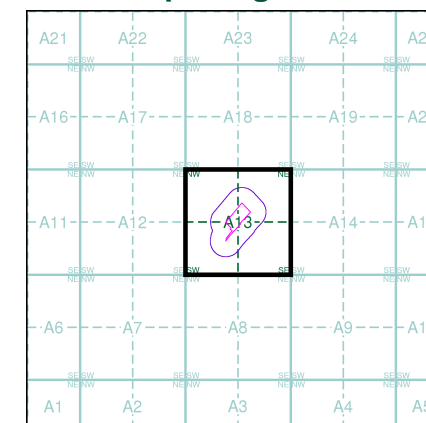
Source map scale - 1:2,500

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

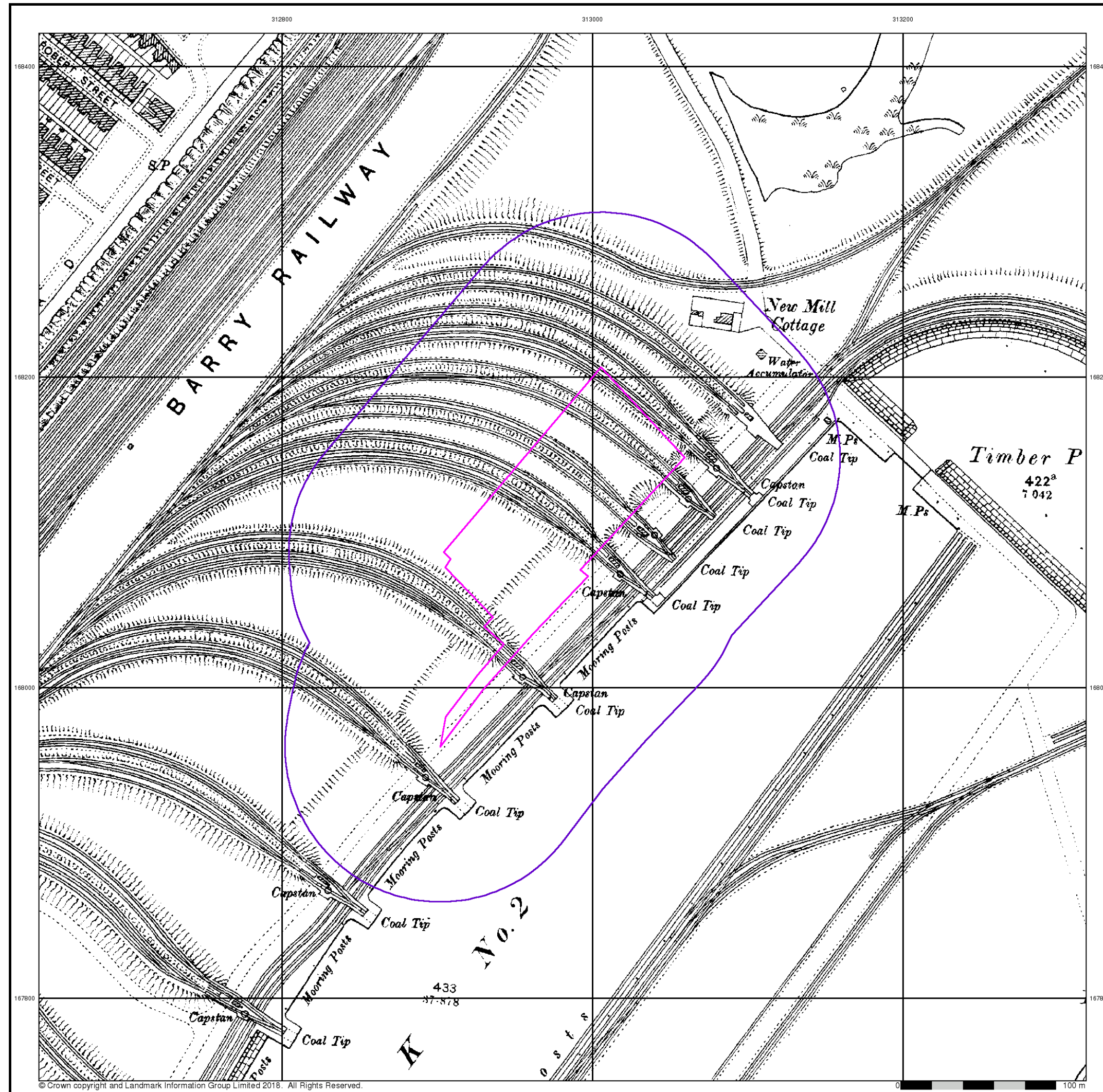
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Customer Ref: A105832
National Grid Reference: 312970, 168080
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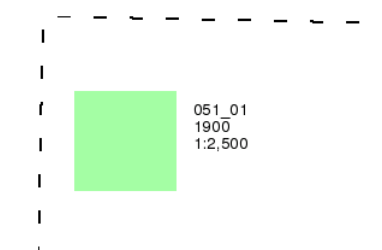
Glamorganshire

Published 1900

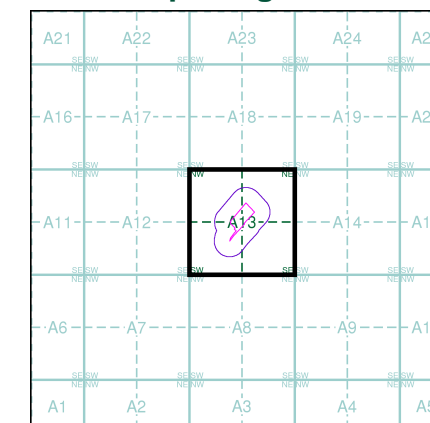
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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

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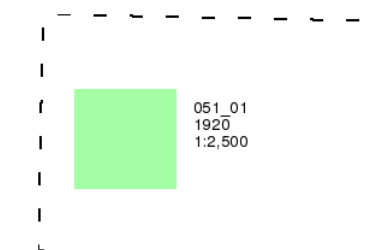
Glamorganshire

Published 1920

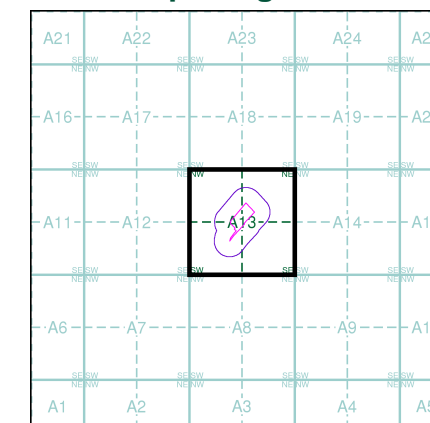
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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

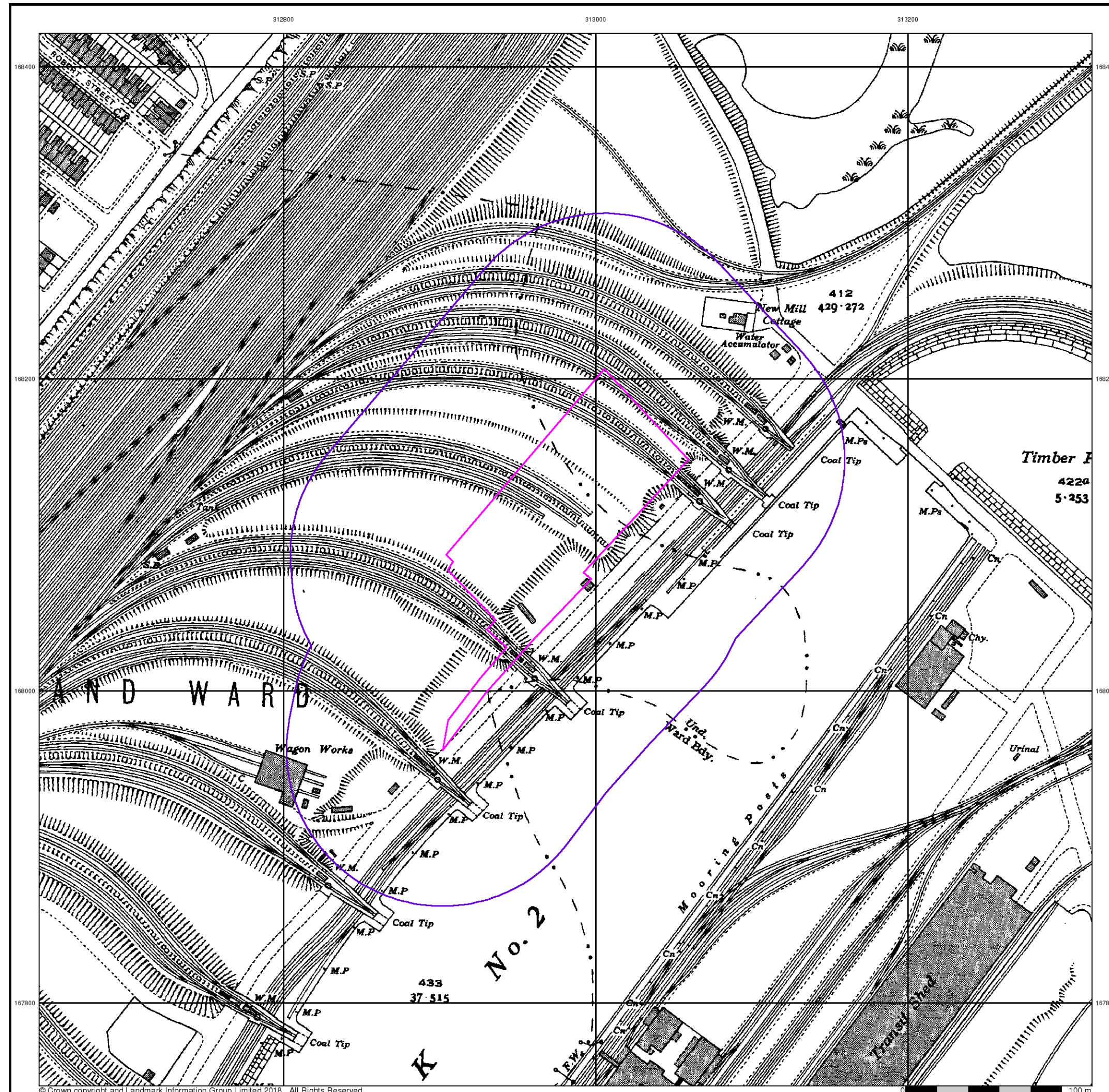
Order Number: 154476684_1_1
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Slice: A
Site Area (Ha): 1.33
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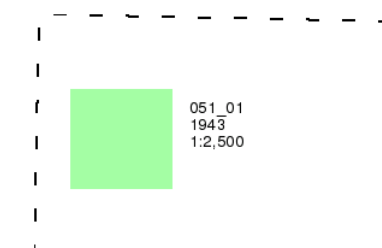
Glamorganshire

Published 1943

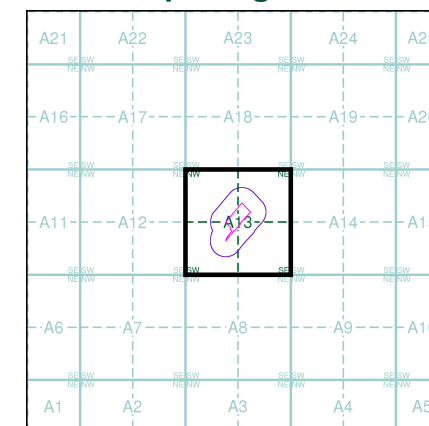
Source map scale - 1:2,500

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

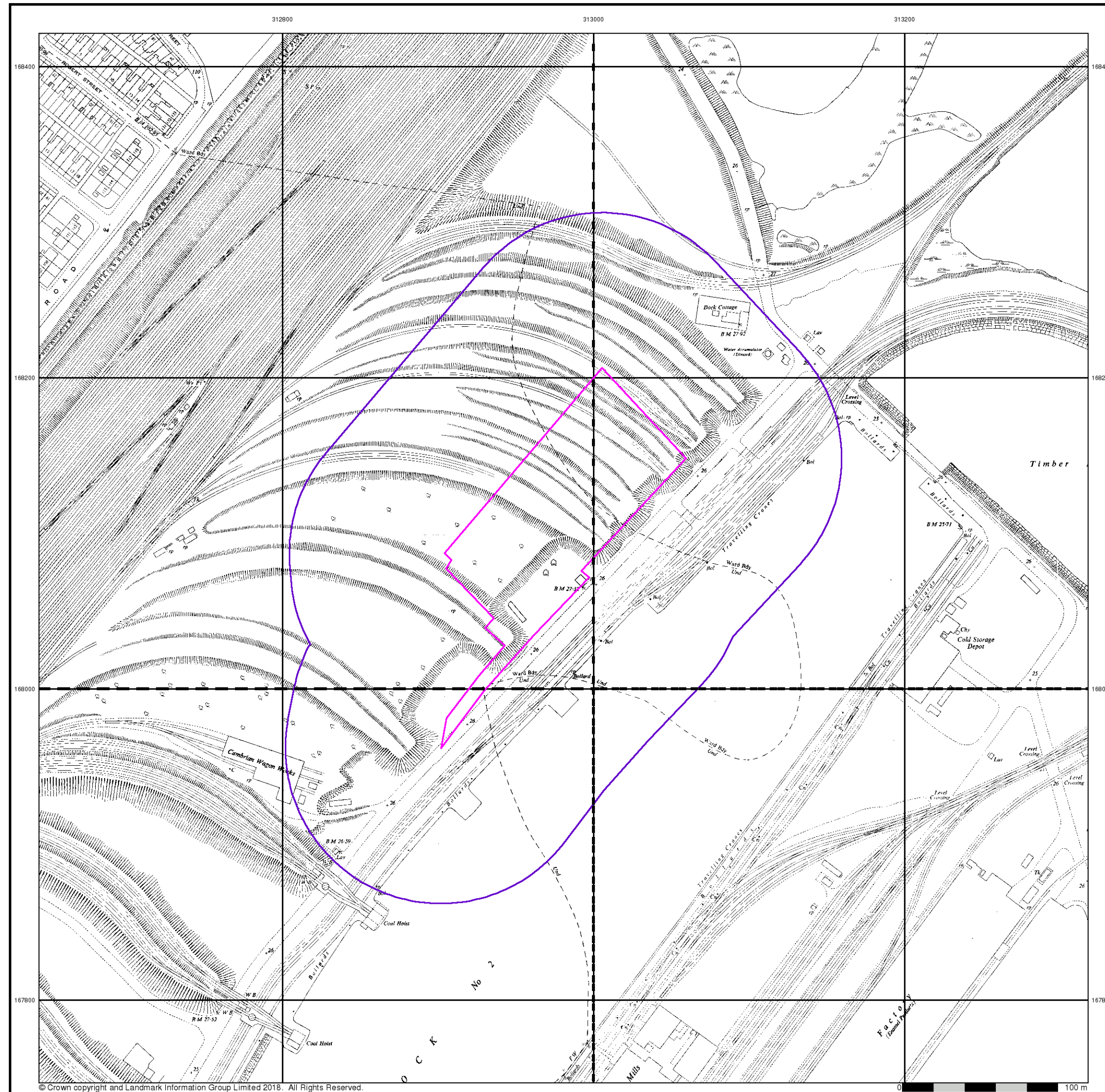
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 100

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk



Ordnance Survey Plan

Published 1955 - 1956

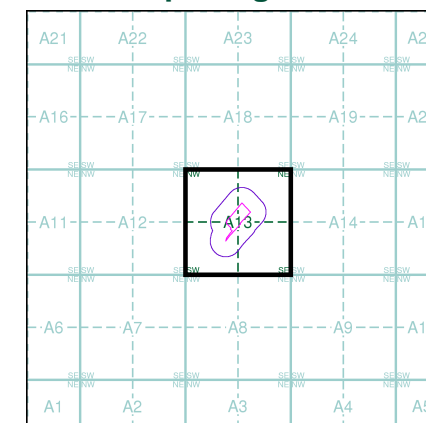
Source map scale - 1:1,250

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)

ST1268SE 1955 1:1,250	ST1368SW 1955 1:1,250
ST1267NE 1956 1:1,250	ST1367NW 1956 1:1,250

Historical Map - Segment A13



Order Details

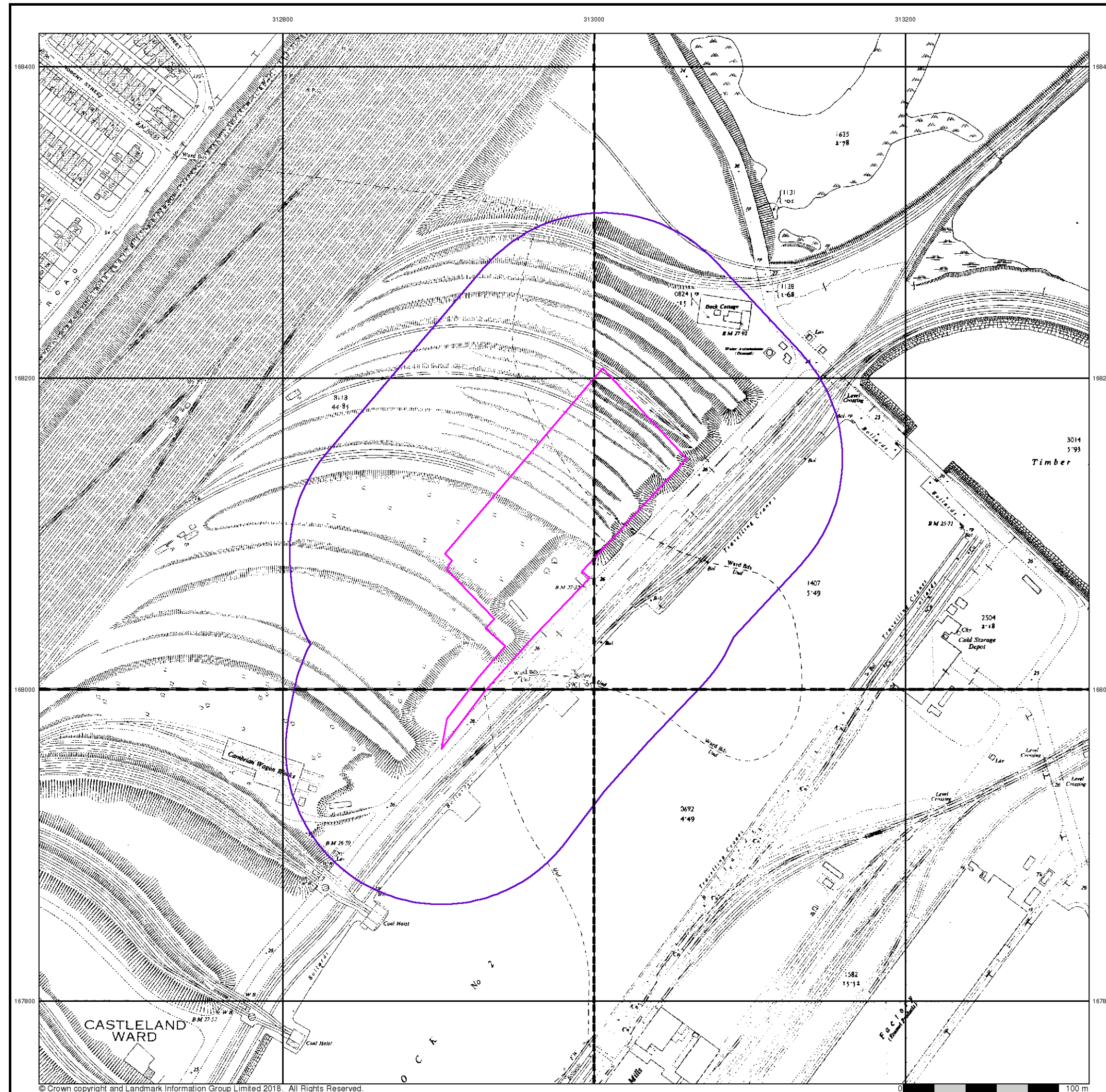
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 100

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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



Ordnance Survey Plan

Published 1955 - 1956

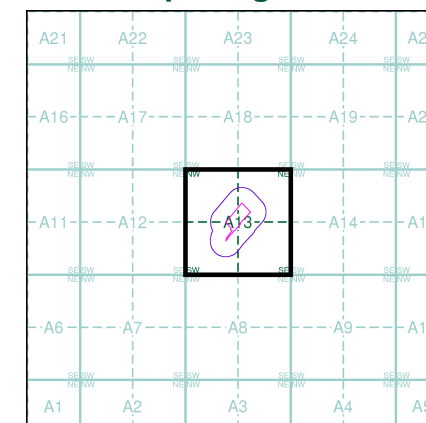
Source map scale - 1:2,500

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)

ST1268	ST1368
1955	1956
12,500	12,500
ST1267	ST1367
1956	1956
12,500	12,500

Historical Map - Segment A13



Order Details

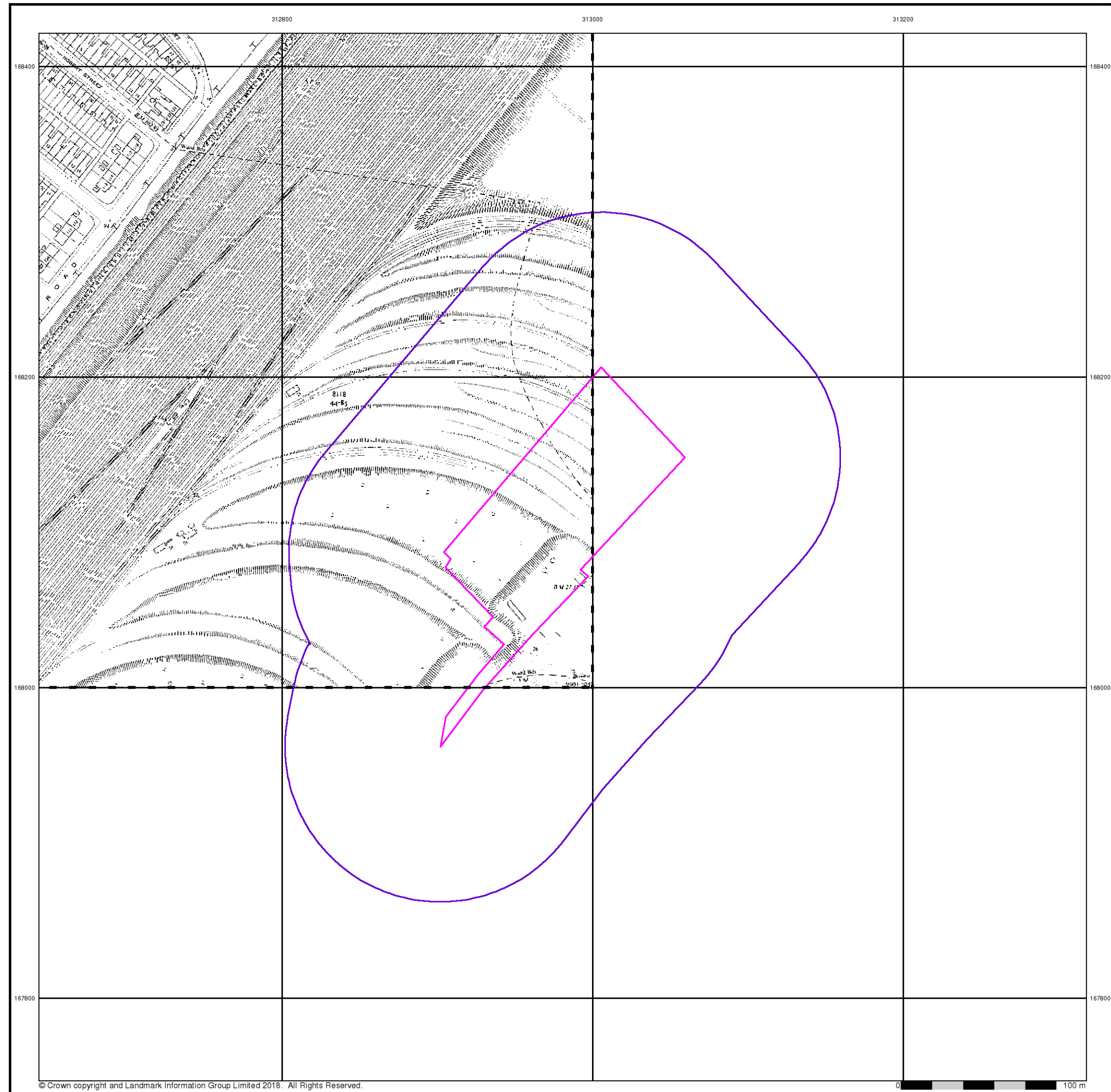
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 100

Site Details

Site at, Barry Dock, The Vale of Glamorgan

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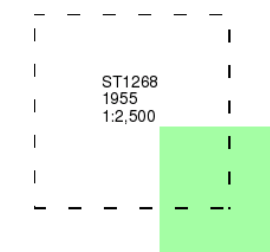
Additional SIMs

Published 1955

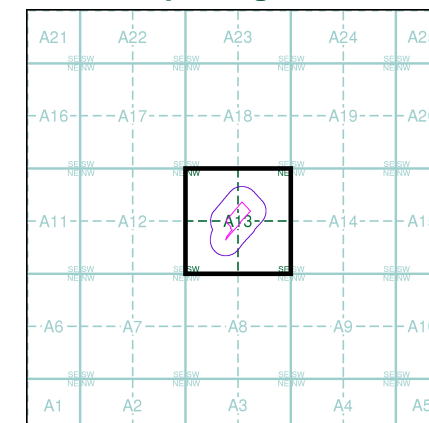
Source map scale - 1:2,500

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

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
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Site Area (Ha): 1.33
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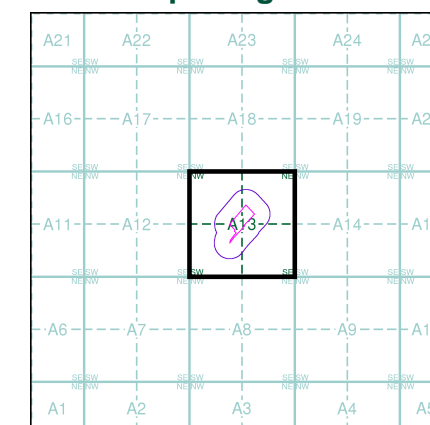


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

ST1268SE	ST1368SW
1972	1973
1:1,250	1:1,250
ST1267NE	ST1367NW
1971	1963
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

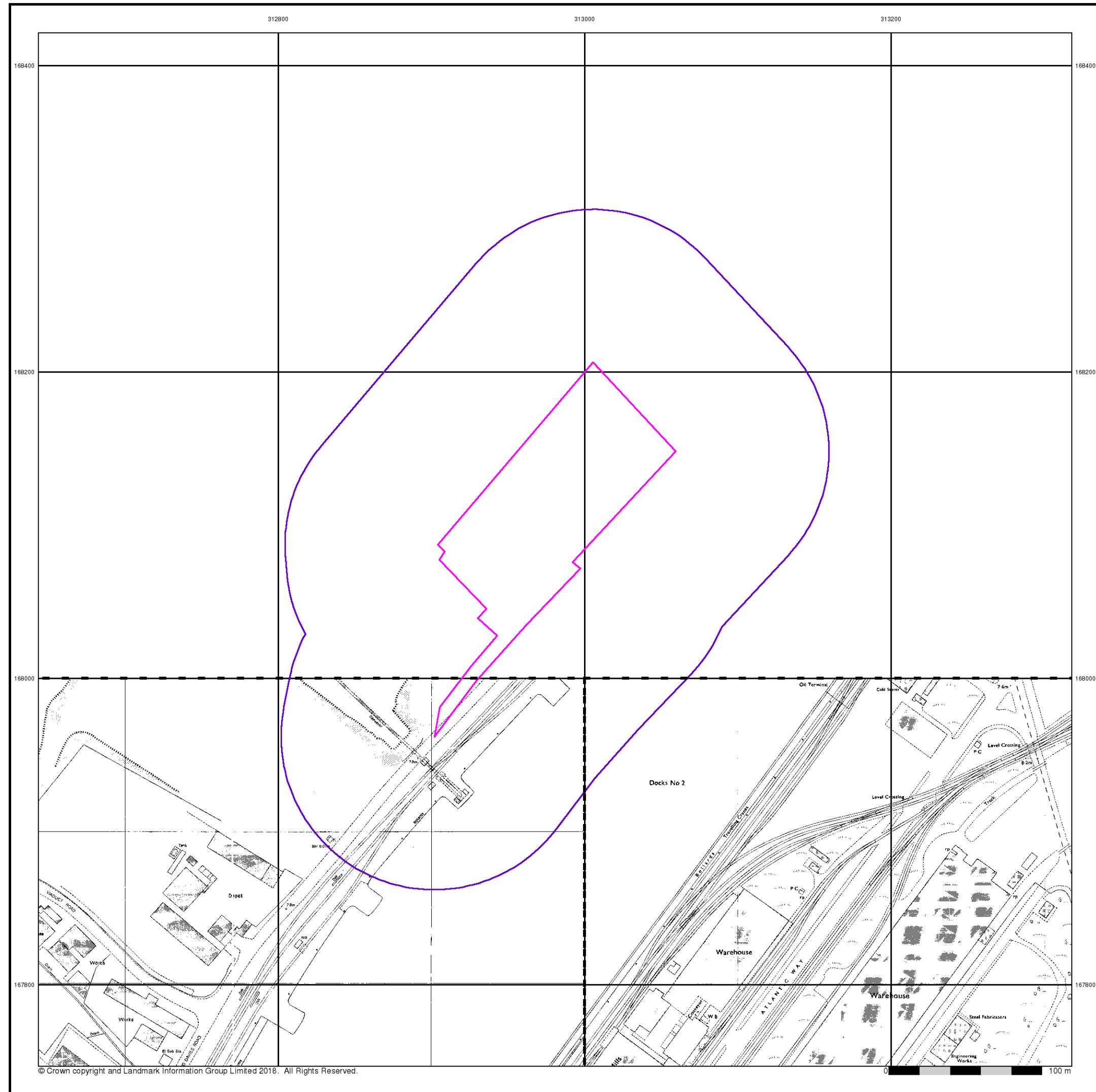
Order Number: 154476684_1_1
Customer Ref: A105832
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Slice: A
Site Area (Ha): 1.33
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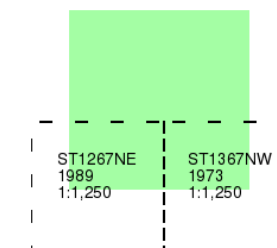
Ordnance Survey Plan

Published 1973 - 1989

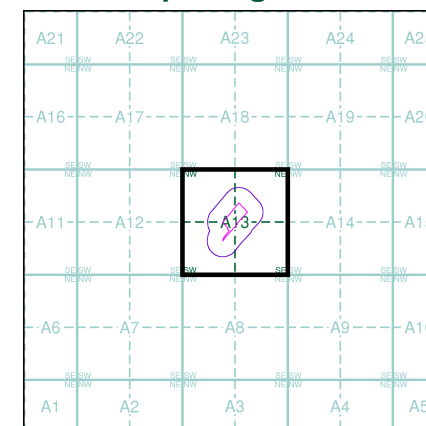
Source map scale - 1:1,250

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

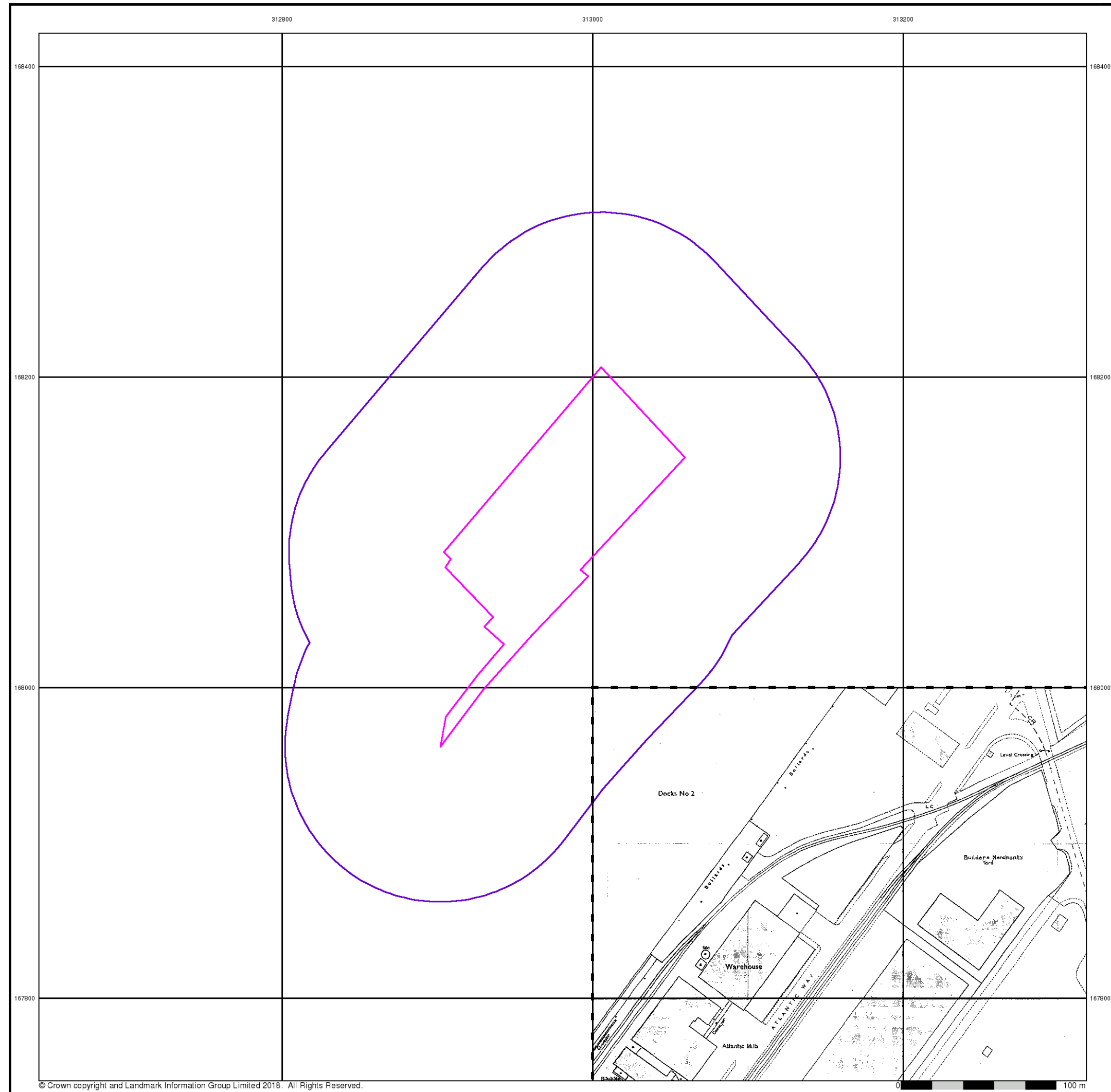
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 100

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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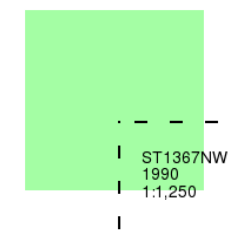
Additional SIMs

Published 1990

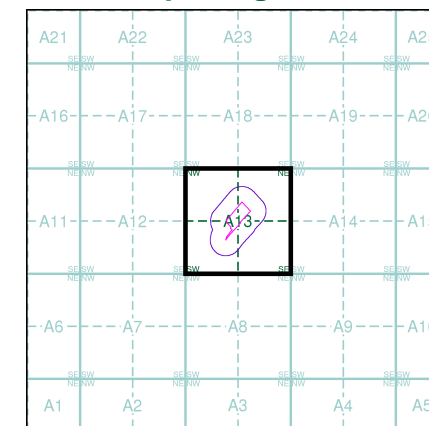
Source map scale - 1:1,250

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

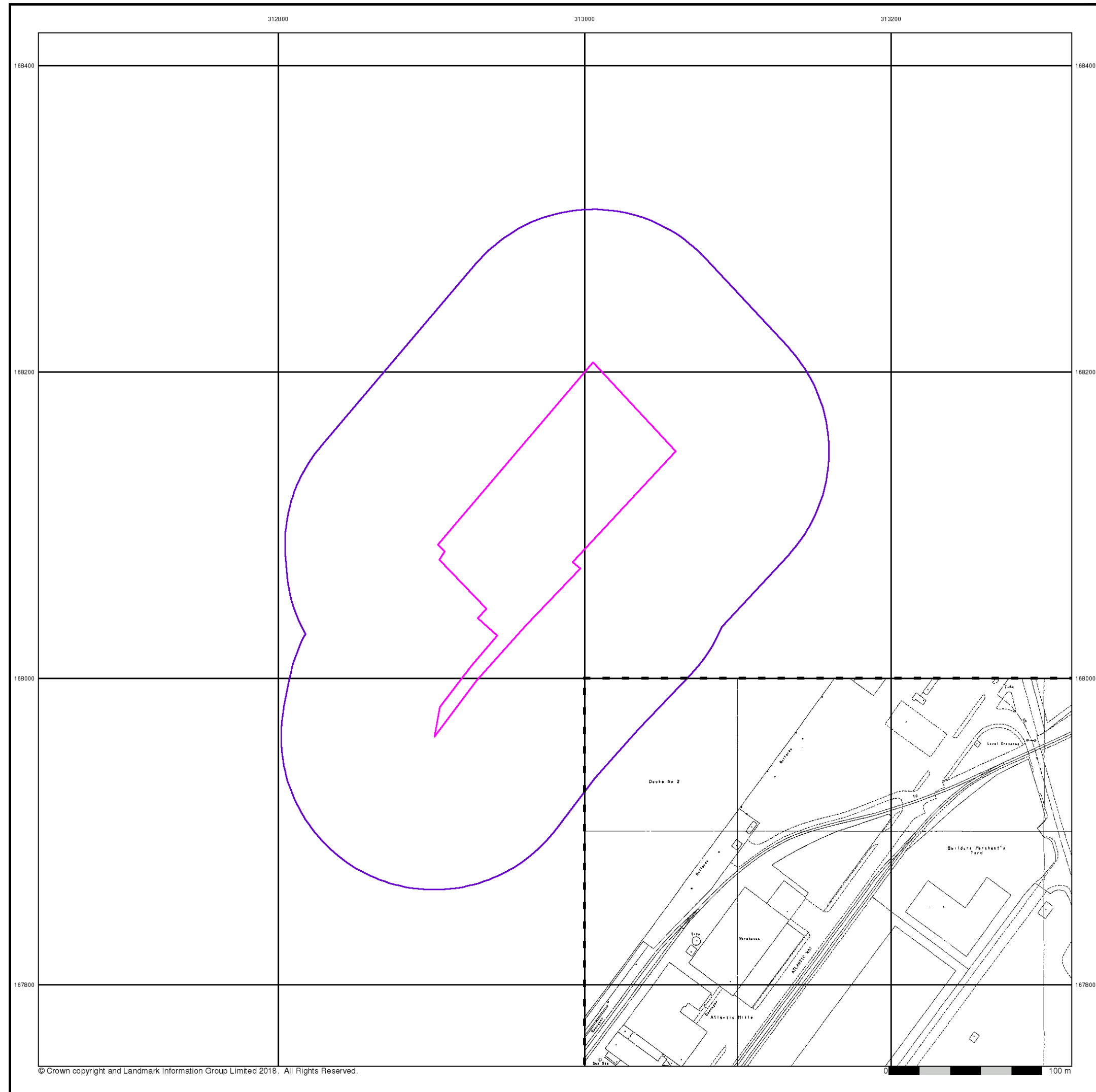
Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
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Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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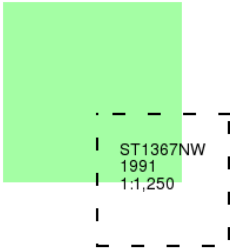
Additional SIMs

Published 1991

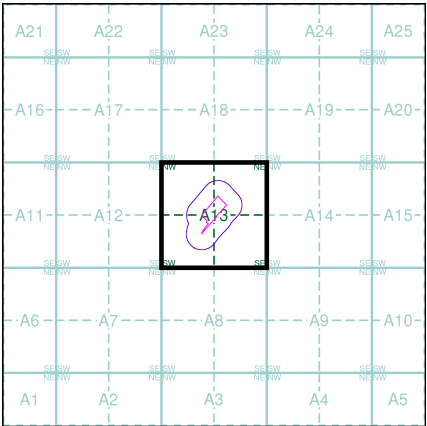
Source map scale - 1:1,250

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

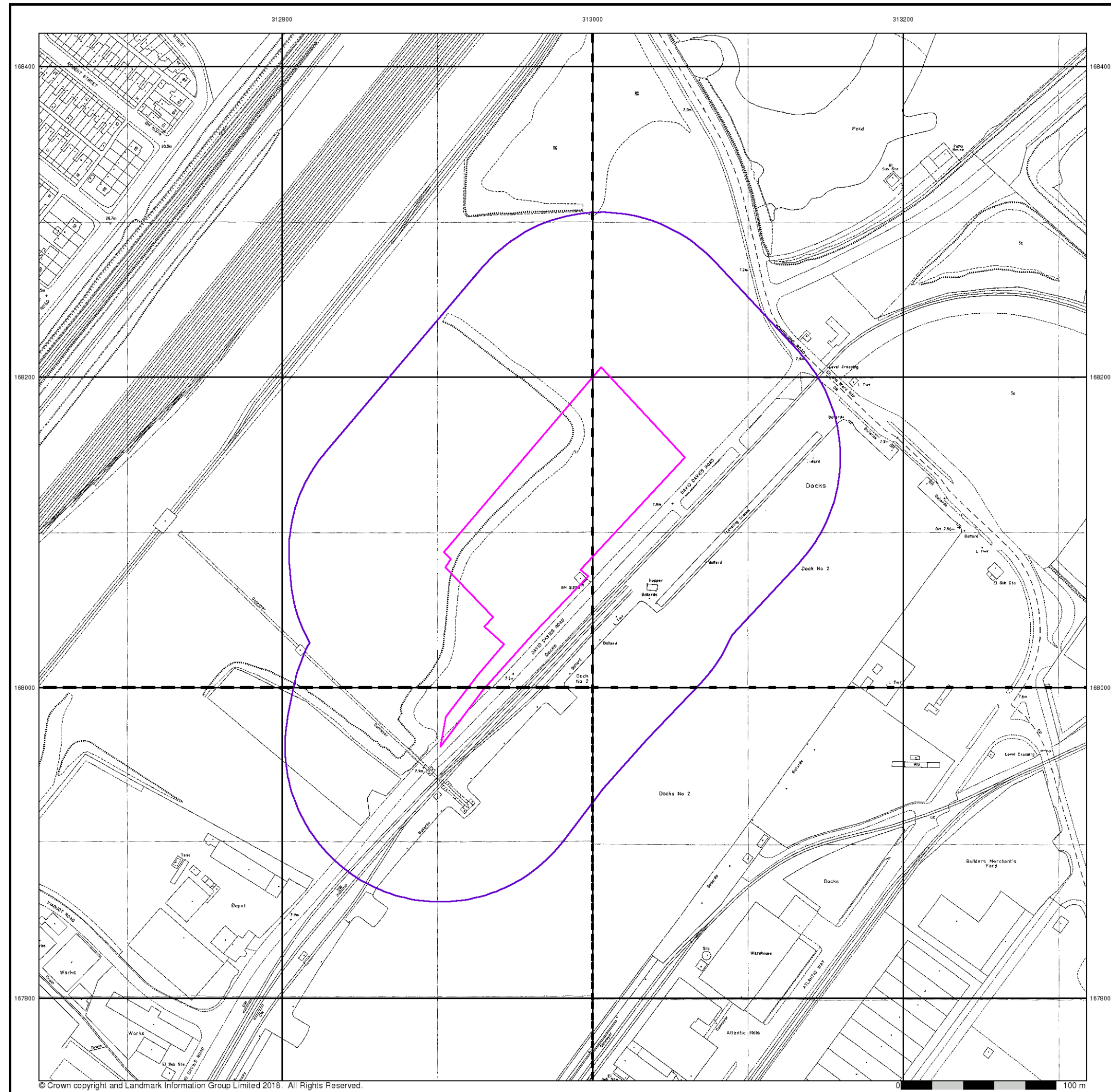
Order Number: 154476684_1_1
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Large-Scale National Grid Data

Published 1993

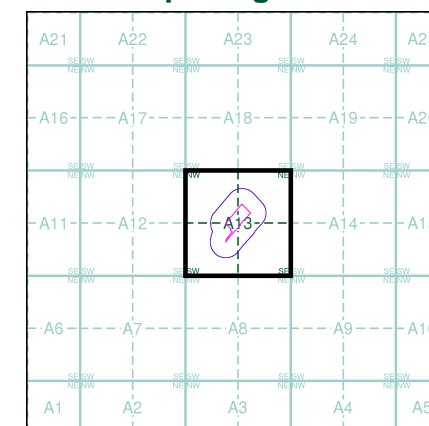
Source map scale - 1:1,250

'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)

ST1268SE 1993 1:1,250	ST1368SW 1993 1:1,250
ST1267NE 1993 1:1,250	ST1367NW 1993 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
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Site Area (Ha): 1.33
Search Buffer (m): 100

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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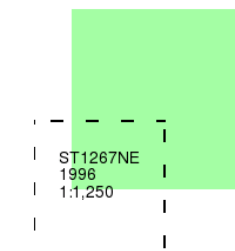
Large-Scale National Grid Data

Published 1996

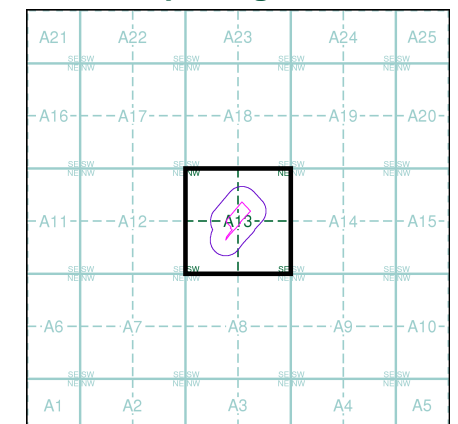
Source map scale - 1:1,250

'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

Order Number: 154476684_1_1
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National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
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Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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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

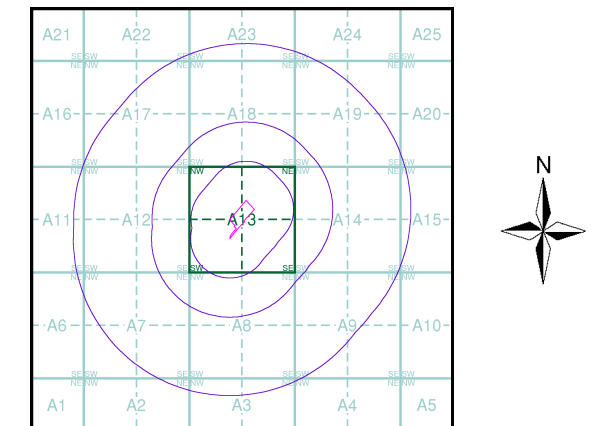
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1885	2
Glamorganshire	1:10,560	1901	3
Glamorganshire	1:10,560	1921 - 1922	4
Glamorganshire	1:10,560	1922	5
Glamorganshire	1:10,560	1922	6
Glamorganshire	1:10,560	1936	7
Glamorganshire	1:10,560	1938 - 1947	8
Ordnance Survey Plan	1:10,000	1965	9
Ordnance Survey Plan	1:10,000	1975	10
Ordnance Survey Plan	1:10,000	1984	11
Ordnance Survey Plan	1:10,000	1991	12
10K Raster Mapping	1:10,000	1999	13
Street View	Variable		14

Historical Map - Slice A



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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



Glamorganshire

Published 1885

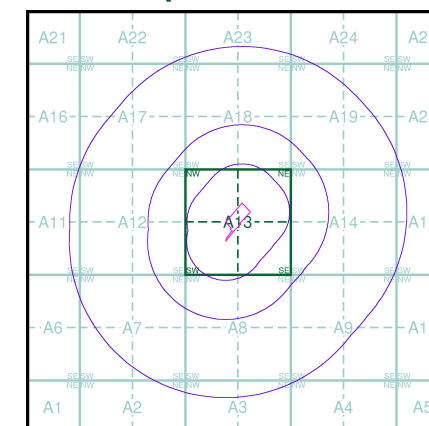
Source map scale - 1:10,560

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)

04600 1885 1:10,560	04700 1885 1:10,560
05000 1885 1:10,560	05100 1885 1:10,560

Historical Map - Slice A



Order Details

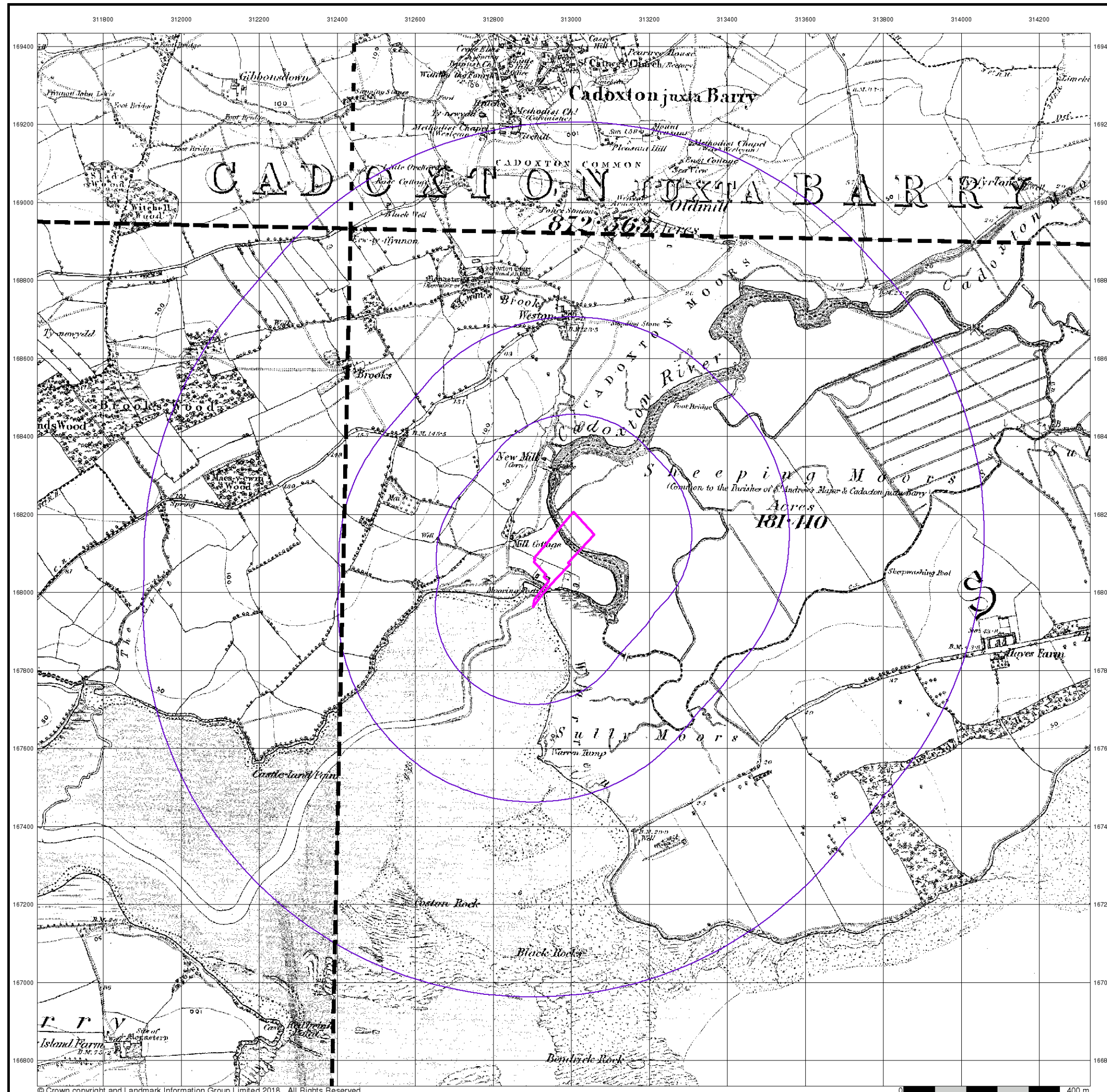
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Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

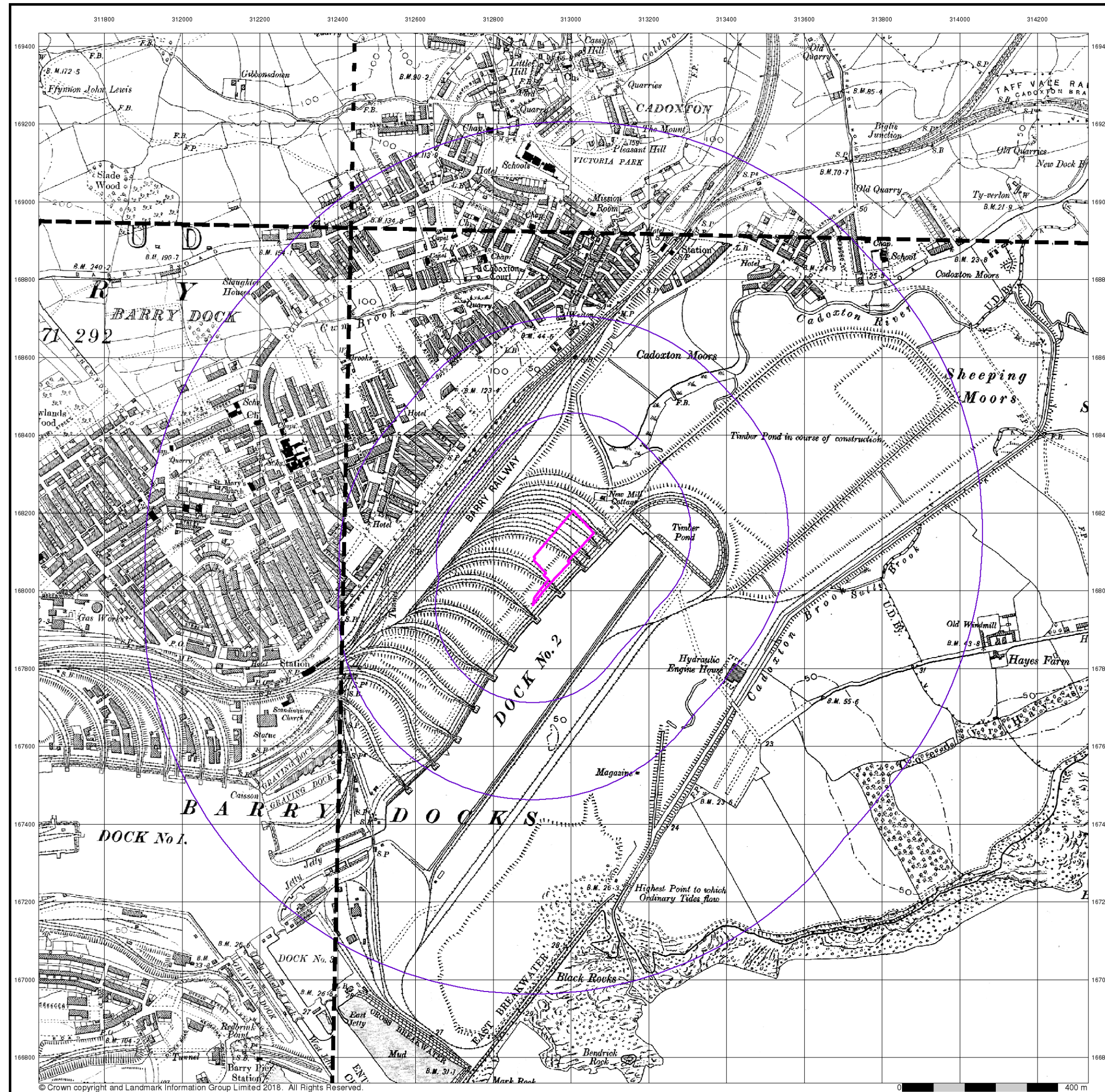
Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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Glamorganshire

Published 1901

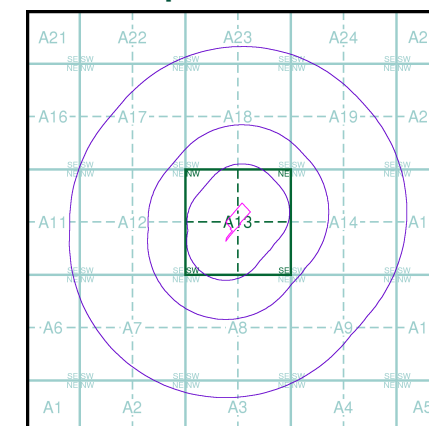
Source map scale - 1:10,560

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)

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050NE 1901 1:10,560	051NW 1901 1:10,560

Historical Map - Slice A



Order Details

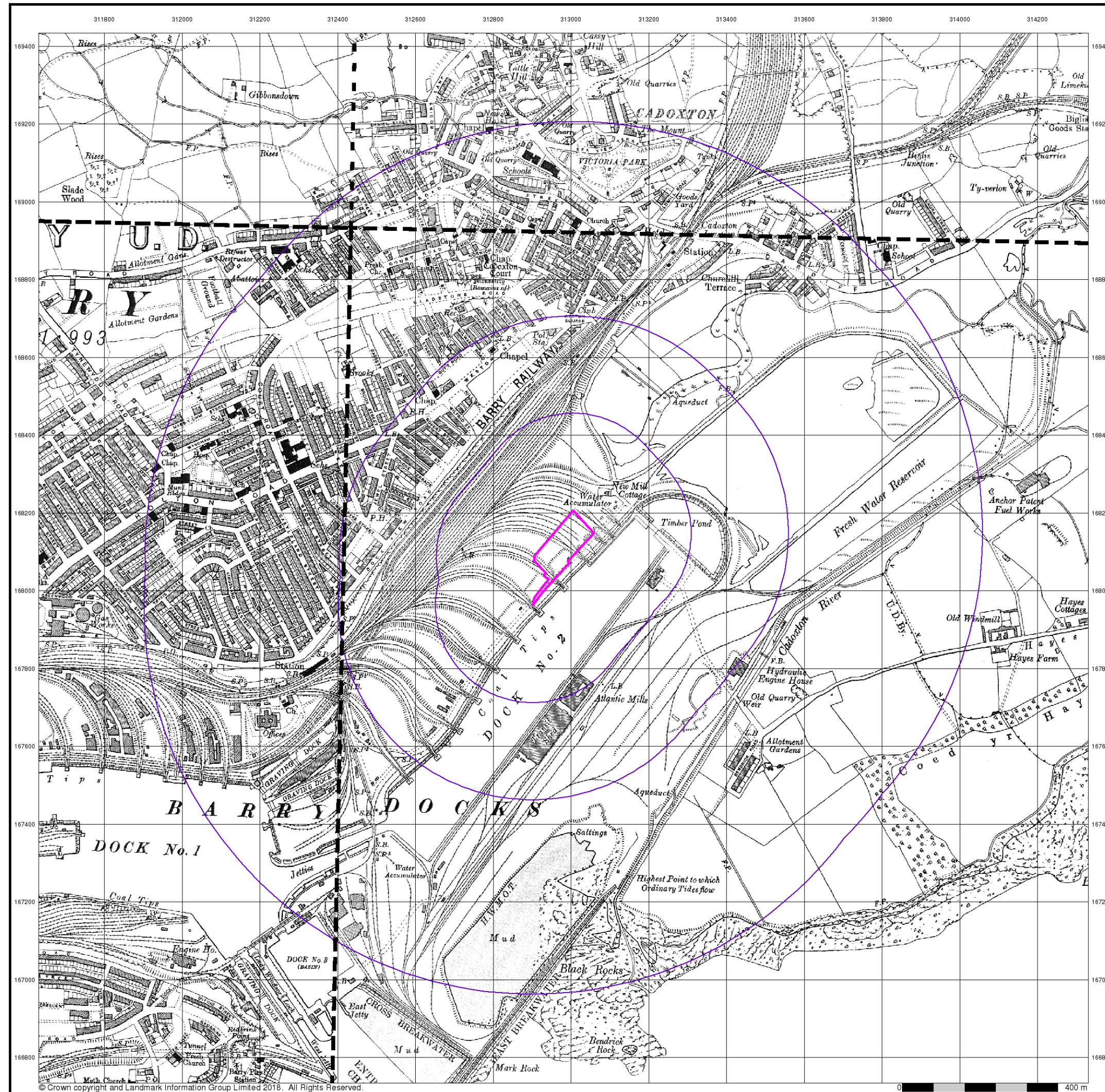
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Slice: A
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Search Buffer (m): 1000

Site Details

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Glamorganshire

Published 1921 - 1922

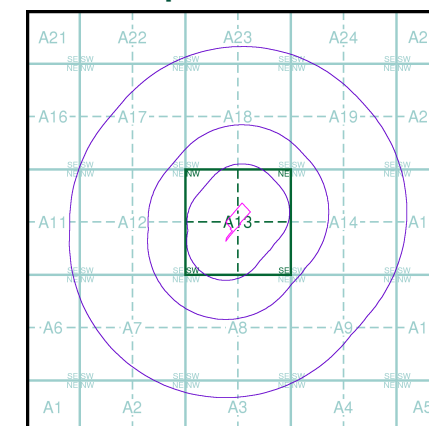
Source map scale - 1:10,560

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)

046SE 1921 1:10,560	047SW 1922 1:10,560
050NE 1921 1:10,560	051NW 1921 1:10,560

Historical Map - Slice A



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

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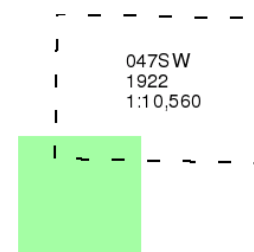
Glamorganshire

Published 1922

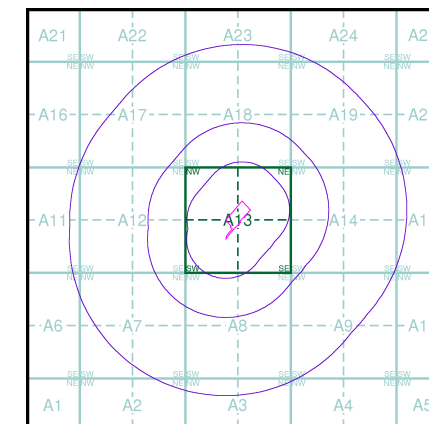
Source map scale - 1:10,560

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



Order Details

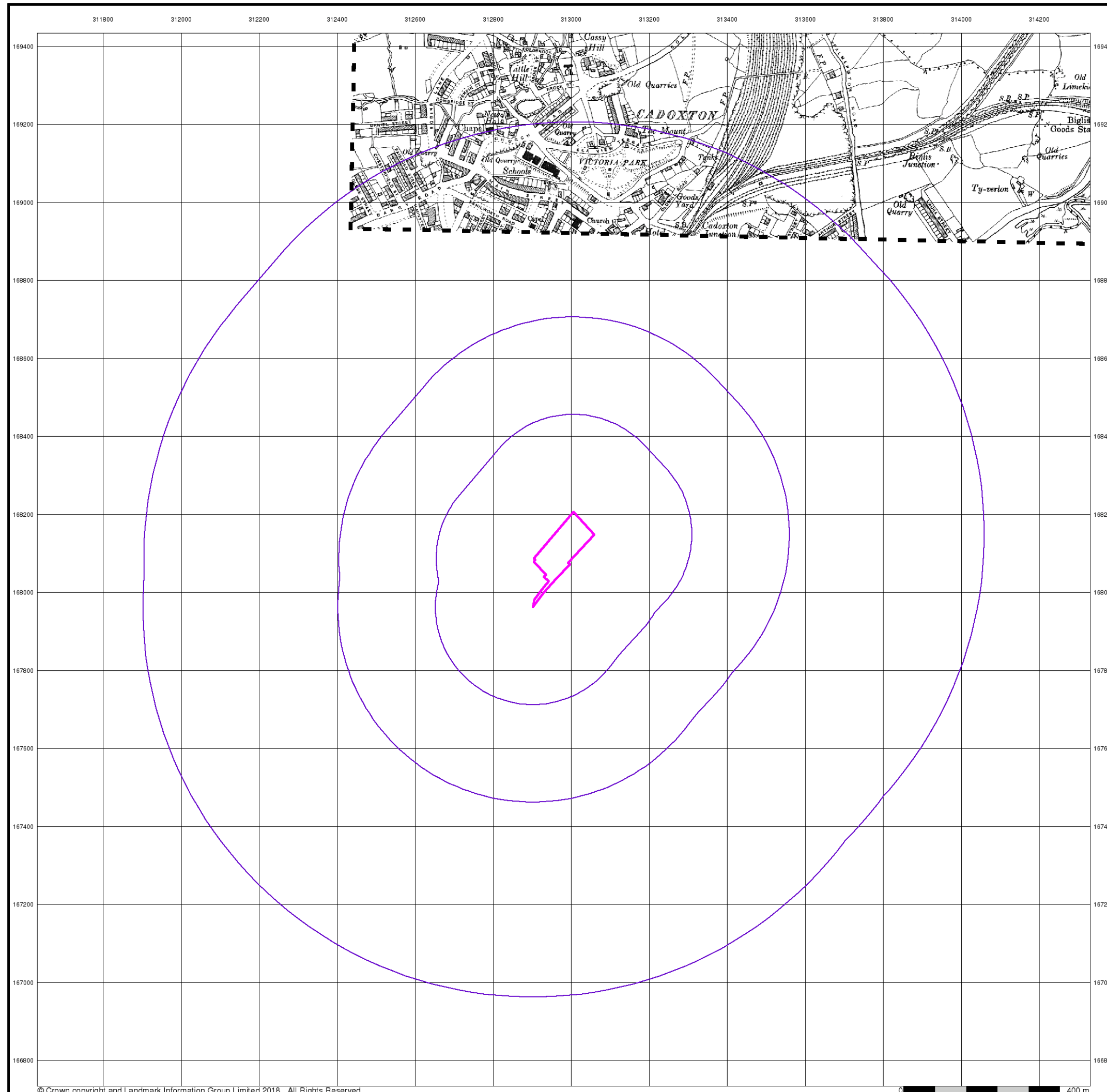
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Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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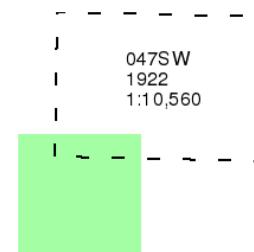
Glamorganshire

Published 1922

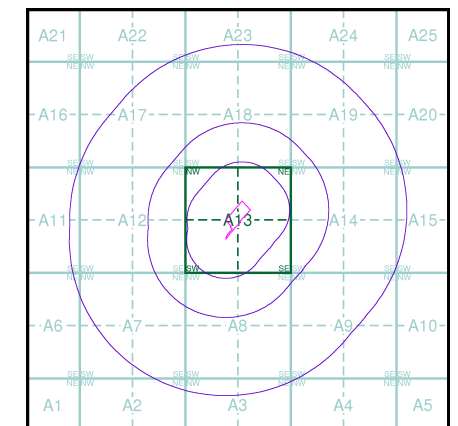
Source map scale - 1:10,560

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



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
INFORMATION GROUP

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





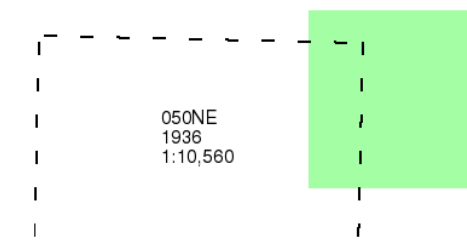
Glamorganshire

Published 1936

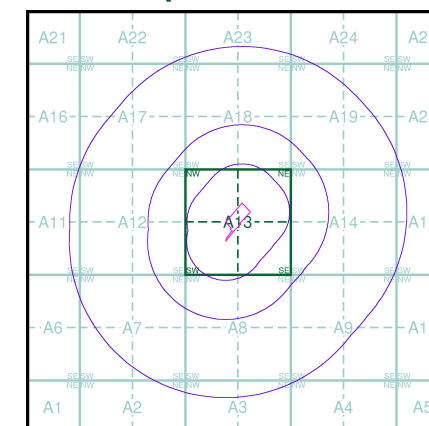
Source map scale - 1:10,560

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



Order Details

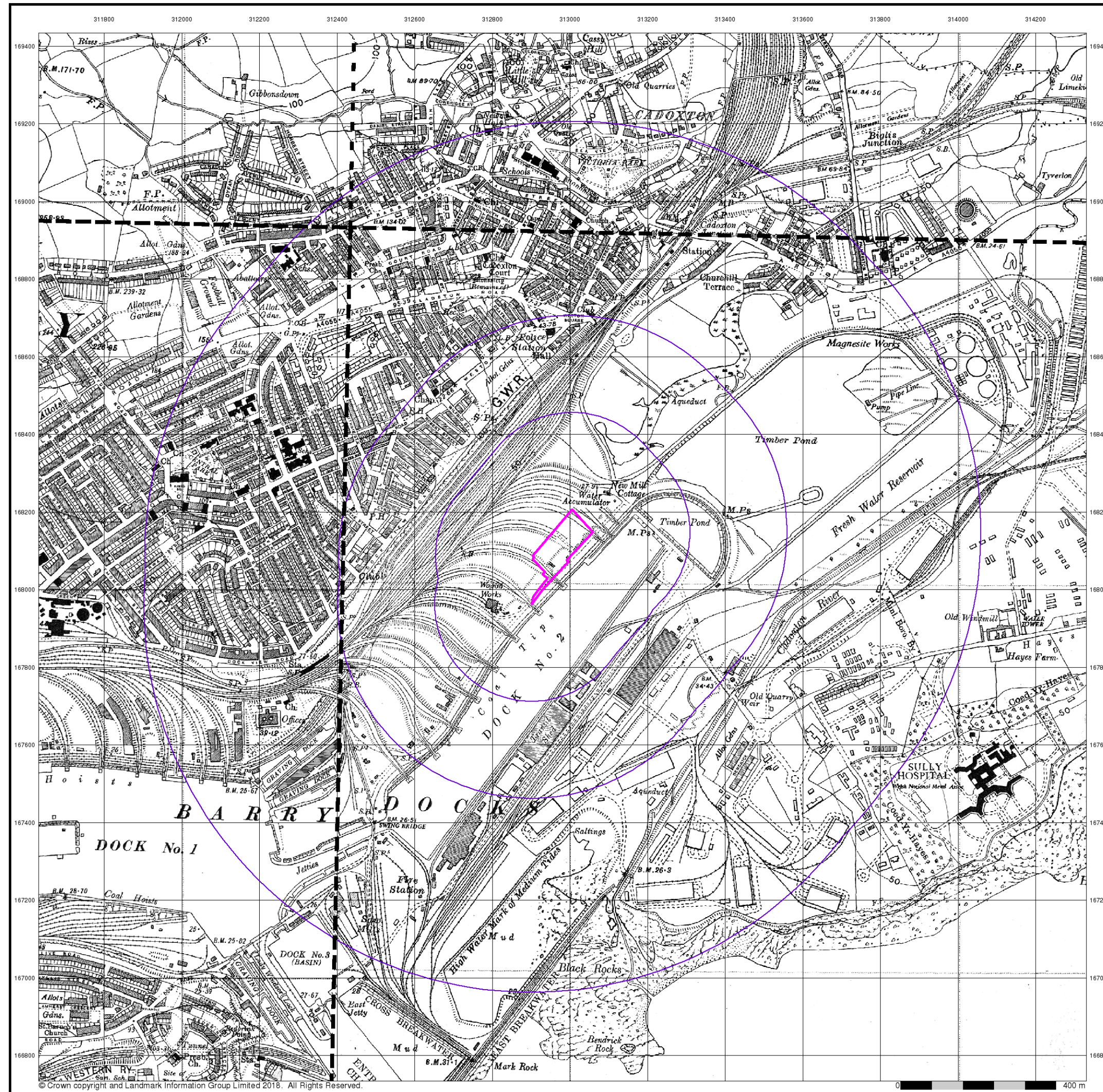
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Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

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Glamorganshire

Published 1938 - 1947

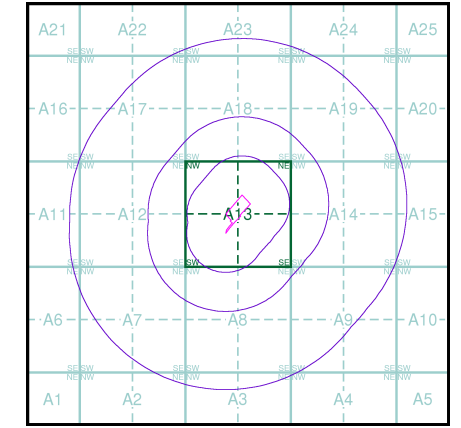
Source map scale - 1:10,560

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)

046SE 1947 1:10,560	047SW 1947 1:10,560
050NE 1938 1:10,560	051NW 1947 1:10,560

Historical Map - Slice A



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan



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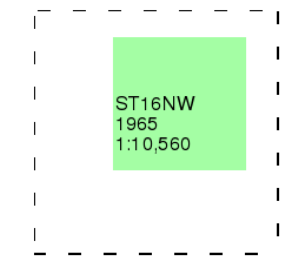
Ordnance Survey Plan

Published 1965

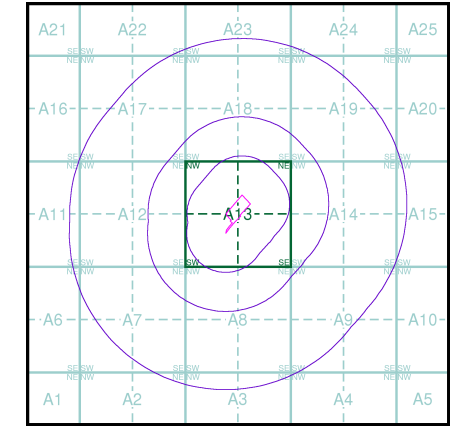
Source map scale - 1:10,000

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



Order Details

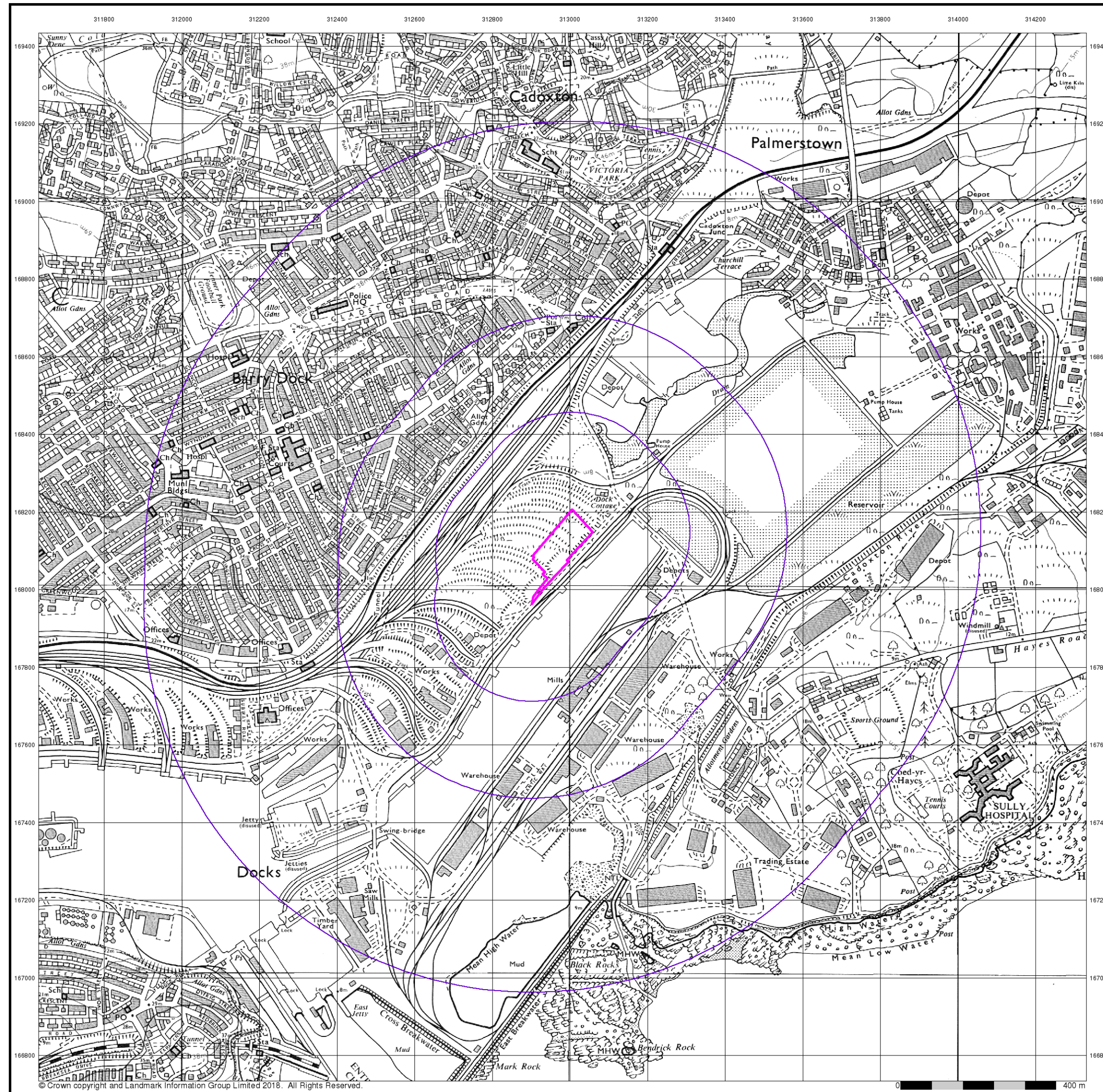
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Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan



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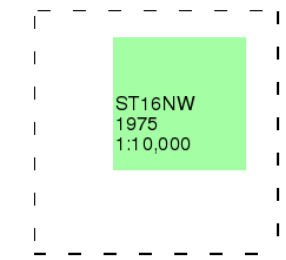
Ordnance Survey Plan

Published 1975

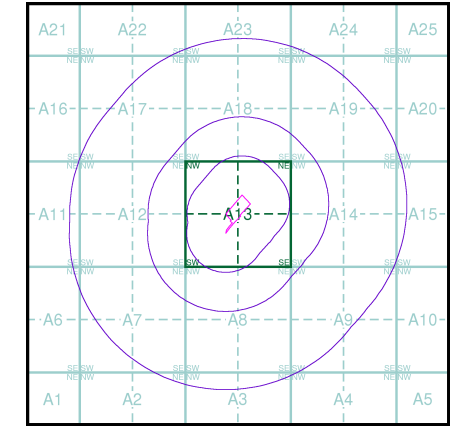
Source map scale - 1:10,000

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



Order Details

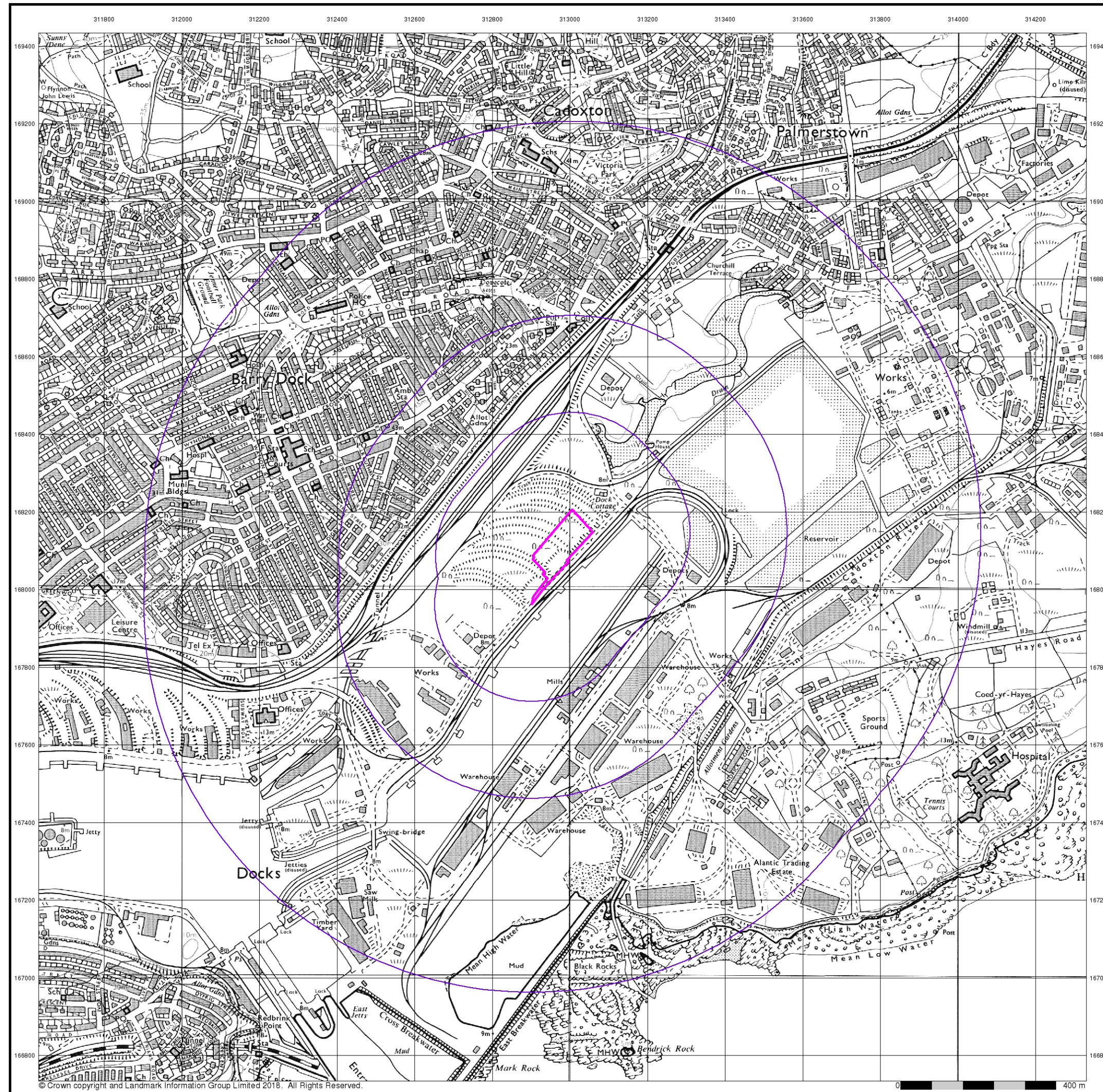
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National Grid Reference: 312970, 168080
Slice: A
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Search Buffer (m): 1000

Site Details

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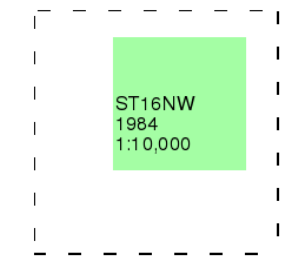
Ordnance Survey Plan

Published 1984

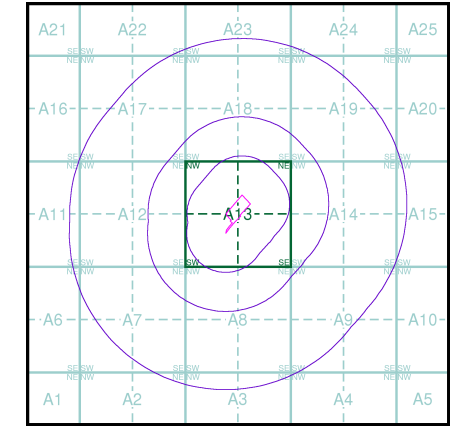
Source map scale - 1:10,000

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



Order Details

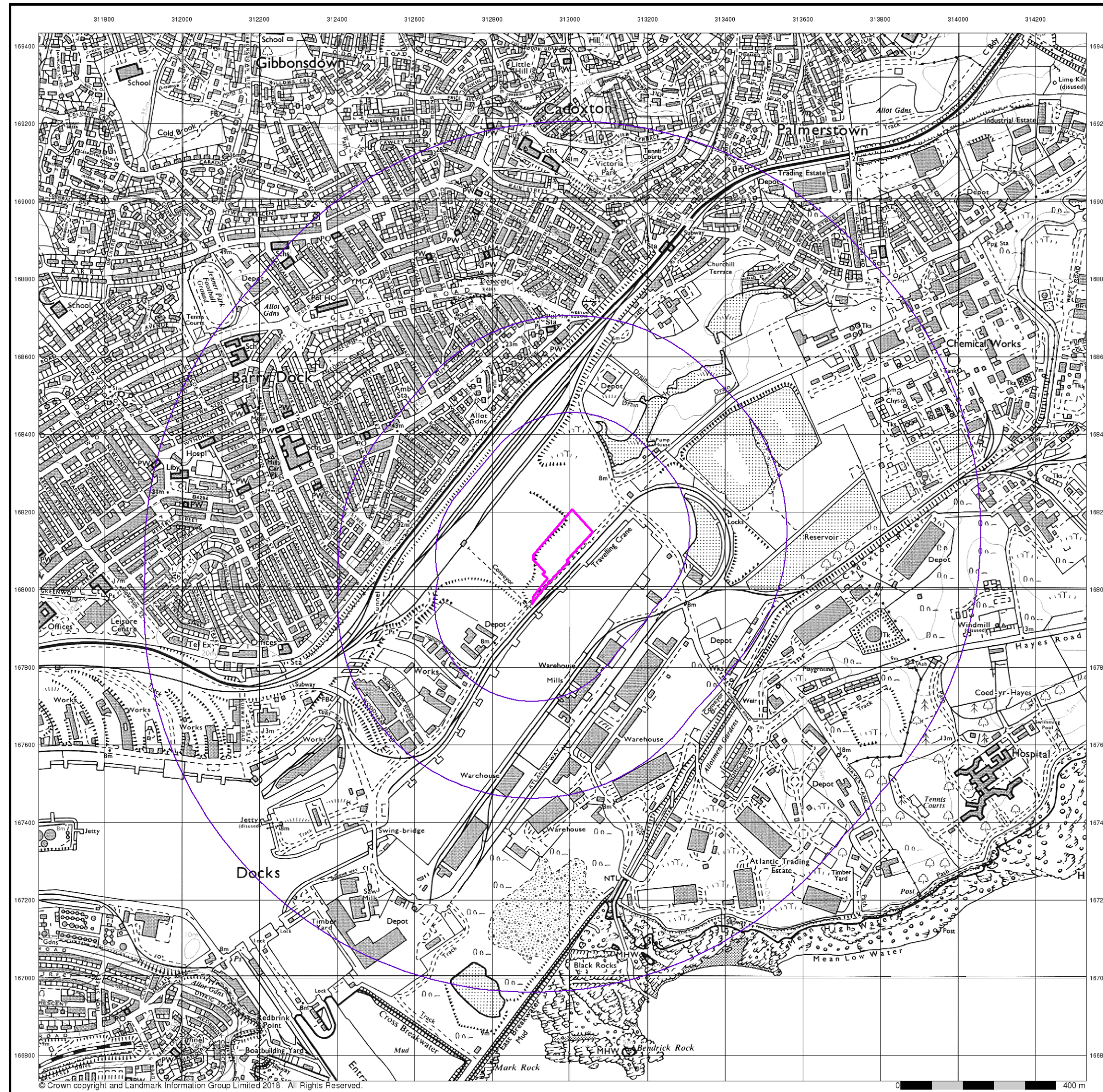
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Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

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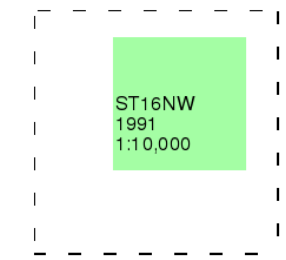
Ordnance Survey Plan

Published 1991

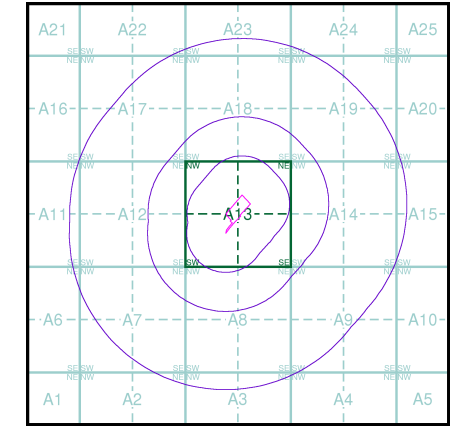
Source map scale - 1:10,000

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



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

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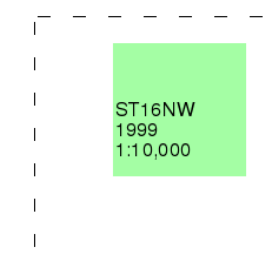
10k Raster Mapping

Published 1999

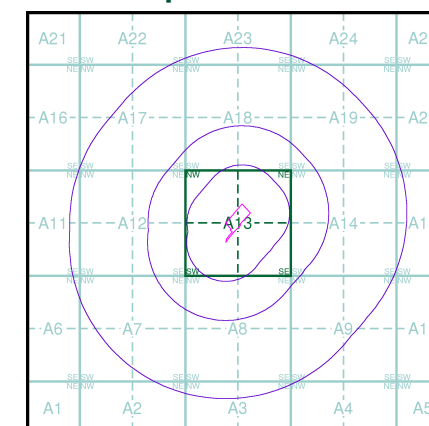
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

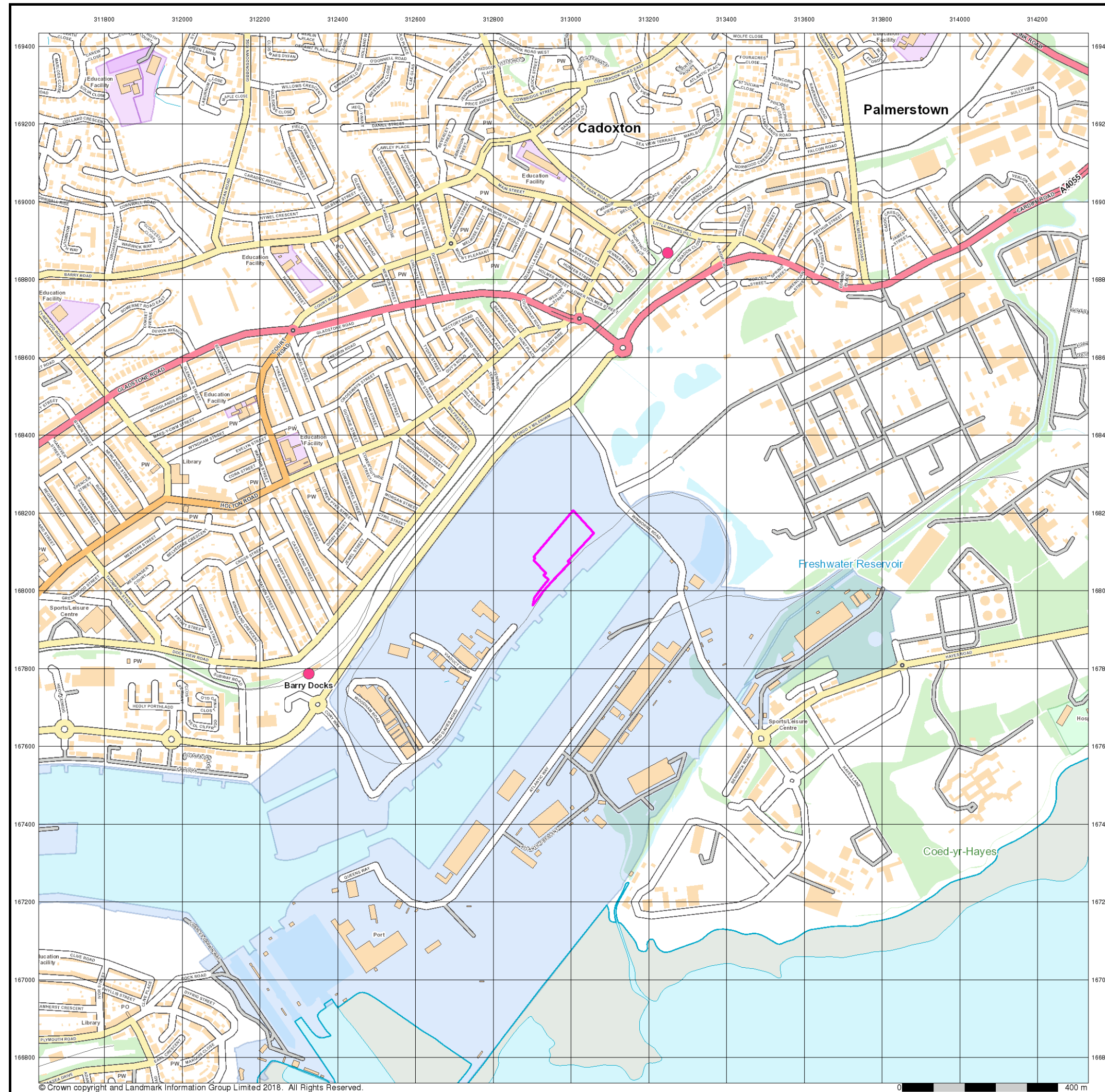
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Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

Site at, Barry Dock, The Vale of Glamorgan

Landmark
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Street View

Published 2018

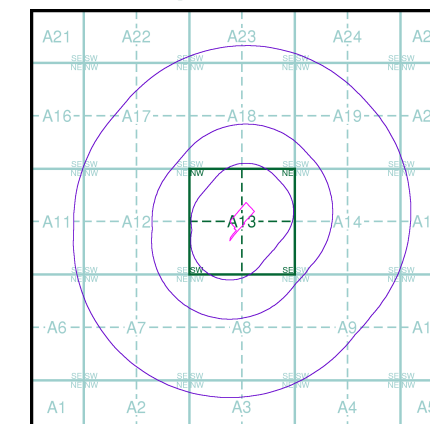
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)



Street View Map - Slice A



Order Details

Order Number: 154476684_1_1
Customer Ref: A105832
National Grid Reference: 312970, 168080
Slice: A
Site Area (Ha): 1.33
Search Buffer (m): 1000

Site Details

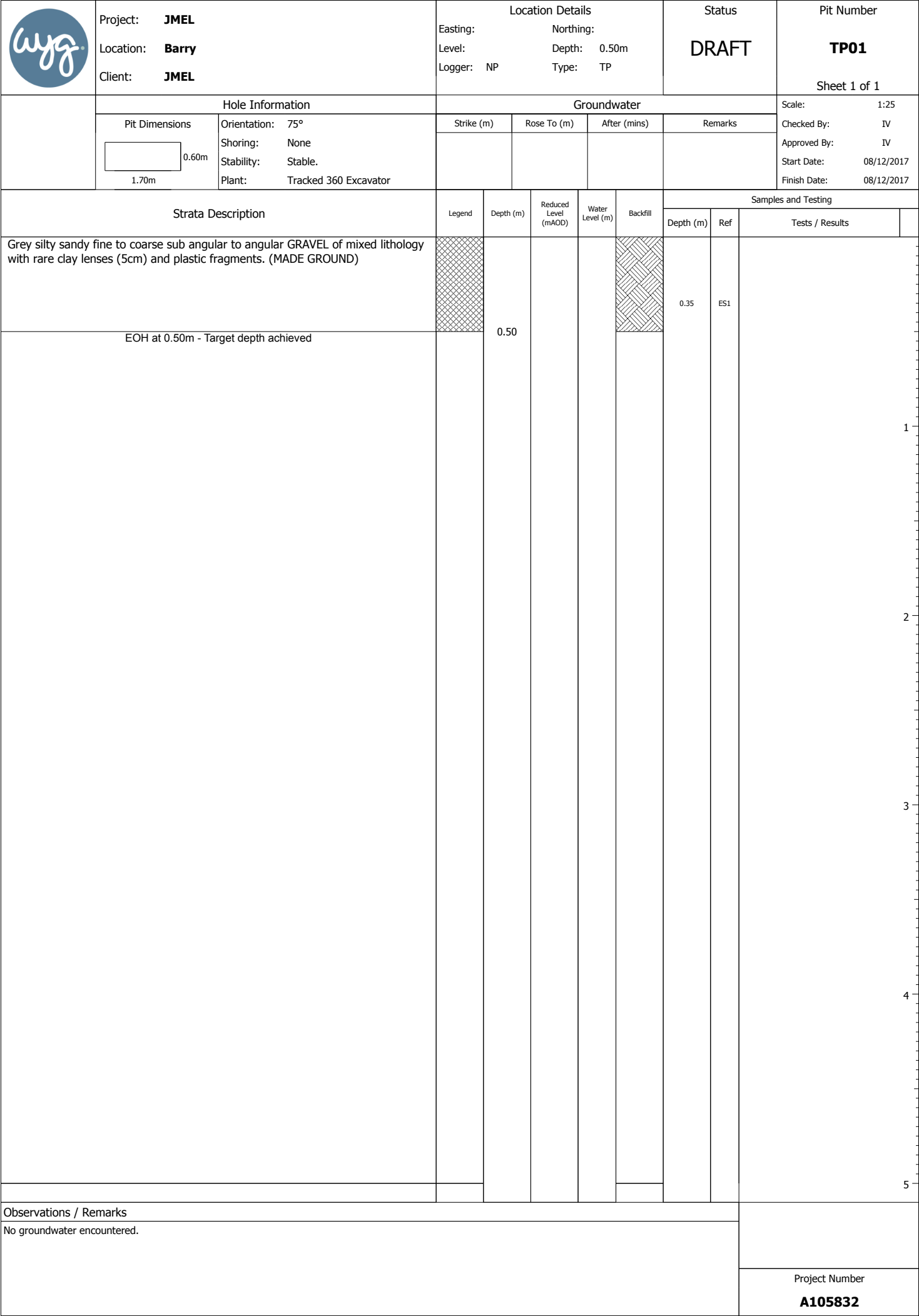
Site at, Barry Dock, The Vale of Glamorgan

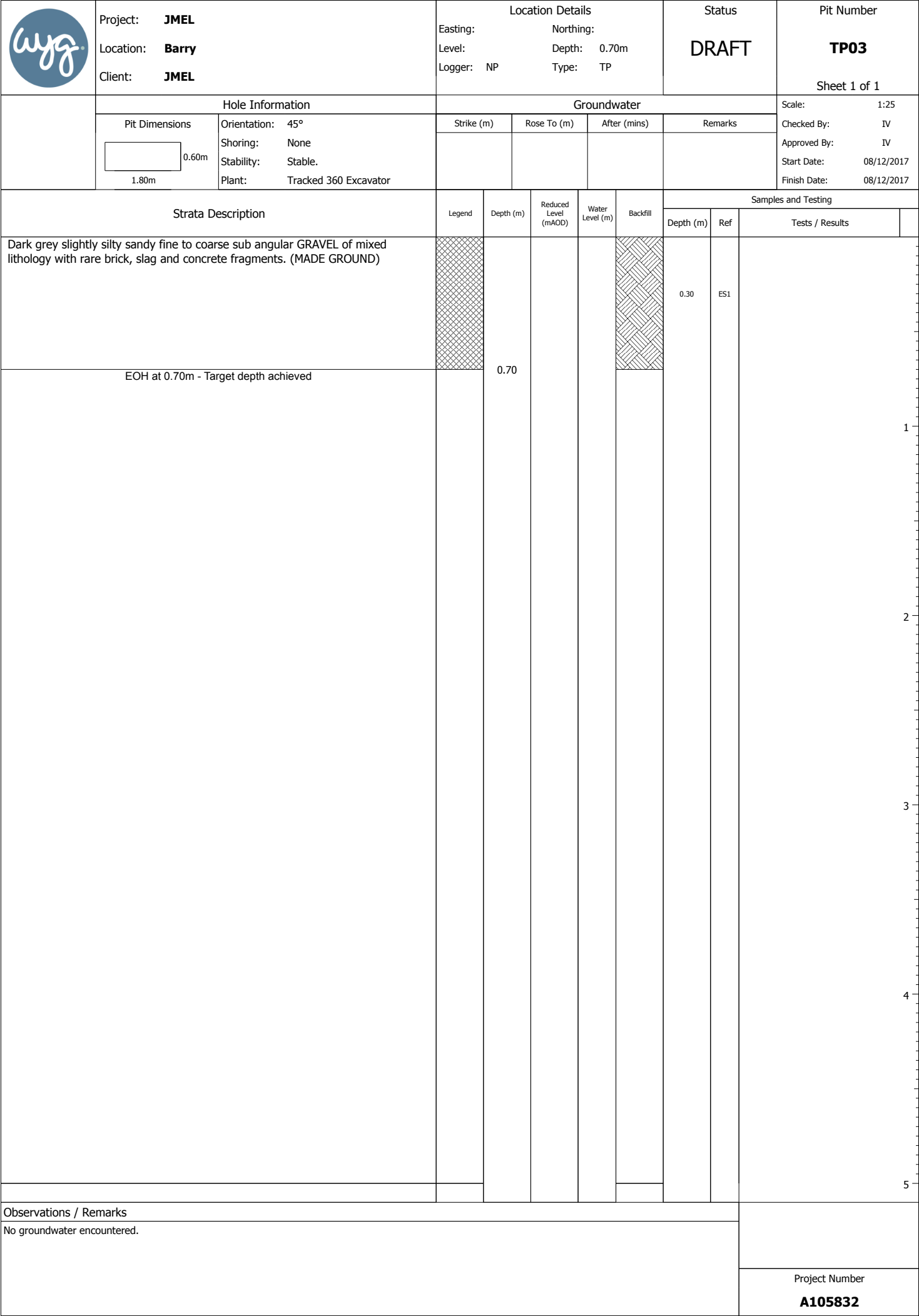
Landmark
INFORMATION GROUP

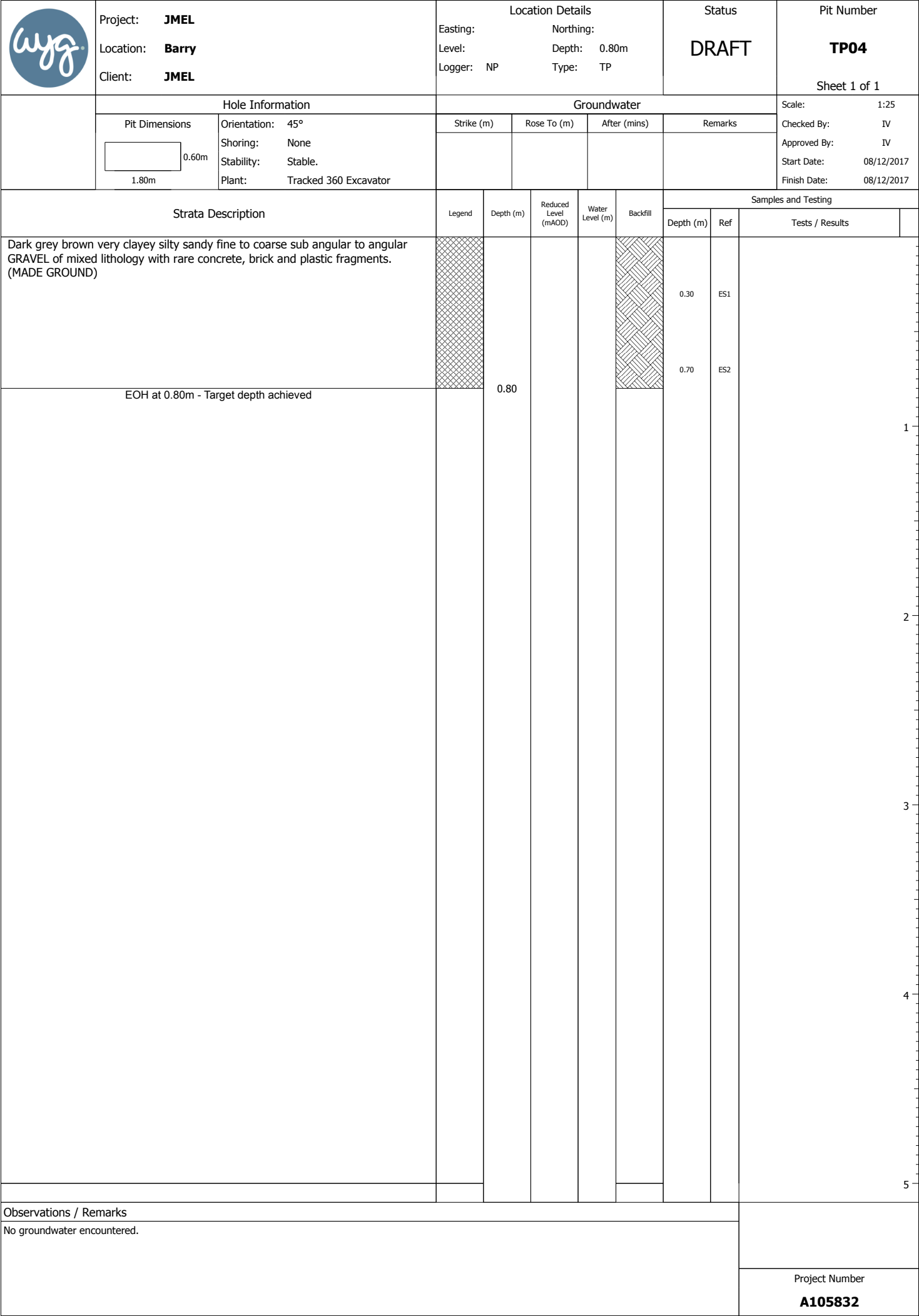
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





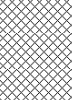



Appendix C – Exploratory Hole Logs and Photo Plates







	Project: JMEL		Location Details				Status		Pit Number		
	Location: Barry		Easting:		Northing:		DRAFT		TP05		
Client: JMEL		Level:		Depth: 0.70m							
		Logger: NP		Type: TP				Sheet 1 of 1			
	Hole Information		Groundwater				Scale: 1:25				
	Orientation: 25°		Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: IV				
	Shoring: None						Approved By: IV				
Stability: Stable.						Start Date: 08/12/2017					
Plant: Tracked 360 Excavator						Finish Date: 08/12/2017					
Strata Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing				
							Depth (m)	Ref	Tests / Results		
CONCRETE											
Dark grey brown very clayey silty sandy fine to coarse sub angular to angular GRAVEL of mixed lithology with rare concrete, brick and plastic fragments. (MADE GROUND) <i>Geotextile membrane at 0.35m bgl.</i>			0.35				0.40	ES1			
EOH at 0.70m - Target depth achieved			0.70				0.60	ES2			
									1		
									2		
									3		
									4		
									5		
Observations / Remarks											
No groundwater encountered.											
							Project Number				
							A105832				


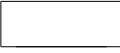


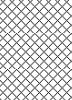
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	Location: Barry		Easting:		Northing:		DRAFT		TP06		
Client: JMEL		Level:		Depth: 0.70m							
		Logger: NP		Type: TP				Sheet 1 of 1			
	Hole Information		Groundwater				Scale: 1:25				
	Orientation: 25°		Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: IV				
	Shoring: None						Approved By: IV				
Stability: Stable.						Start Date: 08/12/2017					
Plant: Tracked 360 Excavator						Finish Date: 08/12/2017					
Strata Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing				
							Depth (m)	Ref	Tests / Results		
CONCRETE											
Dark grey brown very clayey silty sandy fine to coarse sub angular to angular GRAVEL of mixed lithology with rare concrete, brick and plastic fragments. (MADE GROUND) <i>Geotextile membrane at 0.35m bgl.</i>			0.35				0.40	ES1			
EOH at 0.70m - Target depth achieved			0.70								
									1		
									2		
									3		
									4		
									5		
Observations / Remarks											
No groundwater encountered.											
							Project Number				
							A105832				



Plate 1

TP01 Pit



Plate 2

TP01 Spoil

WYG Environment
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321
E-mail: enviro.cardiff@wyg.com
Environmental Consultancy
Ground Technologies & Investigation



Project :-

PROJECT NAME: Land At Barry Dock

Client: JMEL

Project No.: - 105832

Date : - Dec. 2017



Plate 3

TP02 Pit



Plate 4

TP02 Spoil

WYG Environment
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321
E-mail enviro.cardiff@wyg.com
Environmental Consultancy
Ground Technologies & Investigation



Project :-
PROJECT NAME: Land At Barry Dock

Client: JMEL

Project No.: - 105832

Date : - Dec. 2017



Plate 5

TP03 Pit



Plate 6

TP03 Spoil

WYG Environment
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321
E-mail: enviro.cardiff@wyg.com
Environmental Consultancy
Ground Technologies & Investigation



Project :-
PROJECT NAME: Land At Barry Dock

Client: JMEL

Project No.: - 105832

Date : - Dec. 2017



Plate 7

TP04 Pit



Plate 8

TP04 Spoil

WYG Environment
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321
E-mail enviro.cardiff@wyg.com
Environmental Consultancy
Ground Technologies & Investigation



Project :-
PROJECT NAME: Land At Barry Dock

Client: JMEL

Project No.: - 105832

Date : - Dec. 2017



Plate 9

TP05 Pit



Plate 10

TP05 Spoil

WYG Environment
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321
E-mail enviro.cardiff@wyg.com
Environmental Consultancy
Ground Technologies & Investigation



Project :-

PROJECT NAME: Land At Barry Dock

Client: JMEL

Project No.: - 105832

Date : - Dec. 2017



Plate 11

TP06 Pit



Plate 12

TP06 Spoil

WYG Environment
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321
E-mail enviro.cardiff@wyg.com
Environmental Consultancy
Ground Technologies & Investigation



Project :-
PROJECT NAME: Land At Barry Dock

Client: JMEL

Project No.: - 105832

Date : - Dec. 2017



Plate 13

TP07 Pit



Plate 14

TP07 Spoil

WYG Environment
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321
E-mail enviro.cardiff@wyg.com
Environmental Consultancy
Ground Technologies & Investigation



Project :-

PROJECT NAME: Land At Barry Dock

Client: JMEL

Project No.: - 105832

Date : - Dec. 2017



Appendix D – Environmental Laboratory Testing Results



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

WYG Geo-Environment
5th Floor
Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Attention: Nick Paulakis

CERTIFICATE OF ANALYSIS

Date: 10 January 2018
Customer: H_WYG_CDF
Sample Delivery Group (SDG): 171211-3
Your Reference: A105832
Location: JMEL, Barry
Report No: 439568

This report has been revised and directly supersedes 437486 in its entirety.

We received 10 samples on Monday December 11, 2017 and 8 of these samples were scheduled for analysis which was completed on Tuesday December 19, 2017. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
16734546	TP01	ESES1	0.35 - 0.35	08/12/2017
16734555	TP02	ESES1	0.45 - 0.45	08/12/2017
16734562	TP03	ESES1	0.30 - 0.30	08/12/2017
16734566	TP04	ESES1	0.30 - 0.30	08/12/2017
16734571	TP04	ESES2	0.70 - 0.70	08/12/2017
16734575	TP05	ESES1	0.40 - 0.40	08/12/2017
16734579	TP05	ESES2	0.60 - 0.60	08/12/2017
16734584	TP06	ESES1	0.40 - 0.40	08/12/2017
16734589	TP07	ESES1	0.20 - 0.20	08/12/2017
16734550	TP07	ESES2	0.55 - 0.55	08/12/2017

Maximum Sample/Coolbox Temperature (°C) :

3.6

ISO5667-3 Water quality - Sampling - Part3 -

During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	16734546		TP01		ESES1		0.35 - 0.35		60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	S	
	16734555		TP02		ESES1		0.45 - 0.45		60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	S	
	16734562		TP03		ESES1		0.30 - 0.30		60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	S	
	16734571		TP04		ESES2		0.70 - 0.70		60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	S	
	16734579		TP05		ESES2		0.60 - 0.60		60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	S	
	16734584		TP06		ESES1		0.40 - 0.40		60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	S	
	16734589		TP07		ESES1		0.20 - 0.20		60g VOC (ALE215) 250g Amber Jar (ALE210) 1kg TUB	S	S	
Alkalinity Filtered as CaCO3	All	NDPs: 0 Tests: 3										
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 3										
Anions by Kone (soil)	All	NDPs: 0 Tests: 8										
Anions by Kone (w)	All	NDPs: 0 Tests: 3										
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 8										
Boron Water Soluble	All	NDPs: 0 Tests: 8										
CEN Readings	All	NDPs: 0 Tests: 3										
Chromium III	All	NDPs: 0 Tests: 8										
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 11										
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 3										
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 3										
EPH CWG (Aliphatic) Filtered GC (W)	All	NDPs: 0 Tests: 3										
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 8										
EPH CWG (Aromatic) Filtered GC (W)	All	NDPs: 0 Tests: 3										
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 8										



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	16734589	TP07	ESF1	0.20 - 0.20	1kg TUB	S						
	16734584	TP06	ESF1	0.40 - 0.40	60g VOC (ALE215)	S						
	16734579	TP05	ESF2	0.60 - 0.60	1kg TUB	S						
	16734571	TP04	ESF2	0.70 - 0.70	60g VOC (ALE215)	S						
	16734562	TP03	ESF1	0.30 - 0.30	1kg TUB	S						
GRO by GC-FID (S)	All	NDPs: 0 Tests: 8										
GRO by GC-FID (W)	All	NDPs: 0 Tests: 3										
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 8										
Mercury Dissolved	All	NDPs: 0 Tests: 3										
Metals in solid samples by OES	All	NDPs: 0 Tests: 8										
Nitrite by Kone (w)	All	NDPs: 0 Tests: 3										
PAH by GCMS	All	NDPs: 0 Tests: 8										
PAH in waters by GC-MS (diss.filt)	All	NDPs: 0 Tests: 3										
pH	All	NDPs: 0 Tests: 8										
pH Value of Filtered Water	All	NDPs: 0 Tests: 3										
Phenols by HPLC (S)	All	NDPs: 0 Tests: 8										
Phenols by HPLC (W)	All	NDPs: 0 Tests: 3										
Sample description	All	NDPs: 0 Tests: 8										
Total Organic Carbon	All	NDPs: 0 Tests: 8										
TPH CWG Filtered (W)	All	NDPs: 0 Tests: 3										



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

TPH CWG GC (S)

Lab Sample No(s)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

All

NDPs: 0
Tests: 8

16734546

TP01

ES01

0.35 - 0.35

250g Amber Jar (ALE210)
1kg TUB

X

16734555

TP02

ES01

0.45 - 0.45

250g Amber Jar (ALE215)
1kg TUB

X

16734562

TP03

ES01

0.30 - 0.30

250g Amber Jar (ALE215)
1kg TUB

X

16734571

TP04

ES02

0.70 - 0.70

250g Amber Jar (ALE215)
1kg TUB

X

16734579

TP05

ES02

0.60 - 0.60

250g Amber Jar (ALE215)
1kg TUB

X

16734584

TP06

ES01

0.40 - 0.40

250g Amber Jar (ALE210)
1kg TUB

X

16734589

TP07

ES01

0.20 - 0.20

1kg TUB

S

16734550	TP07	ES2	0.55 - 0.55	60g VOC (ALE215)	S		
				250g Amber Jar (ALE210)	S		X
				1kg TUB	S		
16734589	TP07	ES1	0.20 - 0.20	60g VOC (ALE215)	S		
				250g Amber Jar (ALE210)	S		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
-----------	----------	------	-----------------	--------	-------------	--------	------------	-------------	-------

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
16734546	TP01	0.35 - 0.35	Dark Brown	Sandy Loam	Stones	None
16734555	TP02	0.45 - 0.45	Dark Brown	Loamy Sand	Stones	None
16734562	TP03	0.30 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
16734571	TP04	0.70 - 0.70	Dark Brown	Sandy Clay Loam	Stones	Vegetation
16734579	TP05	0.60 - 0.60	Light Brown	Loamy Sand	Stones	None
16734584	TP06	0.40 - 0.40	Dark Brown	Sandy Loam	Stones	None
16734550	TP07	0.55 - 0.55	Dark Brown	Loamy Sand	Stones	Vegetation
16734589	TP07	0.20 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

TPH CWG (S)

Results Legend			Customer Sample Ref.		TP01	TP02	TP03	TP04	TP05	TP06
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM089	0.35 - 0.35	0.45 - 0.45	0.30 - 0.30	0.70 - 0.70	0.60 - 0.60	0.40 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				08/12/2017	08/12/2017	08/12/2017	08/12/2017	08/12/2017	08/12/2017
diss.filt	Dissolved / filtered sample.				11/12/2017	11/12/2017	11/12/2017	11/12/2017	11/12/2017	11/12/2017
tot.unfilt	Total / unfiltered sample.				171211-3	171211-3	171211-3	171211-3	171211-3	171211-3
*	Subcontracted test.				16734546	16734555	16734562	16734571	16734579	16734584
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ESES1	ESES1	ESES1	ESES2	ESES2	ESES1
(F)	Trigger breach confirmed									
1-5&S@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			96	82	78	34	118	18
GRO TOT (Moisture Corrected)	<0.044 mg/kg	TM089			<0.044 M	0.15 M	<0.044 M	<0.044 M	<0.044 M	<0.044 M
Methyl tertiary butyl ether (MTBE)	<0.005 mg/kg	TM089			<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #	<0.005 #
Benzene	<0.01 mg/kg	TM089			<0.01 M	<0.01 M	<0.01 M	<0.01 M	<0.01 M	<0.01 M
Toluene	<0.002 mg/kg	TM089			0.00222 M	0.00354 M	0.0036 M	<0.002 M	<0.002 M	0.0044 M
Ethylbenzene	<0.003 mg/kg	TM089			<0.003 M	<0.003 M	<0.003 M	<0.003 M	<0.003 M	<0.003 M
m,p-Xylene	<0.006 mg/kg	TM089			<0.006 M	<0.006 M	<0.006 M	<0.006 M	<0.006 M	<0.006 M
o-Xylene	<0.003 mg/kg	TM089			<0.003 M	<0.003 M	<0.003 M	<0.003 M	<0.003 M	<0.003 M
sum of detected mpo xylene by GC	<0.009 mg/kg	TM089			<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
sum of detected BTEX by GC	<0.024 mg/kg	TM089			<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
Aliphatics >C5-C6	<0.01 mg/kg	TM089			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8	<0.01 mg/kg	TM089			<0.01	0.013	<0.01	<0.01	<0.01	<0.01
Aliphatics >C8-C10	<0.01 mg/kg	TM089			<0.01	0.0413	<0.01	<0.01	<0.01	<0.01
Aliphatics >C10-C12	<0.01 mg/kg	TM089			<0.01	0.0283	<0.01	<0.01	<0.01	<0.01
Aliphatics >C12-C16	<0.1 mg/kg	TM173			2.01	2.23	0.426	0.768	<0.1	3.75
Aliphatics >C16-C21	<0.1 mg/kg	TM173			8.46	13.7	3.45	4.41	2.86	10.1
Aliphatics >C21-C35	<0.1 mg/kg	TM173			46.3	103	34.3	40	20.8	138
Aliphatics >C35-C44	<0.1 mg/kg	TM173			12.7	40.5	24.4	54.8	5.89	228
Total Aliphatics >C12-C44	<0.1 mg/kg	TM173			69.5	159	62.6	100	29.5	379
Aromatics >EC5-EC7	<0.01 mg/kg	TM089			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC7-EC8	<0.01 mg/kg	TM089			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >EC8-EC10	<0.01 mg/kg	TM089			<0.01	0.0354	<0.01	<0.01	<0.01	<0.01
Aromatics >EC10-EC12	<0.01 mg/kg	TM089			<0.01	0.0189	<0.01	<0.01	<0.01	<0.01
Aromatics >EC12-EC16	<0.1 mg/kg	TM173			0.656	0.781	<0.1	2.71	<0.1	9.41
Aromatics >EC16-EC21	<0.1 mg/kg	TM173			2.49	4.26	2.41	11.6	2.9	87.1
Aromatics >EC21-EC35	<0.1 mg/kg	TM173			13.7	27.2	31.2	76.4	14.6	480
Aromatics >EC35-EC44	<0.1 mg/kg	TM173			7.15	13.2	44.9	108	10	476
Aromatics >EC40-EC44	<0.1 mg/kg	TM173			3.07	5.61	21.7	52.5	4.65	211
Total Aromatics >EC12-EC44	<0.1 mg/kg	TM173			23.9	45.4	78.5	199	27.6	1050
Total Aliphatics & Aromatics >C5-C44	<0.1 mg/kg	TM173			93.4	204	141	299	57.1	1430



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

TPH CWG (S)

Results Legend		Customer Sample Ref.	TP07	TP07				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.20	0.55 - 0.55				
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)				
aq	Aqueous / settled sample.		08/12/2017	08/12/2017				
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		11/12/2017	11/12/2017				
*	Subcontracted test.		171211-3	171211-3				
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		16734589	16734550				
(F)	Trigger breach confirmed		ESES1	ESES2				
1-5&S@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	71	87				
GRO TOT (Moisture Corrected)	<0.044 mg/kg	TM089	<0.044 M	<0.044 M				
Methyl tertiary butyl ether (MTBE)	<0.005 mg/kg	TM089	<0.005 #	<0.005 #				
Benzene	<0.01 mg/kg	TM089	<0.01 M	<0.01 M				
Toluene	<0.002 mg/kg	TM089	0.00224 M	<0.002 M				
Ethylbenzene	<0.003 mg/kg	TM089	<0.003 M	<0.003 M				
m,p-Xylene	<0.006 mg/kg	TM089	<0.006 M	<0.006 M				
o-Xylene	<0.003 mg/kg	TM089	0.0112 M	<0.003 M				
sum of detected mpo xylene by GC	<0.009 mg/kg	TM089	0.0112	<0.009				
sum of detected BTEX by GC	<0.024 mg/kg	TM089	<0.024	<0.024				
Aliphatics >C5-C6	<0.01 mg/kg	TM089	<0.01	<0.01				
Aliphatics >C6-C8	<0.01 mg/kg	TM089	<0.01	<0.01				
Aliphatics >C8-C10	<0.01 mg/kg	TM089	<0.01	<0.01				
Aliphatics >C10-C12	<0.01 mg/kg	TM089	<0.01	<0.01				
Aliphatics >C12-C16	<0.1 mg/kg	TM173	0.867	<0.1				
Aliphatics >C16-C21	<0.1 mg/kg	TM173	6.21	<0.1				
Aliphatics >C21-C35	<0.1 mg/kg	TM173	53.5	10.8				
Aliphatics >C35-C44	<0.1 mg/kg	TM173	34.7	1.46				
Total Aliphatics >C12-C44	<0.1 mg/kg	TM173	95.3	12.3				
Aromatics >EC5-EC7	<0.01 mg/kg	TM089	<0.01	<0.01				
Aromatics >EC7-EC8	<0.01 mg/kg	TM089	<0.01	<0.01				
Aromatics >EC8-EC10	<0.01 mg/kg	TM089	0.0179	<0.01				
Aromatics >EC10-EC12	<0.01 mg/kg	TM089	<0.01	<0.01				
Aromatics >EC12-EC16	<0.1 mg/kg	TM173	0.755	<0.1				
Aromatics >EC16-EC21	<0.1 mg/kg	TM173	5.95	0.521				
Aromatics >EC21-EC35	<0.1 mg/kg	TM173	51.2	5.71				
Aromatics >EC35-EC44	<0.1 mg/kg	TM173	60.1	2.82				
Aromatics >EC40-EC44	<0.1 mg/kg	TM173	28.7	1.1				
Total Aromatics >EC12-EC44	<0.1 mg/kg	TM173	118	9.05				
Total Aliphatics & Aromatics >C5-C44	<0.1 mg/kg	TM173	213	21.3				



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP01 ES ES1 0.35 - 0.35 SOLID 08/12/2017 00:00:00 12/12/2017 07:33:37 171211-3 16734546 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP02 ES ES1 0.45 - 0.45 SOLID 08/12/2017 00:00:00 11/12/2017 16:54:18 171211-3 16734555 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP03 ES ES1 0.30 - 0.30 SOLID 08/12/2017 00:00:00 12/12/2017 07:36:07 171211-3 16734562 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP04 ES ES2 0.70 - 0.70 SOLID 08/12/2017 00:00:00 11/12/2017 17:07:51 171211-3 16734571 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP05 ES ES2 0.60 - 0.60 SOLID 08/12/2017 00:00:00 12/12/2017 07:26:07 171211-3 16734579 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP06 ES ES1 0.40 - 0.40 SOLID 08/12/2017 00:00:00 11/12/2017 17:02:42 171211-3 16734584 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP07 ES ES1 0.20 - 0.20 SOLID 08/12/2017 00:00:00 12/12/2017 07:28:38 171211-3 16734589 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP07 ES ES2 0.55 - 0.55 SOLID 08/12/2017 00:00:00 11/12/2017 16:59:28 171211-3 16734550 TM048	18/12/2017	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference

Mass Sample taken (kg) 0.105

Mass of dry sample (kg) 0.090

Particle Size <4mm >95%

Site Location

JMEL, Barry

Natural Moisture Content (%) 16.3

Dry Matter Content (%) 86

Case

SDG 171211-3

Lab Sample Number(s) 16734550

Sampled Date 08-Dec-2017

Customer Sample Ref. TP07 ESES2

Depth (m) 0.55 - 0.55

Eluate Analysis

	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)				
	Result	Limit of Detection	Result	Limit of Detection			
Aliphatics >C12-C16	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C16-C21	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C21-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Total Aliphatics >C12-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC12-EC16	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC16-EC21	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC21-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC16-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
Total Aromatics >EC12-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
TPH (Total Aliphatics + Total Aromatics) >C5-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Nitrite as NO ₂	<0.05	<0.05	<0.5	<0.5	-	-	-
pH Value of Filtered Water	9.6	<0.001	96	<0.01	-	-	-
Sulphate (soluble)	8.9	<2	89	<20	-	-	-
Chloride	2.5	<2	25	<20	-	-	-
Dissolved Organic Carbon	<3	<3	<30	<30	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.00001	<0.00001	-	-	-
Antimony	0.000126	<0.00001	0.0126	<0.001	-	-	-
Naphthalene (diss.filt)	0.0000159	<0.00001	0.000159	<0.0001	-	-	-
Total Ammonia as NH ₃	0.271	<0.2	2.71	<2	-	-	-
Total Cyanide (W)	<0.05	<0.05	<0.5	<0.5	-	-	-
Acenaphthene (diss.filt)	0.00008	<0.000005	0.0008	<0.00005	-	-	-
Arsenic	0.00603	<0.0005	0.0603	<0.005	-	-	-
Total Ammonium as NH ₄	<0.3	<0.3	<3	<3	-	-	-
Acenaphthylene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Barium	0.021	<0.0002	0.21	<0.002	-	-	-
Nitrate as NO ₃	<0.3	<0.3	<3	<3	-	-	-
Phenol by HPLC (W)	<0.002	<0.002	<0.02	<0.02	-	-	-
Beryllium	<0.0001	<0.0001	<0.001	<0.001	-	-	-
Fluoranthene (diss.filt)	0.0000519	<0.000005	0.000519	<0.00005	-	-	-
Anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Boron	0.128	<0.005	1.28	<0.05	-	-	-
Phenanthrene (diss.filt)	0.0000887	<0.000005	0.000887	<0.00005	-	-	-
Total Alkalinity Filtered as CaCO ₃	35	<2	350	<20	-	-	-
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	-	-	-
Fluorene (diss.filt)	0.0000433	<0.000005	0.000433	<0.00005	-	-	-

Leach Test Information

Date Prepared 14-Dec-2017

pH (pH Units) 8.71

Conductivity (µS/cm) 91.80

Temperature (°C) 18.10

Volume Leachant (Litres) 0.885

Mcerts Certification does not apply to leachates

10/01/2018 11:51:20

11:50:37 10/01/2018



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference

Mass Sample taken (kg) 0.105

Mass of dry sample (kg) 0.090

Particle Size <4mm >95%

Site Location

JMEL, Barry

Natural Moisture Content (%) 16.3

Dry Matter Content (%) 86

Case

SDG 171211-3

Lab Sample Number(s) 16734550

Sampled Date 08-Dec-2017

Customer Sample Ref. TP07 ESES2

Depth (m) 0.55 - 0.55

Eluate Analysis

	C2 Conc ⁿ in 10:1 eluate (mg/l)		A2 10:1 conc ⁿ leached (mg/kg)				
	Result	Limit of Detection	Result	Limit of Detection			
Chrysene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Pyrene (diss.filt)	0.0000351	<0.000005	0.000351	<0.00005	-	-	-
Benzo(a)anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Chromium	<0.001	<0.001	<0.01	<0.01	-	-	-
Benzo(b)fluoranthene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Benzo(k)fluoranthene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Benzo(a)pyrene (diss.filt)	<0.000002	<0.000002	<0.00002	<0.00002	-	-	-
Copper	0.00138	<0.0003	0.0138	<0.003	-	-	-
Dibenzo(a,h)anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Lead	0.000394	<0.0002	0.00394	<0.002	-	-	-
Benzo(g,h,i)perylene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Indeno(1,2,3-cd)pyrene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Molybdenum	0.0394	<0.0005	0.394	<0.005	-	-	-
PAH 16 EPA Total by GCMS (diss.filt)	0.000315	<0.000082	0.00315	<0.00082	-	-	-
Nickel	0.000562	<0.0004	0.00562	<0.004	-	-	-
Selenium	0.00111	<0.0005	0.0111	<0.005	-	-	-
Zinc	0.00144	<0.001	0.0144	<0.01	-	-	-

TPH CWG (W)

Surrogate Recovery	-	<0	-	<0	-	-	-
GRO TOT (C5-C12)	<0.05	<0.05	<0.5	<0.5	-	-	-
Aliphatics C5-C6	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C6-C8	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C8-C10	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C10-C12	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics C6-C7	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >C7-C8	<0.01	<0.01	<0.1	<0.1	-	-	-
MTBE GC-FID	<0.003	<0.003	<0.03	<0.03	-	-	-
Aromatics >EC8 -EC10	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC10-EC12	<0.01	<0.01	<0.1	<0.1	-	-	-
Benzene by GC	<0.007	<0.007	<0.07	<0.07	-	-	-
Toluene by GC	<0.004	<0.004	<0.04	<0.04	-	-	-
Ethylbenzene by GC	<0.005	<0.005	<0.05	<0.05	-	-	-
m & p Xylene by GC	<0.008	<0.008	<0.08	<0.08	-	-	-
o Xylene by GC	<0.003	<0.003	<0.03	<0.03	-	-	-
Sum m&p and o Xylene by GC	<0.011	<0.011	<0.11	<0.11	-	-	-
Sum of BTEX by GC	<0.028	<0.028	<0.28	<0.28	-	-	-

Leach Test Information

Date Prepared	14-Dec-2017
pH (pH Units)	8.71
Conductivity (µS/cm)	91.80
Temperature (°C)	18.10
Volume Leachant (Litres)	0.885



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference

Mass Sample taken (kg) 0.101

Mass of dry sample (kg) 0.090

Particle Size <4mm >95%

Site Location

JMEL, Barry

Natural Moisture Content (%) 12.4

Dry Matter Content (%) 89

Case

SDG 171211-3

Lab Sample Number(s) 16734571

Sampled Date 08-Dec-2017

Customer Sample Ref. TP04 ESES2

Depth (m) 0.70 - 0.70

Eluate Analysis

	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)				
	Result	Limit of Detection	Result	Limit of Detection			
Aliphatics >C12-C16	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C16-C21	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C21-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Total Aliphatics >C12-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC12-EC16	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC16-EC21	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC21-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC16-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
Total Aromatics >EC12-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
TPH (Total Aliphatics + Total Aromatics) >C5-C35	0.03	<0.01	0.3	<0.1	-	-	-
Nitrite as NO ₂	<0.05	<0.05	<0.5	<0.5	-	-	-
pH Value of Filtered Water	8.6	<0.001	86	<0.01	-	-	-
Sulphate (soluble)	5	<2	50	<20	-	-	-
Chloride	<2	<2	<20	<20	-	-	-
Dissolved Organic Carbon	3.29	<3	32.9	<30	-	-	-
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.00001	<0.00001	-	-	-
Antimony	0.00133	<0.00001	0.0133	<0.001	-	-	-
Naphthalene (diss.filt)	0.0000138	<0.00001	0.000138	<0.00001	-	-	-
Total Ammonia as NH ₃	<0.2	<0.2	<2	<2	-	-	-
Total Cyanide (W)	<0.05	<0.05	<0.5	<0.5	-	-	-
Acenaphthene (diss.filt)	0.0000343	<0.000005	0.000343	<0.00005	-	-	-
Arsenic	0.00334	<0.0005	0.0334	<0.005	-	-	-
Total Ammonium as NH ₄	<0.3	<0.3	<3	<3	-	-	-
Acenaphthylene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Barium	0.0248	<0.0002	0.248	<0.002	-	-	-
Nitrate as NO ₃	<0.3	<0.3	<3	<3	-	-	-
Phenol by HPLC (W)	<0.002	<0.002	<0.02	<0.02	-	-	-
Beryllium	<0.0001	<0.0001	<0.001	<0.001	-	-	-
Fluoranthene (diss.filt)	0.000112	<0.000005	0.00112	<0.00005	-	-	-
Anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Boron	0.0883	<0.005	0.883	<0.05	-	-	-
Phenanthrene (diss.filt)	0.000119	<0.000005	0.00119	<0.00005	-	-	-
Total Alkalinity Filtered as CaCO ₃	63.5	<2	635	<20	-	-	-
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	-	-	-
Fluorene (diss.filt)	0.0000212	<0.000005	0.000212	<0.00005	-	-	-

Leach Test Information

Date Prepared 14-Dec-2017
pH (pH Units) 7.11
Conductivity (µS/cm) 109.00
Temperature (°C) 18.40
Volume Leachant (Litres) 0.889



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.101
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	JMEL, Barry
Natural Moisture Content (%)	12.4
Dry Matter Content (%)	89

Case

SDG	171211-3
Lab Sample Number(s)	16734571
Sampled Date	08-Dec-2017
Customer Sample Ref.	TP04 ESES2
Depth (m)	0.70 - 0.70

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)				
	Result	Limit of Detection	Result	Limit of Detection			
Chrysene (diss.filt)	0.0000503	<0.000005	0.000503	<0.00005	-	-	-
Pyrene (diss.filt)	0.0000943	<0.000005	0.000943	<0.00005	-	-	-
Benzo(a)anthracene (diss.filt)	0.0000236	<0.000005	0.000236	<0.00005	-	-	-
Chromium	<0.001	<0.001	<0.01	<0.01	-	-	-
Benzo(b)fluoranthene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Benzo(k)fluoranthene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Benzo(a)pyrene (diss.filt)	0.0000083	<0.000002	0.000083	<0.00002	-	-	-
Copper	0.00381	<0.0003	0.0381	<0.003	-	-	-
Dibenzo(a,h)anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Lead	0.000565	<0.0002	0.00565	<0.002	-	-	-
Benzo(g,h,i)perylene (diss.filt)	0.0000302	<0.000005	0.000302	<0.00005	-	-	-
Indeno(1,2,3-cd)pyrene (diss.filt)	0.00000952	<0.000005	0.0000952	<0.00005	-	-	-
Molybdenum	0.0121	<0.0005	0.121	<0.005	-	-	-
PAH 16 EPA Total by GCMS (diss.filt)	0.000517	<0.000082	0.00517	<0.00082	-	-	-
Nickel	0.000536	<0.0004	0.00536	<0.004	-	-	-
Selenium	<0.0005	<0.0005	<0.005	<0.005	-	-	-
Zinc	0.00201	<0.001	0.0201	<0.01	-	-	-
TPH CWG (W)							
Surrogate Recovery	-	<0	-	<0	-	-	-
GRO TOT (C5-C12)	<0.05	<0.05	<0.5	<0.5	-	-	-
Aliphatics C5-C6	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C6-C8	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C8-C10	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C10-C12	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics C6-C7	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >C7-C8	<0.01	<0.01	<0.1	<0.1	-	-	-
MTBE GC-FID	<0.003	<0.003	<0.03	<0.03	-	-	-
Aromatics >EC8-EC10	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC10-EC12	<0.01	<0.01	<0.1	<0.1	-	-	-
Benzene by GC	<0.007	<0.007	<0.07	<0.07	-	-	-
Toluene by GC	<0.004	<0.004	<0.04	<0.04	-	-	-
Ethylbenzene by GC	<0.005	<0.005	<0.05	<0.05	-	-	-
m & p Xylene by GC	<0.008	<0.008	<0.08	<0.08	-	-	-
o Xylene by GC	<0.003	<0.003	<0.03	<0.03	-	-	-
Sum m&p and o Xylene by GC	<0.011	<0.011	<0.11	<0.11	-	-	-
Sum of BTEX by GC	<0.028	<0.028	<0.28	<0.28	-	-	-

Leach Test Information

Date Prepared	14-Dec-2017
pH (pH Units)	7.11
Conductivity (µS/cm)	109.00
Temperature (°C)	18.40
Volume Leachant (Litres)	0.889



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference
Mass Sample taken (kg) 0.102
Mass of dry sample (kg) 0.090
Particle Size <4mm >95%

Site Location JMEL, Barry
Natural Moisture Content (%) 13.6
Dry Matter Content (%) 88

Case

SDG 171211-3
Lab Sample Number(s) 16734579
Sampled Date 08-Dec-2017
Customer Sample Ref. TP05 ESES2
Depth (m) 0.60 - 0.60

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)				
	Result	Limit of Detection	Result	Limit of Detection			
Aliphatics >C12-C16	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C16-C21	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C21-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Total Aliphatics >C12-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC12-EC16	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC16-EC21	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC21-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC16-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
Total Aromatics >EC12-EC35	<0.01	<0.01	<0.1	<0.1	-	-	-
TPH (Total Aliphatics + Total Aromatics) >C5-C35	<0.01	<0.01	<0.1	<0.1	-	-	-
Nitrite as NO ₂	<0.05	<0.05	<0.5	<0.5	-	-	-
pH Value of Filtered Water	11	<0.001	110	<0.01	-	-	-
Sulphate (soluble)	31.1	<2	311	<20	-	-	-
Chloride	<2	<2	<20	<20	-	-	-
Dissolved Organic Carbon	3.24	<3	32.4	<30	-	-	-
Mercury Dissolved (CVAf)	<0.00001	<0.00001	<0.0001	<0.0001	-	-	-
Antimony	0.0031	<0.0001	0.031	<0.001	-	-	-
Naphthalene (diss.filt)	0.0000243	<0.00001	0.000243	<0.0001	-	-	-
Total Ammonia as NH ₃	<0.2	<0.2	<2	<2	-	-	-
Total Cyanide (W)	<0.05	<0.05	<0.5	<0.5	-	-	-
Acenaphthene (diss.filt)	0.0000127	<0.000005	0.000127	<0.00005	-	-	-
Arsenic	0.00358	<0.0005	0.0358	<0.005	-	-	-
Total Ammonium as NH ₄	<0.3	<0.3	<3	<3	-	-	-
Acenaphthylene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Barium	0.0195	<0.0002	0.195	<0.002	-	-	-
Nitrate as NO ₃	<0.3	<0.3	<3	<3	-	-	-
Phenol by HPLC (W)	<0.002	<0.002	<0.02	<0.02	-	-	-
Beryllium	<0.0001	<0.0001	<0.001	<0.001	-	-	-
Fluoranthene (diss.filt)	0.0000197	<0.000005	0.000197	<0.00005	-	-	-
Anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Boron	0.194	<0.005	1.94	<0.05	-	-	-
Phenanthrene (diss.filt)	0.0000423	<0.000005	0.000423	<0.00005	-	-	-
Total Alkalinity Filtered as CaCO ₃	110	<2	1100	<20	-	-	-
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	-	-	-
Fluorene (diss.filt)	0.00000513	<0.000005	0.0000513	<0.00005	-	-	-

Leach Test Information

Date Prepared 13-Dec-2017
pH (pH Units) 10.88
Conductivity (µS/cm) 373.00
Temperature (°C) 19.40
Volume Leachant (Litres) 0.888



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference	
Mass Sample taken (kg)	0.102
Mass of dry sample (kg)	0.090
Particle Size <4mm	>95%

Site Location	JMEL, Barry
Natural Moisture Content (%)	13.6
Dry Matter Content (%)	88

Case

SDG	171211-3
Lab Sample Number(s)	16734579
Sampled Date	08-Dec-2017
Customer Sample Ref.	TP05 ESES2
Depth (m)	0.60 - 0.60

Eluate Analysis	C ₂ Conc ⁿ in 10:1 eluate (mg/l)		A ₂ 10:1 conc ⁿ leached (mg/kg)				
	Result	Limit of Detection	Result	Limit of Detection			
Chrysene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Pyrene (diss.filt)	0.0000187	<0.000005	0.000187	<0.00005	-	-	-
Benzo(a)anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Chromium	0.00295	<0.001	0.0295	<0.01	-	-	-
Benzo(b)fluoranthene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Benzo(k)fluoranthene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Benzo(a)pyrene (diss.filt)	<0.000002	<0.000002	<0.00002	<0.00002	-	-	-
Copper	0.0228	<0.0003	0.228	<0.003	-	-	-
Dibenzo(a,h)anthracene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Lead	<0.0002	<0.0002	<0.002	<0.002	-	-	-
Benzo(g,h,i)perylene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Indeno(1,2,3-cd)pyrene (diss.filt)	<0.000005	<0.000005	<0.00005	<0.00005	-	-	-
Molybdenum	0.00137	<0.0005	0.0137	<0.005	-	-	-
PAH 16 EPA Total by GCMS (diss.filt)	0.000123	<0.000082	0.00123	<0.00082	-	-	-
Nickel	<0.0004	<0.0004	<0.004	<0.004	-	-	-
Selenium	<0.0005	<0.0005	<0.005	<0.005	-	-	-
Zinc	<0.001	<0.001	<0.01	<0.01	-	-	-
TPH CWG (W)							
Surrogate Recovery	-	<0	-	<0	-	-	-
GRO TOT (C5-C12)	<0.05	<0.05	<0.5	<0.5	-	-	-
Aliphatics C5-C6	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C6-C8	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C8-C10	<0.01	<0.01	<0.1	<0.1	-	-	-
Aliphatics >C10-C12	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics C6-C7	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >C7-C8	<0.01	<0.01	<0.1	<0.1	-	-	-
MTBE GC-FID	<0.003	<0.003	<0.03	<0.03	-	-	-
Aromatics >EC8-EC10	<0.01	<0.01	<0.1	<0.1	-	-	-
Aromatics >EC10-EC12	<0.01	<0.01	<0.1	<0.1	-	-	-
Benzene by GC	<0.007	<0.007	<0.07	<0.07	-	-	-
Toluene by GC	<0.004	<0.004	<0.04	<0.04	-	-	-
Ethylbenzene by GC	<0.005	<0.005	<0.05	<0.05	-	-	-
m & p Xylene by GC	<0.008	<0.008	<0.08	<0.08	-	-	-
o Xylene by GC	<0.003	<0.003	<0.03	<0.03	-	-	-
Sum m&p and o Xylene by GC	<0.011	<0.011	<0.11	<0.11	-	-	-
Sum of BTEX by GC	<0.028	<0.028	<0.28	<0.28	-	-	-

Leach Test Information

Date Prepared	13-Dec-2017
pH (pH Units)	10.88
Conductivity (µS/cm)	373.00
Temperature (°C)	19.40
Volume Leachant (Litres)	0.888



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Table of Results - Appendix

Method No	Reference	Description
PM001		Preparation of Samples for Metals Analysis
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984	Determination of alkalinity in aqueous samples
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM132	In - house Method	ELTRA CS800 Operators Guide
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM218	Determination of PAH by GCMS Microwave extraction	The determination of PAH in soil samples by microwave extraction and GC-MS
TM222	In-House Method	Determination of Hot Water Soluble Boron in Soils (10:1 Water:soil) by IRIS Emission Spectrometer
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate
TM243		Mixed Anions In Soils By Kone
TM245	By GC-FID	Determination of GRO by Headspace in waters
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Test Completion Dates

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.
Depth
Type

	16734546	16734555	16734562	16734571	16734579	16734584	16734550	16734589
	TP01	TP02	TP03	TP04	TP05	TP06	TP07	TP07
	ESES1	ESES1	ESES1	ESES2	ESES2	ESES1	ESES2	ESES1
	0.35 - 0.35	0.45 - 0.45	0.30 - 0.30	0.70 - 0.70	0.60 - 0.60	0.40 - 0.40	0.55 - 0.55	0.20 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Alkalinity Filtered as CaCO3				15-Dec-2017	15-Dec-2017		15-Dec-2017	
Ammoniacal Nitrogen				15-Dec-2017	15-Dec-2017		15-Dec-2017	
Anions by Kone (soil)	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017
Anions by Kone (w)				15-Dec-2017	15-Dec-2017		15-Dec-2017	
Asbestos ID in Solid Samples	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017
Boron Water Soluble	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017
CEN 10:1 Leachate (1 Stage)				14-Dec-2017	13-Dec-2017		14-Dec-2017	
CEN Readings				15-Dec-2017	14-Dec-2017		15-Dec-2017	
Chromium III	18-Dec-2017	18-Dec-2017	19-Dec-2017	19-Dec-2017	19-Dec-2017	18-Dec-2017	19-Dec-2017	18-Dec-2017
Cyanide Comp/Free/Total/Thiocyanate	14-Dec-2017	14-Dec-2017	14-Dec-2017	15-Dec-2017	15-Dec-2017	14-Dec-2017	15-Dec-2017	14-Dec-2017
Dissolved Metals by ICP-MS				19-Dec-2017	19-Dec-2017		19-Dec-2017	
Dissolved Organic/Inorganic Carbon				15-Dec-2017	15-Dec-2017		15-Dec-2017	
EPH CWG (Aliphatic) Filtered GC (W)				18-Dec-2017	15-Dec-2017		18-Dec-2017	
EPH CWG (Aliphatic) GC (S)	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017
EPH CWG (Aromatic) Filtered GC (W)				18-Dec-2017	15-Dec-2017		18-Dec-2017	
EPH CWG (Aromatic) GC (S)	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017	14-Dec-2017
GRO by GC-FID (S)	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017
GRO by GC-FID (W)				15-Dec-2017	15-Dec-2017		15-Dec-2017	
Hexavalent Chromium (s)	15-Dec-2017	15-Dec-2017	18-Dec-2017	18-Dec-2017	18-Dec-2017	15-Dec-2017	18-Dec-2017	18-Dec-2017
Mercury Dissolved				18-Dec-2017	15-Dec-2017		18-Dec-2017	
Metals in solid samples by OES	18-Dec-2017	18-Dec-2017	19-Dec-2017	19-Dec-2017	19-Dec-2017	18-Dec-2017	19-Dec-2017	18-Dec-2017
Nitrite by Kone (w)				15-Dec-2017	15-Dec-2017		15-Dec-2017	
PAH by GCMS	15-Dec-2017	15-Dec-2017	16-Dec-2017	16-Dec-2017	16-Dec-2017	16-Dec-2017	18-Dec-2017	16-Dec-2017
PAH in waters by GC-MS (diss.filt)				15-Dec-2017	15-Dec-2017		15-Dec-2017	
pH	18-Dec-2017	18-Dec-2017	15-Dec-2017	15-Dec-2017	18-Dec-2017	18-Dec-2017	16-Dec-2017	15-Dec-2017
pH Value of Filtered Water				15-Dec-2017	15-Dec-2017		15-Dec-2017	
Phenols by HPLC (S)	15-Dec-2017	15-Dec-2017	15-Dec-2017	14-Dec-2017	15-Dec-2017	15-Dec-2017	15-Dec-2017	14-Dec-2017
Phenols by HPLC (W)				15-Dec-2017	15-Dec-2017		15-Dec-2017	
Sample description	12-Dec-2017	12-Dec-2017	12-Dec-2017	12-Dec-2017	12-Dec-2017	12-Dec-2017	12-Dec-2017	12-Dec-2017
Total Organic Carbon	15-Dec-2017	15-Dec-2017	15-Dec-2017	15-Dec-2017	15-Dec-2017	15-Dec-2017	15-Dec-2017	15-Dec-2017
TPH CWG Filtered (W)				18-Dec-2017	15-Dec-2017		18-Dec-2017	
TPH CWG GC (S)	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017	17-Dec-2017



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, BarryClient Reference: A105832
Order Number: C17/596Report Number: 439568
Superseded Report: 437486

ASSOCIATED AQC DATA

Alkalinity Filtered as CaCO₃

Component	Method Code	QC 1677	QC 1673
Total Alkalinity Filtered as CaCO ₃	TM043	101.01 95.62 : 106.88	107.5 98.25 : 118.05

Ammoniacal Nitrogen

Component	Method Code	QC 1635	QC 1663
Ammoniacal Nitrogen as N	TM099	99.2 93.47 : 108.25	99.2 93.47 : 108.25

Anions by Kone (soil)

Component	Method Code	QC 1602	QC 1693
Chloride (soluble)	TM243	65.24 89.30 : 110.70	89.30 : 110.70
Water Soluble Sulphate as SO ₄ 2:1 Extract	TM243	55.68 70.45 : 129.55	70.45 : 129.55

Anions by Kone (w)

Component	Method Code	QC 1654	QC 1631
Chloride	TM184	106.0 92.93 : 115.43	107.0 92.93 : 115.43
Phosphate (Ortho as PO ₄)	TM184	96.40 : 108.40	96.40 : 108.40
Sulphate (soluble)	TM184	104.4 90.53 : 113.03	106.8 90.53 : 113.03
TON as NO ₃	TM184	107.0 96.26 : 111.21	107.5 96.26 : 111.21

Boron Water Soluble

Component	Method Code	QC 1680	QC 1644
Water Soluble Boron	TM222	95.5 84.27 : 109.96	89.0 84.27 : 109.96

Cyanide Comp/Free/Total/Thiocyanate



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Cyanide Comp/Free/Total/Thiocyanate

Component	Method Code	QC 1637	QC 1688	QC 1693	QC 1603
Free Cyanide	TM153	93.1 84.60 : 110.40	95.1 84.60 : 110.40	91.9 84.60 : 110.40	
Free Cyanide (W)	TM227				97.25 93.25 : 112.75
Thiocyanate	TM153	91.02 83.02 : 103.47	93.41 83.02 : 103.47	88.02 83.02 : 103.47	
Thiocyanate (W)	TM227				103.5 97.75 : 109.75
Total Cyanide	TM153	100.71 87.53 : 111.13	102.86 87.53 : 111.13	99.29 87.53 : 111.13	
Total Cyanide (W)	TM227				104.75 95.25 : 111.75

Dissolved Metals by ICP-MS

Component	Method Code	QC 1606
Aluminium	TM152	103.0 89.90 : 110.02
Antimony	TM152	91.5 79.80 : 122.00
Arsenic	TM152	94.33 90.42 : 111.32
Barium	TM152	100.0 92.02 : 112.48
Beryllium	TM152	100.83 86.15 : 118.35
Bismuth	TM152	99.83 88.90 : 106.90
Borate	TM152	106.17 88.00 : 112.00
Boron	TM152	106.33 86.68 : 117.67
Cadmium	TM152	94.5 92.07 : 109.87
Chromium	TM152	95.0 90.87 : 108.50
Cobalt	TM152	97.83 84.39 : 114.26
Copper	TM152	94.0 91.20 : 110.79
Lead	TM152	99.67 85.65 : 113.58
Lithium	TM152	105.83 89.26 : 119.04
Manganese	TM152	96.17 90.63 : 109.13
Molybdenum	TM152	91.5 87.00 : 108.89
Nickel	TM152	94.83 92.11 : 110.56
Phosphorus	TM152	95.83 90.52 : 115.47
Selenium	TM152	92.83 88.44 : 113.86



CERTIFICATE OF ANALYSIS

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SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
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Dissolved Metals by ICP-MS

		QC 1606
Silver	TM152	82.33 81.52 : 114.92
Strontium	TM152	96.67 90.72 : 114.82
Tellurium	TM152	89.83 86.97 : 108.87
Thallium	TM152	97.67 80.92 : 114.72
Titanium	TM152	100.5 90.08 : 111.18
Tungsten	TM152	100.0 91.72 : 109.22
Uranium	TM152	101.17 90.58 : 113.28
Vanadium	TM152	97.17 88.43 : 114.30
Zinc	TM152	91.0 86.52 : 115.27

Dissolved Organic/Inorganic Carbon

Component	Method Code	QC 1656	QC 1611
Dissolved Inorganic Carbon	TM090	106.0 91.15 : 111.35	100.0 91.15 : 111.35
Dissolved Organic Carbon	TM090	102.0 94.18 : 111.18	102.0 94.18 : 111.18

EPH CWG (Aliphatic) GC (S)

Component	Method Code	QC 1626
Total Aliphatics >C12-C35	TM173	86.25 70.76 : 104.69

EPH CWG (Aromatic) GC (S)

Component	Method Code	QC 1626
Total Aromatics >EC12-EC35	TM173	80.67 68.16 : 102.29

GRO by GC-FID (S)



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
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GRO by GC-FID (S)

Component	Method Code	QC 1604	QC 1630
Benzene by GC (Moisture Corrected)	TM089	105.0 78.80 : 119.54	108.5 83.15 : 118.53
Ethylbenzene by GC (Moisture Corrected)	TM089	109.5 78.42 : 121.07	114.0 81.56 : 117.75
m & p Xylene by GC (Moisture Corrected)	TM089	110.0 77.69 : 121.76	114.0 80.40 : 118.80
MTBE GC-FID (Moisture Corrected)	TM089	110.0 77.69 : 125.19	110.0 83.25 : 126.67
o Xylene by GC (Moisture Corrected)	TM089	109.5 77.88 : 121.47	111.5 80.82 : 119.41
QC	TM089	91.67 69.62 : 106.27	83.5 66.35 : 110.89
Toluene by GC (Moisture Corrected)	TM089	109.5 78.31 : 121.42	113.5 83.39 : 118.40

GRO by GC-FID (W)

Component	Method Code	QC 1649	QC 1608
Benzene by GC	TM245	101.0 79.13 : 118.84	99.5 79.13 : 118.84
Ethylbenzene by GC	TM245	103.0 79.54 : 115.99	100.0 79.54 : 115.99
m & p Xylene by GC	TM245	103.25 78.44 : 116.32	98.75 78.44 : 116.32
MTBE GC-FID	TM245	103.0 81.43 : 120.09	103.5 81.43 : 120.09
o Xylene by GC	TM245	101.5 76.85 : 120.29	99.0 76.85 : 120.29
QC	TM245	91.15 78.36 : 134.92	86.01 78.36 : 134.92
Toluene by GC	TM245	104.5 79.00 : 121.96	102.5 79.00 : 121.96

Hexavalent Chromium (s)

Component	Method Code	QC 1643	QC 1655	QC 1679	QC 1631
Hexavalent Chromium	TM151	94.0 90.20 : 107.00	100.0 90.20 : 107.00	98.0 90.20 : 107.00	96.0 90.20 : 107.00

Mercury Dissolved

Component	Method Code	QC 1659	QC 1675	QC 1649
Mercury Dissolved (CVAf)	TM183	101.0 73.51 : 120.83	98.5 73.51 : 120.83	99.0 73.51 : 120.83

Metals in solid samples by OES



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Metals in solid samples by OES

Component	Method Code	QC 1626	QC 1675	QC 1645	QC 1606
Aluminium	TM181	97.78 80.01 : 112.97	91.11 75.13 : 109.48	88.89 80.01 : 112.97	94.81 75.13 : 109.48
Antimony	TM181	102.32 84.48 : 118.55	98.07 84.48 : 110.90	104.63 84.48 : 118.55	101.54 84.48 : 110.90
Arsenic	TM181	99.74 87.69 : 109.58	95.89 83.14 : 108.73	96.4 87.69 : 109.58	96.66 83.14 : 108.73
Barium	TM181	100.78 81.38 : 110.22	95.31 77.47 : 102.53	94.53 81.38 : 110.22	99.22 77.47 : 102.53
Beryllium	TM181	96.58 85.83 : 108.41	96.58 84.19 : 106.77	96.23 85.83 : 108.41	98.63 84.19 : 106.77
Boron	TM181	92.94 79.20 : 103.75	89.55 76.55 : 106.69	86.16 79.20 : 103.75	91.81 76.55 : 106.69
Cadmium	TM181	97.87 88.34 : 110.05	99.47 86.37 : 111.59	101.06 88.34 : 110.05	98.94 86.37 : 111.59
Chromium	TM181	104.64 81.29 : 118.71	98.31 81.29 : 118.71	98.73 81.29 : 118.71	98.52 81.29 : 118.71
Cobalt	TM181	98.12 87.71 : 110.26	97.81 85.45 : 109.14	98.12 87.71 : 110.26	98.75 85.45 : 109.14
Copper	TM181	97.96 85.64 : 106.59	94.76 81.33 : 103.33	93.74 85.64 : 106.59	95.49 81.33 : 103.33
Iron	TM181	106.94 81.99 : 118.01	97.22 82.44 : 111.71	100.69 81.99 : 118.01	100.69 82.44 : 111.71
Lead	TM181	91.7 82.55 : 105.90	94.26 83.33 : 106.95	98.3 82.55 : 105.90	97.23 83.33 : 106.95
Manganese	TM181	94.95 82.29 : 105.35	93.94 80.56 : 102.33	87.68 82.29 : 105.35	94.75 80.56 : 102.33
Mercury	TM181	101.18 87.62 : 110.64	100.39 84.13 : 111.85	98.43 87.62 : 110.64	101.18 84.13 : 111.85
Molybdenum	TM181	98.46 86.47 : 109.19	98.07 84.19 : 110.39	96.91 86.47 : 109.19	98.84 84.19 : 110.39
Nickel	TM181	98.37 87.43 : 110.63	97.44 84.19 : 109.77	96.97 87.43 : 110.63	98.14 84.19 : 109.77
Phosphorus	TM181	95.21 77.53 : 107.97	95.21 73.47 : 116.86	94.16 77.53 : 107.97	95.81 73.47 : 116.86
Selenium	TM181	99.7 86.31 : 108.23	95.85 81.32 : 108.59	96.44 86.31 : 108.23	98.22 81.32 : 108.59
Strontium	TM181	97.67 82.37 : 105.96	92.6 84.70 : 105.87	94.08 82.37 : 105.96	94.5 84.70 : 105.87
Thallium	TM181	97.27 85.06 : 112.06	94.14 81.19 : 105.37	96.09 85.06 : 112.06	94.92 81.19 : 105.37
Tin	TM181	96.45 85.70 : 112.34	97.87 85.92 : 110.00	100.35 85.70 : 112.34	100.0 85.92 : 110.00
Titanium	TM181	93.85 80.40 : 114.25	88.46 73.44 : 113.17	86.15 80.40 : 114.25	93.08 73.44 : 113.17
Vanadium	TM181	95.4 84.96 : 106.52	92.33 81.86 : 105.26	91.1 84.96 : 106.52	93.87 81.86 : 105.26
Zinc	TM181	105.41 87.17 : 108.73	99.65 85.64 : 110.14	98.08 87.17 : 108.73	100.35 85.64 : 110.14

PAH by GCMS



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

PAH by GCMS

Component	Method Code	QC 1680	QC 1684	QC 1603	QC 1658
Acenaphthene	TM218	94.5 82.09 : 110.18	93.0 82.09 : 110.18	102.5 78.17 : 114.45	92.5 82.60 : 105.38
Acenaphthylene	TM218	91.5 77.92 : 100.70	91.5 77.92 : 100.70	87.0 73.70 : 105.55	88.0 73.64 : 111.66
Anthracene	TM218	91.0 79.96 : 103.02	91.0 79.96 : 103.02	89.5 50.58 : 133.35	87.5 73.49 : 107.13
Benz(a)anthracene	TM218	105.5 80.00 : 122.30	105.5 80.00 : 122.30	108.5 73.03 : 124.35	102.0 82.35 : 116.46
Benzo(a)pyrene	TM218	106.0 86.92 : 126.33	107.0 86.92 : 126.33	110.5 76.86 : 123.01	103.5 83.39 : 123.49
Benzo(b)fluoranthene	TM218	99.5 84.53 : 122.14	99.5 84.53 : 122.14	103.5 75.92 : 130.86	95.5 80.60 : 126.56
Benzo(ghi)perylene	TM218	94.5 77.49 : 119.12	92.5 77.49 : 119.12	100.5 80.30 : 117.80	95.0 83.13 : 118.94
Benzo(k)fluoranthene	TM218	101.0 88.94 : 117.08	100.5 88.94 : 117.08	104.5 81.49 : 113.89	98.5 87.91 : 119.03
Chrysene	TM218	102.5 87.67 : 116.32	101.0 87.67 : 116.32	105.5 77.31 : 114.50	101.0 85.34 : 115.46
Dibenzo(ah)anthracene	TM218	102.0 85.66 : 119.61	101.0 85.66 : 119.61	107.5 77.77 : 118.30	103.0 82.98 : 121.47
Fluoranthene	TM218	96.0 84.49 : 109.33	95.5 84.49 : 109.33	92.0 80.77 : 108.59	90.5 82.03 : 107.26
Fluorene	TM218	98.0 84.28 : 107.54	97.0 84.28 : 107.54	98.5 79.13 : 110.70	94.5 81.48 : 108.26
Indeno(123cd)pyrene	TM218	103.0 86.46 : 120.70	102.0 86.46 : 120.70	109.5 78.65 : 117.12	103.0 84.02 : 120.55
Naphthalene	TM218	96.0 82.88 : 115.56	94.5 82.88 : 115.56	97.5 77.09 : 108.37	95.5 84.06 : 108.38
Phenanthrene	TM218	94.0 81.59 : 110.61	92.5 81.59 : 110.61	96.0 76.02 : 112.05	90.0 78.68 : 107.87
Pyrene	TM218	95.0 83.25 : 107.60	94.5 83.25 : 107.60	91.0 79.98 : 107.66	90.5 79.66 : 106.32

PAH in waters by GC-MS (diss.filt)

Component	Method Code	QC 1622
Acenaphthene (diss.filt)	TM178	82.20 : 117.00
Acenaphthylene (diss.filt)	TM178	85.28 : 115.28
Anthracene (diss.filt)	TM178	63.28 : 135.04
Benzo(a)anthracene (diss.filt)	TM178	76.96 : 118.96
Benzo(a)pyrene (diss.filt)	TM178	78.60 : 123.96
Benzo(b)fluoranthene (diss.filt)	TM178	83.60 : 123.44
Benzo(g,h,i)perylene (diss.filt)	TM178	79.12 : 112.96
Benzo(k)fluoranthene (diss.filt)	TM178	84.60 : 146.28
Chrysene (diss.filt)	TM178	79.00 : 124.84



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

PAH in waters by GC-MS (diss.filt)

		QC 1622
Dibenzo(a,h)anthracene (diss.filt)	TM178	73.28 : 112.88
Fluoranthene (diss.filt)	TM178	77.08 : 123.88
Fluorene (diss.filt)	TM178	85.08 : 112.68
Indeno(1,2,3-cd)pyrene (diss.filt)	TM178	77.84 : 104.72
Naphthalene (diss.filt)	TM178	83.48 : 122.12
Phenanthrene (diss.filt)	TM178	80.12 : 119.96
Pyrene (diss.filt)	TM178	76.18 : 128.26

pH

Component	Method Code	QC 1672	QC 1685	QC 1615	QC 1651
pH	TM133	101.3 99.25 : 102.83	101.3 99.25 : 102.83	102.08 99.63 : 103.42	101.69 99.63 : 103.42

pH Value of Filtered Water

Component	Method Code	QC 1669	QC 1628
pH Value of Filtered Water	TM256	101.21 99.73 : 102.16	100.4 99.73 : 102.16

Phenols by HPLC (S)

Component	Method Code	QC 1637	QC 1679	QC 1600
2,3,5 Trimethyl-Phenol by HPLC (S)	TM062 (S)	89.61 70.10 : 89.90	85.25 : 114.75	98.7 85.25 : 114.75
2-Isopropyl Phenol by HPLC (S)	TM062 (S)	88.3 84.69 : 104.79	75.71 : 124.29	88.89 75.71 : 124.29
Catechol by HPLC (S)	TM062 (S)	74.29 24.84 : 108.44	64.10 : 135.90	61.9 64.10 : 135.90
Cresols by HPLC (S)	TM062 (S)	87.89 72.20 : 110.60	78.85 : 107.41	94.99 78.85 : 107.41
Napthol by HPLC (S)	TM062 (S)	111.43 91.99 : 139.23	75.62 : 124.38	107.14 75.62 : 124.38
Phenol by HPLC (S)	TM062 (S)	111.26 82.00 : 107.15	79.53 : 120.47	109.93 79.53 : 120.47
Resorcinol HPLC (S)	TM062 (S)	135.85 96.51 : 136.70	86.85 : 145.65	149.69 86.85 : 145.65
Xylenols by HPLC (S)	TM062 (S)	96.46 82.47 : 110.25	84.65 : 109.70	100.62 84.65 : 109.70

Phenols by HPLC (W)



CERTIFICATE OF ANALYSIS

Validated

SDG: 171211-3
Location: JMEL, Barry

Client Reference: A105832
Order Number: C17/596

Report Number: 439568
Superseded Report: 437486

Phenols by HPLC (W)

Component	Method Code	QC 1621
2,3,5 Trimethyl-Phenol by HPLC (W)	TM259	98.0 89.00 : 113.00
2-Isopropyl Phenol by HPLC (W)	TM259	104.0 95.00 : 113.00
Cresols by HPLC (W)	TM259	95.33 84.57 : 102.57
Napthol by HPLC (W)	TM259	104.0 108.80 : 126.80
Phenol by HPLC (W)	TM259	101.0 89.00 : 107.00
Xylenols by HPLC (W)	TM259	103.17 88.83 : 112.83

Total Organic Carbon

Component	Method Code	QC 1678	QC 1685
Total Organic Carbon	TM132	100.46 75.74 : 101.50	102.28 75.74 : 101.50

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG:	171211-3	Client Reference:	A105832	Report Number:	439568
Location:	JMEL, Barry	Order Number:	C17/596	Superseded Report:	437486

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

General

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
◆	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.