

# Caulmert Limited

Engineering, Environmental & Planning  
Consultancy Services

## Cardiff Docks

Donald Ward Limited

New Bespoke Environmental Permit Application

## Site Condition Report

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## Site Condition Report

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### DRAWINGS

<b>6002-CAU-XX-XX-DR-V-1800</b>	Permit Boundary Plan
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<b>3617/01A</b>	Site Layout Plan

### APPENDICES

<b>Appendix 1</b>	Groundsure Environmental Report
<b>Appendix 2</b>	Phase II Site Investigation Report

## 1.0 INTRODUCTION

### 1.1 Background

1.1.1 Donald Ward Limited (hereafter referred to as ‘the *Operator*’) have appointed Caulmert Limited to prepare a New Bespoke Environmental Permit application for a new metal recycling and ELV depollution waste operation at their Cardiff Docks site (‘the *Site*’) in South Wales. The Site is located at postcode **CF10 4LY** and national grid reference **ST 20194 74018**.

1.1.2 The Site location is shown in **Figure 1** below:



**Figure 1 – Site Location Plan (approx. Site boundary in red).**

- 1.1.3 As part of the permit application, this Site Condition Report has been produced in accordance with Natural Resources Wales (NRW) guidance.

## **1.2 Site Setting and Location**

- 1.2.1 The Site is an approx. 9-acre plot located 2.5km southeast of Cardiff City Centre, on the southern edge of the Queen Alexander Dock, within the wider Associated British Port (ABP) of Cardiff. The Site is located at National Grid Reference ST 2019 74018 and is leased from ABP Ports by Donald Ward Limited.

- 1.2.2 The Port of Cardiff is well connected by the rail network, and within easy reach of the M4 motorway. The Site is surrounded by other industrial sites and businesses within the Port of Cardiff and is adjacent to the Severn Estuary, which is a designated Site of Special Scientific Interest (SSSI), Special Area of Conservation (SAC), Special Protection Area (SAC) and Ramsar Site. Further information on sensitive receptors is provided in Section 2.0 of this report.

## **1.3 Proposed Site Operations**

- 1.3.1 The Operator has been providing metal recycling services to the public, commercial, and industrial sectors for over 80 years, recycling both ferrous and non-ferrous metals, as well as providing end-of-life (ELV) depolluting and recycling services all over the UK. The Operator currently runs these services at their other permitted sites in Barking London, Chesterfield, Ilkeston, Swadlincote, York, Immingham, Redcar, and Tilbury.

## **1.4 Template for Site Condition Reports**

- 1.4.1 The Natural Resources Wales (NRW) H5 guidance on Site Condition Reports<sup>1</sup> (horizontal guidance note H5) sets out the requirements to prepare and maintain a site condition report for facilities that are regulated under the Environmental Permitting Regulations over the lifetime of the Site.

- 1.4.2 A Site Condition Report template is provided within the guidance. The template is divided into sections to be completed at different life stages of the regulated facility:

Sections 1-3 to be completed and submitted with applications for new facilities: This should include a description of the condition of the land at permit issue and a description of permitted activities at the site.

Sections 4-7 to be maintained during the operational life of the site: This should include a description of any changes to the activities and any changes to the use or production of dangerous substances at the facility. It should also include records of inspections for all

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<sup>1</sup> <https://naturalresources.wales/media/1215/environmental-permitting-regulations-guidance-for-applicants-h5-site-condition-report-guidance-and-template.pdf>

pollution prevention measures, pollution incidents that may have had an impact on land and environmental monitoring.

Sections 8-10 to be completed and submitted with surrender applications: This should include a description of site decommissioning and removal of pollution risk and, where relevant, reference data and details of any remediation. Finally, it should include a 'statement of site condition' that is based on the information provided in the previous sections of the report.

- 1.4.3 To support the permit application for the new Cardiff Docks waste operation, sections 1 to 3 of Natural Resources Wales (NRW) Site Condition Report Template is addressed below.

## 2.0 SITE DETAILS

### 2.1 Operator and site location

2.1.1 The details of the operator and the site are as follows:

**Table 1 - Operator Details**

<b>Name of operator</b>	Donald Ward Limited
<b>Activity address</b>	Cardiff Docks Site Cold Stores Road Port of Cardiff Cardiff Wales CF10 4LL
<b>National grid reference</b>	ST 20194 74018

2.1.2 In the context of this report, 'the Site' refers to all of the land within the proposed permit boundary as shown on drawing ref. 6002-CAU-XX-XX-DR-V-1800.

### 2.2 Site plans

2.2.1 Site plans showing details of the Site and its surroundings are attached to this report as part of the permit application. The list of drawings is provided in Table 2 below:

**Table 2 - List of Drawings**

<b>Drawing number</b>	<b>Drawing title</b>
6002-CAU-XX-XX-DR-V-1800	Permit Boundary Plan
6002-CAU-XX-XX-DR-V-1801	Sensitive Receptors Plan
3617/01A	Site Layout Plan

## 3.0 CONDITION OF THE LAND AT PERMIT ISSUE

### 3.1 Environmental Setting

3.1.1 The information presented within this section is based on information obtained from the Environment Agency's website, the British Geological Survey (BGS), Magic Maps (DEFRA) and other publicly available sources, as well as a recent Groundsure Environmental Report (with historical maps in **Appendix 1**) and Phase II Site Investigation Report (see **Appendix 2**). The Groundsure Environmental Report provides a source of information about the physical conditions of the ground, the geology, nearby designated sites of importance and the current and historical land-uses of the Site.

#### ***Geology***

3.1.2 British Geological Survey (BGS) map online database (GeoIndex<sup>2</sup>) and historic borehole BGS records have been used to assess the geology beneath the site, as well as information obtained from the Groundsure Report.

3.1.3 *Made Ground* - the Site's concrete surface is directly underlain by Made Ground of ash clinker, slag, coal and rubble.

3.1.4 *Superficial deposits* - the Made Ground deposits are underlain by Tidal Flat deposits consisting of soft grey silty clay with gravel and cobbles.

3.1.5 *Bedrock* - the Tidal Flat deposits are underlain by the Mercia Mudstone bedrock.

#### ***Hydrogeology***

3.1.6 *Superficial aquifer* - underlying the Site are Tidal Flat deposits of clay, silt and sand which is classified as a Secondary Undifferentiated Aquifer, which is defined in the Groundsure Report as "assigned where it is not possible to attribute either Category A or B to a rock type. In general, these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type".

3.1.7 *Bedrock aquifer* - below the Tidal Flay deposit is the Mercia Mudstone bedrock which classified as a Secondary B Aquifer, defined in the Groundsure Report as "predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers".

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<sup>2</sup> GeoIndex, BGS, 2023 website: <https://mapapps2.bgs.ac.uk/geoindex/home.html>

- 3.1.8 *Groundwater* - According to the Groundsure Report, there are no groundwater abstraction records within 2km of the Site. There are no Source Protection Zones (SPZs) within 500m of the Site.

### ***Surface waters***

- 3.1.9 The Severn Estuary is located approximately >30m to the southeast of the Site boundary. The Queen Alexandra Dock is located approximately 10m to the northwest of the Site boundary.
- 3.1.10 The majority of the Site is not at risk of flooding from the Sea, Rivers or Surface Water and Small Watercourses, in accordance with the NRW Flood and Coastal Erosion Risk Maps website<sup>3</sup>. However, a section along the north-western boundary of the site is within a Flood Zone 2 (risk of flooding from the Sea) and very small areas on the Site may be at risk of surface water flooding between 0.1 - 0.3m for 1 in 30-year rainfall events, according to the Groundsure Report. There are no records (since 1946) of historic flooding on-site or within 250m of the Site from rivers, the Sea, groundwater or surface water. The Site is at low risk of flooding from groundwater.
- 3.1.11 There are sea defences nearby installed around Cardiff Bay, but the Site itself does not benefit from any sea defences<sup>4</sup>.
- 3.1.12 The proposed Site area has a sealed drainage system, with stop valve installed, which eventually discharges to sewer, via the Associated British Port (ABP) of Cardiff drainage systems.
- 3.1.13 There are no licensed surface water abstractions within 1km of the Site, however there are 6 records between 1,311 m NW and 1,318 m NW for abstractions over 20 m<sup>3</sup>/day, two licenses of which are currently active.
- 3.1.14 On-site there are 2 records of licensed discharges to controlled waters, one into receiving water Queen Alexandra Dock which is currently active (Consent ref. AN0033424), and the other into the Severn Estuary which has now expired (Consent ref. AN0033413). There are 19 other records of licensed (active and expired) discharges for other sites surrounding the Site, between 32m north and 455m southwest.

### ***Topography***

- 3.1.15 The site is generally flat and lies at approximately 10mAOD (metres Above Ordnance Datum) due to the close proximity to the Severn Estuary.

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<sup>3</sup> NRW Flood Risk Maps 2023: <https://flood-risk-maps.naturalresources.wales/?locale=en>

<sup>4</sup> Magic Maps, DEFRA, 2023: <https://magic.defra.gov.uk/MagicMap.aspx>

## 4.0 SENSITIVE RECEPTOR SEARCH

4.1.1 A sensitive receptor search was conducted of the surrounding area within a 1km radius of the Site boundary (see **Figure 2**) using Defra's Magic Maps website<sup>5</sup> and DataMapWales<sup>6</sup> the sensitive receptors identified are listed below in **Table 1** and also shown on the Sensitive Receptor Plan drawing ref. 6002-CAU-XX-XX-DR-V-1801. The distance to each receptor is measured from the proposed Site boundary.



**Figure 2 – Approx. 1 km Radius from Site Boundary.**

<sup>5</sup> DEFRA Magic Maps 2023: <https://magic.defra.gov.uk/MagicMap.aspx>

<sup>6</sup> DataMapWales: <https://datamap.gov.wales/>

- 4.1.2 The closest human receptors to the site are workers and customers of the surrounding industrial/commercial sites located 20m SW (HDM Tubes) and 50m NW. There are a large number of industrial sites further to the north as part of Cardiff Docks and across the Queen Alexandra Docks. These are, however, largely industrial and commercial receptors and less sensitive to emissions such as noise, vibration, and odour.
- 4.1.3 There are no schools or hospitals within 1km of the site.
- 4.1.4 The nearest residential receptors are the short-term accommodation occupants at HMS Cambria Royal Naval Reserve, located approximately 450 m northwest of the site. In addition, residents of the Adventurers Quay housing complex are situated approximately 660 m northwest of the site boundary.
- 4.1.5 The majority of the Site is not at risk of flooding from the Sea, Rivers or Surface Water and Small Watercourses, in accordance with the NRW Flood and Coastal Erosion Risk Maps website<sup>7</sup>. However, a section along the northwestern boundary of the Site is within a Flood Zone 2 (risk of flooding from the Sea) and very small areas on the Site may be at risk of surface water flooding between 0.1 - 0.3m for 1 in 30 year rainfall events.
- 4.1.6 The Site is not located within an Air Quality Management Area (AQMA), with the closest located in Cardiff city centre (2.5km northwest) declared in April 2013 for nitrogen dioxide (NO<sub>2</sub>).

## 4.2 Designated Sites of Ecological Importance & Other Habitats

- 4.2.1 A search of the surrounding area using the DEFRA Magic Maps website has identified the following designated habitats sites within 2 km:
- Severn Estuary (Wales) Site of Special Scientific Interest (SSSI) 36m southeast
  - Severn Estuary (Wales) Special Area of Conservation (SAC) 36m southeast
  - Severn Estuary (Wales) Ramsar Site 310m southeast
  - Severn Estuary (Wales) Special Protection Area (SPA) 310m southeast
  - Cardiff Heliport Fields Site of Importance for Nature Conservation and Local Wildlife Site (LWS) 975m north-northeast
  - Cardiff Bay Wetlands Local Nature Reserve (LNR) and Local Wildlife Site (LWS) 995m west
  - Hamadryad Park Local Nature Reserve (LNR) 1.52km west-northwest
  - Penarth Coast SSSI 1.9km to the southwest
- 4.2.2 The Severn Estuary/Mor Hafren is designated a SSSI, SAC, SPA, and Ramsar site due to its high tidal range, its importance as a migratory route for many fish and birds, and as a permanent home, overwintering home and breeding ground for internationally important populations of

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<sup>7</sup> NRW Flood Risk Maps 2023: <https://flood-risk-maps.naturalresources.wales/?locale=en>

waterfowl and other wading birds on the mudflats, sandbanks, rocky platforms and salt marsh along the estuary.

- 4.2.3 Covering 8 hectares, Cardiff Bay Wetlands Reserve is a vital Local Nature Reserve supporting reedbeds, a priority UK habitat, and a rich diversity of species. It provides breeding and feeding grounds for reed buntings, reed and sedge warblers, teal, kingfishers, and grey herons, alongside amphibians, invertebrates, and coarse fish. These habitats are crucial for both resident and migratory wildlife, making the reserve an important refuge within Cardiff's urban landscape.
- 4.2.4 There are no National Nature Reserves (NNRs), Designated Ancient Woodland, Biosphere Reserves, Marine Conservation Zones, Green Belt, World Heritage Sites, Areas of Outstanding Natural Beauty (AONBs), National Parks, Listed Buildings, Conservation Areas, Scheduled Ancient Monuments or Registered Parks and Gardens within 2km of the Site boundary.
- 4.2.5 The sensitive receptors identified within 1km of the Site boundary are presented in **Table 1** below:

**Table 1 – Summary of Sensitive Receptors within 1km of the site boundary**

Receptor	Type	Distance/Direction
Garden Tiger Butterfly	Priority Species	Within Permit Boundary
Queen Alexandra Dock	Surface Water	10m NW
HDM Tubes and Pipe Manufacturing Solutions Ltd warehouses	Commercial/Industrial	20m SW
Beach Sidings	Local Wildlife Site	21m E
Dunnock Bird	Priority Species	29m E
Severn Estuary SSSI and SAC	Protected Habitat/ Surface Water	36m SE
Visitors to storage units of Wild Water Group and Owens Group Cardiff	Recreational	50m NW
Herring Gull	Priority Species	55m W
Wild Water Group	Commercial	146m NW
UK prefulfillment - Densia	Commercial/Industrial	150m SW
Workers at other industrial sites off Cold Stores Rd in Cardiff Docks	Commercial/Industrial	220m NW
Severn Estuary SPA and Ramsar site	Protected Habitat	310m SE
Bob Martin Dispatch Warehouse	Commercial/Industrial	380m SW
Cargo Road	Public Road	413m NW
BBC Studios Roath Lock	Commercial	440m W
HMS Cambria Royal Naval Reserve	Residential	450m NW

Receptor	Type	Distance/Direction
Greenenergy Cardiff Tank Farm	Commercial/Industrial	480m SW
Tyneside Road	Public Road	519m NW
Pedal Power Bike Hire	Commercial	524m NW
Workers at Alexandra Docks container yard	Commercial/Industrial	560m W
Tiger Yard Food Court	Commercial/Recreational	574m NW
VANZA Motor vehicle dealer	Commercial	600m NE
Tiger Yard Street Food	Recreational	630m W
Coffi Co at Porth Teigr	Commercial	640m WNW
Adventurers Key housing estate	Residential	660m NW
Parker Plant Hire	Commercial/Industrial	710m SW
Norwegian Church Art Centre	Recreational / Commercial	727m NW
Workers at Valero Fuel Supplier	Commercial/Industrial	750m NE
The Waterguard Pub	Commercial/Recreational	760m NW
Business Park/Offices on northern side of Roach Basin	Commercial	760m NW
Norwegian Church Arts Centre	Recreational	770m WNW
ITV Cymru	Commercial	802m NW
Atradius Insurance Company offices	Commercial	805m NW
Associated British Ports of Cardiff Offices	Commercial/Industrial	825m SW
Atkin Trade Specialists	Commercial/Industrial	830m NE
Biffa Waste Management Cardiff	Commercial/Industrial	840m NE
Visitors to Cardiff Bay Trail Walk / Wales Coastal Footpath & Alexandra Head	Public Footpath/Recreational	850m SW
Cardiff Recreational Area inc. Cardiff Bay Sailing Centre, Skate Plaza, Basketball Court, Aqua Park and Playground	Recreational	870m SW
The Senedd government building	Commercial	900m NW
Cardiff Barrage Children's Playground	Recreational	960m SW
Cardiff Heliport Fields	Habitat / Commercial	975m NNE
Cardiff Bay Wetlands Reserve (LNR and LWS)	Habitat	995m W
Coop Food	Commercial	96m NW
Roald Dahl Plass (Plaza)	Commercial/Recreational	1km NW
Millenium Centre	Recreational	1km NW
St David's (VOCO) Hotel	Commercial / Recreational	1km WNW
Mount Stuart Graving Docks	Commercial / Recreational	1.1 km NW
Hamadryad Park Local Nature Reserve	Habitat	1.52 km WNW

## 5.0 POLLUTION HISTORY

### 5.1 Pollution incidents

- 5.1.1 The Environment Agency and Natural Resources Wales publishes data on reported pollution incidents which were categorised as either Category 1 'major' and Category 2 'significant' pollution incidents. There are no published pollution incidents recorded for the Site itself.
- 5.1.2 There is 1 pollution incident recorded within 500m of the Site - located 330m north and recorded in 2014 this pollution incident was for smoke and described as a Category 4 (no impact) incident to land and air.
- 5.1.3 There are no records within 500m for any pollutant release/discharge to surface waters (Red List), pollutant release to public sewer (Special Category Effluents), discharges of List 1 and List 2 Dangerous Substances or radioactive substances according to the Groundsure Report.

#### *Historic land-uses*

- 5.1.4 On-site the historic land-uses are recorded as the following in **Table 4**:

**Table 4 – On-Site Historic Land-Uses**

Historic Land-Use	Dates Present On-Site (from Historical Maps)
Timber Yard	1947
Cuttings	1963
Railway Sidings	1878-1948, 1915-1922, 1963, 1970, 1992
Dock	1915, 1938-1947, 1992, 1995
Unspecified Commercial/Industrial	1970
Unspecified Wharf	1992, 1963-1970
Unspecified Tank	1967
Electricity Substation	1993

- 5.1.5 There are no records of any historical petrol stations, garages or military land on-site or within 500 m of the Site.
- 5.1.6 Off-site, there are 96 records of surrounding historic land-uses within 500 m which includes Timber Yard, Cold Storage, Ground Workings, Coal Washery and Ladder Factory between 1915 and 1992 to the north and northeast. Railway sidings were also present to the northwest from 1889 to present. There were also docks and cuttings recorded to the north, west and southwest.
- 5.1.7 There are no active landfills on-site or within 500 m of the Site. There are no historic landfills recorded on-site. Within 500m there are records of a historic 'Refuse Tip' between 204 m east

and 257 m east. Known historical (closed) landfill sites are also recorded at 102 m northeast and 360 m southwest.

- 5.1.8 Historical wastes sites within 500 m included a Waste Transfer Station 37 m northeast (applied for planning in 2000), another 54 m northeast (applied for planning in 2004) and also a record of a Scrap Yard 408 m (1979 map records) northwest of the Site.
- 5.1.9 The closest licenced waste sites currently active or recently closed are recorded at 81 m northeast (Cardiff Recycling Ltd.), 86 m northeast (Transfer Station on Longships Rd) and 168 m north (Household, Commercial & Industrial Waste Transfer Station).
- 5.1.10 The closest Control of Major Accident Hazards (COMAH) sites are 2 historical sites located 450m to the southwest – Greenergy Terminals Ltd (Upper Tier operator) and Prax Terminals Ltd (Lower Tier Operator). No records of any COMAH sites exist for on-site.

### ***Current land-uses***

- 5.1.11 Two existing waste exemptions are registered for the Site to Donald Ward Ltd. for treating waste (recovery of scrap metal) and storing waste (in a secure place). There are 12 other waste exemptions registered within 500 m of the Site, for using, storing and treating various wastes, the closest located 163 m north, held by Associated British Ports.
- 5.1.12 Current potentially contaminative activities on-site include records of travelling cranes and gantries. Off-site within 250 m there are 15 records of other industrial land-uses, the closest of which include metal manufacturers and fabricators HDM Tubes Ltd. (49 m southwest), moorings and unloading at Fletchers Wharf and Kings Wharf (62 m southwest and 78m north), a sawmill (163 m north) and concrete manufacturers Cemex (197 m north).
- 5.1.13 There are no records of any petrol stations, high voltage cables or gas pipelines within 500m of the Site. There are no sites determined as 'Contaminated Land', no regulated explosive sites or hazardous substance/storage/usage sites within 500 m of the Site.
- 5.1.14 There is a licenced Part A (1) industrial activity registered 404 m to the west of the Site, permit ref. EPR/QP3035WK held by Cargo Services (UK) Ltd. for their Cargo Services Terminal. This permit allows the operator to temporarily store hazardous wastes with a total capacity exceeding 50 tonnes – permitted to store up to 3,500 tonnes of Electric Arc Furnace (EAF) waste within a dockside warehouse prior to loading and transportation for recovery.
- 5.1.15 There are 5 records of Part B permits of which only 1 is active, held by Cemex Ltd, located 256m north of the Site.
- 5.1.16 **Table 5** below indicates the sources of potential contamination at the site and the surrounding area based on the historical land uses:

### **Table 5 - Potential Contaminants**

Potential Sources		Potential Contaminants
<b>Within proposed Site boundary</b>	Made Ground from: <ul style="list-style-type: none"> <li>• Timber Yard</li> <li>• Railway Sidings</li> <li>• Electricity Substation</li> <li>• Scrap Yard</li> <li>• Oil spillages from vehicles and machinery on site</li> </ul>	Various contaminants including: <ul style="list-style-type: none"> <li>• Polyaromatic hydrocarbons (PAHs)</li> <li>• Total petroleum hydrocarbons (TPH)</li> <li>• Heavy metals</li> <li>• Asbestos</li> </ul>
<b>Off-site</b>	Industrial land-uses: <ul style="list-style-type: none"> <li>• Timber Yard</li> <li>• Waste Transfer Stations</li> <li>• Railway Sidings</li> <li>• Scrap Yard</li> <li>• Manufacturers of metal and concrete</li> <li>• Dockyards</li> </ul>	Various contaminants including: <ul style="list-style-type: none"> <li>• Polyaromatic hydrocarbons (PAHs)</li> <li>• Total petroleum hydrocarbons (TPH)</li> <li>• Heavy metals</li> <li>• Asbestos</li> </ul>

### ***Visual/olfactory evidence of existing contamination***

5.1.17 The Operator confirms there is no visual or olfactory evidence of any existing contamination on-site. A site walkover was also undertaken as part of the intrusive Phase II Site Investigation works by ExCAL Limited in late January/early February 2023 (see Appendix 2) and it was confirmed that no obvious visual contamination such as staining, olfactory evidence of contamination, or other clues as to the presence of contamination was observed on the site surface, prior to the site works commencing.

### ***Evidence of damage to pollution prevention measures***

5.1.18 The Operator confirms there is no evidence of damage to pollution prevention measures such as the sealed drainage network or the impermeable concrete site surfacing, which are both confirmed to be intact and functioning correctly.

## **5.2 Evidence of historic contamination**

5.2.1 The Groundsure Environmental Report of the site (see **Appendix 1**) indicates that due to the presence of numerous historical and current large-scale industrial activities in the area, located in close proximity to the site, it is possible historic contamination of the ground below the site is present. See section below (and **Appendix 2**) for the results of the intrusive Phase II Site Investigation, soil and water sampling and testing results undertaken for the Site.

## **5.3 Baseline soil and groundwater reference data**

5.3.1 A Phase II Geo-environmental site investigation was undertaken by ExCAL Limited, on behalf of Associated British Ports (ABP) Cardiff, from which the Operator leases their Cardiff Docks site, in late January/early February 2023. The attached Phase II report in **Appendix 2** was not



- 5.3.5 Representative soil samples were obtained from the boreholes at approximate 1m intervals and at every change of strata for the purpose of chemical testing at a UKAS accredited laboratory. Soil samples were also collected at the surface for asbestos testing, where deemed appropriate. For the purposes of this investigation, the analysis results were compared with screening concentrations for a proposed commercial end-use using the Category 4 Screening Levels (C4SL's) published by DEFRA, to determine whether or not the soil should be considered to be contaminated for the proposed use of the site. In addition, soil analysis results have also been compared with Land Quality Management (LQM) and Chartered Institute of Environmental Health (CIEH) Suitable 4 Use Levels (S4UL), which provide generic assessment criteria (GAC's) based on minimal or tolerable risk that are intended to be protective of human health for individual/mixtures of substances.
- 5.3.6 Geotechnical testing was also undertaken within each borehole as Standard Penetration Tests (SPTs), of which the results are presented in the report in Appendix 2 and can be used to determine the relative density, bearing capacity and settlement of granular soil. The results can also be used to correlate the approximate strength of stiff cohesive soil.
- 5.3.7 Groundwater samples were obtained from each of the boreholes, with 5 groundwater samples sent for chemical analysis, also at a UKAS accredited laboratory.
- 5.3.8 A brief summary of the borehole logs is provided below in Figure 3:

<b>Borehole 1</b>	<b>Borehole 2A</b>	<b>Borehole 3</b>	<b>Borehole 4</b>	<b>Borehole 5</b>	<b>Comments</b>
G.L – 0.2m Concrete	G.L – 0.6m Made Ground	G.L – 1.0m Made Ground	G.L – 0.3m Concrete	G.L – 0.5m Made Ground	Water Strike in BH01 at 5m.
0.2m – 1.5m Clay and Stone	0.6m – 2.0m Clay	1.0m – 2.5m Loose Ash	0.3m – 1.0m Sub-base	0.5m – 3.7m Made Ground and Clay	Water Strike in BH02A at 4m.
1.5m – 4.5m Clay and Cobbles	2.0m – 3.0m Clay	2.5m – 5.0m Clay and Gravels	1.0m – 3.7m Made Ground	3.7m – 7.0m Clay and Gravels	Water Strike in BH03 at 4m.
4.5m – 5.6m Gravels	3.0m – 4.0m Clay and Gravels	5.0m – 6.0m Gravelly Clay	3.7m – 8.0m Clay and Gravels	7.0m – 8.0m Clay	Water Strike in BH04 at 8m.
5.6m – 7.0m Sand and Clay					Water Strike in BH05 at 7m.

**Figure 3 – Summary of borehole logs (extract Table 1 from Phase II SI Report in App 2)**

- 5.3.9 Three standpipes were also installed with pipework for future groundwater and gas monitoring, and these were in BH01, BH04 and BH05, in the southern-most areas of the site (shown in Drawing ref. 238-02-07.D03 in Appendix 2).
- 5.3.10 In summary the findings from the intrusive ground investigation concluded the following:

- In general, the ground conditions encountered during the ground investigation reflected those detailed within the published geology, comprising Made Ground underlain by Tidal Flat deposits comprising clay, gravel and cobbles. No bedrock was encountered during drilling, with the deepest boreholes BH04 and BH05 drilled to a maximum depth of 8.0m into clay and gravels.
- No visual or olfactory contamination indicators were reported during the intrusive works, apart from the presence of Made Ground.
- A concrete slab between 0.1m and 0.3m thick was present across the site at all borehole locations, underlain by 0.4m to 0.7m thick layer of sub-base at three of the locations.
- Made Ground was encountered below the concrete slab in all exploratory holes comprising predominantly slag, bricks, ash, with some metal and gravel mixed with clay. In BH05 it was reported that 'railway sleepers' were found between 5.0 and 7.0 mbgl.
- As per Figure 2, groundwater strikes were recorded in all boreholes between 4 and 8 metres below ground level.
- In total, 20 soil samples were sent for chemical analysis, with a further 5 being sent for asbestos analysis at a UKAS accredited laboratory. Concentrations were detected below the S4UL recommended thresholds for commercial development for all of the analysed determinands in the samples, and no asbestos was detected in any of the 5 samples tested. However, due to the local area's heavily industrial past and present, the presence of asbestos within the Made Ground should not be discounted.
- The highest concentrations of determinands returned from the chemical analysis were identified in samples obtained from BH05 and BH04, with soils from BH05 and waters from BH04 being identified to return the highest concentrations of analysed determinands in each matrix.
- The full results of the groundwater sample analyses (as stated in the report) indicate very low concentrations of toxic and phytotoxic metals were found in groundwater. PAH was relatively low in all groundwater samples apart from BH04 which had a total PAH of 1,230 µg/l. Total TPH was also recorded the highest in BH04 at 19.4mg/l. Metals such as lead, zinc, aluminium, iron and manganese were also all highest in BH04. The pH of all the samples ranged from 7.5 in BH05 to 8.1 in BH01.
- No biodegradable organic materials were encountered within the existing Made Ground during the investigation and as such, the potential for gas generation within the site was assessed as low. Consideration should be taken for the possibility that ground gas is present however within the potentially highly variable Made Ground.

- 5.3.11 It should be noted that, although low levels of contamination of the soil and groundwater below the site were detected from historic sources, the site is surfaced with an impermeable concrete slab and therefore interaction of the proposed site operations and workers with the ground/groundwater below the surface of the site is highly unlikely. All surface waters and any potential leaks and spills of liquids or other substances associated with the proposed operations will be contained by the site surfacing, perimeter bunding and sealed drainage system, therefore unlikely to contribute further to any pre-existing contamination in the ground/groundwater.
- 5.3.12 For a summary of the laboratory chemical analysis results of the soil and groundwater samples see Appendix C of the Phase II report and for the laboratory sheets see Appendix D.

## 6.0 PERMITTED ACTIVITY

### 6.1 Permitted activities

6.1.1 This permit application consists of a new hazardous and non-hazardous metal recycling, end-of-life vehicle (ELV) depollution/dismantling, furnace ready scrap (FRS) and waste treatment operation.

6.1.2 The waste operation at the Cardiff Docks Site will involve the following activities:

- Storage and cutting of furnace ready scrap (FRS) metal for recovery - No more than 1,000,000 tonnes per year of furnace ready scrap (FRS) metal for recovery. Uncontaminated furnace ready scrap metal (FRS) will arrive at site by either road or rail. The majority of FRS will come from Road from other WARD sites free from contamination and meets customer/furnace specifications ready to go on the vessel. However the site may accept large metal panels which are cut and reduced in size using a burner (hot cutting) or alternative hand shearing activity (using Lefort 1000 shearer). This activity meets the Natural Resources Wales definition of shearing as: “The use of shearers and guillotines which utilise a range of hydraulic machinery that comprise hard steel blades to cut metals into manageable sizes”. FRS will be stored on site before being exported as either a waste or a product, as the site has been accredited to the appropriate End of Waste (EoW) standard.
- End-of-life Vehicle (ELV) storage, depollution and dismantling - No more than 11,000 tonnes per year of waste motor vehicles for vehicle storage, depollution and dismantling for recovery. End-of-life vehicles (ELVs) to be stored on-site prior to depollution and/or dismantling. Following treatment ELV's will be baled and transported by road to an appropriately licensed Ward facility for further recovery.
- Metal recycling - No more than 120,000 tonnes per year of ferrous and non-ferrous metals for temporary storage and treatment for recovery. Metal shredding capacity will be restricted to no more than 75 tonnes per day. Metal grades that require further processing or sorting prior to export or sale within the UK may be sorted and graded or processed using the following methods; hot cutting, shearing, shredding, screening, baling and snipping. Screening of metals will be undertaken inside the fully enclosed building on-site.

6.1.3 The waste treatment and storage will be undertaken on impermeable pavement on-site with sealed drainage. Screening of metals to remove ash and residual debris will be undertaken within the building where required and then stored outside as per the metal recycling activity awaiting export off-site for recycling.

6.1.4 The land on which the applicant proposes to operate the facility will be located within the wider Associated British Port (ABP) of Cardiff, which is surrounded by other industrial sites

and businesses and is adjacent to the Severn Estuary, which is a designated Site of Special Scientific Interest (SSSI), Special Area of Conservation (SAC), Special Protection Area (SAC) and Ramsar Site.

## **6.2 Non-Permitted activities**

6.2.1 There are no non-permitted activities proposed to be undertaken at the Site.

## **6.3 Plan showing activity layout**

6.3.1 The proposed site boundary is shown on drawing ref. 6002-CAU-XX-XX-D-V-1800.

6.3.2 The site layout is shown on drawing ref. 3617/01A.

## **6.4 Environmental risk assessment**

6.4.1 An Environmental Risk Assessment has been carried out to support the permit application, and this is presented separately within document referenced 6002-CAU-XX-XX-RP-V-0302. This report is based on NRW guidance 'How to carry out a risk assessment for an Environmental Permit' (last updated 17<sup>th</sup> July 2024), and assesses the potential risks from odour, noise, fugitive emissions and accidents from the proposed operations and the control measures that will be in place.

6.4.2 The risk assessments identifies control measures on-site such as infrastructure, equipment or operational practices that are required to manage the risks from the site operations. Identified mitigation measures are incorporated as part of the management system for the site.

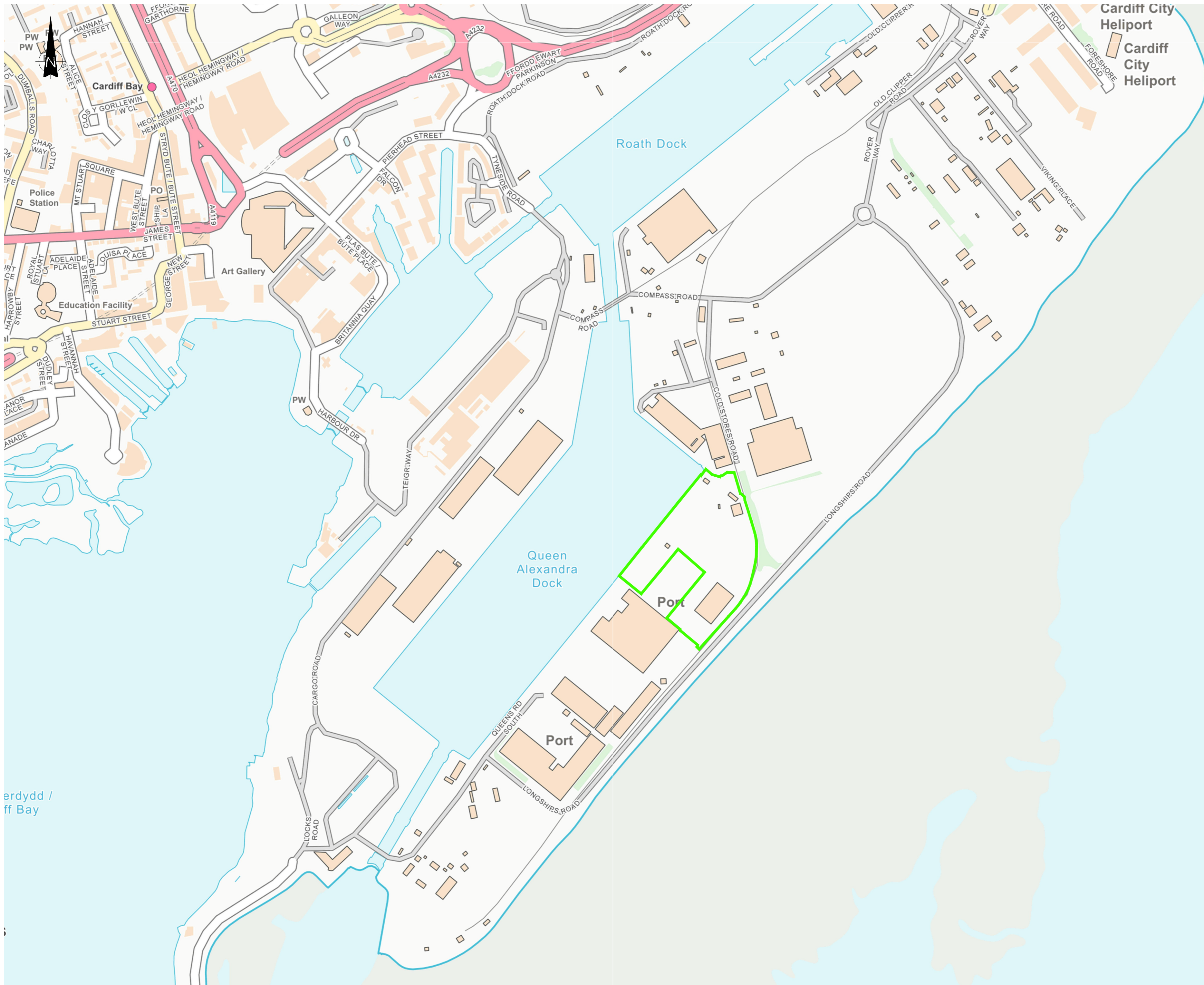
## 7.0 REFERENCES


1. Natural Resources Wales (NRW) October 2014: Environmental Permitting Regulations – Guidance for applicants H5 – Site Condition Report – guidance and templates. Version 5.
2. British Geological Survey, Geindex Onshore, 2023. Available at: [https://mapapps2.bgs.ac.uk/geindex/home.html?\\_ga=2.190003435.1713718151.1669906213-366785382.1669906213](https://mapapps2.bgs.ac.uk/geindex/home.html?_ga=2.190003435.1713718151.1669906213-366785382.1669906213)
3. Natural Resources Wales (NRW) Flood Risk Maps 2023. Available at: <https://flood-risk-maps.naturalresources.wales/?!locale=en>

## DRAWINGS

6002-CAU-XX-XX-DR-V-1800  
6002-CAU-XX-XX-DR-V-1801  
3617/01A

Permit Boundary Plan  
Sensitive Receptors Plan  
Site Layout Plan



**LEGEND**  
 PROPOSED PERMIT BOUNDARY

P02	PERMIT BOUNDARY UPDATED	EJD	AS	AS	31.07.25
P01	ISSUED FOR INFORMATION	EJD	SH	SH	25.10.23
REV	MODIFICATIONS	BY	RE	AP	DATE

PURPOSE OF ISSUE				STATUS	
FOR INFORMATION				S2	

CLIENT:



PROJECT:  
 CARDIFF DOCKS PERMITTING

TITLE:  
 PROPOSED PERMIT BOUNDARY PLAN

DESIGNED BY	DRAWN BY	REVIEWED BY	AUTHORISED BY
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DATE	SCALE @ A2	JOB REF:	REVISION
15.10.2023	1:5000	6002	P02

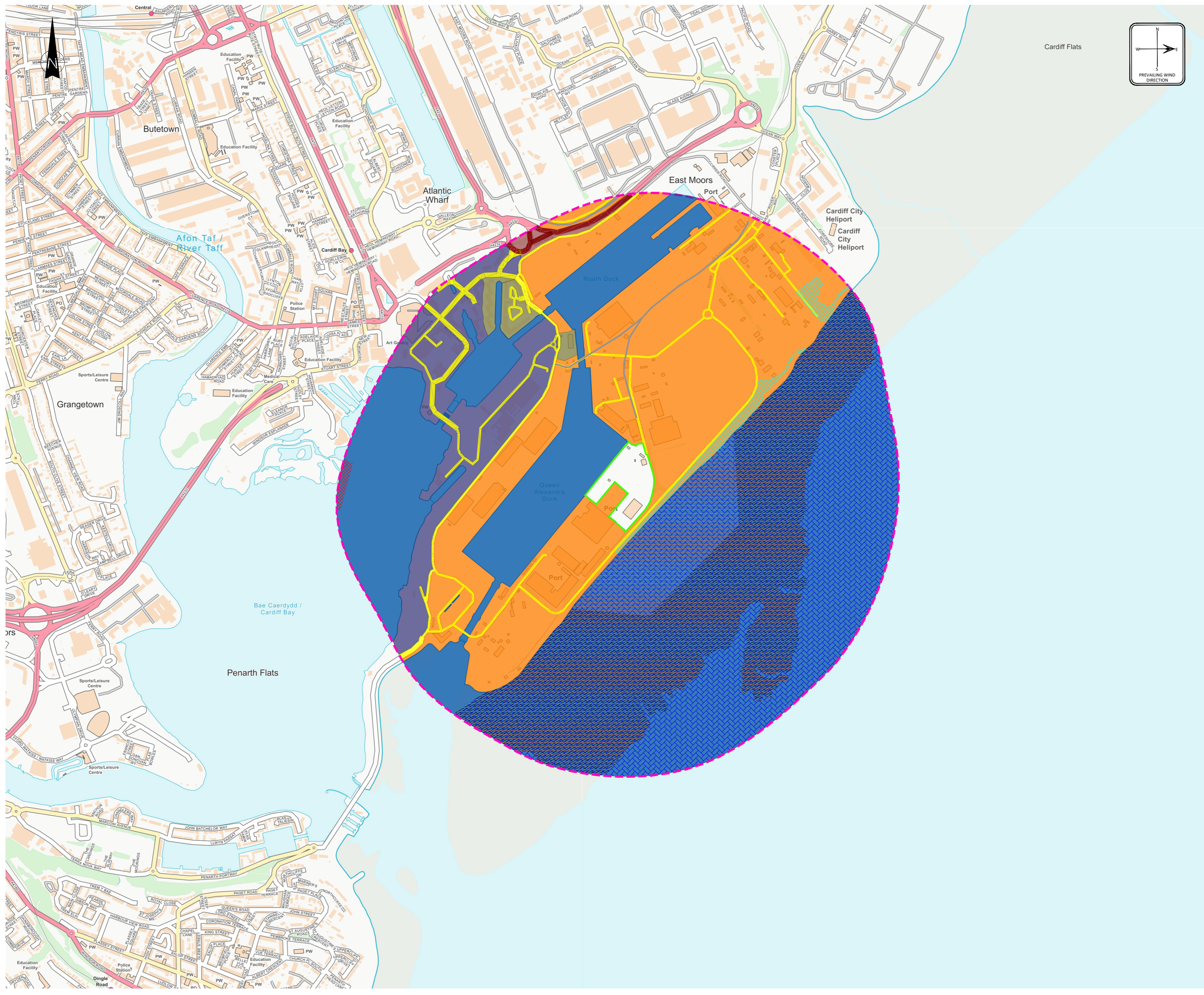
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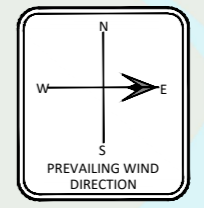
engineering environmental planning

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Cardiff Flats



- LEGEND**
- PROPOSED PERMIT BOUNDARY
  - 1000m OFFSET
  - SURFACE WATER
  - WOODLAND / SCRUBLAND
  - COMMERCIAL
  - EDUCATIONAL FACILITY
  - INDUSTRIAL
  - RESIDENTIAL
  - MAJOR ROAD
  - MINOR ROAD
  - RAIL
  - SITE OF SPECIAL SCIENTIFIC INTEREST (SSSI) (WALES)
  - SPECIAL AREAS OF CONSERVATION (SAC) (WALES)
  - RAMSAR SITES (WALES) AND SPECIAL PROTECTION AREA (SPA) (WALES)
  - LOCAL WILDLIFE SITE (SINC)
  - LOCAL NATURE RESERVE

P04	RECEPTORS BOUNDARY UPDATED	EJD	AS	AS	07.08.25
P03	PERMIT BOUNDARY UPDATED	EJD	AS	AS	31.07.25
P02	AREAS UPDATED	EJD	ER	ER	24.02.25
P01	ISSUED FOR INFORMATION	EJD	SH	SH	25.10.23
REV	MODIFICATIONS	BY	RE	AP	DATE

PURPOSE OF ISSUE: FOR INFORMATION STATUS: S2



PROJECT: CARDIFF DOCKS PERMITTING

TITLE: SENSITIVE RECEPTORS PLAN

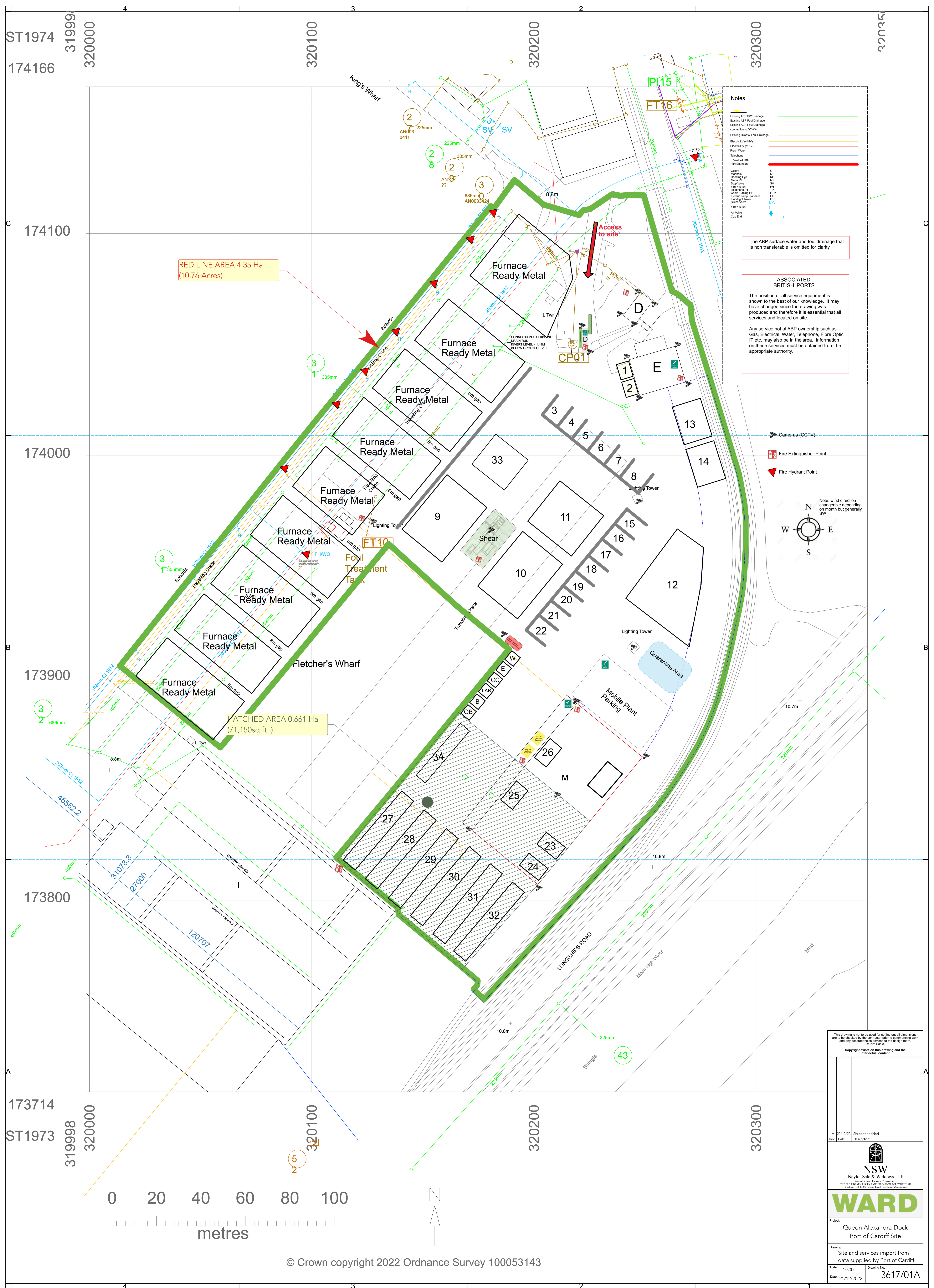
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DRAWING NUMBER: 6002-CAU-XX-XX-DR-V-1801



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**Notes**

Legend

- Existing ABP SW Drainage
- Existing ABP Foul Drainage
- Existing ABP Foul Drainage connection to DC219
- Existing DC219 Foul Drainage
- Electric LV (415V)
- Electric HV (11kV)
- Fresh Water
- Telephone
- IT/CCTV/Fibre
- Port Boundary

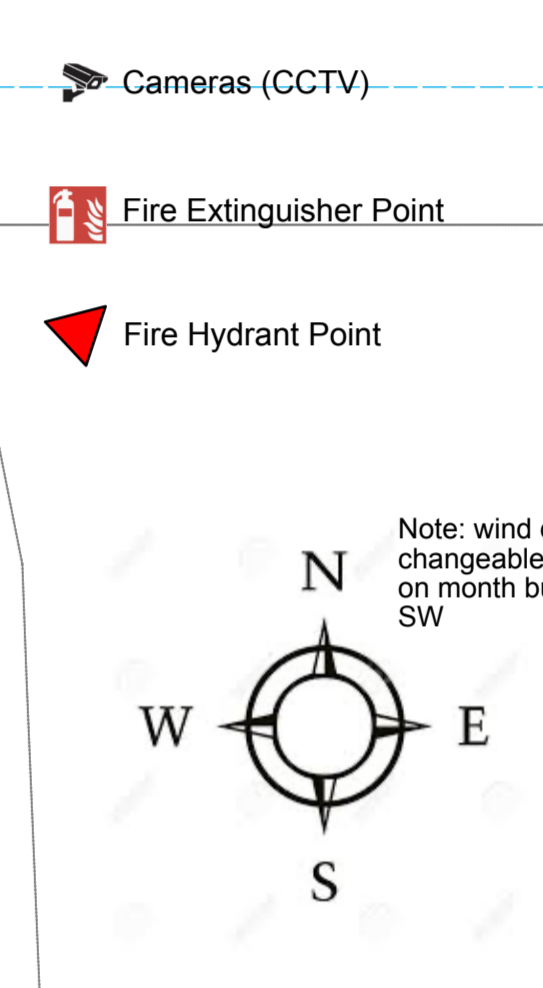
Gully  
Manhole  
Roofing Eye  
Manor Pit  
Stop Valve  
Fire Hydrant  
Telephone Pit  
Cable Trenching Pit  
Electric Lamp Standard  
Floodlight Tower  
Sluice Valve  
Fire Hydrant  
Air Valve  
Cap End

The ABP surface water and foul drainage that is non transferable is omitted for clarity

**ASSOCIATED BRITISH PORTS**

The position or all service equipment is shown to the best of our knowledge. It may have changed since the drawing was produced and therefore it is essential that all services and located on site.

Any service not of ABP ownership such as Gas, Electrical, Water, Telephone, Fibre Optic IT etc, may also be in the area. Information on these services must be obtained from the appropriate authority.



RED LINE AREA 4.35 Ha (10.76 Acres)

MATCHED AREA 0.661 Ha (71,150sq.ft.)

This drawing is not to be used for setting out all dimensions are to be checked by the contractor prior to commencing work and any discrepancies referred to the design team. Do Not Scale.

Copyright exists on this drawing and the Intellectual content

Rev	Date	Description
A	22/12/22	Shredder added

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**WARD**

Project: Queen Alexandra Dock Port of Cardiff Site

Drawing: Site and services import from data supplied by Port of Cardiff

Scale: 1:500 Drawing No: 3617/01A

Date: 21/12/2022


## APPENDIX 1

### Groundsure Environmental Report

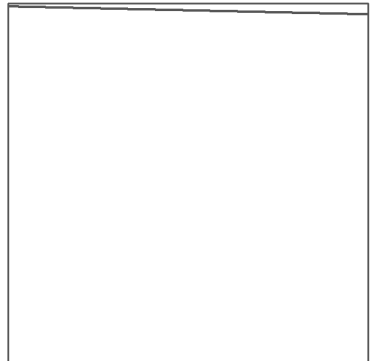
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**Grid Ref:** 320151, 173927

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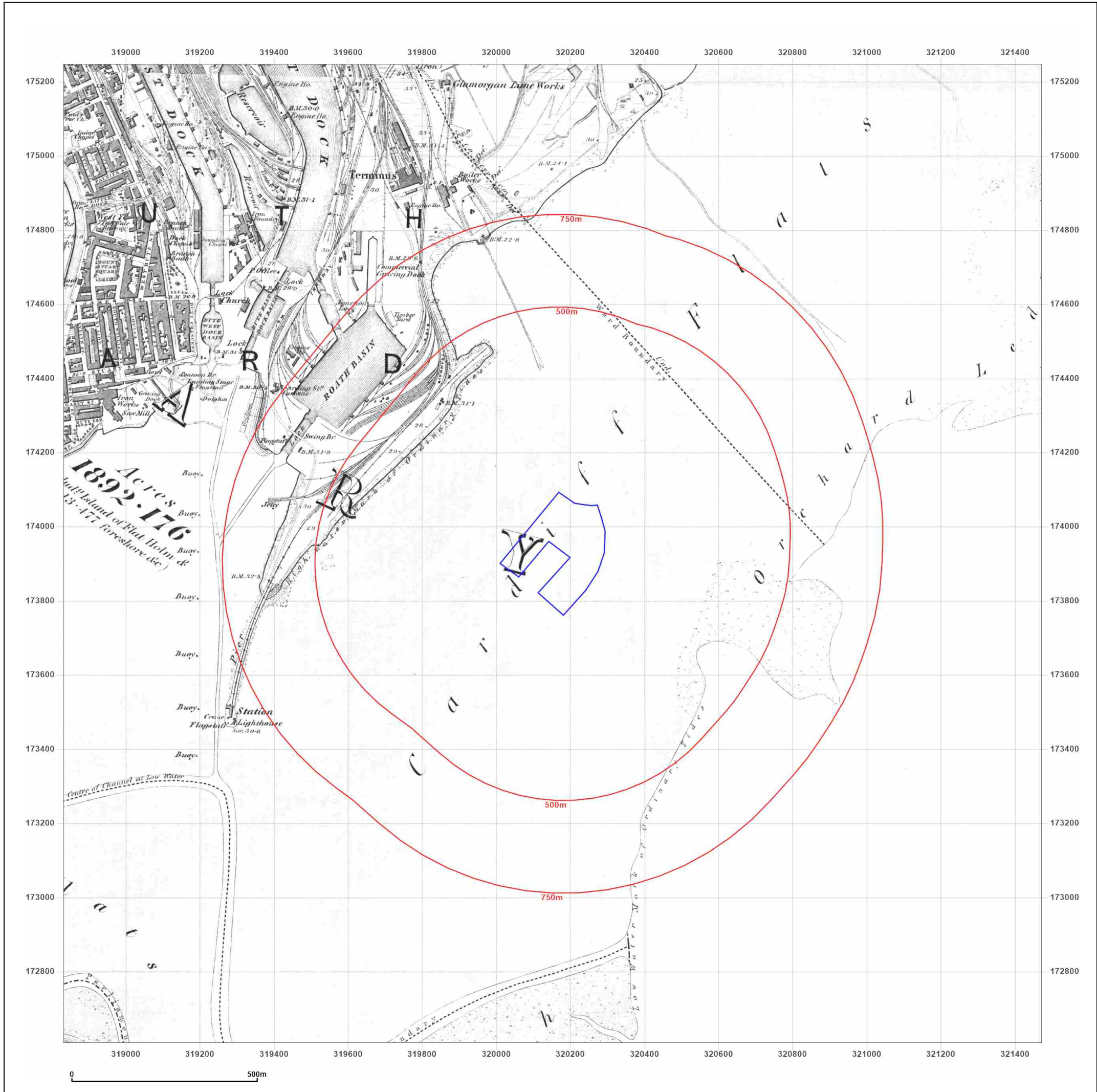


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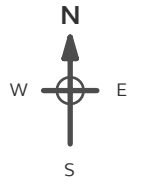


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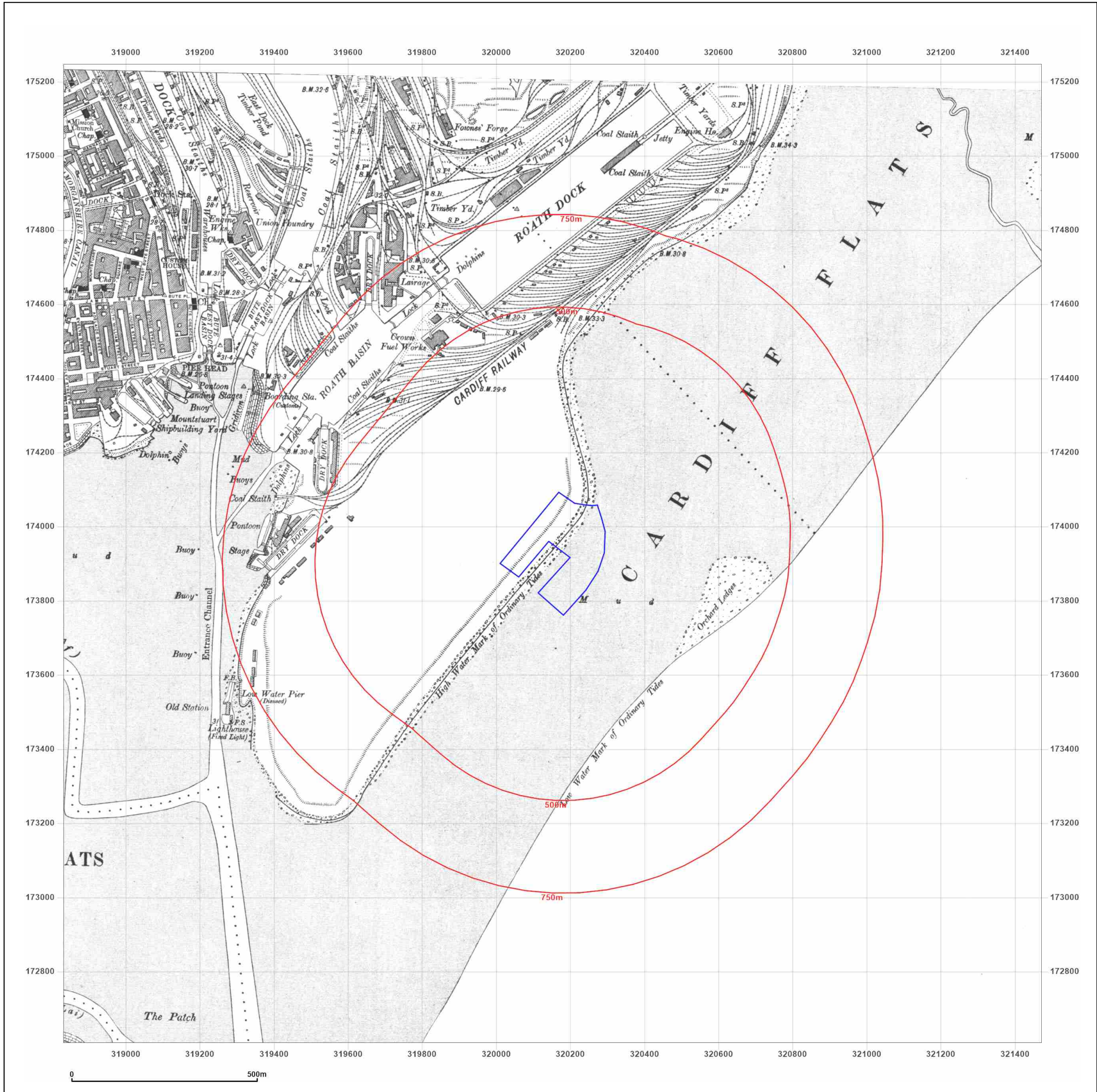


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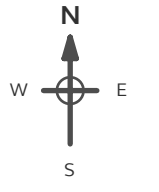
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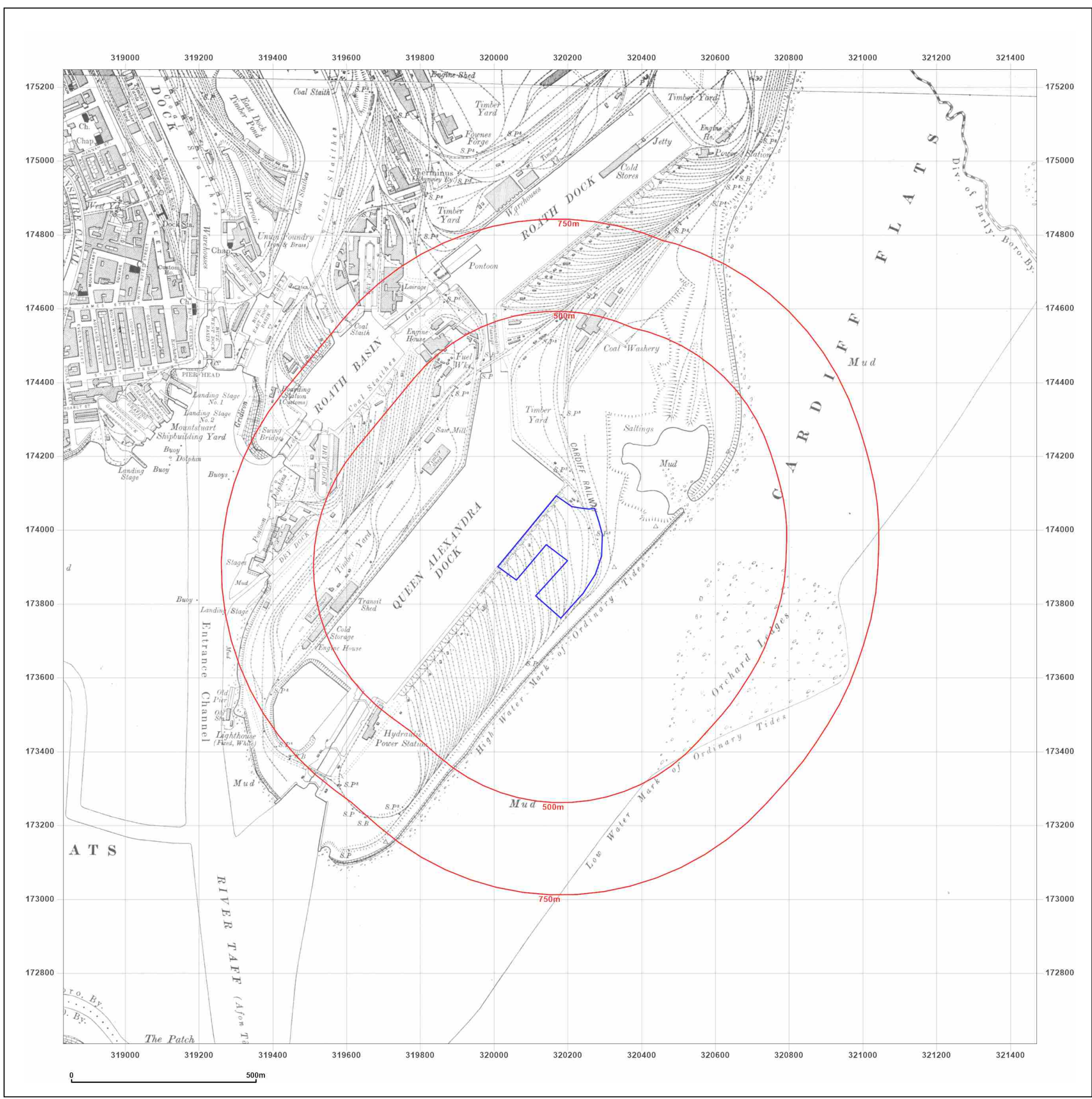
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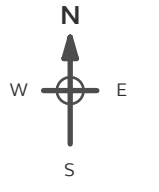


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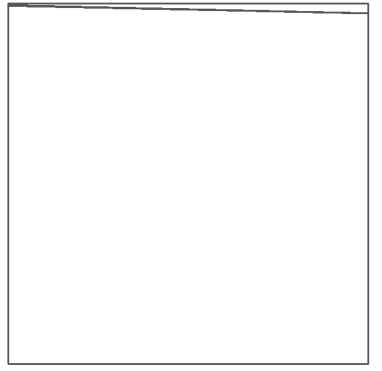
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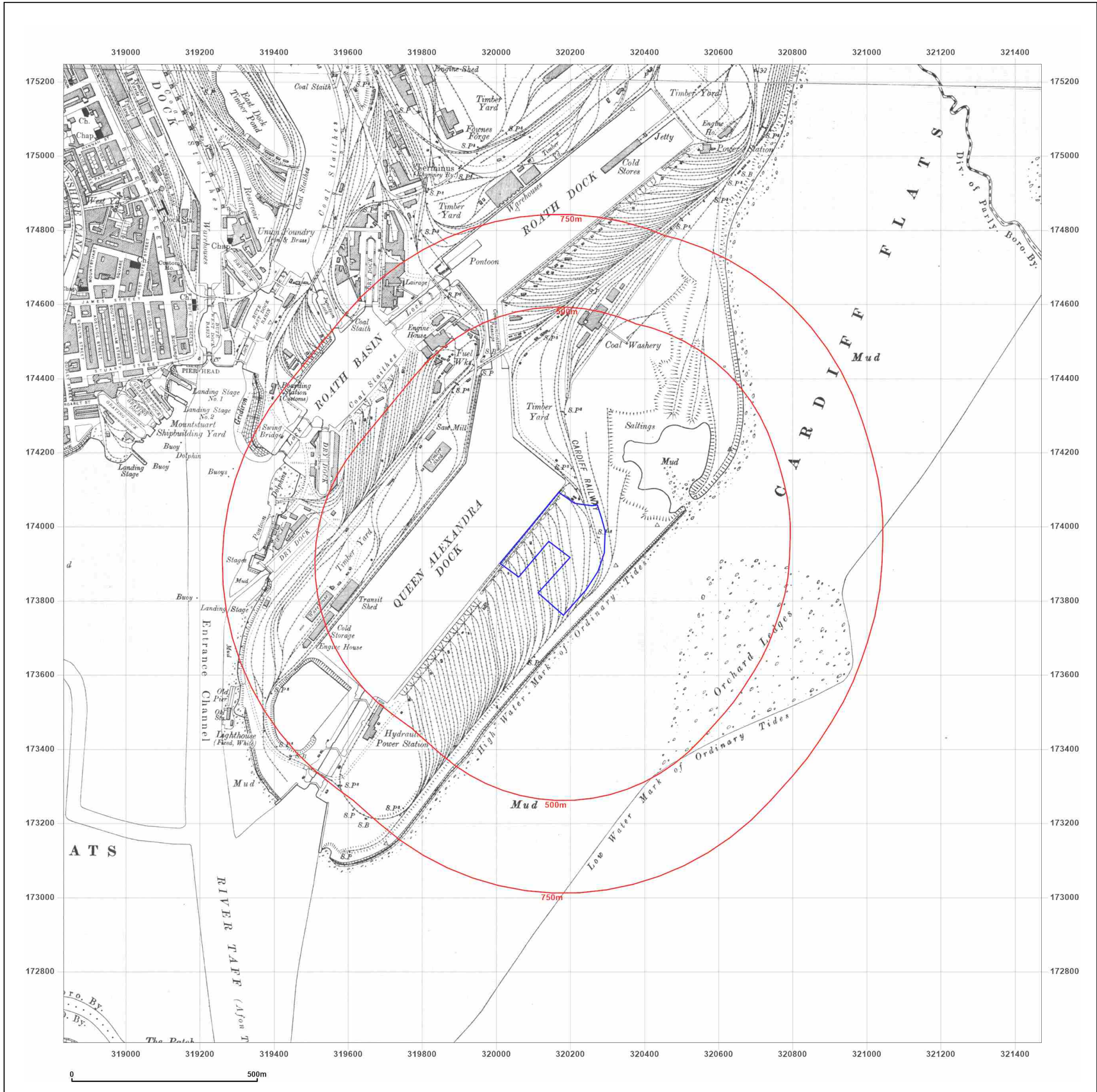


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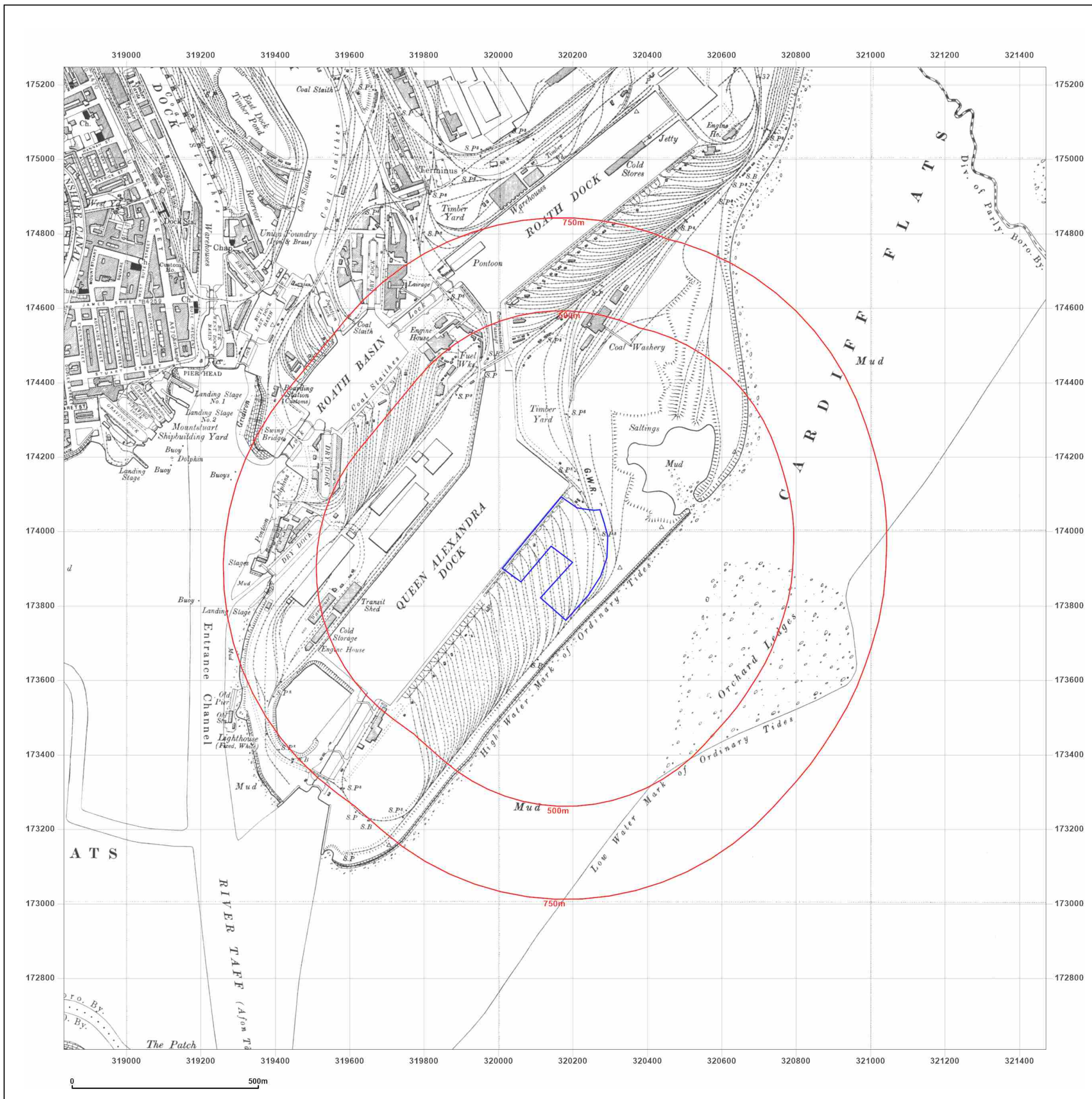


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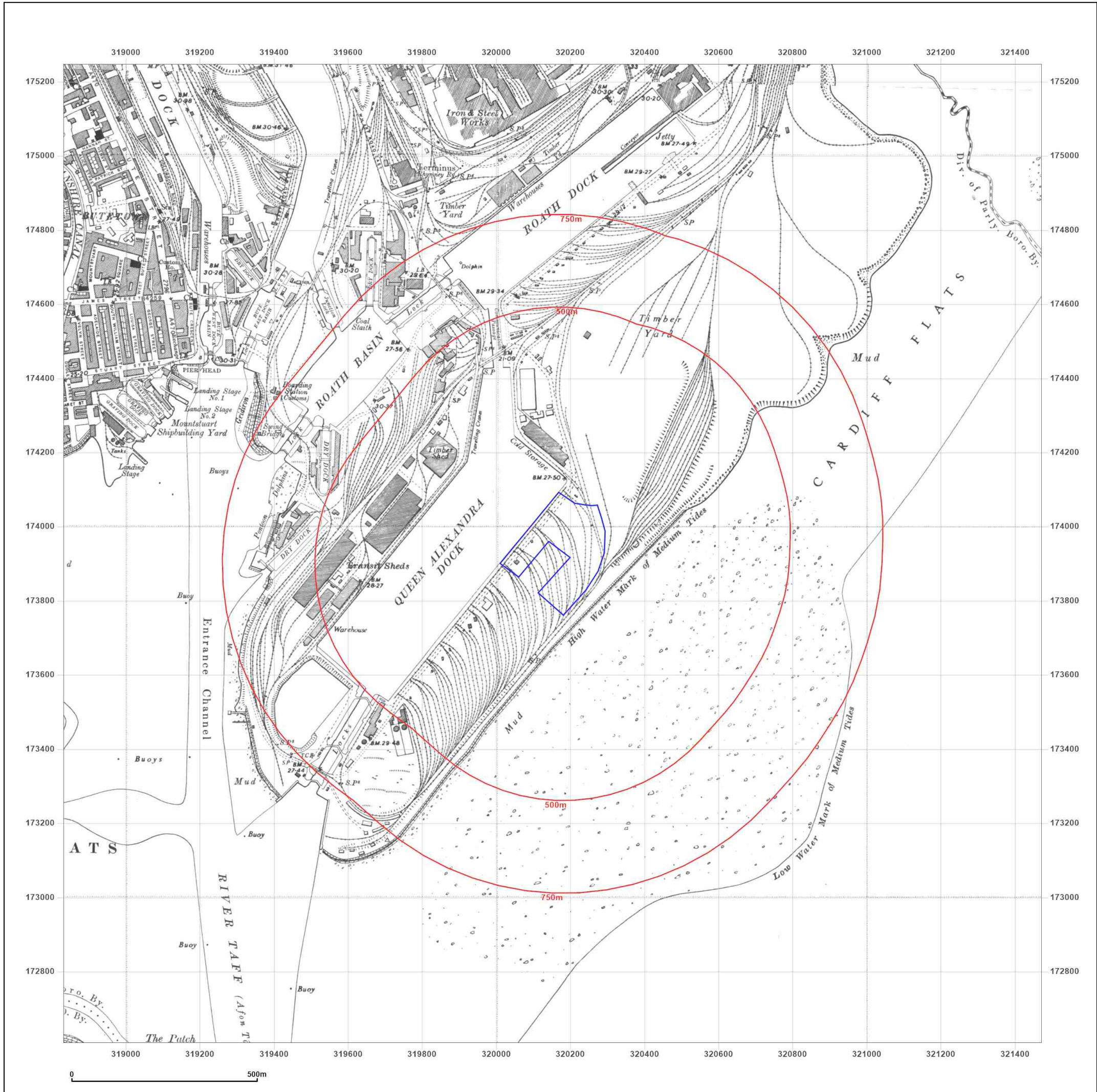


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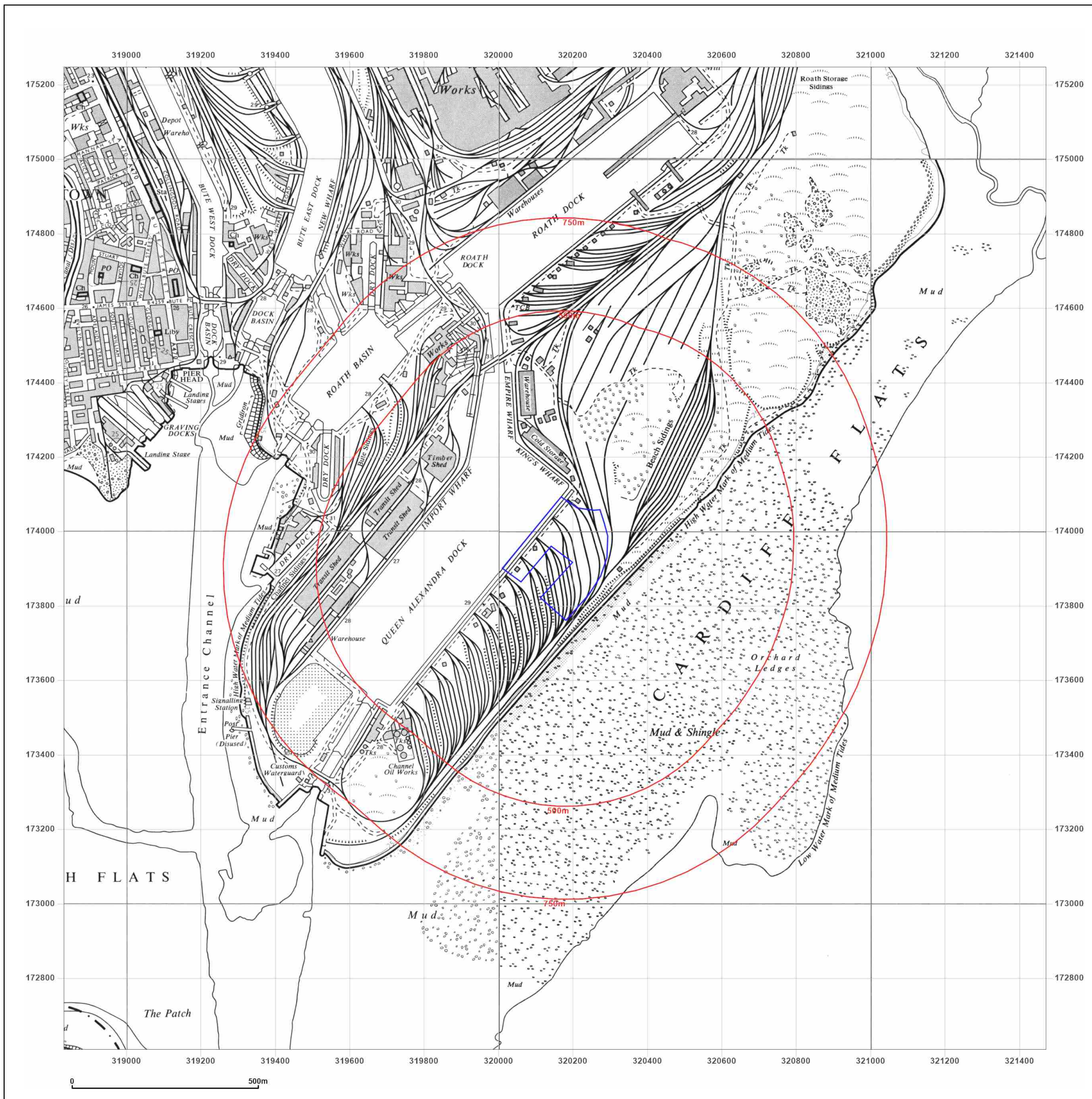


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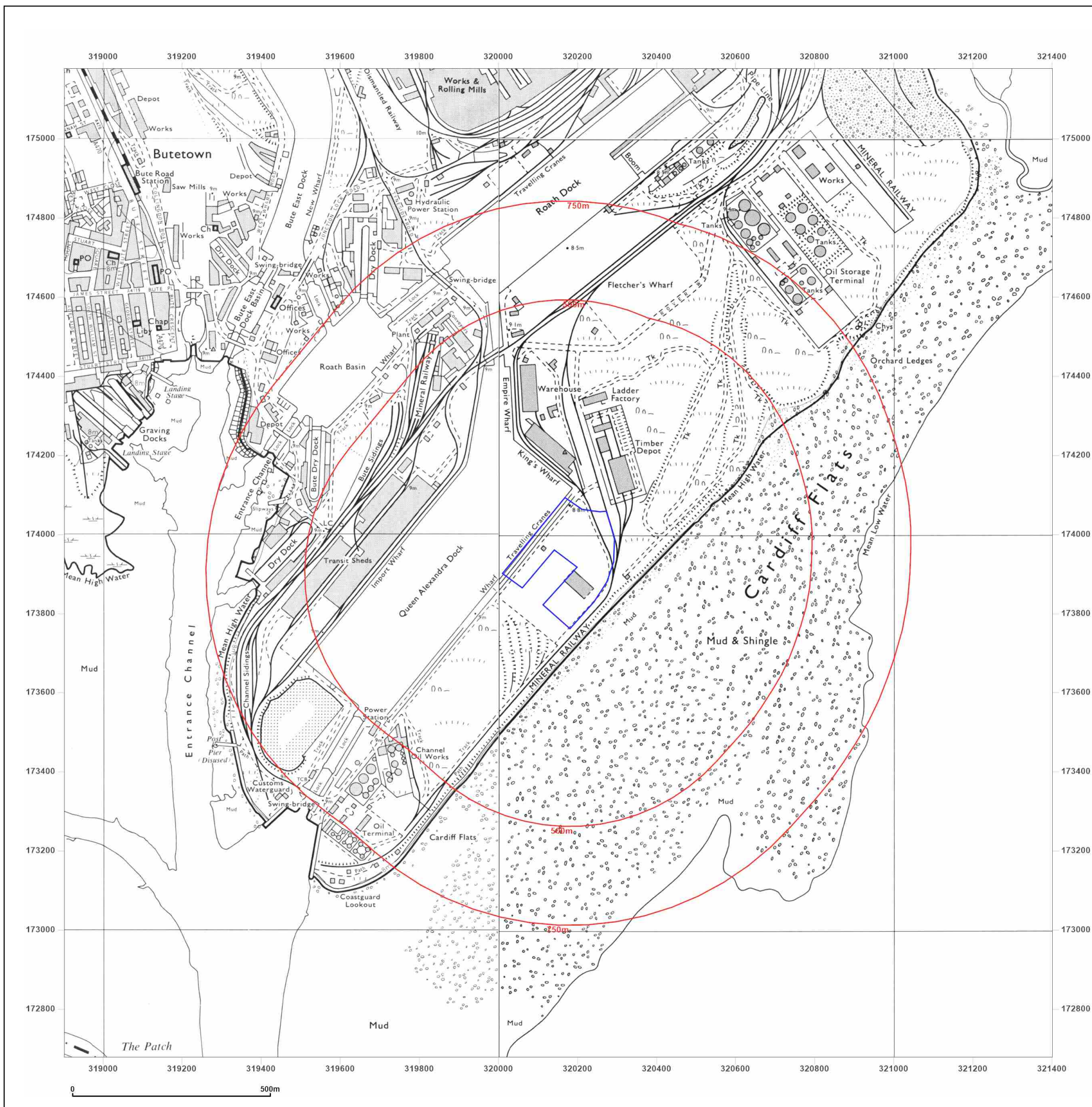


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**Site Details:**

CARDIFF BAY BARRAGE OPEN SPACE, HEOL Y LOCIAU, BUTETOWN, CAERDYDD, CF10 4LY

**Client Ref:** 18535  
**Report Ref:** GS-PW9-9GD-5A8-VS9  
**Grid Ref:** 320151, 173927

**Map Name:** National Grid

**Map date:** 1983-1987

**Scale:** 1:10,000

**Printed at:** 1:10,000



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 Revised 1984  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1983  
 Revised 1987  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1981  
 Revised 1983  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

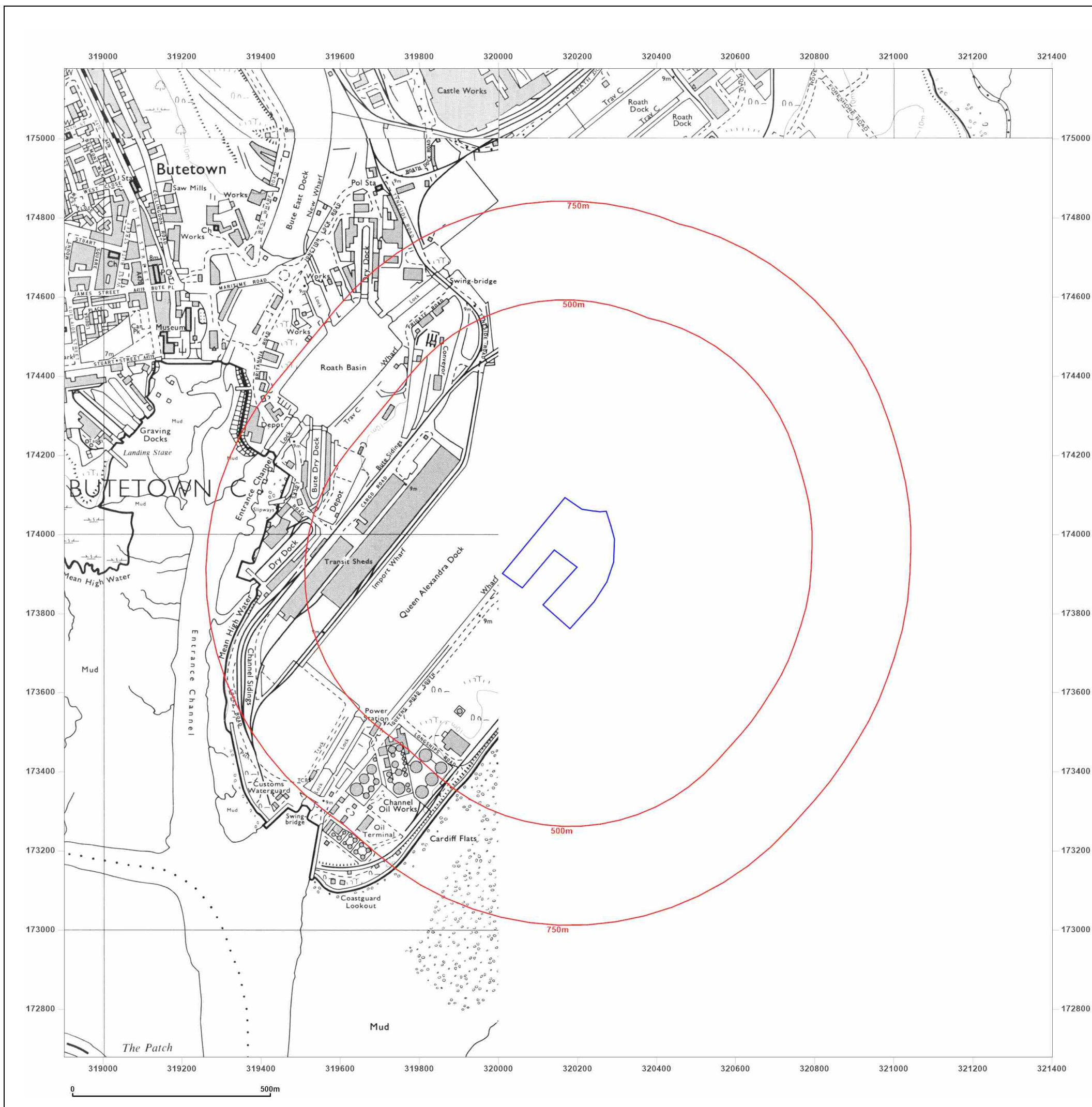


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**Site Details:**

CARDIFF BAY BARRAGE OPEN SPACE, HEOL Y LOCIAU, BUTETOWN, CAERDYDD, CF10 4LY

**Client Ref:** 18535  
**Report Ref:** GS-PW9-9GD-5A8-VS9  
**Grid Ref:** 320151, 173927

**Map Name:** National Grid

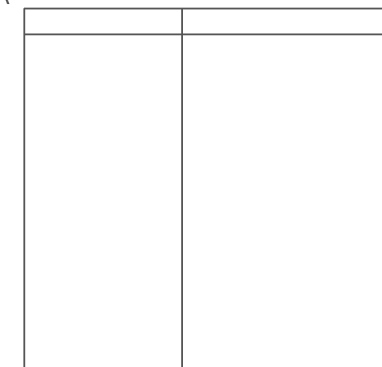
**Map date:** 1989-1992

**Scale:** 1:10,000

**Printed at:** 1:10,000



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 Edition N/A  
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Surveyed 1967  
 Revised 1992  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

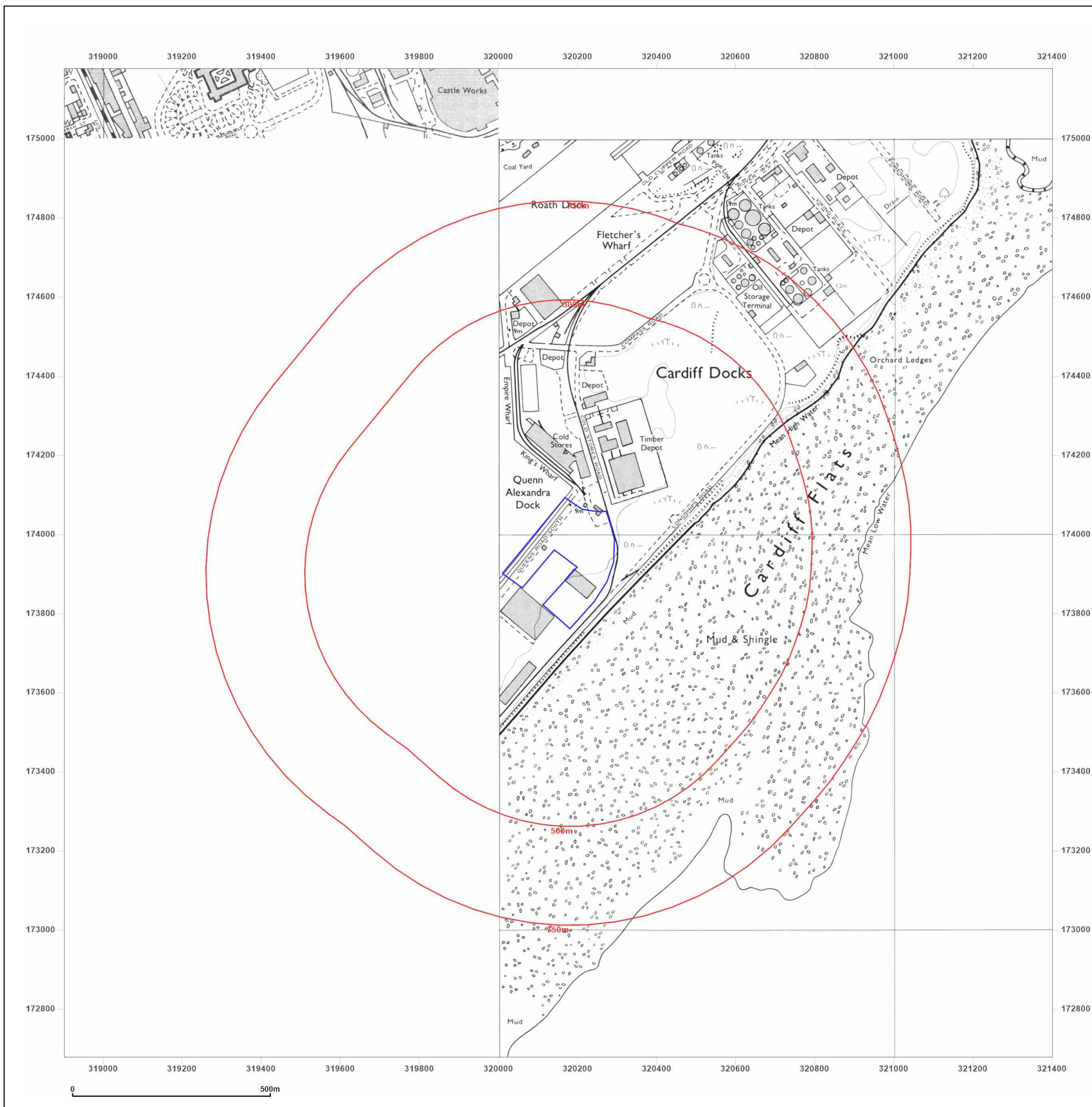


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**Site Details:**

CARDIFF BAY BARRAGE OPEN SPACE, HEOL Y LOCIAU, BUTETOWN, CAERDYDD, CF10 4LY

**Client Ref:** 18535  
**Report Ref:** GS-PW9-9GD-5A8-VS9  
**Grid Ref:** 320151, 173927

**Map Name:** National Grid

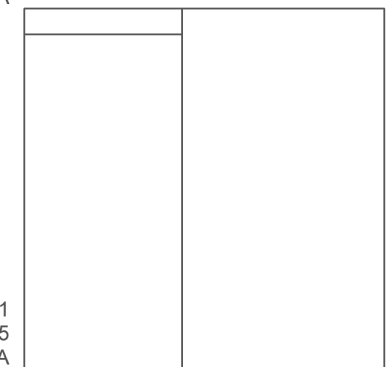
**Map date:** 1994-1995

**Scale:** 1:10,000

**Printed at:** 1:10,000



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

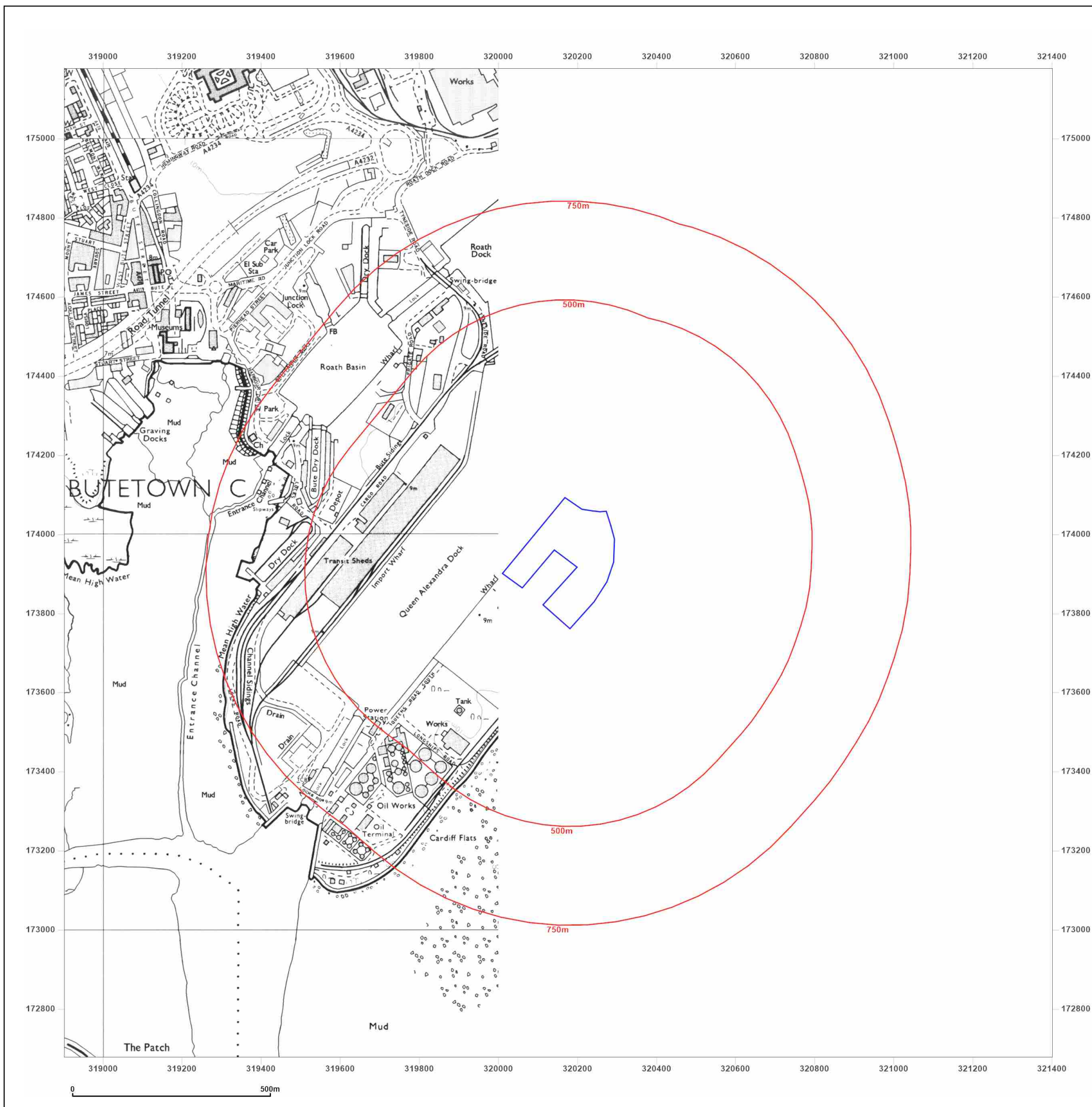


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**Site Details:**

CARDIFF BAY BARRAGE OPEN SPACE, HEOL Y LOCIAU, BUTETOWN, CAERDYDD, CF10 4LY

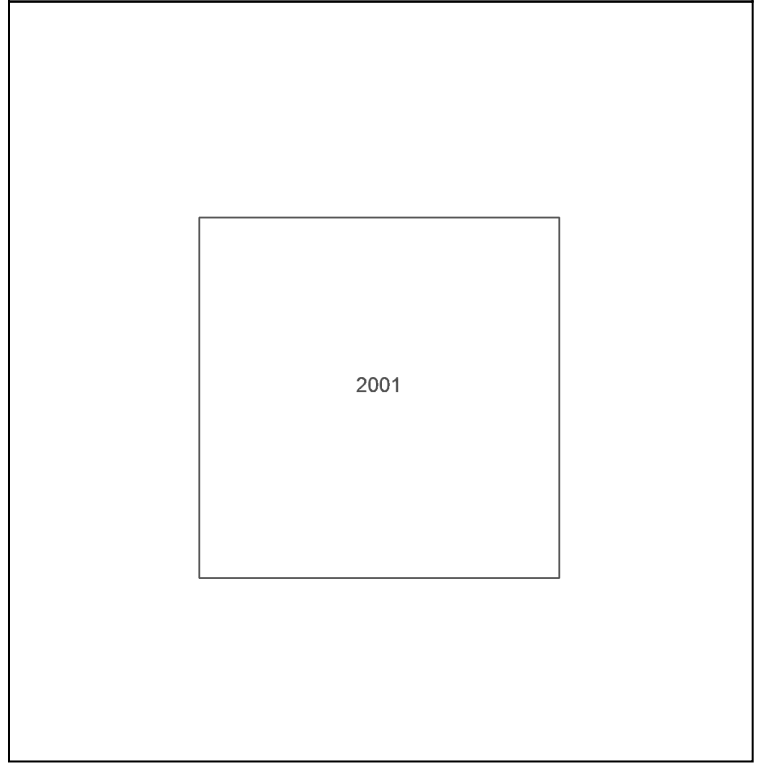
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**Grid Ref:** 320151, 173927

**Map Name:** National Grid

**Map date:** 2001

**Scale:** 1:10,000

**Printed at:** 1:10,000

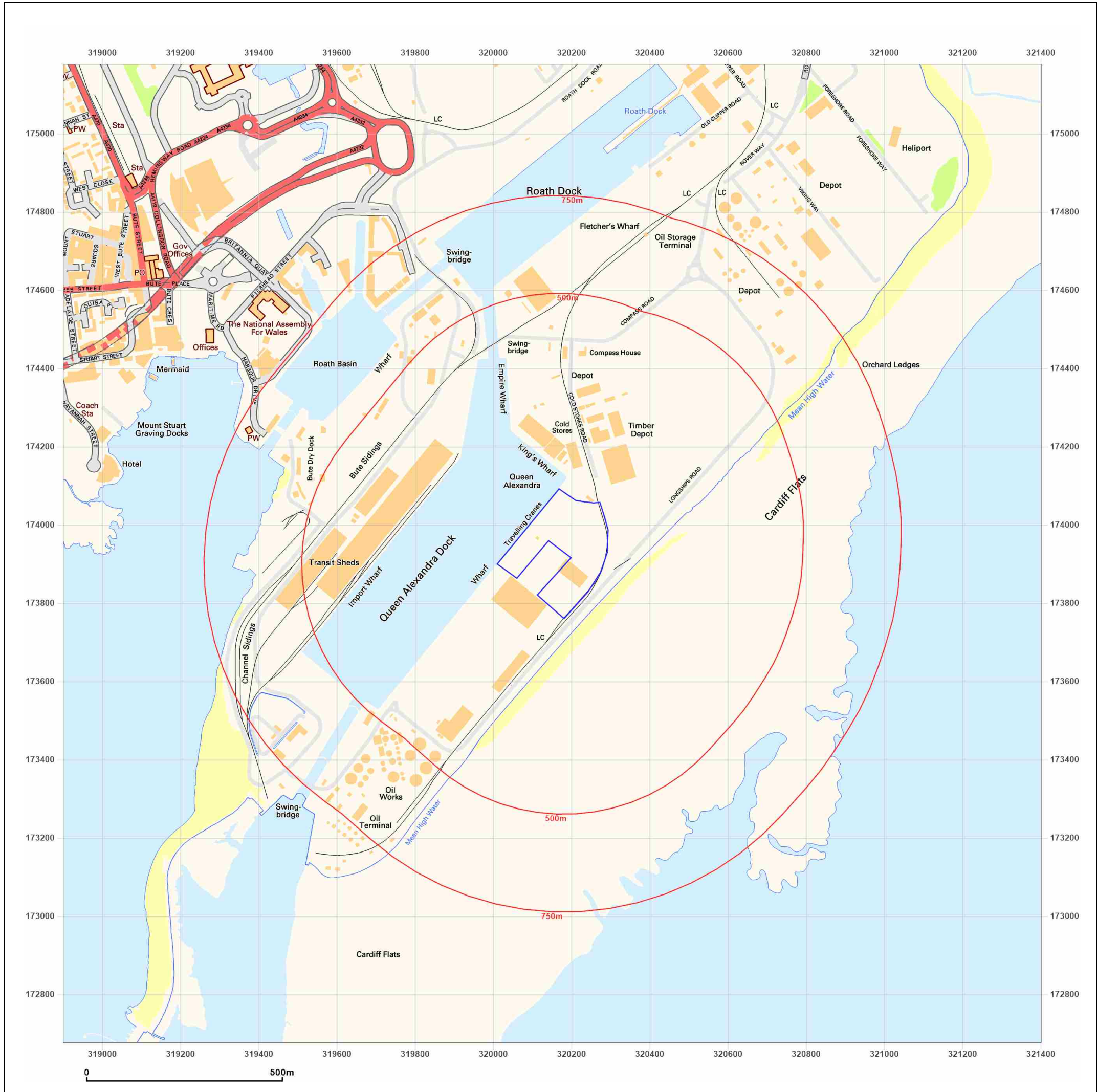


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**Site Details:**

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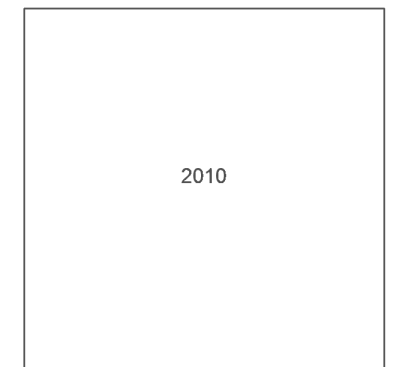
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**Grid Ref:** 320151, 173927

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000

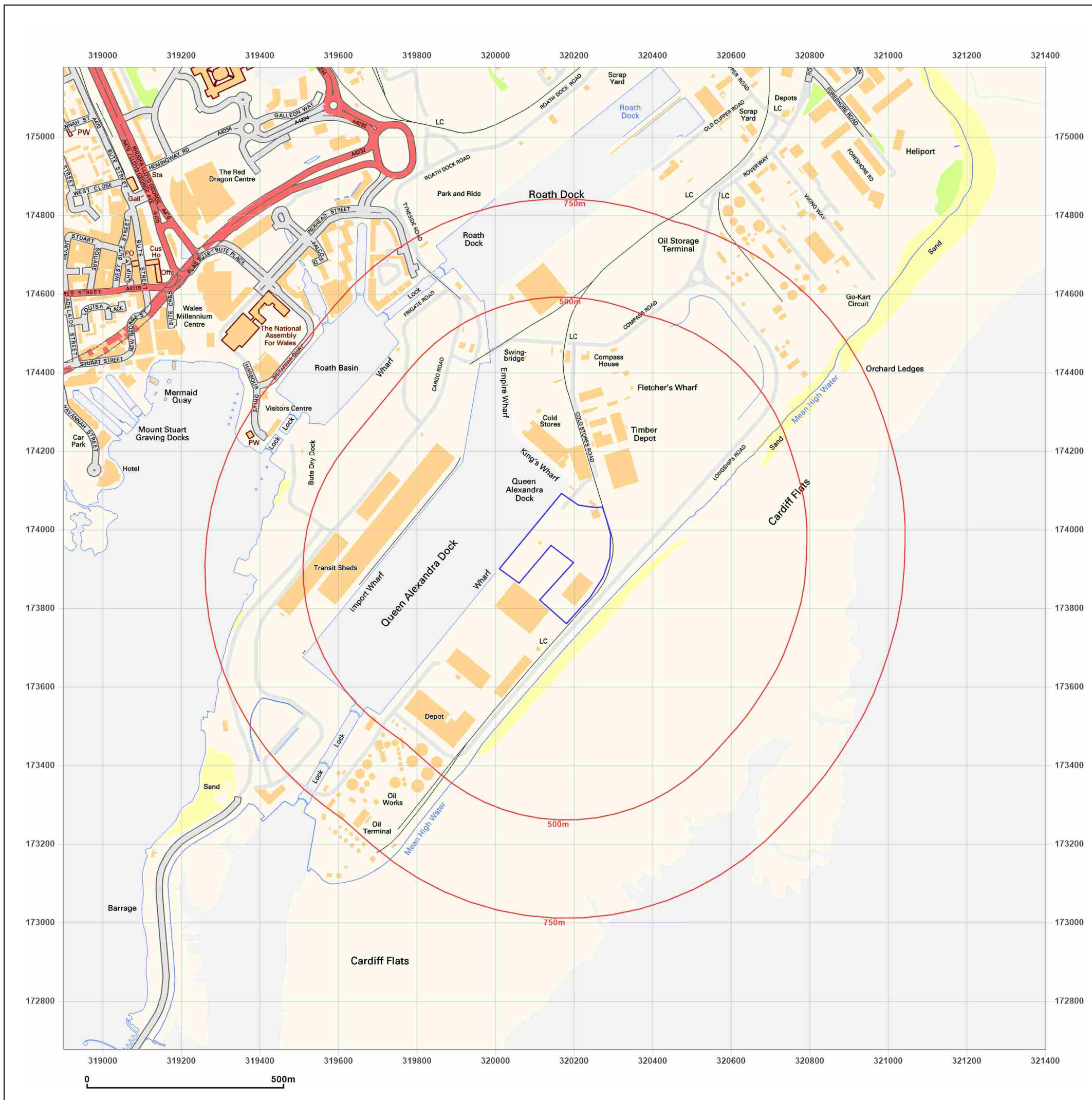


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**Site Details:**

CARDIFF BAY BARRAGE OPEN SPACE, HEOL Y LOCIAU, BUTETOWN, CAERDYDD, CF10 4LY

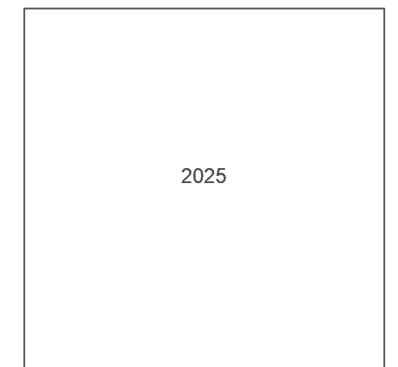
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**Report Ref:** GS-PW9-9GD-5A8-VS9  
**Grid Ref:** 320151, 173927

**Map Name:** National Grid

**Map date:** 2025

**Scale:** 1:10,000

**Printed at:** 1:10,000

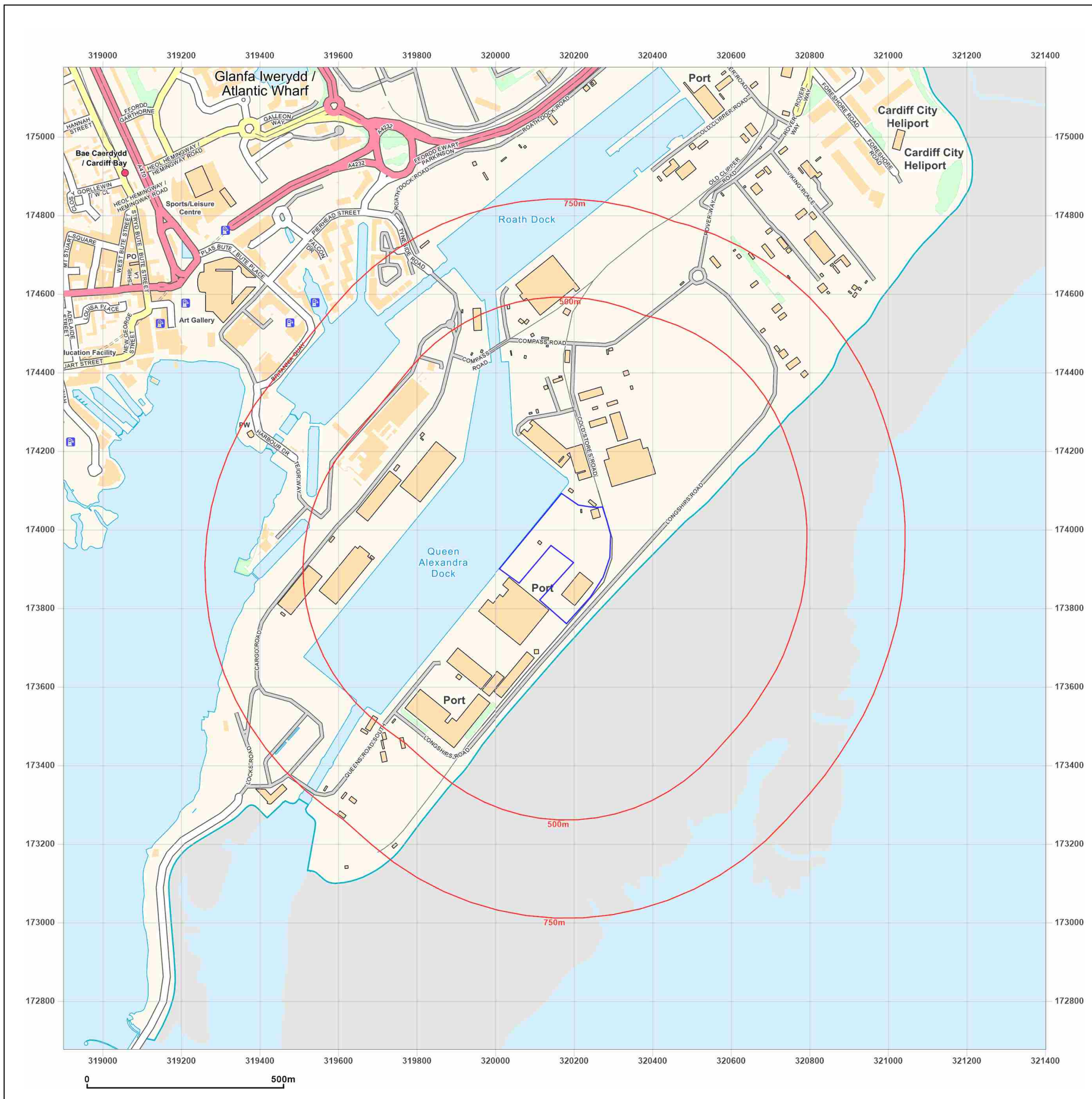


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CARDIFF BAY BARRAGE OPEN SPACE, HEOL Y LOCIAU, BUTETOWN, CAERDYDD, CF10 4LY

## Order Details

**Date:** 11/08/2025  
**Your ref:** 18535  
**Our Ref:** GS-Z85-VGT-4DY-RFV

## Site Details

**Location:** 320180 173939  
**Area:** 4.54 ha  
**Authority:** [Caerdydd - Cardiff Council](#) ↗



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[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#)

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01273 257 755

## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">15 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	14	10	29	78	-
<a href="#">20 &gt;</a>	<a href="#">1.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	1	0	12	40	-
<a href="#">23 &gt;</a>	<a href="#">1.3 &gt;</a>	<a href="#">Historical energy features &gt;</a>	2	0	7	15	-
24	1.4	Historical petrol stations	0	0	0	0	-
24	1.5	Historical garages	0	0	0	0	-
24	1.6	Historical military land	0	0	0	0	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">25 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	14	16	32	103	-
<a href="#">31 &gt;</a>	<a href="#">2.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	1	0	25	59	-
<a href="#">35 &gt;</a>	<a href="#">2.3 &gt;</a>	<a href="#">Historical energy features &gt;</a>	3	0	17	25	-
37	2.4	Historical petrol stations	0	0	0	0	-
37	2.5	Historical garages	0	0	0	0	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
38	3.1	Active or recent landfill	0	0	0	0	-
38	3.2	Historical landfill (BGS records)	0	0	0	0	-
<a href="#">39 &gt;</a>	<a href="#">3.3 &gt;</a>	<a href="#">Historical landfill (LA/mapping records) &gt;</a>	0	0	3	2	-
<a href="#">39 &gt;</a>	<a href="#">3.4 &gt;</a>	<a href="#">Historical landfill (EA/NRW records) &gt;</a>	0	0	3	2	-
<a href="#">40 &gt;</a>	<a href="#">3.5 &gt;</a>	<a href="#">Historical waste sites &gt;</a>	0	1	1	1	-
<a href="#">41 &gt;</a>	<a href="#">3.6 &gt;</a>	<a href="#">Licensed waste sites &gt;</a>	0	0	18	13	-
<a href="#">49 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	2	0	11	2	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">52 &gt;</a>	<a href="#">4.1 &gt;</a>	<a href="#">Recent industrial land uses &gt;</a>	3	2	10	-	-
54	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
54	4.3	Current or recent petrol stations	0	0	0	0	-
54	4.4	Electricity cables	0	0	0	0	-
54	4.5	Gas pipelines	0	0	0	0	-



54	4.6	Sites determined as Contaminated Land	0	0	0	0	-
<b>54 &gt;</b>	<b>4.7 &gt;</b>	<b><u>Control of Major Accident Hazards (COMAH) &gt;</u></b>	0	0	0	2	-
55	4.8	Regulated explosive sites	0	0	0	0	-
55	4.9	Hazardous substance storage/usage	0	0	0	0	-
55	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
<b>55 &gt;</b>	<b>4.11 &gt;</b>	<b><u>Licensed industrial activities (Part A(1)) &gt;</u></b>	0	0	0	3	-
<b>56 &gt;</b>	<b>4.12 &gt;</b>	<b><u>Licensed pollutant release (Part A(2)/B) &gt;</u></b>	0	1	1	3	-
57	4.13	Radioactive Substance Authorisations	0	0	0	0	-
<b>57 &gt;</b>	<b>4.14 &gt;</b>	<b><u>Licensed Discharges to controlled waters &gt;</u></b>	0	3	6	12	-
60	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
60	4.16	Pollutant release to public sewer	0	0	0	0	-
61	4.17	List 1 Dangerous Substances	0	0	0	0	-
61	4.18	List 2 Dangerous Substances	0	0	0	0	-
<b>61 &gt;</b>	<b>4.19 &gt;</b>	<b><u>Pollution Incidents (EA/NRW) &gt;</u></b>	0	0	0	1	-
61	4.20	Pollution inventory substances	0	0	0	0	-
62	4.21	Pollution inventory waste transfers	0	0	0	0	-
62	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<b><u>Hydrogeology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>63 &gt;</b>	<b>5.1 &gt;</b>	<b><u>Superficial aquifer &gt;</u></b>	Identified (within 500m)				
<b>65 &gt;</b>	<b>5.2 &gt;</b>	<b><u>Bedrock aquifer &gt;</u></b>	Identified (within 500m)				
<b>67 &gt;</b>	<b>5.3 &gt;</b>	<b><u>Groundwater vulnerability &gt;</u></b>	Identified (within 50m)				
69	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
69	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>70 &gt;</b>	<b>5.6 &gt;</b>	<b><u>Groundwater abstractions &gt;</u></b>	0	0	0	0	2
<b>71 &gt;</b>	<b>5.7 &gt;</b>	<b><u>Surface water abstractions &gt;</u></b>	0	0	0	0	7
73	5.8	Potable abstractions	0	0	0	0	0
73	5.9	Source Protection Zones	0	0	0	0	-
73	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<b><u>Hydrology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m

74 >	6.1 >	<a href="#">Water Network (OS MasterMap) &gt;</a>	0	0	1	-	-
75 >	6.2 >	<a href="#">Surface water features &gt;</a>	0	1	0	-	-
75 >	6.3 >	<a href="#">WFD Surface water body catchments &gt;</a>	1	-	-	-	-
75 >	6.4 >	<a href="#">WFD Surface water bodies &gt;</a>	0	0	1	-	-
76 >	6.5 >	<a href="#">WFD Groundwater bodies &gt;</a>	1	-	-	-	-
Page	Section	<a href="#">River and coastal flooding &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
77 >	7.1 >	<a href="#">Risk of flooding from rivers and the sea &gt;</a>	High (within 50m)				
78	7.2	Historical Flood Events	0	0	0	-	-
78	7.3	Flood Defences	0	0	0	-	-
78	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
78	7.5	Flood Storage Areas	0	0	0	-	-
79 >	7.6 >	<a href="#">Flood Zone 2 &gt;</a>	Identified (within 50m)				
80 >	7.7 >	<a href="#">Flood Zone 3 &gt;</a>	Identified (within 50m)				
Page	Section	<a href="#">Surface water flooding &gt;</a>					
81 >	8.1 >	<a href="#">Surface water flooding &gt;</a>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	<a href="#">Groundwater flooding &gt;</a>					
83 >	9.1 >	<a href="#">Groundwater flooding &gt;</a>	Low (within 50m)				
Page	Section	<a href="#">Environmental designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
84 >	10.1 >	<a href="#">Sites of Special Scientific Interest (SSSI) &gt;</a>	0	1	0	0	2
85 >	10.2 >	<a href="#">Conserved wetland sites (Ramsar sites) &gt;</a>	0	0	0	1	1
88 >	10.3 >	<a href="#">Special Areas of Conservation (SAC) &gt;</a>	0	1	0	0	0
88 >	10.4 >	<a href="#">Special Protection Areas (SPA) &gt;</a>	0	0	0	1	2
89	10.5	National Nature Reserves (NNR)	0	0	0	0	0
89 >	10.6 >	<a href="#">Local Nature Reserves (LNR) &gt;</a>	0	0	0	0	2
89	10.7	Designated Ancient Woodland	0	0	0	0	0
90	10.8	Biosphere Reserves	0	0	0	0	0
90	10.9	Forest Parks	0	0	0	0	0
90	10.10	Marine Conservation Zones	0	0	0	0	0
90	10.11	Green Belt	0	0	0	0	0



90	10.12	Proposed Ramsar sites	0	0	0	0	0
91	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
91	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
91	10.15	Nitrate Sensitive Areas	0	0	0	0	0
91	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<b>92 &gt;</b>	<b>10.17 &gt;</b>	<b><u>SSSI Impact Risk Zones</u> &gt;</b>	1	-	-	-	-
93	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
94	11.1	World Heritage Sites	0	0	0	-	-
94	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
94	11.3	National Parks	0	0	0	-	-
94	11.4	Listed Buildings	0	0	0	-	-
95	11.5	Conservation Areas	0	0	0	-	-
95	11.6	Scheduled Ancient Monuments	0	0	0	-	-
95	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<u>Agricultural designations</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<b>96 &gt;</b>	<b>12.1 &gt;</b>	<b><u>Agricultural Land Classification</u> &gt;</b>	Grade 4 (within 250m)				
97	12.2	Open Access Land	0	0	0	-	-
97	12.3	Tree Felling Licences	0	0	0	-	-
97	12.4	Environmental Stewardship Schemes	0	0	0	-	-
97	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
98	13.1	Priority Habitat Inventory	0	0	0	-	-
98	13.2	Habitat Networks	0	0	0	-	-
98	13.3	Open Mosaic Habitat	0	0	0	-	-
98	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<u>Geology 1:10,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<b>99 &gt;</b>	<b>14.1 &gt;</b>	<b><u>10k Availability</u> &gt;</b>	Identified (within 500m)				
100	14.2	Artificial and made ground (10k)	0	0	0	0	-



101	14.3	Superficial geology (10k)	0	0	0	0	-
101	14.4	Landslip (10k)	0	0	0	0	-
102	14.5	Bedrock geology (10k)	0	0	0	0	-
102	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	<a href="#">Geology 1:50,000 scale &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">103 &gt;</a>	<a href="#">15.1 &gt;</a>	<a href="#">50k Availability &gt;</a>	Identified (within 500m)				
<a href="#">104 &gt;</a>	<a href="#">15.2 &gt;</a>	<a href="#">Artificial and made ground (50k) &gt;</a>	1	0	1	0	-
<a href="#">105 &gt;</a>	<a href="#">15.3 &gt;</a>	<a href="#">Artificial ground permeability (50k) &gt;</a>	1	1	-	-	-
<a href="#">106 &gt;</a>	<a href="#">15.4 &gt;</a>	<a href="#">Superficial geology (50k) &gt;</a>	1	2	1	0	-
<a href="#">107 &gt;</a>	<a href="#">15.5 &gt;</a>	<a href="#">Superficial permeability (50k) &gt;</a>	Identified (within 50m)				
107	15.6	Landslip (50k)	0	0	0	0	-
107	15.7	Landslip permeability (50k)	None (within 50m)				
<a href="#">108 &gt;</a>	<a href="#">15.8 &gt;</a>	<a href="#">Bedrock geology (50k) &gt;</a>	1	0	0	0	-
<a href="#">109 &gt;</a>	<a href="#">15.9 &gt;</a>	<a href="#">Bedrock permeability (50k) &gt;</a>	Identified (within 50m)				
109	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	<a href="#">Boreholes &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">110 &gt;</a>	<a href="#">16.1 &gt;</a>	<a href="#">BGS Boreholes &gt;</a>	1	0	2	-	-
Page	Section	<a href="#">Natural ground subsidence &gt;</a>					
<a href="#">112 &gt;</a>	<a href="#">17.1 &gt;</a>	<a href="#">Shrink swell clays &gt;</a>	Very low (within 50m)				
<a href="#">113 &gt;</a>	<a href="#">17.2 &gt;</a>	<a href="#">Running sands &gt;</a>	Moderate (within 50m)				
<a href="#">115 &gt;</a>	<a href="#">17.3 &gt;</a>	<a href="#">Compressible deposits &gt;</a>	Moderate (within 50m)				
<a href="#">117 &gt;</a>	<a href="#">17.4 &gt;</a>	<a href="#">Collapsible deposits &gt;</a>	Negligible (within 50m)				
<a href="#">118 &gt;</a>	<a href="#">17.5 &gt;</a>	<a href="#">Landslides &gt;</a>	Low (within 50m)				
<a href="#">120 &gt;</a>	<a href="#">17.6 &gt;</a>	<a href="#">Ground dissolution of soluble rocks &gt;</a>	Negligible (within 50m)				
Page	Section	<a href="#">Mining and ground workings &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">122 &gt;</a>	<a href="#">18.1 &gt;</a>	<a href="#">BritPits &gt;</a>	0	0	1	3	-
<a href="#">123 &gt;</a>	<a href="#">18.2 &gt;</a>	<a href="#">Surface ground workings &gt;</a>	7	11	16	-	-
125	18.3	Underground workings	0	0	0	0	0
125	18.4	Underground mining extents	0	0	0	0	-



125	18.5	Historical Mineral Planning Areas	0	0	0	0	-
125	18.6	Non-coal mining	0	0	0	0	0
126	18.7	JPB mining areas	None (within 0m)				
126	18.8	The Coal Authority non-coal mining	0	0	0	0	-
126	18.9	Researched mining	0	0	0	0	-
126	18.10	Mining record office plans	0	0	0	0	-
127	18.11	BGS mine plans	0	0	0	0	-
127	18.12	Coal mining	None (within 0m)				
127	18.13	Brine areas	None (within 0m)				
127	18.14	Gypsum areas	None (within 0m)				
127	18.15	Tin mining	None (within 0m)				
128	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
129	19.1	Natural cavities	0	0	0	0	-
129	19.2	Mining cavities	0	0	0	0	0
129	19.3	Reported recent incidents	0	0	0	0	-
129	19.4	Historical incidents	0	0	0	0	-
Page	Section	<a href="#">Radon &gt;</a>					
<a href="#">131 &gt;</a>	<a href="#">20.1 &gt;</a>	<a href="#">Radon &gt;</a>	Less than 1% (within 0m)				
Page	Section	<a href="#">Soil chemistry &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">133 &gt;</a>	<a href="#">21.1 &gt;</a>	<a href="#">BGS Estimated Background Soil Chemistry &gt;</a>	2	7	-	-	-
<a href="#">133 &gt;</a>	<a href="#">21.2 &gt;</a>	<a href="#">BGS Estimated Urban Soil Chemistry &gt;</a>	11	9	-	-	-
134	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	<a href="#">Railway infrastructure and projects &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
135	22.1	Underground railways (London)	0	0	0	-	-
135	22.2	Underground railways (Non-London)	0	0	0	-	-
136	22.3	Railway tunnels	0	0	0	-	-
<a href="#">136 &gt;</a>	<a href="#">22.4 &gt;</a>	<a href="#">Historical railway and tunnel features &gt;</a>	13	16	38	-	-
138	22.5	Royal Mail tunnels	0	0	0	-	-



<a href="#">139</a> >	<a href="#">22.6</a> >	<a href="#">Historical railways</a> >	0	4	3	-	-
<a href="#">139</a> >	<a href="#">22.7</a> >	<a href="#">Railways</a> >	1	6	2	-	-
140	22.8	Crossrail 2	0	0	0	0	-
140	22.9	HS2	0	0	0	0	-

## Recent aerial photograph



Capture Date: 21/05/2023

Site Area: 4.54ha



## Recent site history - 2020 aerial photograph



Capture Date: 14/04/2020

Site Area: 4.54ha



## Recent site history - 2016 aerial photograph

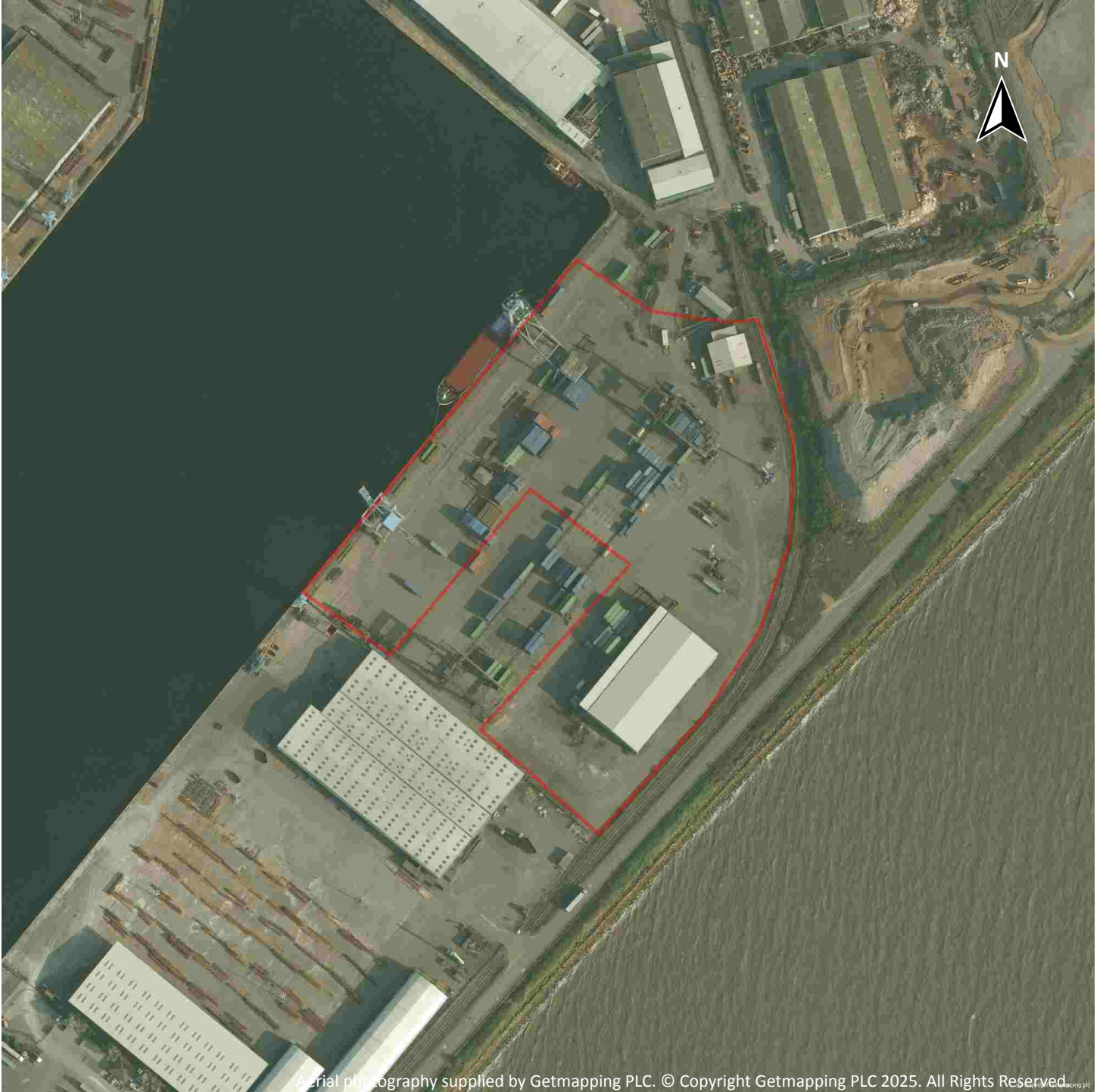


Capture Date: 19/07/2016

Site Area: 4.54ha



## Recent site history - 2009 aerial photograph



Capture Date: 18/09/2009

Site Area: 4.54ha



## Recent site history - 2000 aerial photograph



Capture Date: 21/07/2000

Site Area: 4.54ha



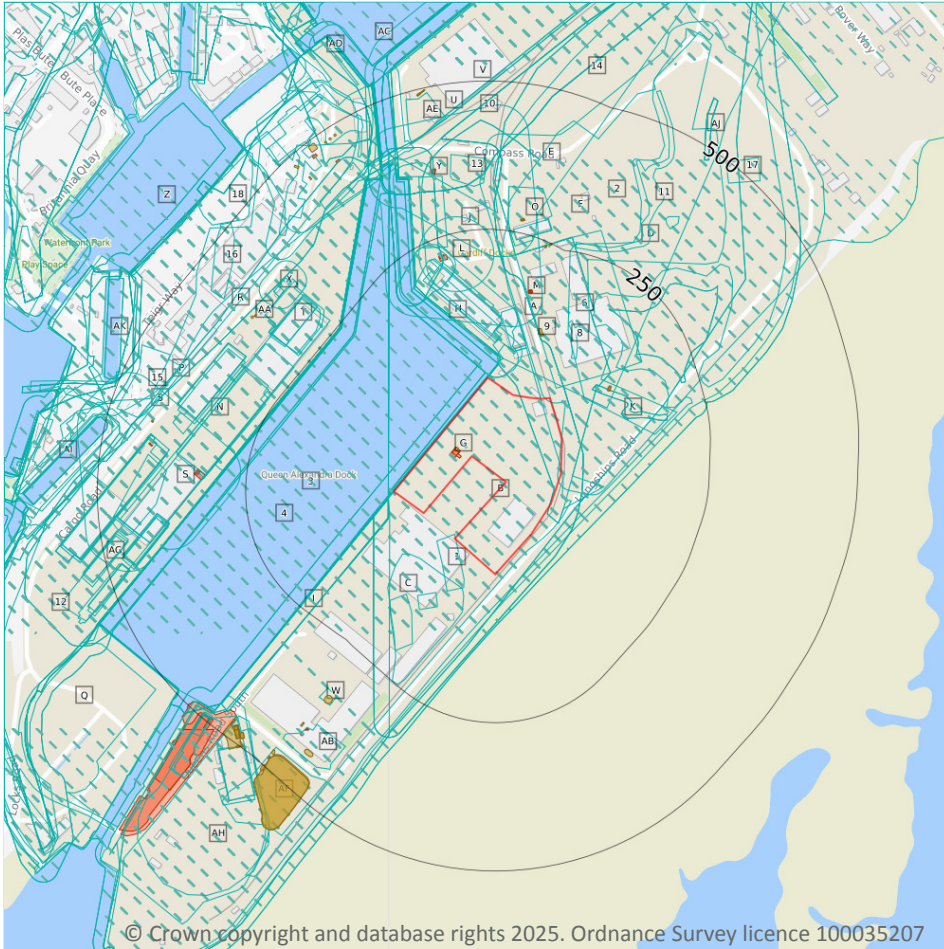
## OS MasterMap site plan



Site Area: 4.54ha



# 1 Past land use



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

## 1.1 Historical industrial land uses

**Records within 500m** **131**

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

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

ID	Location	Land use	Dates present	Group ID
1	On site	Cuttings	1963	1178172



ID	Location	Land use	Dates present	Group ID
<b>2</b>	<b>On site</b>	<b>Railway Sidings</b>	<b>1938 - 1948</b>	<b>1226216</b>
<b>A</b>	<b>On site</b>	<b>Mineral Railway Sidings</b>	<b>1970</b>	<b>1210025</b>
<b>A</b>	<b>On site</b>	<b>Railway Sidings</b>	<b>1992</b>	<b>1292281</b>
<b>B</b>	<b>On site</b>	<b>Dock</b>	<b>1992</b>	<b>1210497</b>
<b>B</b>	<b>On site</b>	<b>Dock</b>	<b>1992</b>	<b>1210498</b>
<b>B</b>	<b>On site</b>	<b>Dock</b>	<b>1995</b>	<b>1210499</b>
<b>C</b>	<b>On site</b>	<b>Dock</b>	<b>1938</b>	<b>1225014</b>
<b>D</b>	<b>On site</b>	<b>Dock</b>	<b>1992</b>	<b>1230999</b>
<b>E</b>	<b>On site</b>	<b>Docks</b>	<b>1922</b>	<b>1234367</b>
<b>E</b>	<b>On site</b>	<b>Docks</b>	<b>1915</b>	<b>1260547</b>
<b>E</b>	<b>On site</b>	<b>Railway Sidings</b>	<b>1915 - 1922</b>	<b>1276556</b>
<b>F</b>	<b>On site</b>	<b>Railway Sidings</b>	<b>1963</b>	<b>1247775</b>
<b>F</b>	<b>On site</b>	<b>Railway Sidings</b>	<b>1965</b>	<b>1262275</b>
<b>3</b>	<b>On site</b>	<b>Dock</b>	<b>1947</b>	<b>1285800</b>
H	5m NE	Unspecified Wharf	1992	1236648
H	5m NE	Unspecified Wharf	1963 - 1970	1216714
4	9m W	Dock	1974 - 1983	1289395
I	15m SW	Unspecified Wharf	1974 - 1983	1236547
I	15m SW	Unspecified Wharf	1995	1256151
5	16m SW	Dock	1965	1210482
6	20m NE	Timber Depot	1970 - 1992	1255660
7	27m NE	Timber Yard	1947	1210525
H	30m NE	Unspecified Commercial/Industrial	1970	1188345
C	55m SW	Unspecified Pits	1970	1207484
D	56m E	Unspecified Ground Workings	1915	1287376
H	61m N	Cold Stores	1992	1197061
J	62m NE	Timber Yard	1938	1270429
H	65m N	Cold Storage	1947 - 1963	1292566



ID	Location	Land use	Dates present	Group ID
K	73m E	Unspecified Ground Workings	1938	1238441
K	73m E	Unspecified Ground Workings	1938	1282713
8	76m NE	Unspecified Ground Workings	1963	1253073
C	89m SW	Cuttings	1963	1178265
J	90m N	Timber Yard	1915	1277217
C	124m SW	Cuttings	1963	1178171
L	152m N	Timber Yard	1922	1255605
J	169m NW	Unspecified Wharf	1963	1271117
J	169m NW	Unspecified Wharf	1970	1270817
J	169m NW	Unspecified Wharf	1992	1281332
10	204m N	Coal Washery	1915 - 1922	1290855
N	221m NW	Unspecified Wharf	1974 - 1995	1263050
N	221m NW	Unspecified Wharf	1965	1280426
O	227m N	Unspecified Depot	1992	1187770
J	231m N	Unspecified Warehouse	1963 - 1970	1269213
O	237m N	Ladder Factory	1970	1180927
N	242m NW	Railway Sidings	1947	1279721
P	242m NW	Unspecified Commercial/Industrial	1938 - 1947	1241640
Q	243m NW	Dock	1938	1288093
P	244m NW	Mineral Railway Sidings	1974	1210028
R	246m NW	Railway Sidings	1964	1210334
R	246m NW	Railway Sidings	1965	1210335
R	246m NW	Railway Sidings	1963	1210336
R	246m NW	Railway Sidings	1965	1210337
11	257m N	Unspecified Ground Workings	1938	1217897
P	260m W	Timber Yard	1915	1212895
N	261m NW	Transit Sheds	1947	1264229
S	263m NW	Transit Shed	1974	1233855



ID	Location	Land use	Dates present	Group ID
N	263m NW	Transit Shed	1965	1227350
N	265m NW	Transit Sheds	1983 - 1995	1274933
T	270m NW	Timber Shed	1947	1274545
T	274m NW	Timber Shed	1965	1260583
U	278m N	Railway Sidings	1889	1210477
12	289m W	Railway Sidings	1983 - 1995	1240282
T	297m NW	Timber Shed	1922	1222791
T	298m NW	Timber Shed	1915	1272130
13	323m N	Unspecified Depot	1992	1187769
V	323m N	Dock	1964	1210478
V	323m N	Dock	1965	1210479
V	323m N	Dock	1963	1210480
V	323m N	Dock	1963	1210481
W	331m SW	Unspecified Tank	1983 - 1995	1244721
N	332m NW	Transit Sheds	1947	1269114
X	334m NW	Sawmill	1915	1251423
N	337m NW	Transit Shed	1965	1177949
N	337m NW	Transit Sheds	1974 - 1995	1280957
D	350m NE	Unspecified Heap	1963	1199951
14	356m N	Coal Washery	1938	1235012
X	358m NW	Sawmill	1922	1249202
Z	368m NW	Tramway Sidings	1879	1207988
Z	368m NW	Docks	1879	1210500
U	378m NW	Fuel Works	1889 - 1915	1229858
Q	382m W	Transit Shed	1938	1249652
P	383m W	Transit Sheds	1947	1253040
Q	384m W	Transit Shed	1915	1233931
AB	385m SW	Unspecified Works	1995	1195641



ID	Location	Land use	Dates present	Group ID
P	385m W	Timber Yard	1922	1257967
P	385m W	Transit Sheds	1983 - 1995	1266446
Q	386m W	Unspecified Shed	1922	1177814
U	387m NW	Fuel Works	1922 - 1938	1234258
P	387m W	Transit Shed	1965	1212775
P	387m W	Transit Shed	1974	1249655
U	393m NW	Railway Sidings	1995	1255720
V	393m N	Dock	1970	1217808
AC	411m NW	Dock	1947	1277518
AD	411m NW	Dock	1995	1257068
AD	411m NW	Dock	1992	1259838
U	414m NW	Unspecified Works	1965	1195643
AC	415m N	Dock	1938 - 1947	1240060
15	416m NW	Unspecified Depot	1983 - 1995	1278909
AE	417m N	Unspecified Depot	1992	1187768
16	428m NW	Cuttings	1965	1178168
AF	450m SW	Unspecified Tanks	1983 - 1995	1237124
AG	455m W	Unspecified Warehouse	1938	1253564
AG	456m W	Unspecified Warehouse	1915	1246429
AH	457m SW	Oil Works	1974 - 1995	1281820
AG	460m W	Unspecified Warehouse	1922	1251769
AH	462m SW	Oil Works	1965	1257042
AF	463m SW	Unspecified Commercial/Industrial	1947	1188346
AG	465m W	Cold Storage	1938	1211981
AG	465m W	Unspecified Warehouse	1947 - 1965	1241618
AG	465m W	Cold Storage	1915 - 1922	1283170
17	471m NE	Cuttings	1970	1178169
AI	473m W	Dry Dock	1974 - 1995	1237858



ID	Location	Land use	Dates present	Group ID
AI	477m W	Dry Dock	1965	1240876
AJ	479m NE	Unspecified Ground Workings	1992	1212611
AJ	479m NE	Unspecified Ground Workings	1970	1217465
AJ	479m NE	Unspecified Ground Workings	1963	1219076
18	485m NW	Unspecified Wharf	1983 - 1995	1262741
AI	485m W	Railway Sidings	1983 - 1995	1270009
AK	485m NW	Dry Dock	1965	1254480
AK	485m NW	Dry Dock	1974 - 1995	1282261
AF	486m SW	Unspecified Commercial/Industrial	1947	1188363
AK	487m NW	Dry Dock	1938	1250097
AK	487m NW	Dry Dock	1938	1274493
AF	487m SW	Power Station	1974 - 1995	1244263
AF	491m SW	Hydraulic Power Station	1915 - 1922	1269024
AI	495m W	Dry Dock	1915	1264244
AF	495m SW	Unspecified Tanks	1965	1223748
AI	495m W	Dry Dock	1889	1223246
AI	495m W	Dry Dock	1947	1239260
AF	496m SW	Unspecified Tanks	1974 - 1995	1287052

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

**Records within 500m**

**53**

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

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



ID	Location	Land use	Dates present	Group ID
<b>G</b>	<b>On site</b>	<b>Unspecified Tank</b>	<b>1967</b>	<b>182730</b>
K	96m E	Unspecified Tank	1953 - 1954	191868
K	98m E	Unspecified Tank	1942	201000
9	105m N	Unspecified Tank	1968 - 1994	188160
O	239m NE	Tanks	1988 - 1994	198367
O	247m NE	Tanks	1994	189182
O	247m NE	Tanks	1993	191193
O	247m NE	Tanks	1993	194204
O	247m NE	Tanks	1990	187035
O	247m NE	Tanks	1988	189232
O	248m NE	Unspecified Tank	1968	193137
O	248m NE	Unspecified Tank	1979	195289
O	248m NE	Unspecified Tank	1968	188813
O	270m N	Unspecified Tank	1988 - 1990	186478
O	270m N	Unspecified Tank	1988	201733
O	270m N	Unspecified Tank	1993 - 1994	196953
W	337m SW	Unspecified Tank	1979 - 1992	189935
AA	369m NW	Unspecified Tank	1954	193960
AA	369m NW	Unspecified Tank	1953	186476
AA	369m NW	Unspecified Tank	1953 - 1954	195804
AB	401m SW	Unspecified Tank	1979 - 1992	201805
P	418m W	Unspecified Tank	1979	194560
P	418m W	Unspecified Tank	1992	189559
P	422m W	Unspecified Tank	1953 - 1969	202395
P	423m W	Unspecified Tank	1941	194501
AB	430m SW	Tanks	1979	178058
U	447m NW	Unspecified Tank	1969	182719
AF	466m SW	Tanks	1979 - 1989	193977



ID	Location	Land use	Dates present	Group ID
AF	468m SW	Tanks	1995	178057
AF	468m SW	Tanks	1995	189092
AF	469m SW	Tanks	1942	189812
AF	473m SW	Tanks	1979	190425
AF	474m SW	Tanks	1954	195753
AF	474m SW	Tanks	1952	194286
AF	474m SW	Tanks	1970 - 1979	196923
AF	475m SW	Tanks	1992	185856
U	476m NW	Unspecified Tank	1953 - 1954	194368
AF	478m SW	Tanks	1952	195915
AF	478m SW	Tanks	1970	197176
AF	478m SW	Tanks	1986 - 1989	192530
AF	479m SW	Tanks	1952	201366
AF	479m SW	Tanks	1970	202909
U	480m NW	Unspecified Tank	1969	182722
U	481m NW	Unspecified Tank	1969	182721
AF	481m SW	Tanks	1995	178056
U	481m NW	Unspecified Tank	1969	182728
U	481m NW	Tanks	1969	177410
AE	489m N	Tanks	1968	187456
AE	490m N	Tanks	1979	198978
AE	494m N	Tanks	1968	196332
AE	495m N	Tanks	1968	197013
AF	496m SW	Unspecified Tank	1979 - 1995	192030
AF	498m SW	Tanks	1986 - 1995	186996

*This data is sourced from Ordnance Survey / Groundsure.*



### 1.3 Historical energy features

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

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

ID	Location	Land use	Dates present	Group ID
<b>G</b>	<b>On site</b>	<b>Electricity Substation</b>	<b>1993</b>	<b>109082</b>
<b>G</b>	<b>On site</b>	<b>Electricity Substation</b>	<b>1979 - 1988</b>	<b>109348</b>
M	159m NE	Electricity Substation	1990	114878
M	159m NE	Electricity Substation	1988	117481
M	159m NE	Electricity Substation	1993 - 1994	118240
M	160m NE	Electricity Substation	1968	117545
M	160m NE	Electricity Substation	1979	116218
L	211m N	Electricity Substation	1979 - 1994	117377
L	215m N	Electricity Substation	1968	114408
S	319m W	Electricity Substation	1979 - 1992	113483
S	328m W	Electricity Substation	1970	120551
Y	353m N	Electricity Substation	1993 - 1994	113993
Y	355m N	Electricity Substation	1979 - 1990	118972
AB	404m SW	Electricity Substation	1979	121115
AB	406m SW	Electricity Substation	1992	112257
P	414m W	Electricity Substation	1970	107244
AB	416m SW	Electricity Substation	1979 - 1995	112687
U	442m NW	Electricity Substation	1969	107239
AF	459m SW	Hydraulic Power Station	1920	112001
U	471m NW	Electricity Substation	1969	107238
AF	491m SW	Hydraulic Power Station	1979	119049



ID	Location	Land use	Dates present	Group ID
AF	491m SW	Hydraulic Power Station	1970 - 1979	120363
AF	491m SW	Electricity Substation	1970 - 1979	109192
AF	493m SW	Hydraulic Power Station	1992 - 1995	123793

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.4 Historical petrol stations

**Records within 500m**

**0**

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

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.5 Historical garages

**Records within 500m**

**0**

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

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

**Records within 500m**

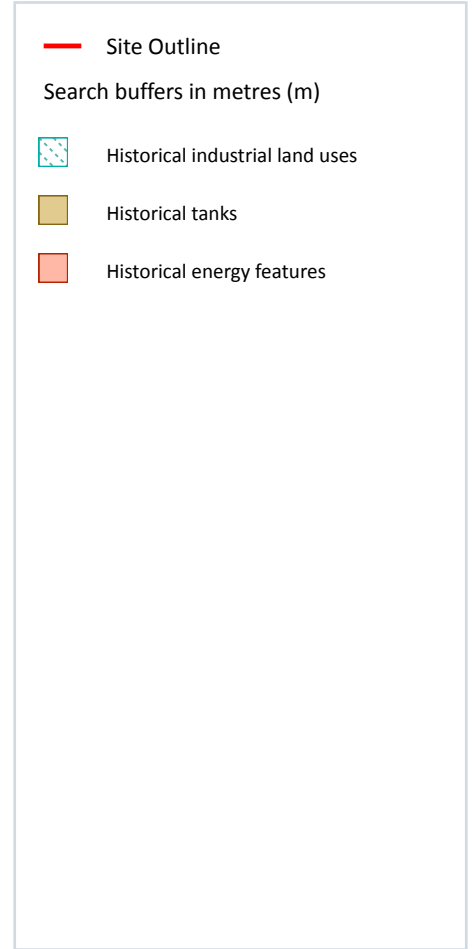
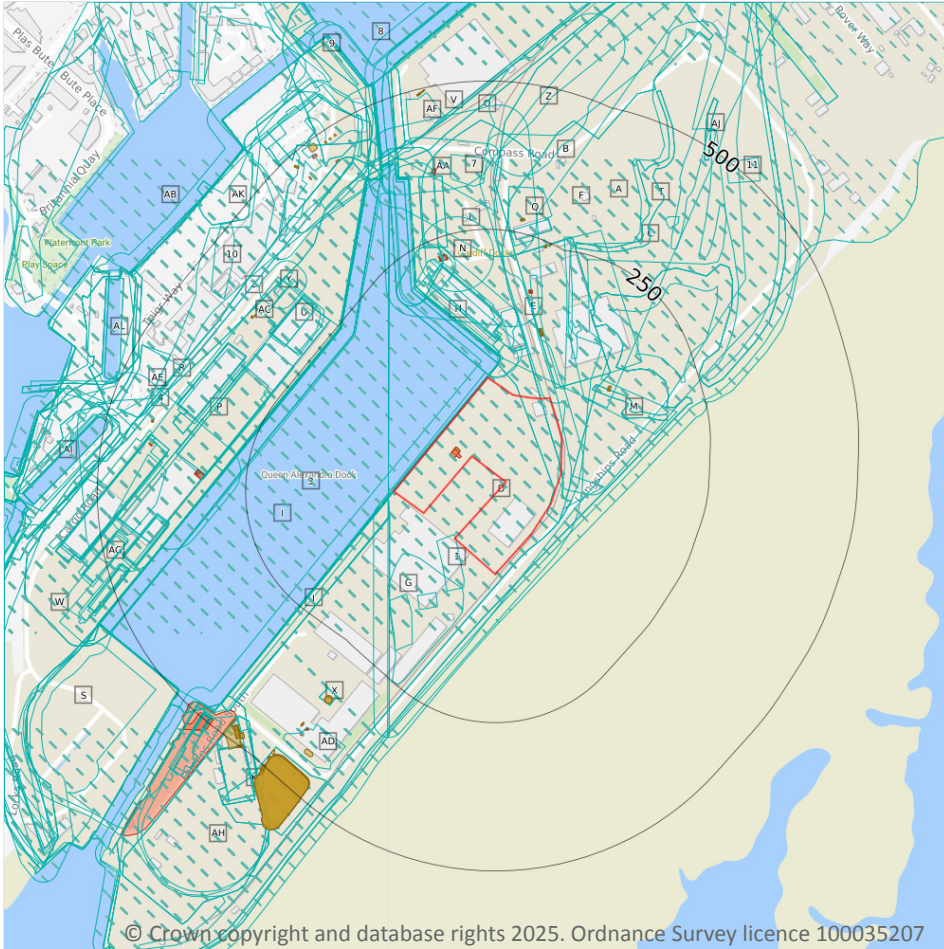
**0**

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

*This data is sourced from Ordnance Survey / Groundsure / other sources.*



## 2 Past land use - un-grouped



### 2.1 Historical industrial land uses

**Records within 500m** **165**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Cuttings	1963	1178172
2	On site	Railway Sidings	1938	1226216
A	On site	Railway Sidings	1947	1226216

ID	Location	Land Use	Date	Group ID
B	On site	Railway Sidings	1915	1276556
B	On site	Railway Sidings	1922	1276556
B	On site	Docks	1922	1234367
B	On site	Docks	1915	1260547
C	On site	Dock	1992	1230999
D	On site	Dock	1992	1210497
E	On site	Railway Sidings	1992	1292281
E	On site	Mineral Railway Sidings	1970	1210025
F	On site	Railway Sidings	1963	1247775
G	On site	Dock	1938	1225014
G	On site	Dock	1938	1225014
3	On site	Dock	1947	1285800
H	5m NE	Unspecified Wharf	1992	1236648
H	5m NE	Unspecified Wharf	1970	1216714
I	9m W	Dock	1974	1289395
I	9m W	Dock	1983	1289395
I	9m W	Dock	1995	1210499
J	15m SW	Unspecified Wharf	1974	1236547
J	15m SW	Unspecified Wharf	1983	1236547
J	15m SW	Unspecified Wharf	1995	1256151
4	16m SW	Dock	1965	1210482
A	20m NE	Timber Depot	1992	1255660
A	20m NE	Timber Depot	1970	1255660
5	27m NE	Timber Yard	1947	1210525
H	30m NE	Unspecified Commercial/Industrial	1970	1188345
K	40m SW	Railway Sidings	1965	1262275
H	40m NE	Unspecified Wharf	1963	1216714
G	55m SW	Unspecified Pits	1970	1207484



ID	Location	Land Use	Date	Group ID
C	56m E	Unspecified Ground Workings	1915	1287376
H	61m N	Cold Stores	1992	1197061
L	62m NE	Timber Yard	1938	1270429
H	65m N	Cold Storage	1963	1292566
H	68m N	Cold Storage	1947	1292566
M	73m E	Unspecified Ground Workings	1938	1282713
M	73m E	Unspecified Ground Workings	1938	1238441
A	76m NE	Unspecified Ground Workings	1963	1253073
G	89m SW	Cuttings	1963	1178265
L	90m N	Timber Yard	1915	1277217
G	124m SW	Cuttings	1963	1178171
N	152m N	Timber Yard	1922	1255605
L	169m NW	Unspecified Wharf	1963	1271117
L	169m NW	Unspecified Wharf	1992	1281332
L	169m NW	Unspecified Wharf	1970	1270817
O	204m N	Coal Washery	1922	1290855
P	221m NW	Unspecified Wharf	1974	1263050
P	221m NW	Unspecified Wharf	1983	1263050
P	221m NW	Unspecified Wharf	1995	1263050
P	221m NW	Unspecified Wharf	1965	1280426
Q	227m N	Unspecified Depot	1992	1187770
L	231m N	Unspecified Warehouse	1970	1269213
L	231m N	Unspecified Warehouse	1963	1269213
Q	237m N	Ladder Factory	1970	1180927
P	242m NW	Railway Sidings	1947	1279721
R	242m NW	Unspecified Commercial/Industrial	1947	1241640
R	243m NW	Unspecified Commercial/Industrial	1938	1241640
S	243m NW	Dock	1938	1288093



ID	Location	Land Use	Date	Group ID
S	243m NW	Dock	1938	1288093
R	244m NW	Mineral Railway Sidings	1974	1210028
6	246m NW	Railway Sidings	1965	1210335
T	257m N	Unspecified Ground Workings	1938	1217897
T	257m N	Unspecified Ground Workings	1938	1217897
R	260m W	Timber Yard	1915	1212895
P	261m NW	Transit Sheds	1947	1264229
R	263m NW	Transit Shed	1974	1233855
P	263m NW	Transit Shed	1965	1227350
P	265m NW	Transit Sheds	1983	1274933
P	265m NW	Transit Sheds	1995	1274933
U	270m NW	Timber Shed	1947	1274545
U	274m NW	Timber Shed	1965	1260583
V	278m N	Railway Sidings	1889	1210477
W	289m W	Railway Sidings	1983	1240282
W	290m W	Railway Sidings	1995	1240282
U	297m NW	Timber Shed	1922	1222791
U	298m NW	Timber Shed	1915	1272130
7	323m N	Unspecified Depot	1992	1187769
O	323m N	Dock	1963	1210481
X	331m SW	Unspecified Tank	1983	1244721
X	331m SW	Unspecified Tank	1995	1244721
P	332m NW	Transit Sheds	1947	1269114
Y	334m NW	Sawmill	1915	1251423
P	337m NW	Transit Shed	1965	1177949
P	337m NW	Transit Sheds	1974	1280957
P	337m NW	Transit Sheds	1983	1280957
P	337m NW	Transit Sheds	1995	1280957



ID	Location	Land Use	Date	Group ID
Z	344m N	Coal Washery	1915	1290855
C	350m NE	Unspecified Heap	1963	1199951
Z	356m N	Coal Washery	1938	1235012
Y	358m NW	Sawmill	1922	1249202
AB	368m NW	Tramway Sidings	1879	1207988
AB	368m NW	Docks	1879	1210500
V	378m NW	Fuel Works	1915	1229858
S	382m W	Transit Shed	1938	1249652
R	383m W	Transit Sheds	1947	1253040
S	384m W	Transit Shed	1915	1233931
AD	385m SW	Unspecified Works	1995	1195641
R	385m W	Timber Yard	1922	1257967
R	385m W	Transit Sheds	1995	1266446
R	385m W	Transit Sheds	1983	1266446
S	386m W	Unspecified Shed	1922	1177814
V	387m NW	Fuel Works	1922	1234258
R	387m W	Transit Shed	1974	1249655
R	387m W	Transit Shed	1965	1212775
V	393m NW	Railway Sidings	1995	1255720
O	393m N	Dock	1992	1210498
O	393m N	Dock	1970	1217808
8	411m NW	Dock	1947	1277518
9	411m NW	Dock	1995	1257068
V	414m NW	Fuel Works	1938	1234258
V	414m NW	Unspecified Works	1965	1195643
O	415m N	Dock	1938	1240060
O	415m N	Dock	1938	1240060
AE	416m NW	Unspecified Depot	1995	1278909



ID	Location	Land Use	Date	Group ID
AF	417m N	Unspecified Depot	1992	1187768
10	428m NW	Cuttings	1965	1178168
AE	439m NW	Unspecified Depot	1983	1278909
V	448m NW	Fuel Works	1889	1229858
K	450m SW	Unspecified Tanks	1983	1237124
K	450m SW	Unspecified Tanks	1995	1237124
AG	455m W	Unspecified Warehouse	1938	1253564
AG	456m W	Unspecified Warehouse	1915	1246429
AH	457m SW	Oil Works	1974	1281820
AH	457m SW	Oil Works	1983	1281820
AH	457m SW	Oil Works	1995	1281820
AG	460m W	Unspecified Warehouse	1922	1251769
AH	462m SW	Oil Works	1965	1257042
K	463m SW	Unspecified Commercial/Industrial	1947	1188346
AG	465m W	Cold Storage	1938	1211981
AG	465m W	Cold Storage	1915	1283170
AG	465m W	Unspecified Warehouse	1947	1241618
AG	470m W	Unspecified Warehouse	1965	1241618
AG	471m W	Cold Storage	1922	1283170
11	471m NE	Cuttings	1970	1178169
AI	473m W	Dry Dock	1974	1237858
AI	473m W	Dry Dock	1983	1237858
AI	473m W	Dry Dock	1995	1237858
AI	477m W	Dry Dock	1965	1240876
AJ	479m NE	Unspecified Ground Workings	1992	1212611
AJ	479m NE	Unspecified Ground Workings	1970	1217465
AJ	479m NE	Unspecified Ground Workings	1963	1219076
AK	485m NW	Unspecified Wharf	1983	1262741



ID	Location	Land Use	Date	Group ID
AK	485m NW	Unspecified Wharf	1995	1262741
AI	485m W	Railway Sidings	1983	1270009
AI	485m W	Railway Sidings	1995	1270009
AL	485m NW	Dry Dock	1974	1282261
AL	485m NW	Dry Dock	1983	1282261
AL	485m NW	Dry Dock	1995	1282261
AL	485m NW	Dry Dock	1965	1254480
K	486m SW	Unspecified Commercial/Industrial	1947	1188363
AL	487m NW	Dry Dock	1938	1274493
AL	487m NW	Dry Dock	1938	1250097
K	487m SW	Power Station	1974	1244263
K	487m SW	Power Station	1983	1244263
K	487m SW	Power Station	1995	1244263
K	491m SW	Hydraulic Power Station	1915	1269024
AI	495m W	Dry Dock	1915	1264244
K	495m SW	Unspecified Tanks	1965	1223748
AI	495m W	Dry Dock	1947	1239260
AI	495m W	Dry Dock	1889	1223246
K	496m SW	Unspecified Tanks	1974	1287052
K	496m SW	Unspecified Tanks	1983	1287052
K	496m SW	Unspecified Tanks	1995	1287052
K	498m SW	Hydraulic Power Station	1922	1269024

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

**Records within 500m**

**85**

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



Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
<b>D</b>	<b>On site</b>	<b>Unspecified Tank</b>	<b>1967</b>	<b>182730</b>
M	96m E	Unspecified Tank	1954	191868
M	97m E	Unspecified Tank	1953	191868
M	98m E	Unspecified Tank	1942	201000
A	105m N	Unspecified Tank	1994	188160
A	105m N	Unspecified Tank	1993	188160
A	105m N	Unspecified Tank	1993	188160
A	105m N	Unspecified Tank	1968	188160
A	106m N	Unspecified Tank	1979	188160
A	106m N	Unspecified Tank	1988	188160
A	106m N	Unspecified Tank	1990	188160
A	106m N	Unspecified Tank	1988	188160
A	106m N	Unspecified Tank	1968	188160
Q	239m NE	Tanks	1994	198367
Q	239m NE	Tanks	1993	198367
Q	239m NE	Tanks	1993	198367
Q	239m NE	Tanks	1988	198367
Q	239m NE	Tanks	1990	198367
Q	247m NE	Tanks	1994	189182
Q	247m NE	Tanks	1993	194204
Q	247m NE	Tanks	1993	191193
Q	247m NE	Tanks	1988	189232
Q	247m NE	Tanks	1990	187035
Q	248m NE	Unspecified Tank	1968	193137
Q	248m NE	Unspecified Tank	1979	195289
Q	248m NE	Unspecified Tank	1968	188813
Q	270m N	Unspecified Tank	1988	186478



ID	Location	Land Use	Date	Group ID
Q	270m N	Unspecified Tank	1990	186478
Q	270m N	Unspecified Tank	1988	201733
Q	270m N	Unspecified Tank	1994	196953
Q	270m N	Unspecified Tank	1993	196953
Q	270m N	Unspecified Tank	1993	196953
X	337m SW	Unspecified Tank	1979	189935
X	339m SW	Unspecified Tank	1992	189935
AC	369m NW	Unspecified Tank	1954	193960
AC	369m NW	Unspecified Tank	1953	186476
AC	369m NW	Unspecified Tank	1954	195804
AC	369m NW	Unspecified Tank	1953	195804
AD	401m SW	Unspecified Tank	1979	201805
AD	403m SW	Unspecified Tank	1992	201805
R	418m W	Unspecified Tank	1979	194560
R	418m W	Unspecified Tank	1992	189559
R	422m W	Unspecified Tank	1954	202395
R	422m W	Unspecified Tank	1969	202395
R	422m W	Unspecified Tank	1953	202395
R	423m W	Unspecified Tank	1941	194501
AD	430m SW	Tanks	1979	178058
V	447m NW	Unspecified Tank	1969	182719
K	466m SW	Tanks	1979	193977
K	466m SW	Tanks	1986	193977
K	466m SW	Tanks	1989	193977
K	468m SW	Tanks	1995	178057
K	468m SW	Tanks	1995	189092
K	469m SW	Tanks	1942	189812
K	473m SW	Tanks	1979	190425



ID	Location	Land Use	Date	Group ID
K	474m SW	Tanks	1954	195753
K	474m SW	Tanks	1952	194286
K	474m SW	Tanks	1970	196923
K	475m SW	Tanks	1992	185856
V	476m NW	Unspecified Tank	1953	194368
V	476m NW	Unspecified Tank	1954	194368
K	478m SW	Tanks	1952	195915
K	478m SW	Tanks	1970	197176
K	478m SW	Tanks	1979	196923
K	478m SW	Tanks	1986	192530
K	478m SW	Tanks	1989	192530
K	479m SW	Tanks	1952	201366
K	479m SW	Tanks	1970	202909
V	480m NW	Unspecified Tank	1969	182722
V	481m NW	Unspecified Tank	1969	182721
K	481m SW	Tanks	1995	178056
V	481m NW	Unspecified Tank	1969	182728
V	481m NW	Tanks	1969	177410
AF	489m N	Tanks	1968	187456
AF	489m N	Tanks	1968	187456
AF	490m N	Tanks	1979	198978
AF	494m N	Tanks	1968	196332
AF	495m N	Tanks	1968	197013
K	496m SW	Unspecified Tank	1979	192030
K	496m SW	Unspecified Tank	1986	192030
K	496m SW	Unspecified Tank	1989	192030
K	497m SW	Unspecified Tank	1995	192030
K	498m SW	Tanks	1986	186996



ID	Location	Land Use	Date	Group ID
K	498m SW	Tanks	1989	186996
K	498m SW	Tanks	1995	186996

This data is sourced from Ordnance Survey / Groundsure.

## 2.3 Historical energy features

<b>Records within 500m</b>	<b>45</b>
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
<b>D</b>	<b>On site</b>	<b>Electricity Substation</b>	<b>1979</b>	<b>109348</b>
<b>D</b>	<b>On site</b>	<b>Electricity Substation</b>	<b>1988</b>	<b>109348</b>
<b>D</b>	<b>On site</b>	<b>Electricity Substation</b>	<b>1993</b>	<b>109082</b>
F	159m NE	Electricity Substation	1988	117481
F	159m NE	Electricity Substation	1990	114878
F	159m NE	Electricity Substation	1994	118240
F	159m NE	Electricity Substation	1993	118240
F	159m NE	Electricity Substation	1993	118240
F	160m NE	Electricity Substation	1968	117545
F	160m NE	Electricity Substation	1968	117545
F	160m NE	Electricity Substation	1979	116218
N	211m N	Electricity Substation	1994	117377
N	211m N	Electricity Substation	1993	117377
N	211m N	Electricity Substation	1993	117377
N	212m N	Electricity Substation	1979	117377
N	212m N	Electricity Substation	1988	117377
N	212m N	Electricity Substation	1990	117377
N	212m N	Electricity Substation	1988	117377



ID	Location	Land Use	Date	Group ID
N	215m N	Electricity Substation	1968	114408
N	216m N	Electricity Substation	1968	114408
R	319m W	Electricity Substation	1979	113483
R	319m W	Electricity Substation	1992	113483
R	328m W	Electricity Substation	1970	120551
AA	353m N	Electricity Substation	1994	113993
AA	353m N	Electricity Substation	1993	113993
AA	353m N	Electricity Substation	1993	113993
AA	355m N	Electricity Substation	1979	118972
AA	355m N	Electricity Substation	1988	118972
AA	355m N	Electricity Substation	1990	118972
AA	355m N	Electricity Substation	1988	118972
AD	404m SW	Electricity Substation	1979	121115
AD	406m SW	Electricity Substation	1992	112257
R	414m W	Electricity Substation	1970	107244
AD	416m SW	Electricity Substation	1979	112687
AD	416m SW	Electricity Substation	1986	112687
AD	416m SW	Electricity Substation	1989	112687
AD	417m SW	Electricity Substation	1995	112687
V	442m NW	Electricity Substation	1969	107239
K	459m SW	Hydraulic Power Station	1920	112001
V	471m NW	Electricity Substation	1969	107238
K	491m SW	Hydraulic Power Station	1979	119049
K	491m SW	Hydraulic Power Station	1970	120363
K	491m SW	Electricity Substation	1979	109192
K	493m SW	Hydraulic Power Station	1992	123793
K	495m SW	Electricity Substation	1970	109192

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.4 Historical petrol stations

Records within 500m

0

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

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

Records within 500m

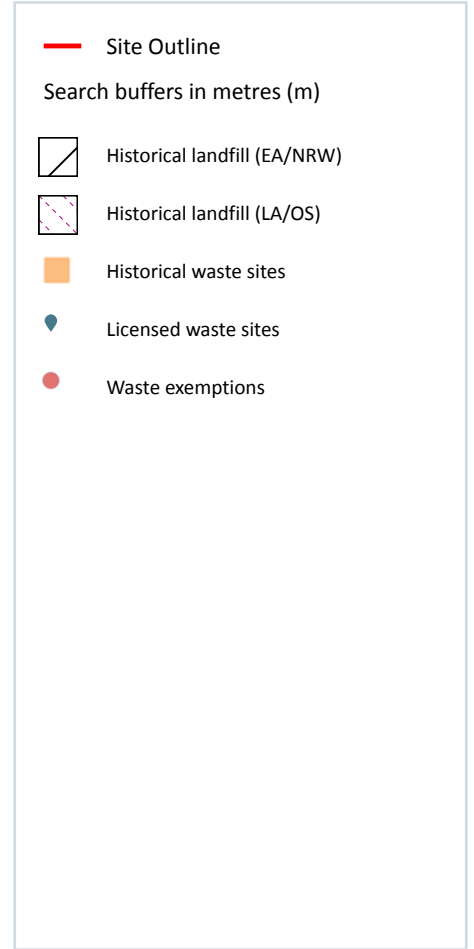
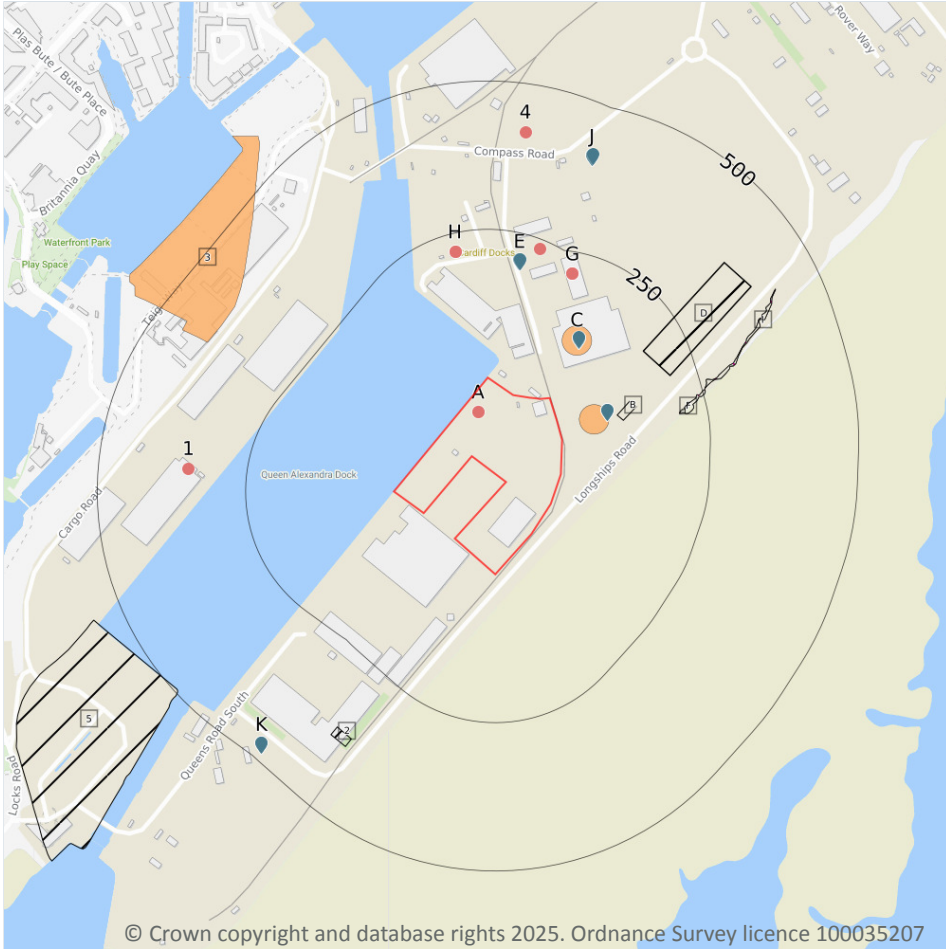
0

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

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



### 3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

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

### 3.2 Historical landfill (BGS records)

Records within 500m

0

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

*This data is sourced from the British Geological Survey.*

### 3.3 Historical landfill (LA/mapping records)

Records within 500m

5

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

Features are displayed on the Waste and landfill map on [page 38](#) >

ID	Location	Site address	Source	Data type
F	203m E	Refuse Tip	1967 mapping	Polygon
F	203m E	Refuse Tip	1967 mapping	Polygon
F	212m E	Refuse Tip	1967 mapping	Polygon
I	255m E	Refuse Tip	1967 mapping	Polygon
I	255m E	Refuse Tip	1967 mapping	Polygon

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

### 3.4 Historical landfill (EA/NRW records)

Records within 500m

5

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

Features are displayed on the Waste and landfill map on [page 38](#) >

ID	Location	Details		
B	101m E	Site Address: South Side Queen Alexandra Dock, Longships Road, Queen Alexandra Dock Licence Holder Address: -	Waste Licence: Yes Site Reference: 93/06 Waste Type: Industrial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/07/1994 Licence Surrender: 10/06/1997	Operator: - Licence Holder: Associated British Ports First Recorded 01/08/1993 Last Recorded: 31/08/1994
D	176m NE	Site Address: South Side Queen Alexandra Dock, Longships Road, Queen Alexandra Dock Licence Holder Address: -	Waste Licence: Yes Site Reference: 93/06 Waste Type: Industrial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/07/1994 Licence Surrender: 10/06/1997	Operator: - Licence Holder: Associated British Ports First Recorded 01/08/1993 Last Recorded: 31/08/1994



ID	Location	Details		
D	177m NE	Site Address: South Side Queen Alexandra Dock, Longships Road, Queen Alexandra Dock Licence Holder Address: -	Waste Licence: Yes Site Reference: 93/06 Waste Type: Industrial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/07/1994 Licence Surrender: 10/06/1997	Operator: - Licence Holder: Associated British Ports First Recorded 01/08/1993 Last Recorded: 31/08/1994
2	369m SW	Site Address: Portland Chemicals Limited, Longships Road, Cardiff Licence Holder Address: South Quay, Queen Alexandra Docks, Cardiff	Waste Licence: Yes Site Reference: 07/78 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 30/10/1978 Licence Surrender: -	Operator: - Licence Holder: Portland Chemicals Limited First Recorded 31/12/1972 Last Recorded: 31/12/1981
5	495m SW	Site Address: Queen Alexandra Dock, West Pond, Cardiff, South Glamorgan Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: British Gas Corporation - Wales Region Licence Holder: - First Recorded 31/12/1900 Last Recorded: 30/11/1972

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

### 3.5 Historical waste sites

**Records within 500m**

**3**

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

Features are displayed on the Waste and landfill map on [page 38 >](#)

ID	Location	Address	Further Details	Date
B	36m E	Site Address: Longships Road, Cardiff Docks, CARDIFF, South Glamorgan, CF10 4RP	Type of Site: Waste Transfer Station Planning application reference: 00/1187R Description: Scheme comprises use of land for the recycling of bricks, tiles and concrete waste to produce concrete fill. Scheme includes a portable office building of 30 sqm, weighbridge and crushing plant. An application for detailed planning permission (Ref:00/1187R) was submitted to Cardiff C.C. on Wednesday, 31st May 2000. Data source: Historic Planning Application Data Type: Point	-



ID	Location	Address	Further Details	Date
C	82m NE	Site Address: Waste Transfer Station, Cold Stores Road, Queen Alexandra Dock, CARDIFF, South Glamorgan, CF10 4LU	Type of Site: Waste Transfer Station (Conversion) Planning application reference: 04/2929C Description: Scheme comprises extension of waste transfer station by the conversion of a building of 210 sqm. An application (ref: 04/2929C) for Detailed Planning permission was submitted to Cardiff C.C. on 1st December 2004. Data source: Historic Planning Application Data Type: Point	-
3	402m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979

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

### 3.6 Licensed waste sites

<b>Records within 500m</b>	<b>31</b>
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 38 >](#)

ID	Location	Details		
B	85m E	Site Name: - Site Address: Longships Road, Cardiff Docks, Cardiff, S Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: UP3396EK EPR reference: - Operator: - Waste Management licence No: 100740 Annual Tonnage: 74999	Issue Date: 01/06/2009 Effective Date: 01/06/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
B	85m E	Site Name: Longships Road Site Address: Land / Premises At, Longships Road, Cardiff Docks, Cardiff, S Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NEA068 EPR reference: EA/EPR/UP3396EK/A001 Operator: Neal Soil Suppliers Ltd Waste Management licence No: 100740 Annual Tonnage: 74999	Issue Date: 01/06/2009 Effective Date: 20/07/2011 Modified: 09/12/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
B	85m E	Site Name: Longships Road Site Address: Land / Premises At, Longships Road, Cardiff Docks, Cardiff, Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CUD005 EPR reference: EA/EPR/DP3394LA/V002 Operator: Cuddihy Mike Waste Management licence No: 100740 Annual Tonnage: 74999	Issue Date: 01/06/2009 Effective Date: - Modified: 09/12/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	85m E	Site Name: - Site Address: Longships Road, Cardiff Docks, Cardiff, Cardiff, CF10 4LU Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: UP3396EK EPR reference: - Operator: Neal Soil Suppliers Ltd Waste Management licence No: 0 Annual Tonnage: 74999	Issue Date: 01/06/2009 Effective Date: 01/06/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	85m E	Site Name: - Site Address: Longships Road, Cardiff Docks, S Glamorgan, Cardiff, Cardiff, CF10 4LU Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: UP3396EK EPR reference: - Operator: Neal Soil Suppliers Ltd Waste Management licence No: 100740 Annual Tonnage: 74999	Issue Date: 01/06/2009 Effective Date: 01/06/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	85m E	Site Name: - Site Address: Longships Road, Cardiff Docks, Cardiff, S Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: UP3396EK EPR reference: - Operator: Neal Soil Suppliers Ltd Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 01/06/2009 Effective Date: 01/06/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	85m E	Site Name: - Site Address: Longships Road, Cardiff Docks, Cardiff, S Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: UP3396EK EPR reference: - Operator: Neal Soil Suppliers Ltd Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 01/06/2009 Effective Date: 01/06/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	86m E	Site Name: Longships Road Site Address: Land / Premises At, Longships Road, Cardiff Docks, Cardiff, S Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: NEA068 EPR reference: UP3396EK/A001 Operator: Neal Soil Suppliers Ltd Waste Management licence No: 100740 Annual Tonnage: 0	Issue Date: 01/06/2009 Effective Date: 20/07/2011 Modified: 09/12/2010 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Transferred
C	108m NE	Site Name: Cardiff Recycling Ltd Site Address: Cold Stores Road, Queen Alexander Dock, Cardiff, South Glamorgan, CF10 4LU Correspondence Address: Cold Stores Road, Queen Alexander Dock, Cardiff, Glamorgan, CF10 4LU	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAR099 EPR reference: - Operator: Cardiff Recycling Ltd Waste Management licence No: 100278 Annual Tonnage: 24999	Issue Date: 30/05/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
C	108m NE	Site Name: - Site Address: Cardiff Recycling Ltd, Queen Alexander Dock, Cardiff, Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3998EV EPR reference: - Operator: - Waste Management licence No: 100278 Annual Tonnage: 24999	Issue Date: 30/05/2008 Effective Date: 30/05/2008 Modified: - Surrendered Date: - Expiry Date: 01/02/2012 Cancelled Date: - Status: Expired
C	108m NE	Site Name: - Site Address: Cardiff Recycling Ltd, Queen Alexander Dock, Glamorgan, Cardiff, Cardiff, CF10 4LU Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3998EV EPR reference: - Operator: Cardiff Recycling Ltd (liquidation 16 March 2010) Waste Management licence No: 100278 Annual Tonnage: 24999	Issue Date: 30/05/2008 Effective Date: 30/05/2008 Modified: - Surrendered Date: - Expiry Date: 01/02/2012 Cancelled Date: - Status: Expired
C	108m NE	Site Name: - Site Address: Cardiff Recycling Ltd, Queen Alexander Dock, Cardiff, Cardiff, CF10 4LU Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3998EV EPR reference: - Operator: Cardiff Recycling Ltd (liquidation 16 March 2010) Waste Management licence No: 0 Annual Tonnage: 24999	Issue Date: 30/05/2008 Effective Date: 30/05/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
C	108m NE	Site Name: - Site Address: Cardiff Recycling Ltd, Queen Alexander Dock, Cardiff, Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: MP3998EV EPR reference: - Operator: Cardiff Recycling Ltd (liquidation 16 March 2010) Waste Management licence No: - Annual Tonnage: 24999	Issue Date: 30/05/2008 Effective Date: 30/05/2008 Modified: - Surrendered Date: - Expiry Date: 01/02/2012 Cancelled Date: - Status: Expired



ID	Location	Details		
C	108m NE	Site Name: - Site Address: Cardiff Recycling Ltd, Queen Alexander Dock, Cardiff, Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: MP3998EV EPR reference: - Operator: Cardiff Recycling Ltd (liquidation 16 March 2010) Waste Management licence No: - Annual Tonnage: 24999	Issue Date: 30/05/2008 Effective Date: 30/05/2008 Modified: - Surrendered Date: - Expiry Date: 01/02/2012 Cancelled Date: - Status: Expired
C	110m NE	Site Name: Cardiff Recycling Ltd Site Address: Land/ Premises At, Cold Stores Road, Queen Alexander Dock, Cardiff, Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAR099 EPR reference: MP3998EV/A001 Operator: Cardiff Recycling Ltd (liquidation 16 March 2010) Waste Management licence No: 100278 Annual Tonnage: 24999	Issue Date: 30/05/2008 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued
E	202m N	Site Name: Cardiff Recycling Ltd Site Address: Cold Stores Road, Queen Alexandra Dock, Cardiff, Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAR021 EPR reference: EA/EPR/FP3795FP/S002 Operator: Cardiff Recycling Ltd Waste Management licence No: 30301 Annual Tonnage: 0	Issue Date: 07/06/2004 Effective Date: - Modified: - Surrendered Date: 30/05/2008 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
E	203m N	Site Name: Cardiff Recycling Ltd Site Address: Cold Stores Road, Queen Alexandra Dock, Cardiff, CF10 4LU Correspondence Address: Cardiff Recycling Ltd, Cold Stores Road, Queen Alexandra Dock, Cardiff, CF10 4LU	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAR021 EPR reference: - Operator: Cardiff Recycling Ltd Waste Management licence No: 30301 Annual Tonnage: 0	Issue Date: 07/06/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	203m N	Site Name: Cardiff Recycling Ltd Site Address: Cold Stores Road, Queen Alexandra Dock, Cardiff, Glamorgan, CF10 4LU Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: CAR021 EPR reference: FP3795FP/S002 Operator: Cardiff Recycling Ltd Waste Management licence No: 30301 Annual Tonnage: 0	Issue Date: 07/06/2004 Effective Date: - Modified: - Surrendered Date: 2.00805e+016 Expiry Date: 0 Cancelled Date: 0 Status: Surrendered
J	411m NE	Site Name: - Site Address: U R A Cardiff Docks Site, Compass Road, Cardiff Docks, Cardiff, CF10 4LL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PB3230RV EPR reference: - Operator: - Waste Management licence No: 400169 Annual Tonnage: 75000	Issue Date: 30/05/2013 Effective Date: 30/05/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
J	411m NE	Site Name: U R A Cardiff Docks Site Site Address: U R A Cardiff Docks Site, Compass Road, Cardiff Docks, Cardiff, CF10 4LL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UNI568 EPR reference: EA/EPR/PB3230RV/A001 Operator: United Recycled Aggregates Limited Waste Management licence No: 400169 Annual Tonnage: 75000	Issue Date: 30/05/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
J	411m NE	Site Name: - Site Address: U R A Cardiff Docks Site, Compass Road, Cardiff Docks, Cardiff, Cardiff, CF10 4LL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PB3230RV EPR reference: - Operator: United Recycled Aggregates Limited Waste Management licence No: 0 Annual Tonnage: 75000	Issue Date: 30/05/2013 Effective Date: 30/05/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
J	411m NE	Site Name: - Site Address: U R A Cardiff Docks Site, Compass Road, Cardiff Docks, Cardiff, Cardiff, CF10 4LL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PB3230RV EPR reference: - Operator: United Recycled Aggregates Limited Waste Management licence No: 400169 Annual Tonnage: 75000	Issue Date: 30/05/2013 Effective Date: 30/05/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
J	411m NE	Site Name: - Site Address: U R A Cardiff Docks Site, Compass Road, Cardiff Docks, Cardiff, CF10 4LL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: PB3230RV EPR reference: - Operator: United Recycled Aggregates Limited Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 30/05/2013 Effective Date: 30/05/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
J	411m NE	Site Name: - Site Address: U R A Cardiff Docks Site, Compass Road, Cardiff Docks, Cardiff, CF10 4LL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: PB3230RV EPR reference: - Operator: United Recycled Aggregates Limited Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 30/05/2013 Effective Date: 30/05/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
J	412m NE	Site Name: U R A Cardiff Docks Site Site Address: U R A Cardiff Docks Site, Compass Road, Cardiff Docks, Cardiff, CF10 4LL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UNI568 EPR reference: PB3230RV/A001 Operator: United Recycled Aggregates Limited Waste Management licence No: 400169 Annual Tonnage: 75000	Issue Date: 30/05/2013 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued
K	477m SW	Site Name: Docolon Site Address: Docolon, Longships Road, Queen Alexandra Dock, Cardiff, Glamorgan, CF10 4RP Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DOC001 EPR reference: ZP3399FD/A001 Operator: Docolon Ltd Waste Management licence No: 30040 Annual Tonnage: 24999	Issue Date: 01/02/1991 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Expired
K	478m SW	Site Name: - Site Address: Docolon, Docolon, Longships Road, Queen Alexandra Dock, Cardiff, Glamorgan, CF10 4RP Correspondence Address: -	Type of Site: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3399FD EPR reference: - Operator: - Waste Management licence No: 30040 Annual Tonnage: 0	Issue Date: 01/02/1991 Effective Date: 01/02/1991 Modified: - Surrendered Date: - Expiry Date: 28/10/2003 Cancelled Date: - Status: Expired
K	478m SW	Site Name: - Site Address: Docolon, Docolon, Longships Road, Queen Alexandra Dock, Cardiff, Cardiff, CF10 4RP Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3399FD EPR reference: - Operator: Docolon Ltd Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 01/02/1991 Effective Date: 01/02/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired



ID	Location	Details		
K	478m SW	Site Name: - Site Address: Docolon, Docolon, Longships Road, Glamorgan, Cardiff, Cardiff, CF10 4RP Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3399FD EPR reference: - Operator: Docolon Ltd Waste Management licence No: 30040 Annual Tonnage: 0	Issue Date: 01/02/1991 Effective Date: 01/02/1991 Modified: - Surrendered Date: - Expiry Date: 28/10/2003 Cancelled Date: - Status: Expired
K	478m SW	Site Name: - Site Address: Docolon, Docolon, Longships Road, Queen Alexandra Dock, Cardiff, Glamorgan, CF10 4RP Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: ZP3399FD EPR reference: - Operator: Docolon Ltd Waste Management licence No: - Annual Tonnage: 0	Issue Date: 01/02/1991 Effective Date: 01/02/1991 Modified: - Surrendered Date: - Expiry Date: 28/10/2003 Cancelled Date: - Status: Expired
K	478m SW	Site Name: - Site Address: Docolon, Docolon, Longships Road, Queen Alexandra Dock, Cardiff, Glamorgan, CF10 4RP Correspondence Address: -	Type of Site: Physical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: ZP3399FD EPR reference: - Operator: Docolon Ltd Waste Management licence No: - Annual Tonnage: 0	Issue Date: 01/02/1991 Effective Date: 01/02/1991 Modified: - Surrendered Date: - Expiry Date: 28/10/2003 Cancelled Date: - Status: Expired

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

### 3.7 Waste exemptions

<b>Records within 500m</b>	<b>15</b>
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 38 >](#)



ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Donald Ward Limited T/a Ward, Ward, Cold Stores Road, Cardiff, Caerdydd, Cf10 4rp	NRW-WME082046	Treating waste exemption	Not on a farm	Recovery of scrap metal
A	On site	Donald Ward Limited T/a Ward, Ward, Cold Stores Road, Cardiff, Caerdydd, Cf10 4rp	NRW-WME082046	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	212m N	Queen Alexandra House, Cargo Road, Docks, Cardiff, Cf10 4ly	WEX095947	Using waste exemption	Not on a farm	Use of mulch
G	212m N	Associated British Ports, Queen Alexandra House, Cargo Road, Cardiff, Cf104ly	NRW-WME027302	Using waste exemption	Not on a farm	Use of waste in construction
G	212m N	Associated British Ports, Queen Alexandra House, Cargo Road, Cardiff, Cardiff, Cf104ly	NRW-WME028073	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	212m N	Cardiff Council, Cardiff Parks, Queen Alexandra House, Cargo Road, Docks, Cardiff, Cf104ly	NRW-WME027866	Using waste exemption	On a farm	Use of mulch
G	212m N	Cross Berth, Cargo Road, Cardiff, Cf10 4ly	NRW-WME002566	Storing waste exemption	Waste exemption - non-agricultural	Storage of waste in a secure place
H	218m N	Travis Perkins, Cold Stores Road, Cardiff, Cardiff, Cf10 4lu	NRW-WME003436	Storing waste exemption	Waste exemption - non-agricultural	Storage of waste in secure containers
H	218m N	Travis Perkins, Cold Stores Road, Cardiff, Cardiff, Cf10 4lu	NRW-WME003436	Storing waste exemption	Waste exemption - non-agricultural	Storage of waste in a secure place
H	218m N	Travis Perkins, Cold Stores Road, Cardiff, Cardiff, Cf10 4lu	NRW-WME003436	Treating waste exemption	Waste exemption - non-agricultural	Preparatory treatments (baling, sorting, shredding etc)

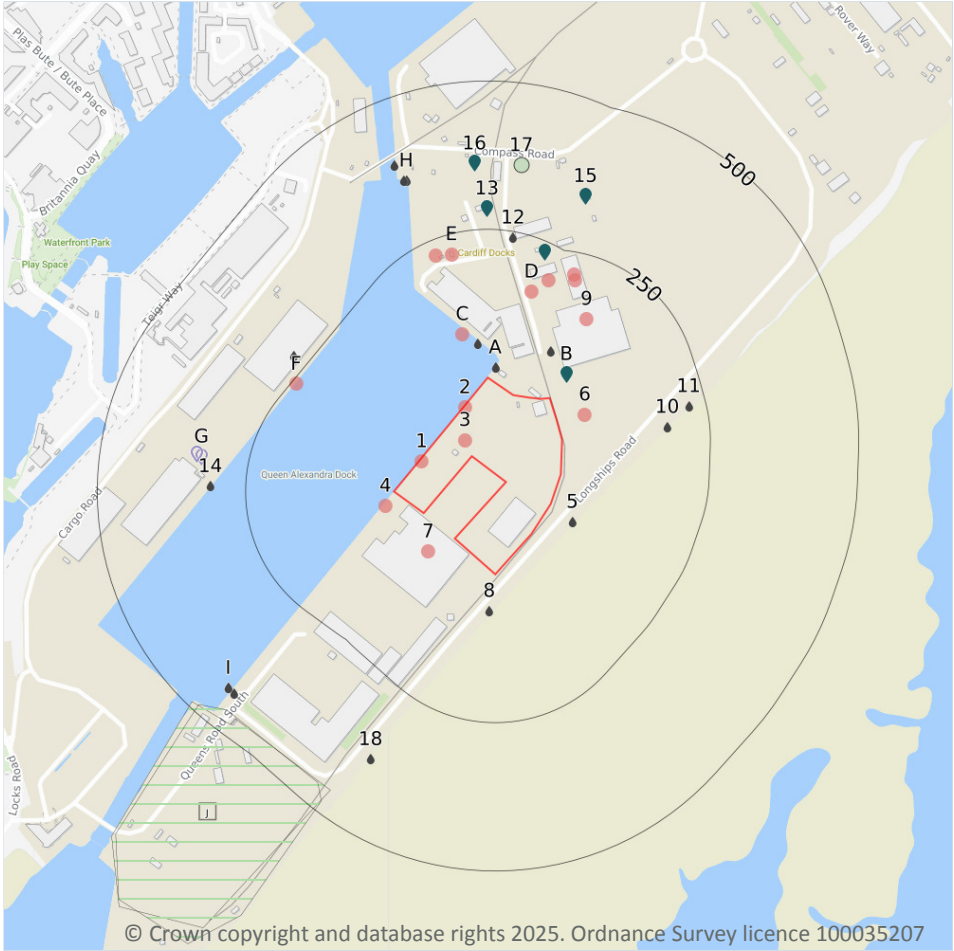


ID	Location	Site	Reference	Category	Sub-Category	Description
H	218m N	Travis Perkins, Cold Stores Road, Cardiff, Cardiff, Cf10 4lu	NRW-WME003436	Treating waste exemption	Waste exemption - non-agricultural	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	218m N	Travis Perkins, Cold Stores Road, Cardiff, Cardiff, Cf10 4lu	NRW-WME003436	Treating waste exemption	Waste exemption - non-agricultural	Manual treatment of waste
E	233m N	Associated British Ports, Longships Road, Cardiff, Cardiff, Cf104rp	NRW-WME027303	Using waste exemption	Not on a farm	Use of waste in construction
1	349m W	Jetplant Hire Ltd, Machinery Movements & Crane Hire Ltd, Compass Road, Cardiff, Caerdydd, Cf104lb	NRW-WME029435	Using waste exemption	Not on a farm	Use of waste in construction
4	418m N	Balfour Beatty, Balfour Beatty Power, Compass Road, Cardiff Docks, Cardiff, Cardiff, Cf10 4ll	NRW-WME100594	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans

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



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

**Records within 250m** **15**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 52](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Travelling Cranes	South Glamorgan, CF10	Travelling Cranes and Gantries	Industrial Features
2	On site	Travelling Cranes	South Glamorgan, CF10	Travelling Cranes and Gantries	Industrial Features
3	On site	Travelling Crane	South Glamorgan, CF10	Travelling Cranes and Gantries	Industrial Features

ID	Location	Company	Address	Activity	Category
4	28m SW	Travelling Crane	South Glamorgan, CF10	Travelling Cranes and Gantries	Industrial Features
6	48m E	Workings (Dis)	South Glamorgan, CF10	Unspecified Quarries Or Mines	Extractive Industries
7	50m SW	H D M Tubes Ltd	Unit I Shed, Longships Road, Cardiff, South Glamorgan, CF10 4RP	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
C	85m NW	King's Wharf	South Glamorgan, CF10	Moorings and Unloading Facilities	Water
9	147m NE	Factory	South Glamorgan, CF10	Unspecified Works Or Factories	Industrial Features
D	162m NE	Electricity Sub Station	South Glamorgan, CF10	Electrical Features	Infrastructure and Facilities
D	194m NE	Works	South Glamorgan, CF10	Unspecified Works Or Factories	Industrial Features
D	203m N	Wild Water Storage	Cold Stores Road, Butetown, Cardiff, South Glamorgan, CF10 4LL	Container and Storage	Transport, Storage and Delivery
D	212m N	Sawmill	South Glamorgan, CF10	Wood Products Including Charcoal, Paper, Card and Board	Industrial Products
E	217m N	Cemex Cardiff Concrete Plant Mortar Screed Sales	Empire Wharf, Cold Stores Road, Butetown, Cardiff, South Glamorgan, CF10 4LW	Concrete Products	Industrial Products
E	224m NW	Electricity Sub Station	South Glamorgan, CF10	Electrical Features	Infrastructure and Facilities
F	243m NW	Import Wharf	South Glamorgan, CF10	Moorings and Unloading Facilities	Water

*This data is sourced from Ordnance Survey.*



## 4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	0
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Current or recent tanks identified from the Ordnance Survey NGD.

*This data is sourced from Ordnance Survey.*

## 4.3 Current or recent petrol stations

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

*This data is sourced from Experian.*

## 4.4 Electricity cables

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

*This data is sourced from National Grid.*

## 4.5 Gas pipelines

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

*This data is sourced from National Grid.*

## 4.6 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	2
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on [page 52 >](#)



ID	Location	Company	Address	Operational status	Tier
J	458m SW	Greenergy Terminals Limited	Greenergy Terminals Limited, Cardiff Oil Terminal, Queen Alexandra Dock, Longships Road, Cardiff, South Glamorgan, CF10 4RP	Historical COMAH Site	COMAH Upper Tier Operator
J	461m SW	Prax Terminals Limited	Prax Terminals Limited, Queen Alexandra Dock, Cardiff, Longships Road, Cardiff, South Glamorgan, CF10 4RP	Historical COMAH Site	COMAH Lower Tier Operator

*This data is sourced from the Health and Safety Executive.*

## 4.8 Regulated explosive sites

**Records within 500m**

**0**

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

*This data is sourced from the Health and Safety Executive.*

## 4.9 Hazardous substance storage/usage

**Records within 500m**

**0**

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

*This data is sourced from Local Authority records.*

## 4.10 Historical licensed industrial activities (IPC)

**Records within 500m**

**0**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

## 4.11 Licensed industrial activities (Part A(1))

**Records within 500m**

**3**

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 52 >](#)



ID	Location	Details	
G	330m W	Operator: CARGO SERVICES (UK) LIMITED Installation Name: CATGO SERVICES (UK) LTD Process: - Permit Number: QP3035WK Original Permit Number: -	EPR Reference: - Issue Date: 03/12/2015 Effective Date: 03/12/2015 Last date noted as effective: 01/04/2017 Status: ISSUED
G	339m W	Operator: cargo services (UK) Limited Installation Name: Cargo Services Terminal Process: - Permit Number: QP3035WK Original Permit Number: -	EPR Reference: - Issue Date: 03/12/2015 Effective Date: 03/12/2015 Last date noted as effective: 28/04/2025 Status: Effective
G	339m W	Operator: CARGO SERVICES (UK) LIMITED Installation Name: CARGO SERVICES TERMINAL Process: - Permit Number: QP3035WK Original Permit Number: -	EPR Reference: - Issue Date: 03/12/2015 Effective Date: 03/12/2015 Last date noted as effective: 01/04/2018 Status: EFFECTIVE

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

## 4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m

5

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

Features are displayed on the Current industrial land use map on [page 52 >](#)

ID	Location	Address	Details	
B	49m NE	Rmc Readymix Wales & Midlands, Empire Wharf, Cold Storage Road, Cardiff, South Glamorgan, CF10 4LL	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: Information Requested, Not Received Date of enforcement: Information Requested, Not Received Comment: Information Requested, Not Received
D	231m NE	Cardiff Wood-Waste Recycling, Coldstores Road, Queen Alexandra Dock, Cardiff Bay, Cardiff, CF10 4LU	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: Enforcement Notified Date of enforcement: 19/09/2008 Comment: Enforcement
13	285m N	Cemex Ltd, Empire Wharf, Cold Stores Road, Cardiff, South Glamorgan, CF10 4LL	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: Information Requested, Not Received Date of enforcement: Information Requested, Not Received Comment: Information Requested, Not Received



ID	Location	Address	Details	
15	346m N	Cpi Mortars Ltd, Compass Road, Queen Alexandra Dock, Cardiff, CF10 4LT	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: Information Requested, Not Received Date of enforcement: Information Requested, Not Received Comment: Information Requested, Not Received
16	362m N	Hanson Aggregates (SW) Ltd, Cardiff Premix Plant, Empire Wharf, Cold Stores Road, Cardiff, South Glamorgan, CF10 4LL	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: Information Requested, Not Received Date of enforcement: Information Requested, Not Received Comment: Information Requested, Not Received

*This data is sourced from Local Authority records.*

### 4.13 Radioactive Substance Authorisations

<b>Records within 500m</b>	<b>0</b>
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

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

### 4.14 Licensed Discharges to controlled waters

<b>Records within 500m</b>	<b>21</b>
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Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 52 >](#)

ID	Location	Address	Details	
A	21m NE	SECORNERQUEENALEXANDRADOCK CAR, SECORNER, QUEENALEXANDRADOCK, CARDIFF, CARDIFFCBC, CF104LL	Effluent Type: UNSPECIFIED Permit Number: AN0033413 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 09/10/1992
A	21m NE	S E CORNER QUEEN ALEXANDRA DOCK CAR, S E CORNER, QUEEN ALEXANDRA DOCK, CARDIFF, CARDIFF CBC, CF10 4LL	Effluent Type: - Permit Number: AN0033424 Permit Version: 0 Receiving Water: QUEEN ALEX. DOCK	Status: Effective Issue date: 08/12/1992 Effective Date: 08/03/1993 Revocation Date: -



ID	Location	Address	Details	
5	47m SE	CARDIFFDOCKSLONGSHIPSROADCE NTRA, CARDIFFDOCKSLONGSHIPSROADCE N, LONGSHIPSROADCENTRALEAST, CENTRALEAST	Effluent Type: UNSPECIFIED Permit Number: AN0033403 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 09/10/1992
C	60m N	KINGS WHARF COLD STORE CARDIFF, KINGS WHARF COLD STORE, QUEEN ALEXANDRA DOCK, PORT OF CARDIFF, CARDIFF, CF10 4LL	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: AN0319801 Permit Version: 0 Receiving Water: QUEEN ALEXANDRA DOCK	Status: Effective Issue date: 17/05/2002 Effective Date: 17/05/2002 Revocation Date: -
8	63m S	CARDIFFDOCKSLONGSHIPSROADCE NTRA, CARDIFFDOCKSLONGSHIPSROADCE N, LONGSHIPSROADCENTRALWEST, CENTRALWEST	Effluent Type: UNSPECIFIED Permit Number: AN0033402 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 09/10/1992
B	78m N	Cardiff Range Distribution Centre, Cold Stores Rd, Port of Cardiff, Cardiff, CF10 4LL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: AB3395HT Permit Version: 0 Receiving Water: Queen Alexandra Dock	Status: Effective Issue date: 21/02/2017 Effective Date: 21/02/2017 Revocation Date: -
10	179m E	CARDIFFDOCKSLONGSHIPSROADM ALLIS, CARDIFFDOCKSLONGSHIPSROADM AL, LONGSHIPSROADMALLISONDENNY, MALLISONDENNY	Effluent Type: UNSPECIFIED Permit Number: AN0033404 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 09/10/1992
11	221m E	ABP Business Park, Compass Road, ABP Business Park, Cardiff, CF10 4LY	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CB3792CK Permit Version: 0 Receiving Water: Severn Estuary	Status: Effective Issue date: 17/11/2022 Effective Date: 01/09/2023 Revocation Date: -
12	240m N	ABP Engineers Workshops, Cold Stores Road, Port of Cardiff, Cardiff, CF10 4LL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BB3799CY Permit Version: 0 Receiving Water: Queen Alexandra Dock	Status: Effective Issue date: 27/10/2020 Effective Date: 27/10/2020 Revocation Date: -



ID	Location	Address	Details	
F	276m NW	OFALL13PLUSSWCARDIFFDOCKS, CARDIFFDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033410 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 11/12/1992
14	310m W	CARDIFF DOCKS - O/F 14 CARDIFF, CARDIFF DOCKS - O/F 14, CARDIFF, CARDIFF CBC, WALES, CF10 4LT	Effluent Type: - Permit Number: AN0033411 Permit Version: 0 Receiving Water: QUEEN ALEX. DOCK	Status: Effective Issue date: 08/12/1992 Effective Date: 08/03/1993 Revocation Date: -
H	359m NW	EMPIREWHARFPORTOFCARDIFF, EMPIREWHARF, PORTOFCARDIFF, CARDIFF, CARDIFFCBC, CF104LL	Effluent Type: UNSPECIFIED Permit Number: AN0033409 Permit Version: 2 Receiving Water: ROATH DOCK PASSG	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 08/12/1992 Effective Date: 08/03/1993 Revocation Date: -
H	359m NW	EMPIRE WHARF PORT OF CARDIFF, EMPIRE WHARF, PORT OF CARDIFF, CARDIFF, CARDIFF CBC, CF10 4LL	Effluent Type: - Permit Number: AN0033409 Permit Version: 0 Receiving Water: ROATH DOCK PASSG	Status: Effective Issue date: 08/12/1992 Effective Date: 08/03/1993 Revocation Date: -
H	361m NW	EMPIREWHARFQUEENALEXANDRA DOCK, EMPIREWHARF, QUEENALEXANDRADOCK, CARDIFF, CARDIFFCBC, CF104LL	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: AN0161201 Permit Version: 1 Receiving Water: QUEEN ALEXANDER DOCK	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 20/10/1989 Effective Date: 20/10/1989 Revocation Date: 04/08/1999
18	376m SW	CARDIFFDOCKSLONGSHIPSROADW EST, CARDIFFDOCKSLONGSHIPSROADW ES, LONGSHIPSROADWEST, WEST	Effluent Type: UNSPECIFIED Permit Number: AN0033401 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 09/10/1992
H	390m NW	OUTFALL9COMMUNCARDIFFDOCK S, CARDIFFDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033422 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 10/09/1987
H	390m NW	EMPIREWHARFPORTOFCARDIFF, EMPIREWHARF, PORTOFCARDIFF, CARDIFF, CARDIFFCBC, CF104LL	Effluent Type: UNSPECIFIED Permit Number: AN0033409 Permit Version: 1 Receiving Water: ROATH DOCK PASSG	Status: REVOKED - UNSPECIFIED Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 07/03/1993



ID	Location	Address	Details	
I	433m SW	OIL TERMINAL LONGSHIPS ROAD QU EENA, OIL TERMINAL, LONGSHIPS ROAD, QUEEN ALEXANDRA DOCK, CARDIFF	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: AN0226001 Permit Version: 1 Receiving Water: QUEEN ALEXANDRA DOCK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 05/03/1991 Effective Date: 05/03/1991 Revocation Date: 27/10/2000
I	433m SW	OIL TERMINAL LONGSHIPS ROAD QU EENA, OIL TERMINAL, LONGSHIPS ROAD, QUEEN ALEXANDRA DOCK, Cardiff	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: AN0234101 Permit Version: 2 Receiving Water: QUEEN ALEXANDRA DOCK	Status: Effective Issue date: 04/01/1995 Effective Date: 04/01/1995 Revocation Date: -
I	433m SW	OIL TERMINAL LONGSHIPS ROAD QUEEN A, OIL TERMINAL, LONGSHIPS ROAD, QUEEN ALEXANDRA DOCK, CARDIFF, CF10 5LT	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: AN0234101 Permit Version: 0 Receiving Water: QUEEN ALEXANDRA DOCK	Status: Effective Issue date: 08/11/2019 Effective Date: 20/11/2019 Revocation Date: -
I	435m SW	CARDIFF DOCKS 24 OUTFALLS COR N, CARDIFF DOCKS 24 OUTFALLS 24 OUTFALLS CORNER QADOCK, QADOCK	Effluent Type: UNSPECIFIED Permit Number: AN0033412 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 09/10/1992

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

#### 4.15 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

#### 4.16 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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



#### 4.17 List 1 Dangerous Substances

Records within 500m

0

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

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

#### 4.18 List 2 Dangerous Substances

Records within 500m

0

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

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

#### 4.19 Pollution Incidents (EA/NRW)

Records within 500m

1

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on [page 52 >](#)

ID	Location	Details	
17	362m N	Incident Date: 19/06/2014 Incident Identification: 1247152 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

#### 4.20 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.21 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.22 Pollution inventory radioactive waste

Records within 500m

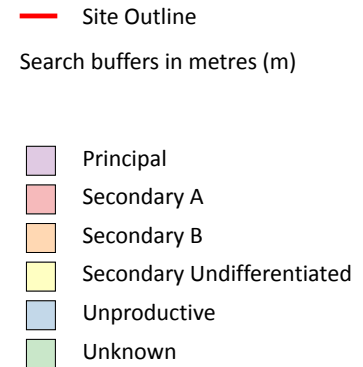
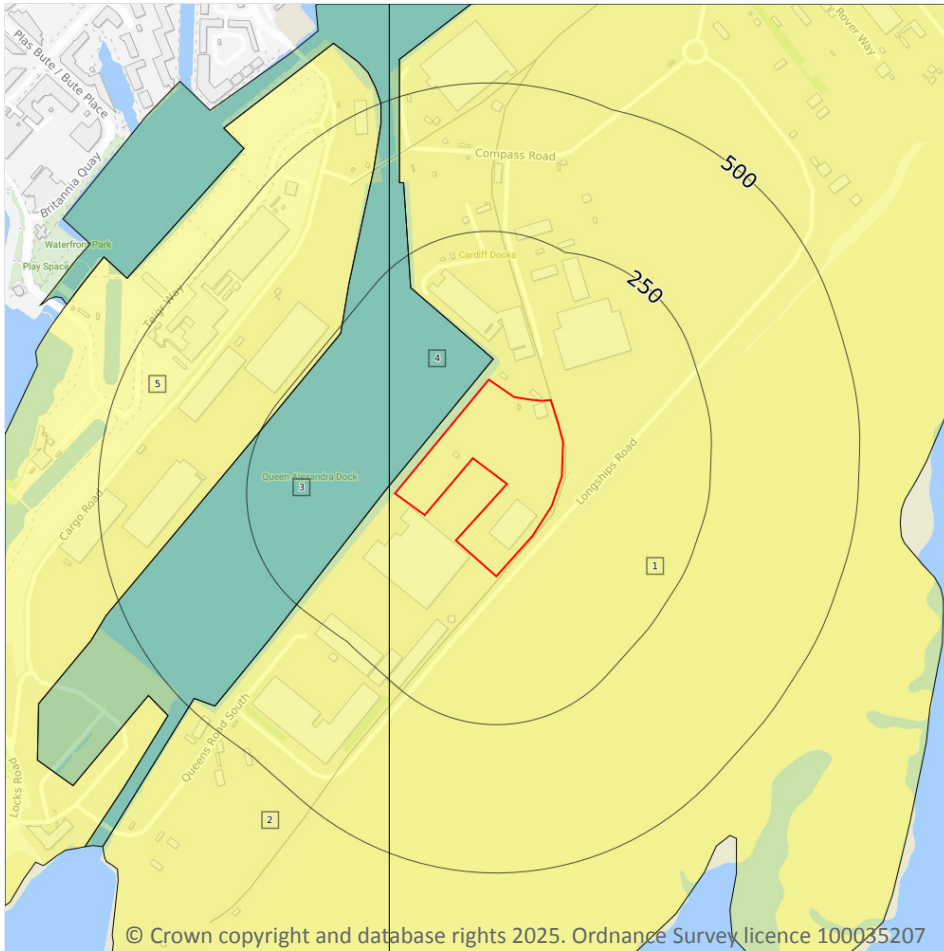
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 5 Hydrogeology - Superficial aquifer



### 5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 63](#) >

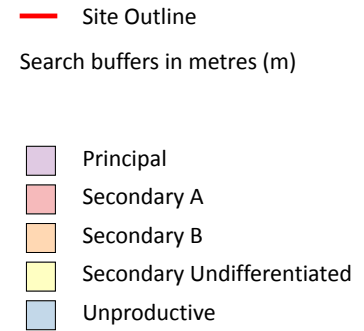
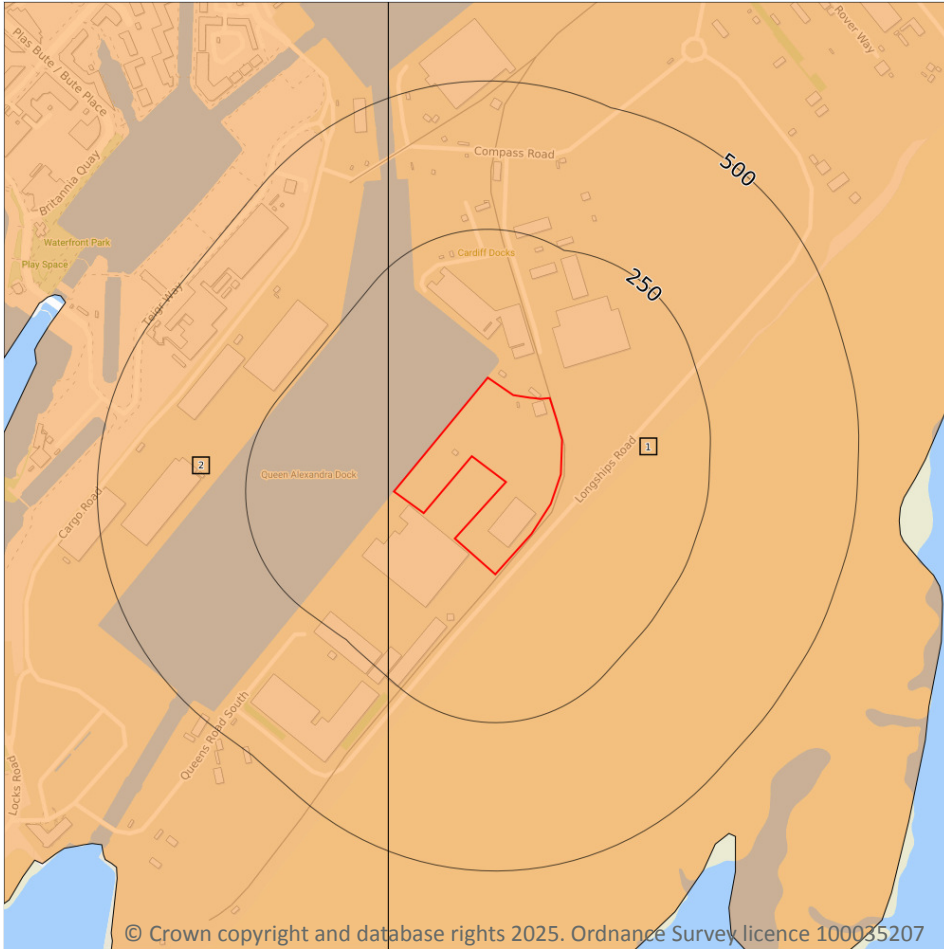
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	10m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	16m NW	Unknown	Unknown
4	16m NW	Unknown	Unknown
5	242m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



## Bedrock aquifer



### 5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

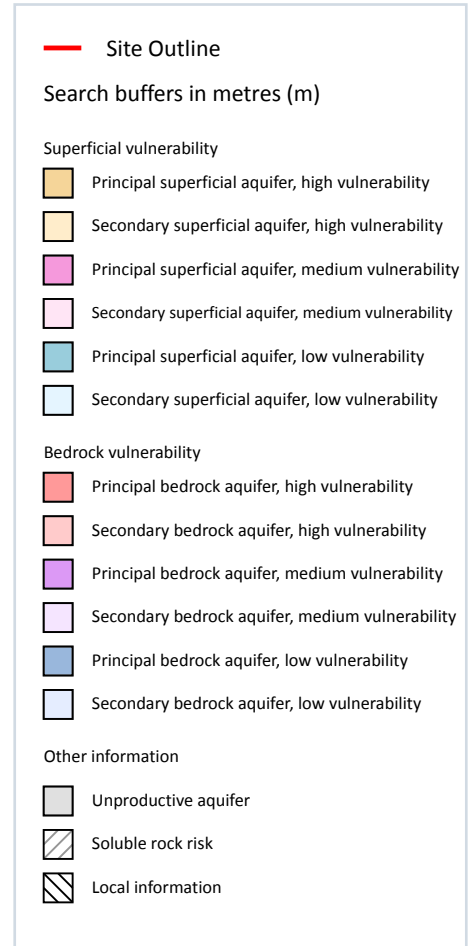
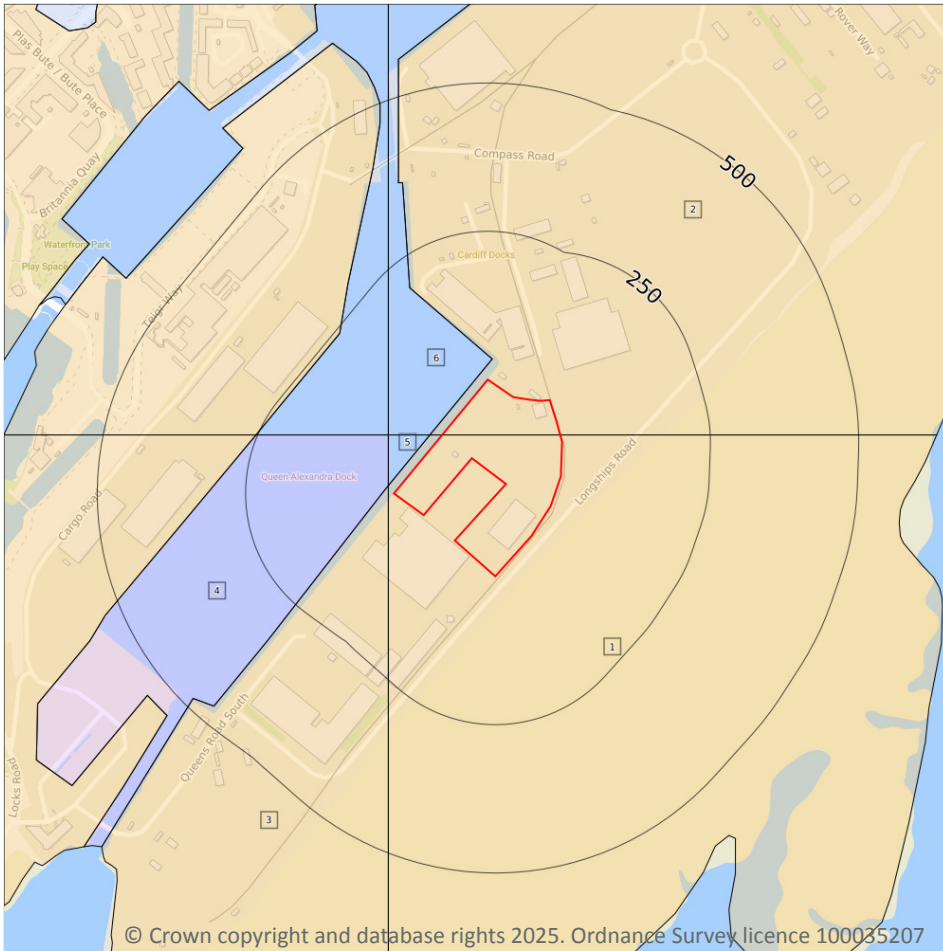
Features are displayed on the Bedrock aquifer map on [page 65](#) >

ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	10m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

6

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 67](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary superficial aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class: High</b> <b>Infiltration value:</b> >70% <b>Dilution value: 300-550mm/year</b>	<b>Vulnerability: High</b> <b>Aquifer type: Secondary</b> <b>Thickness: &gt;10m</b> <b>Patchiness value: &gt;90%</b> <b>Recharge potential: No Data</b>	<b>Vulnerability: Low</b> <b>Aquifer type: Secondary</b> <b>Flow mechanism: Well connected fractures</b>
2	On site	<b>Summary Classification:</b> Secondary superficial aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class: High</b> <b>Infiltration value:</b> >70% <b>Dilution value:</b> >550mm/year	<b>Vulnerability: High</b> <b>Aquifer type: Secondary</b> <b>Thickness: &gt;10m</b> <b>Patchiness value: &gt;90%</b> <b>Recharge potential: Low</b>	<b>Vulnerability: Low</b> <b>Aquifer type: Secondary</b> <b>Flow mechanism: Well connected fractures</b>
3	10m W	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
4	16m NW	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: Unknown (lakes+landslip) Thickness: >10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
5	16m NW	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: Unknown (lakes+landslip) Thickness: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	16m NW	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: Unknown (lakes+landslip) Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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



## 5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

## 5.5 Groundwater vulnerability- local information

Records on site

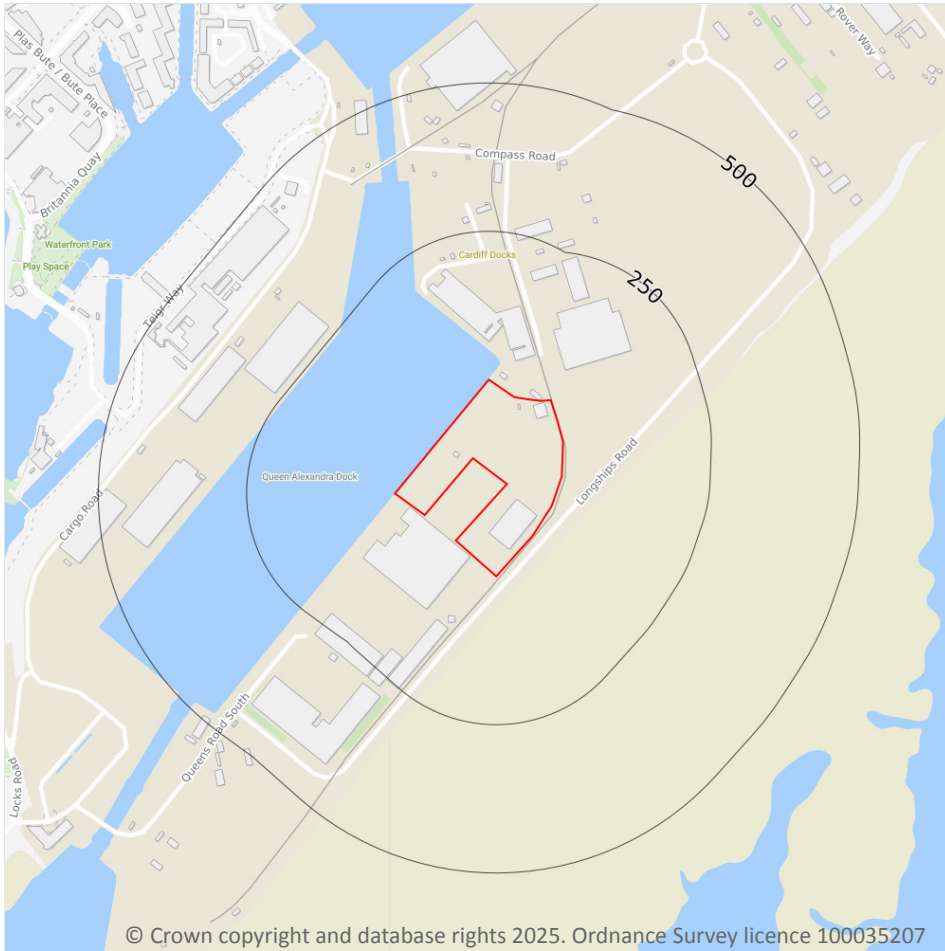
0

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

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



## Abstractions and Source Protection Zones



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### 5.6 Groundwater abstractions

#### Records within 2000m

2

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 70 >](#)

ID	Location	Details	
-	1996m W	Status: Active Licence No: WA/057/0025/013 Details: Heat Pump - Very Low Direct Source: underground strata Point: - Data Type: Point Name: - Easting: 318104 Northing: 174494	Annual Volume (m <sup>3</sup> ): 11979 Max Daily Volume (m <sup>3</sup> ): 58.5 Original Application No: - Original Start Date: 13/09/2016 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1996m W	Status: Historical Licence No: WA/057/0025/013 Details: Heat Pump - Very Low Direct Source: Underground strata Point: - Data Type: Point Name: - Easting: 318104 Northing: 174494	Annual Volume (m <sup>3</sup> ): 11979 Max Daily Volume (m <sup>3</sup> ): 108 Original Application No: - Original Start Date: 13/09/2016 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

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

## 5.7 Surface water abstractions

### Records within 2000m

7

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 70 >](#)

ID	Location	Details	
-	1326m NW	Status: Historical Licence No: 21/57/25/0048 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: EAST BUTE DOCK Data Type: Point Name: Celsa Manufacturing (UK) Ltd Easting: 319520 Northing: 175250	Annual Volume (m <sup>3</sup> ): 68190 Max Daily Volume (m <sup>3</sup> ): 2273 Original Application No: - Original Start Date: 01/05/1975 Expiry Date: - Issue No: 101 Version Start Date: 16/08/2004 Version End Date: -



ID	Location	Details	
-	1332m NW	Status: Active Licence No: 21/57/25/0048 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 319491 Northing: 175241	Annual Volume (m <sup>3</sup> ): 71810 Max Daily Volume (m <sup>3</sup> ): 2393 Original Application No: - Original Start Date: 30/04/2015 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1332m NW	Status: Active Licence No: 21/57/25/0048 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 319491 Northing: 175241	Annual Volume (m <sup>3</sup> ): 68190 Max Daily Volume (m <sup>3</sup> ): 2273 Original Application No: - Original Start Date: 30/04/2015 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1332m NW	Status: Historical Licence No: 21/57/25/0048 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 319491 Northing: 175241	Annual Volume (m <sup>3</sup> ): 68190 Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 30/04/2015 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1332m NW	Status: Historical Licence No: 21/57/25/0048 Details: Evaporative Cooling - High Direct Source: - Point: - Data Type: Point Name: - Easting: 319491 Northing: 175241	Annual Volume (m <sup>3</sup> ): 71810 Max Daily Volume (m <sup>3</sup> ): 11198.4 Original Application No: - Original Start Date: 30/04/2015 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1332m NW	Status: Historical Licence No: 21/57/25/0048 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: EAST BUTE DOCK Data Type: Point Name: Celsa Manufacturing (UK) Ltd Easting: 319491 Northing: 175241	Annual Volume (m <sup>3</sup> ): 208190 Max Daily Volume (m <sup>3</sup> ): 6939 Original Application No: - Original Start Date: 01/05/1975 Expiry Date: - Issue No: 102 Version Start Date: 30/04/2015 Version End Date: -



ID	Location	Details	
-	1996m W	Status: Historical Licence No: 21/57/25/0077 Details: Dust Suppression Direct Source: EAW Surface Water Point: CARDIFF BAY AT INTERNATIONAL SPORTS VILLAGE, CARDIFF Data Type: Line Name: Cardiff County Council Easting: 318130 Northing: 173230	Annual Volume (m <sup>3</sup> ): 9600 Max Daily Volume (m <sup>3</sup> ): 32 Original Application No: - Original Start Date: 18/10/2004 Expiry Date: 31/03/2009 Issue No: 2 Version Start Date: 01/04/2008 Version End Date: -

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

## 5.8 Potable abstractions

<b>Records within 2000m</b>	<b>0</b>
-----------------------------	----------

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

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

## 5.9 Source Protection Zones

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

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

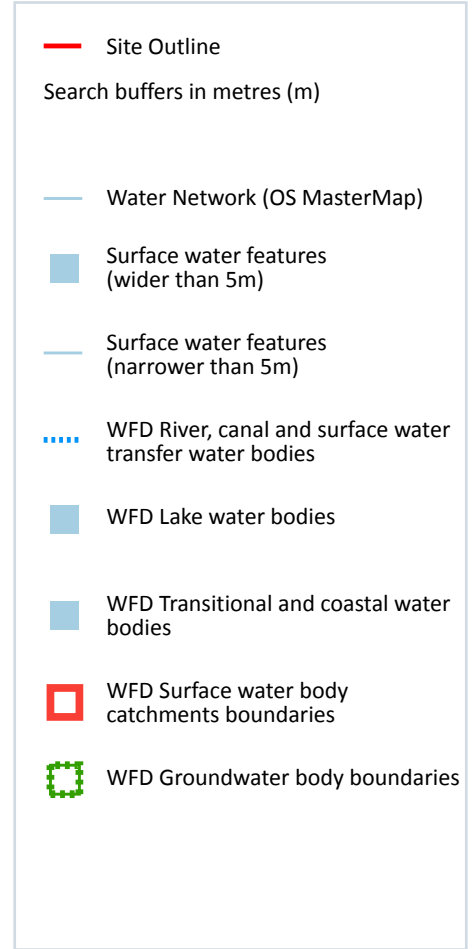
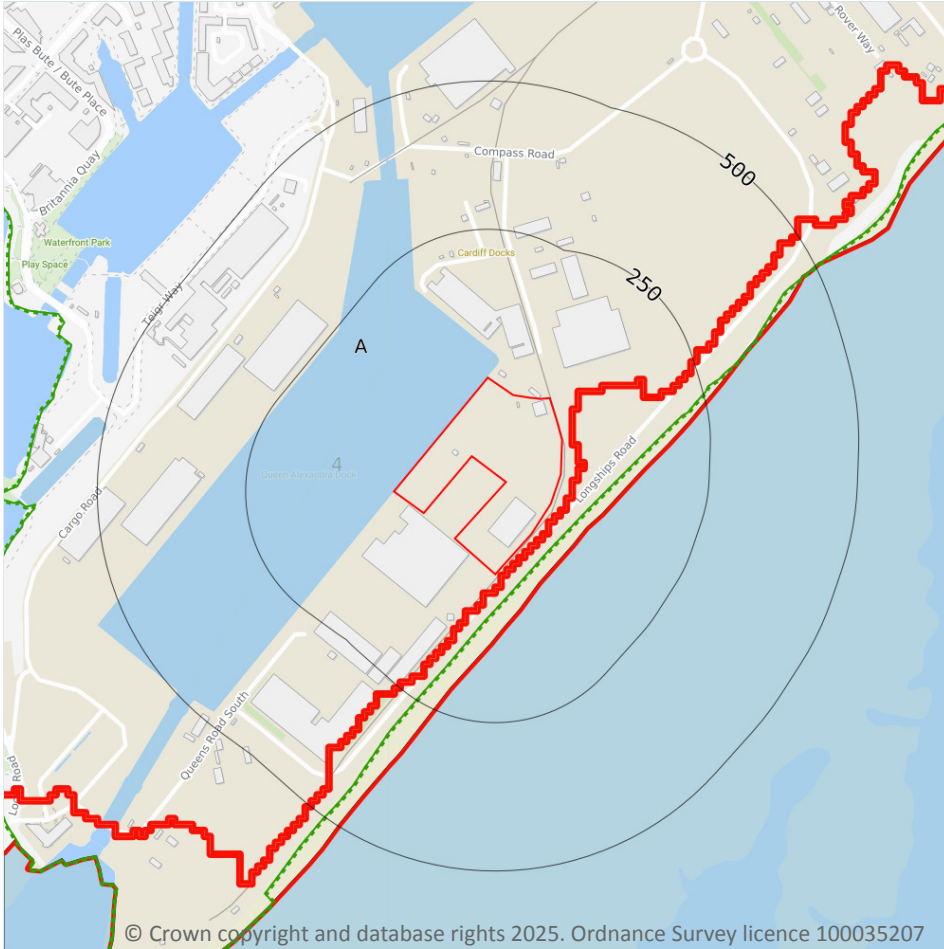
## 5.10 Source Protection Zones (confined aquifer)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

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

## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

1

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on [page 74 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
4	124m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

*This data is sourced from the Ordnance Survey.*

## 6.2 Surface water features

Records within 250m

1

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on [page 74 >](#)

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on [page 74 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Taff - conf Rhondda R to Castle Street	GB109057027270	Taff d s Cynon	South East Valleys

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

## 6.4 WFD Surface water bodies

Records identified

2

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

Features are displayed on the Hydrology map on [page 74 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	64m SE	Transitional	SEVERN LOWER	GB530905415401	Moderate	Fail	Moderate	2019



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1390m SW	River	Taff - conf Rhondda R to Castle Street	GB109057027270	Moderate	Fail	Moderate	2016

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

## 6.5 WFD Groundwater bodies

<b>Records on site</b>	<b>1</b>
------------------------	----------

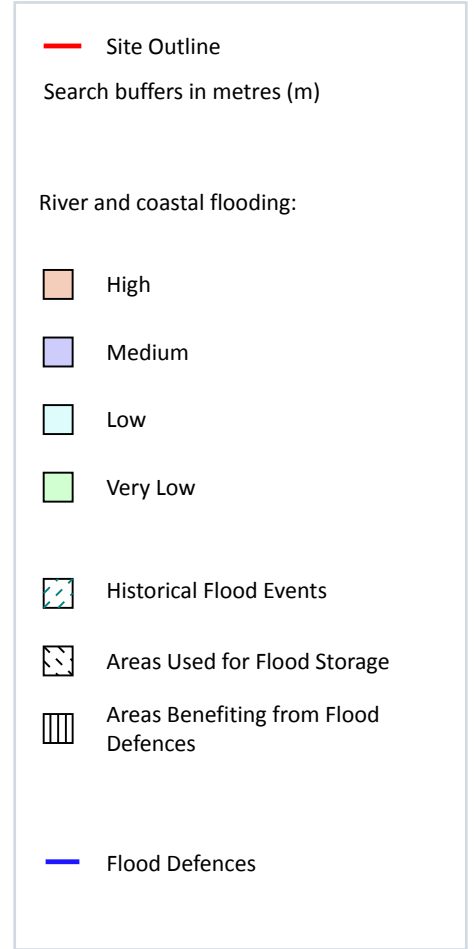
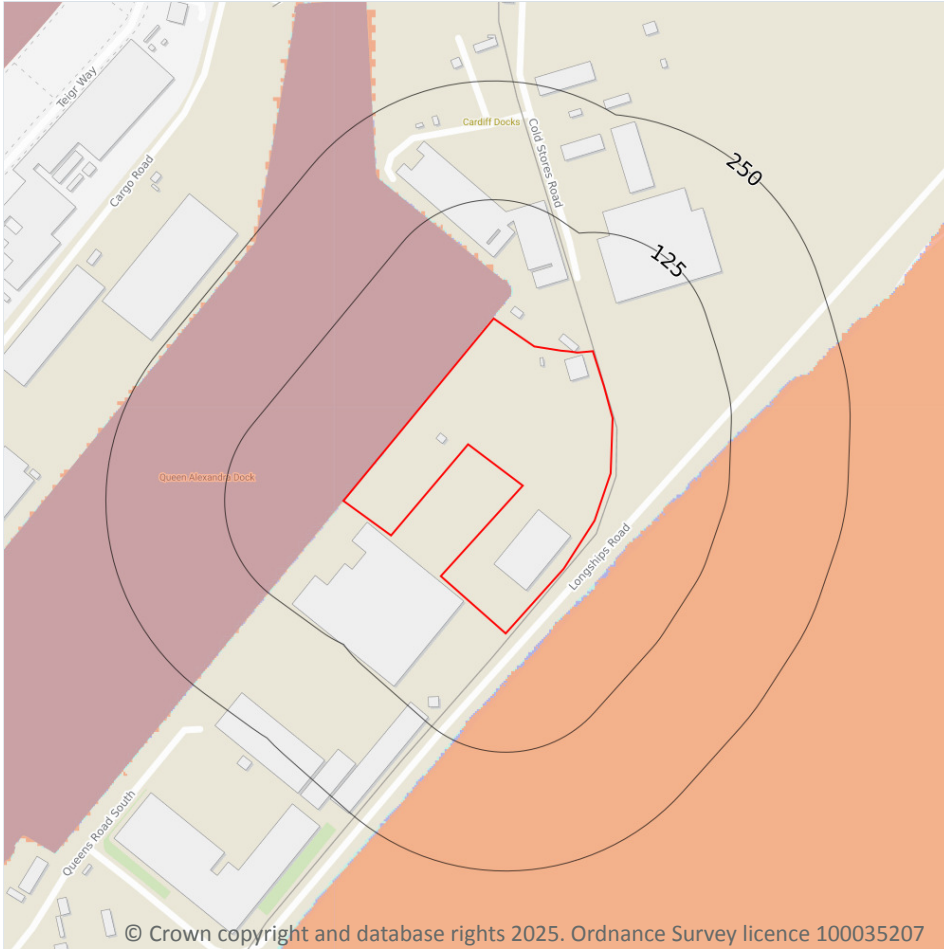
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on [page 74 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	SE Valleys Southern Devonian Old Red Sandstone & Triassic Mercia Mudstone	GB40902G201500	Good	Good	Good	2017

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

## 7 River and coastal flooding



### 7.1 Risk of flooding from rivers and the sea

Records within 50m

302

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on [page 77 >](#)

Distance	Flood risk category
<b>On site</b>	<b>High</b>
0 - 50m	High

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

## 7.2 Historical Flood Events

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

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

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

## 7.3 Flood Defences

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

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

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

## 7.4 Areas Benefiting from Flood Defences

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

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

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

## 7.5 Flood Storage Areas

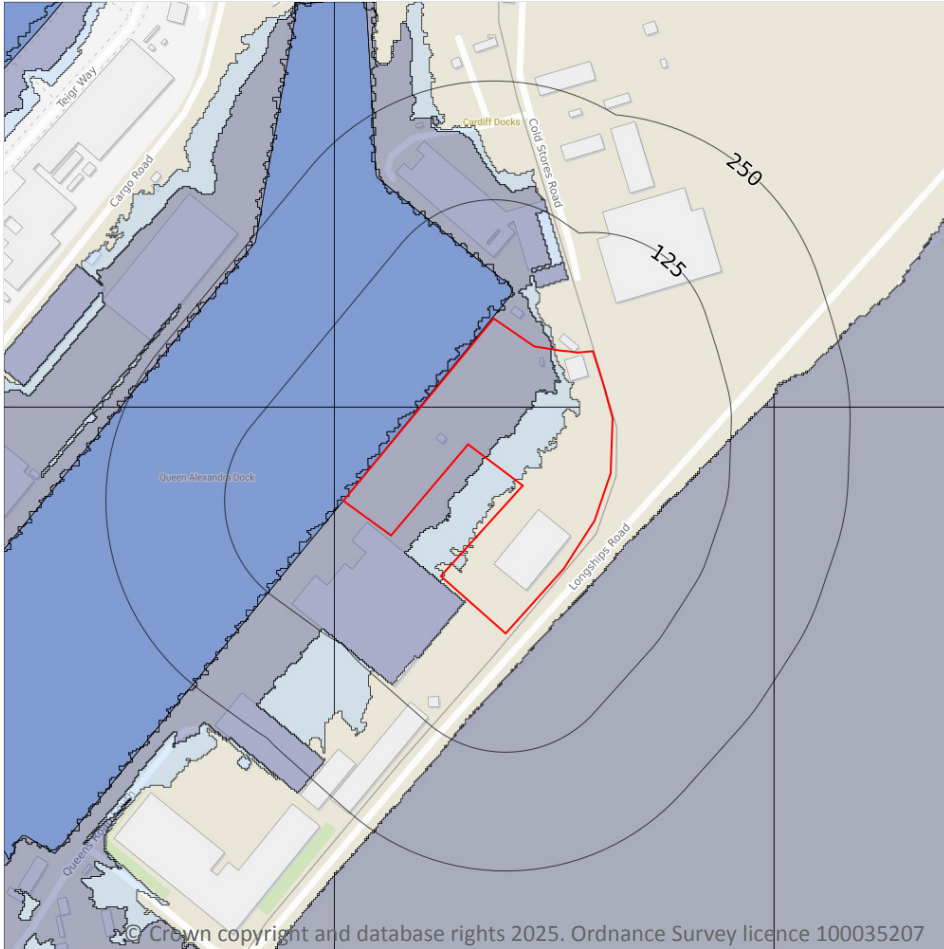
<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

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

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



## River and coastal flooding - Flood Zones



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

### 7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 77 >](#)

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

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

## 7.7 Flood Zone 3

Records within 50m

1

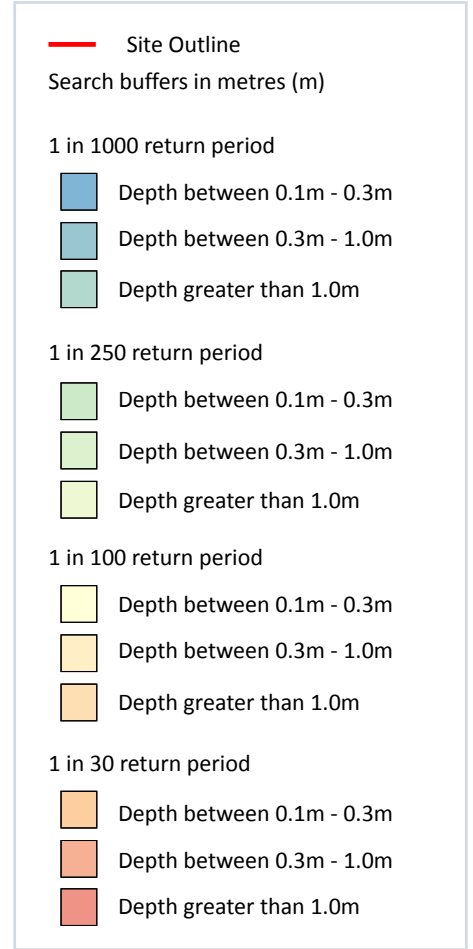
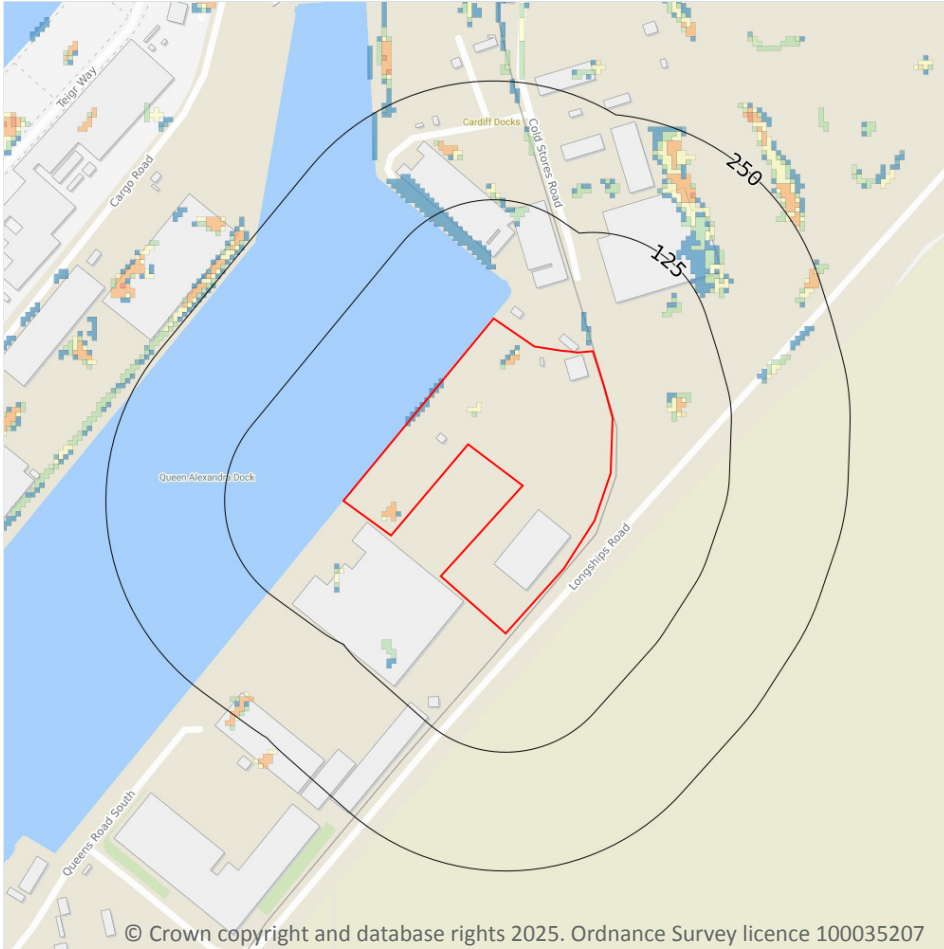
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on [page 77](#) >

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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

## 8 Surface water flooding



### 8.1 Surface water flooding

**Highest risk on site**

**1 in 30 year, 0.1m - 0.3m**

**Highest risk within 50m**

**1 in 30 year, 0.1m - 0.3m**

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

Features are displayed on the Surface water flooding map on [page 81](#) >

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

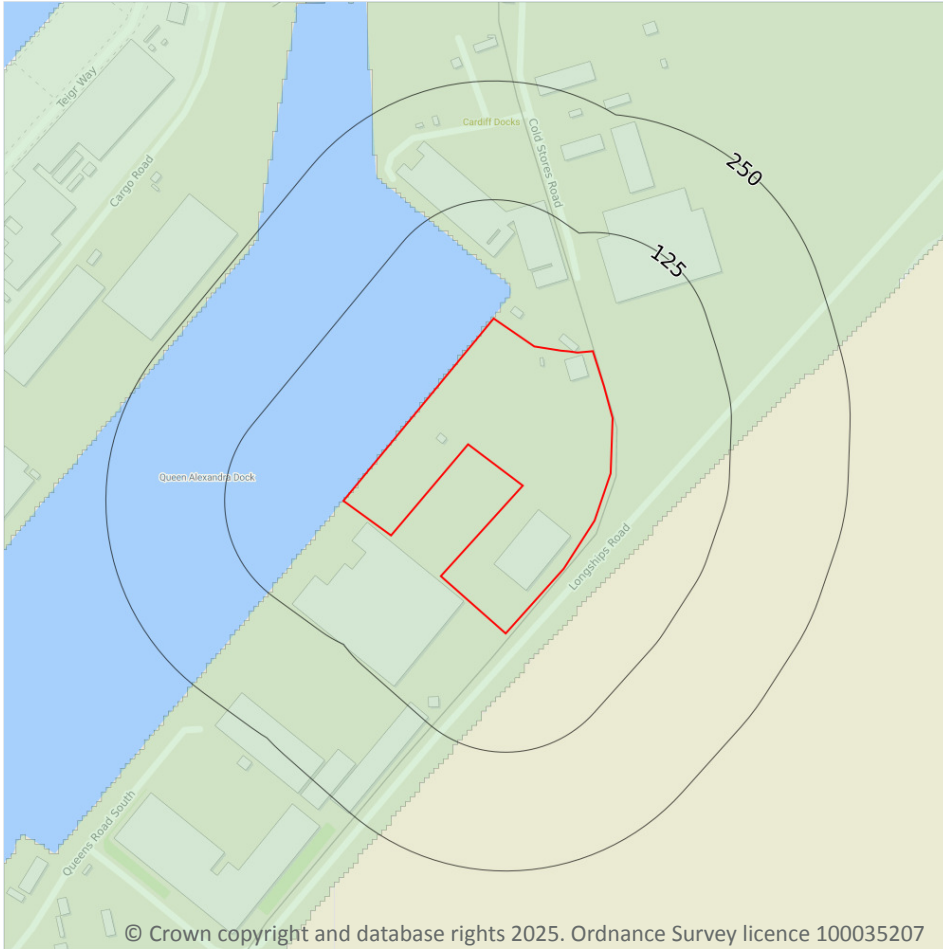
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

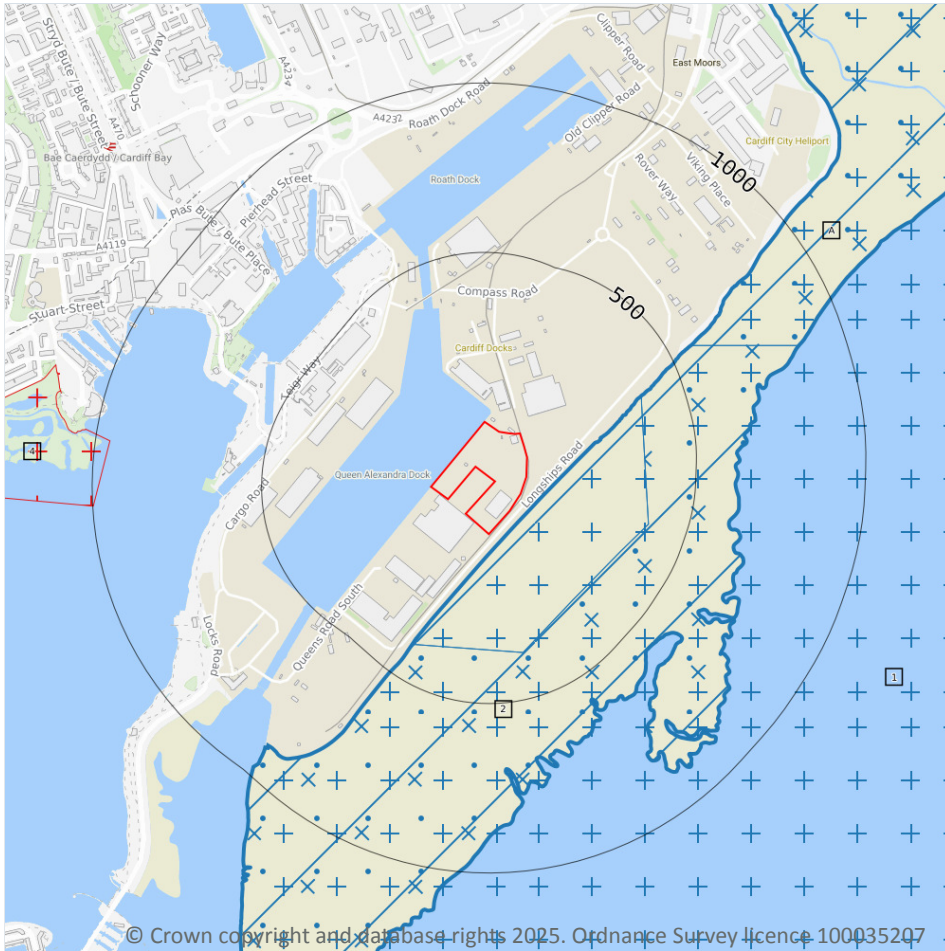
**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 83](#) >

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- × Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- + Local Nature Reserves (LNR)

### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

3

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

Features are displayed on the Environmental designations map on [page 84](#) >

ID	Location	Name	Data source
A	39m SE	Severn Estuary	Natural Resources Wales



ID	Location	Name	Data source
-	1824m SW	Severn Estuary	Natural Resources Wales
-	1844m SW	Severn Estuary	Natural Resources Wales

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

## 10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

2

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

Features are displayed on the Environmental designations map on [page 84](#) >



ID	Location	Site	Details
A	314m SE	Name: Severn Estuary (Wales) Site status: - Data source: Natural Resources Wales	<p>Overview: The estuary's classic funnel shape, unique in Britain, is a factor causing the Severn to have the second-largest tidal range in the world (after the Bay of Fundy, Canada). This tidal regime results in plant and animal communities typical of the extreme physical conditions of liquid mud and tide swept sand and rock. The species-poor invertebrate community includes high densities of ragworms, lugworms and other invertebrates forming an important food source for passage and wintering waders.</p> <p>A further consequence of the large tidal range is the extensive intertidal zone, one of the largest in the UK, comprising mudflats, sand banks, shingle, and rocky platforms. Glassworts and annual sea-blite colonise the open mud, with beds of all three species of eelgrass <i>Zostera</i> occurring on more sheltered mud and sandbanks. Large expanses of common cord-grass also occur on the outer marshes. Heavily grazed saltmarsh fringes the estuary with a range of saltmarsh types present. The middle marsh sward is dominated by common saltmarsh-grass with typical associated species. In the upper marsh, red fescue and saltmarsh rush become more prominent.</p> <p>Ramsar criteria: Ramsar criterion 1 Due to immense tidal range (second-largest in world), this affects both the physical environment and biological communities. Habitats Directive Annex I features present on the pSAC include: H1110 Sandbanks which are slightly covered by sea water all the time H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>) Ramsar criterion 3 Due to unusual estuarine communities, reduced diversity and high productivity. Ramsar criterion 4 This site is important for the run of migratory fish between sea and river via estuary. Species include Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla anguilla</i>. It is also of particular importance for migratory birds during spring and autumn. Ramsar criterion 8 The fish of the whole estuarine and river system is one of the most diverse in Britain, with over 110 species recorded. Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla anguilla</i> use the Severn Estuary as a key migration route to their spawning grounds in the many tributaries that flow into the estuary. The site is important as a feeding and nursery ground for many fish species particularly allis shad <i>Alosa alosa</i> and twaite shad <i>A. fallax</i> which feed on mysid shrimps in the salt wedge.</p>



ID	Location	Site	Details
-	1824m SW	Name: Severn Estuary (Wales) Site status: - Data source: Natural Resources Wales	<p>Overview: The estuary's classic funnel shape, unique in Britain, is a factor causing the Severn to have the second-largest tidal range in the world (after the Bay of Fundy, Canada). This tidal regime results in plant and animal communities typical of the extreme physical conditions of liquid mud and tide swept sand and rock. The species-poor invertebrate community includes high densities of ragworms, lugworms and other invertebrates forming an important food source for passage and wintering waders.</p> <p>A further consequence of the large tidal range is the extensive intertidal zone, one of the largest in the UK, comprising mudflats, sand banks, shingle, and rocky platforms. Glassworts and annual sea-blite colonise the open mud, with beds of all three species of eelgrass <i>Zostera</i> occurring on more sheltered mud and sandbanks. Large expanses of common cord-grass also occur on the outer marshes. Heavily grazed saltmarsh fringes the estuary with a range of saltmarsh types present. The middle marsh sward is dominated by common saltmarsh-grass with typical associated species. In the upper marsh, red fescue and saltmarsh rush become more prominent.</p> <p>Ramsar criteria: Ramsar criterion 1 Due to immense tidal range (second-largest in world), this affects both the physical environment and biological communities. Habitats Directive Annex I features present on the pSAC include: H1110 Sandbanks which are slightly covered by sea water all the time H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritima</i>) Ramsar criterion 3 Due to unusual estuarine communities, reduced diversity and high productivity. Ramsar criterion 4 This site is important for the run of migratory fish between sea and river via estuary. Species include Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla anguilla</i>. It is also of particular importance for migratory birds during spring and autumn. Ramsar criterion 8 The fish of the whole estuarine and river system is one of the most diverse in Britain, with over 110 species recorded. Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla anguilla</i> use the Severn Estuary as a key migration route to their spawning grounds in the many tributaries that flow into the estuary. The site is important as a feeding and nursery ground for many fish species particularly allis shad <i>Alosa alosa</i> and twaite shad <i>A. fallax</i> which feed on mysid shrimps in the salt wedge.</p>

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



### 10.3 Special Areas of Conservation (SAC)

<b>Records within 2000m</b>	<b>1</b>
-----------------------------	----------

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on [page 84 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
1	39m SE	Severn Estuary (Wales)	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Reefs; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Sea lamprey; River lamprey; Allis shad; Twaite shad	Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	Natural Resources Wales

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

### 10.4 Special Protection Areas (SPA)

<b>Records within 2000m</b>	<b>3</b>
-----------------------------	----------

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on [page 84 >](#)

ID	Location	Name	Species of interest	Habitat description	Data source
2	314m SE	Severn Estuary (Wales)	Tundra swan; Common shelduck; Gadwall; Common redshank; Greater white-fronted goose; Dunlin	Coastal sand dunes, Sand beaches, Machair; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Salt marshes, Salt pastures, Salt steppes	Natural Resources Wales
3	567m NE	Severn Estuary (Wales)	Tundra swan; Common shelduck; Gadwall; Common redshank; Greater white-fronted goose; Dunlin	Coastal sand dunes, Sand beaches, Machair; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Salt marshes, Salt pastures, Salt steppes	Natural Resources Wales
-	1824m SW	Severn Estuary (Wales)	Tundra swan; Common shelduck; Gadwall; Common redshank; Greater white-fronted goose; Dunlin	Coastal sand dunes, Sand beaches, Machair; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Salt marshes, Salt pastures, Salt steppes	Natural Resources Wales



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

## 10.5 National Nature Reserves (NNR)

**Records within 2000m**

**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

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

## 10.6 Local Nature Reserves (LNR)

**Records within 2000m**

**2**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on [page 84 >](#)

ID	Location	Name	Data source
4	957m W	Cardiff Bay Wetlands And Hamadryad Park	Natural Resources Wales
-	1453m W	Cardiff Bay Wetlands And Hamadryad Park	Natural Resources Wales

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

## 10.7 Designated Ancient Woodland

**Records within 2000m**

**0**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

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

## 10.8 Biosphere Reserves

Records within 2000m

0

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

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

## 10.9 Forest Parks

Records within 2000m

0

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

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

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

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

## 10.11 Green Belt

Records within 2000m

0

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

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

## 10.12 Proposed Ramsar sites

Records within 2000m

0

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

*This data is sourced from Natural England.*



### 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

### 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

*This data is sourced from Natural England.*

### 10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

*This data is sourced from Natural England.*

### 10.16 Nitrate Vulnerable Zones

Records within 2000m

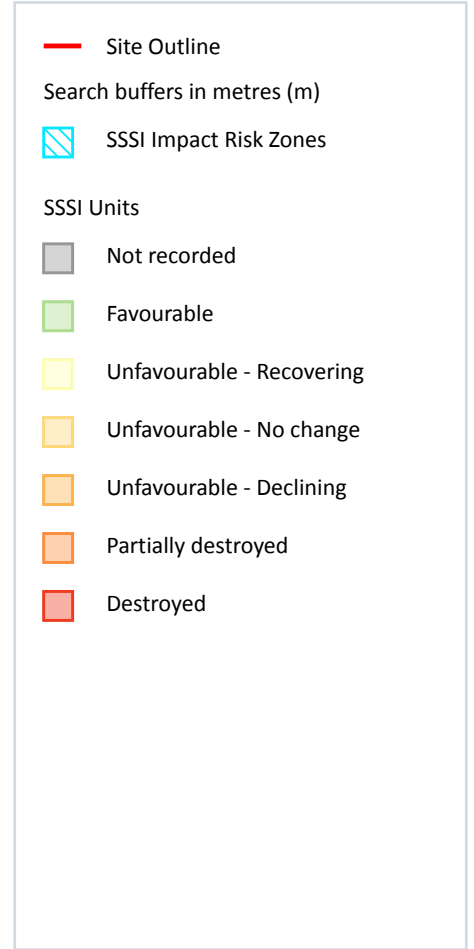
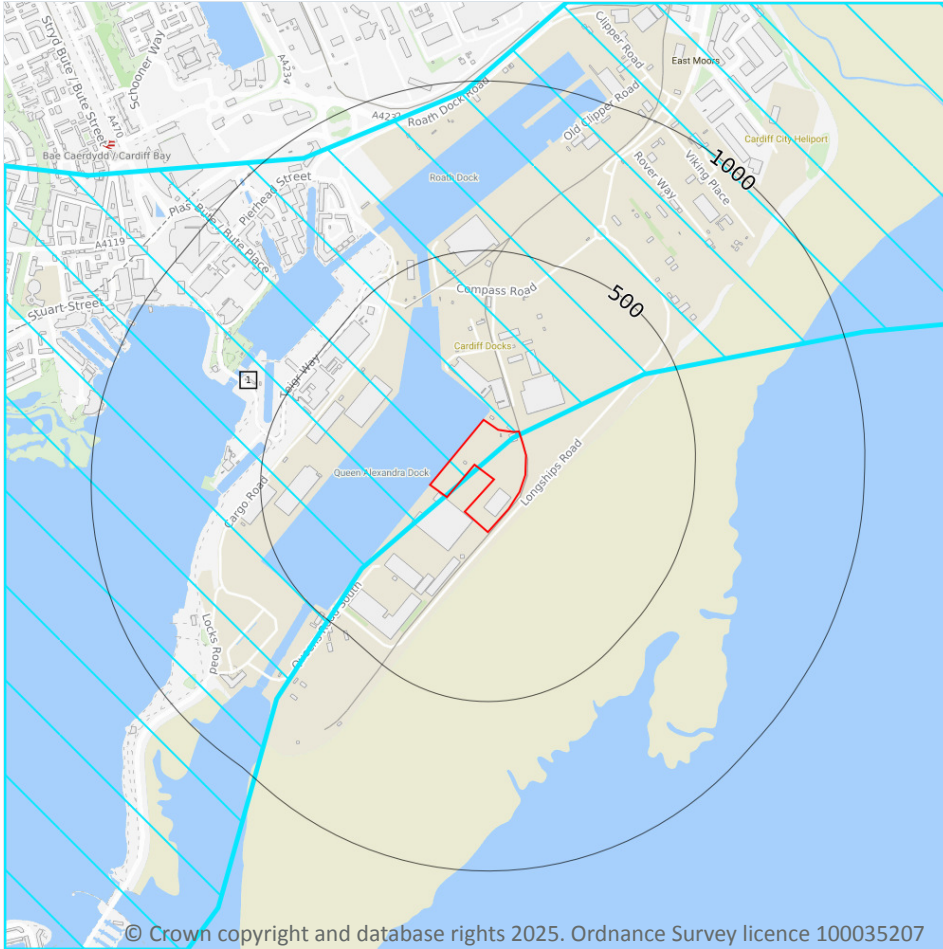
0

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

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



## SSSI Impact Zones and Units



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### 10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 92](#) >

ID	Location	Type of developments requiring consultation
1	On site	<a href="https://irz.geodata.org.uk/IRZ/step2.html?irzcode=3111221002000&amp;notes=&amp;location=325750,178700%20(IRZ%20polygon%20centre)">https://irz.geodata.org.uk/IRZ/step2.html?irzcode=3111221002000&amp;notes=&amp;location=325750,178700%20(IRZ%20polygon%20centre)</a>

This data is sourced from Natural England.

## 10.18 SSSI Units

Records within 2000m

0

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

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



## 11 Visual and cultural designations

### 11.1 World Heritage Sites

Records within 250m

0

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

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

### 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

### 11.3 National Parks

Records within 250m

0

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

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

### 11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



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

## 11.5 Conservation Areas

Records within 250m

0

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

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

## 11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

## 11.7 Registered Parks and Gardens

Records within 250m

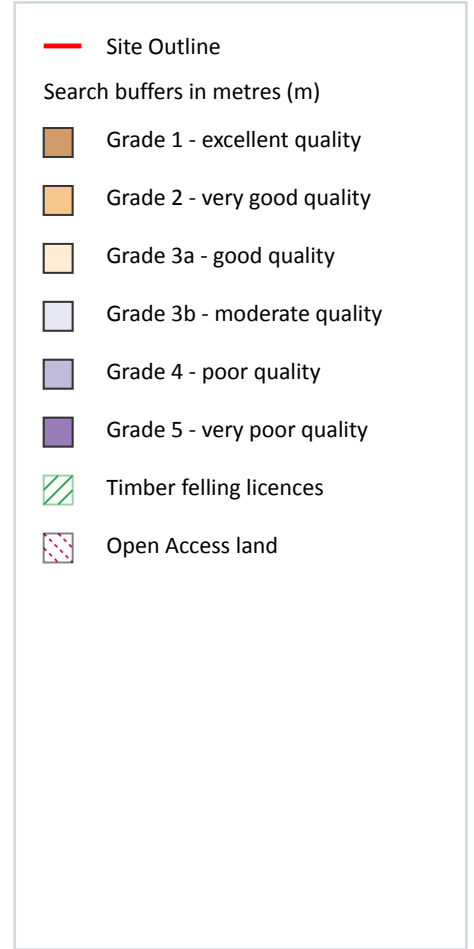
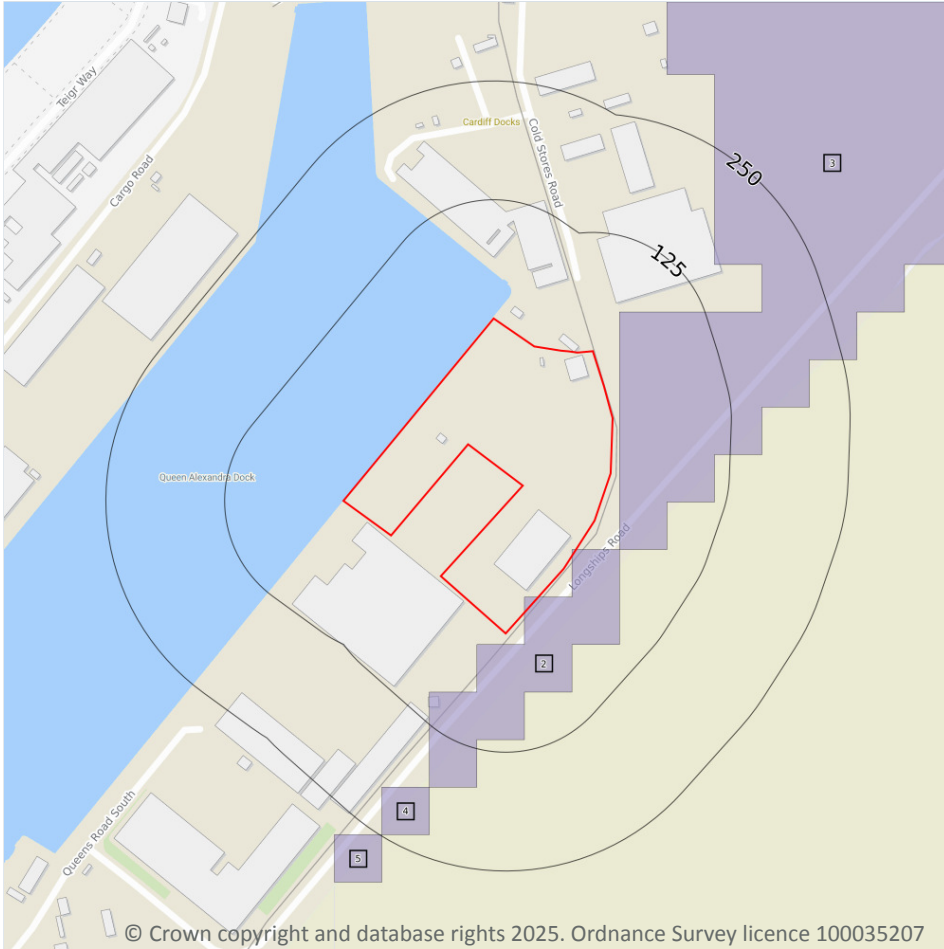
0

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

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



## 12 Agricultural designations



### 12.1 Agricultural Land Classification

Records within 250m

4

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 96](#) >

ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land
3	7m E	Grade 4	Poor quality agricultural land
4	181m SW	Grade 4	Poor quality agricultural land

ID	Location	Classification	Description
5	249m SW	Grade 4	Poor quality agricultural land

*This data is sourced from Natural Resources Wales.*

## 12.2 Open Access Land

Records within 250m

0

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

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

## 12.3 Tree Felling Licences

Records within 250m

0

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

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

Records within 250m

0

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

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

Records within 250m

0

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

*This data is sourced from Natural England.*



## 13 Habitat designations

### 13.1 Priority Habitat Inventory

Records within 250m

0

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

*This data is sourced from Natural England.*

### 13.2 Habitat Networks

Records within 250m

0

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

*This data is sourced from Natural England.*

### 13.3 Open Mosaic Habitat

Records within 250m

0

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

*This data is sourced from Natural England.*

### 13.4 Limestone Pavement Orders

Records within 250m

0

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

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



— Site Outline  
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

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### 14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 99](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

This data is sourced from the British Geological Survey.



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

### 14.2 Artificial and made ground (10k)

Records within 500m

0

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

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial

### 14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

*This data is sourced from the British Geological Survey.*

### 14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock

### 14.5 Bedrock geology (10k)

Records within 500m

0

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

*This data is sourced from the British Geological Survey.*

### 14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

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

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline  
 Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

Records within 500m

1

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

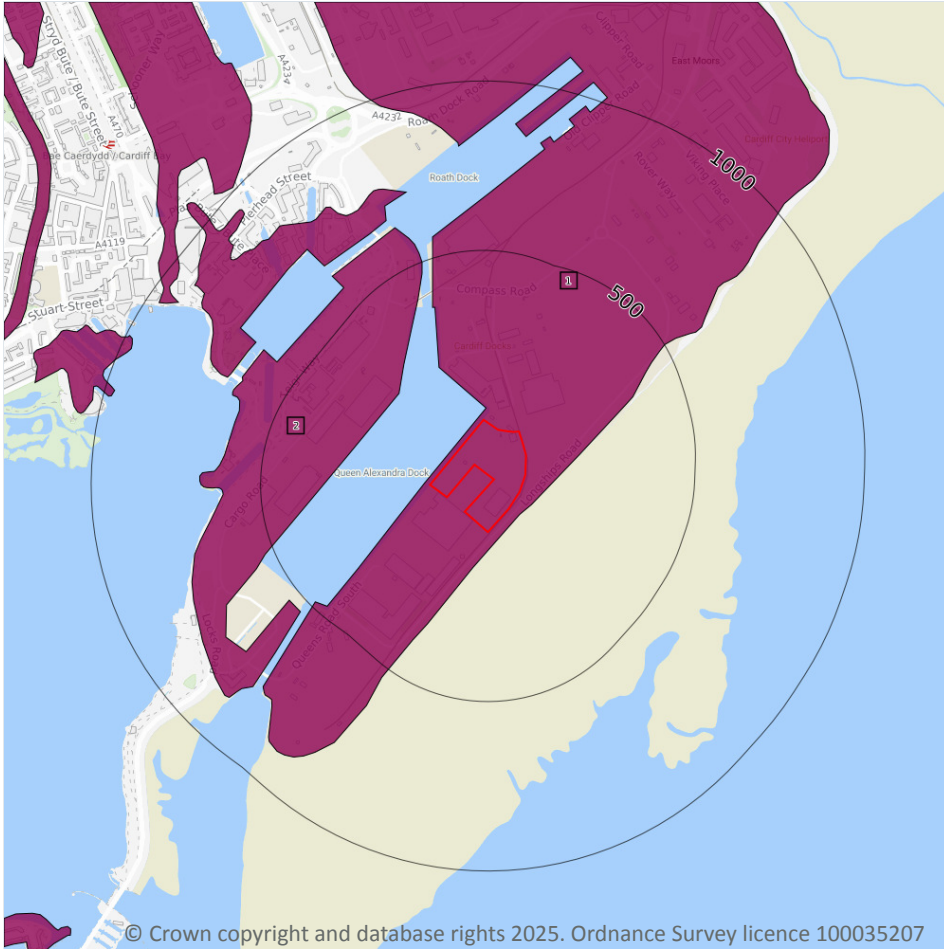
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 103](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW263_cardiff_v4

This data is sourced from the British Geological Survey.



## Geology 1:50,000 scale - Artificial and made ground



— Site Outline  
 Search buffers in metres (m)

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

### 15.2 Artificial and made ground (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 104 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	242m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

*This data is sourced from the British Geological Survey.*

### 15.3 Artificial ground permeability (50k)

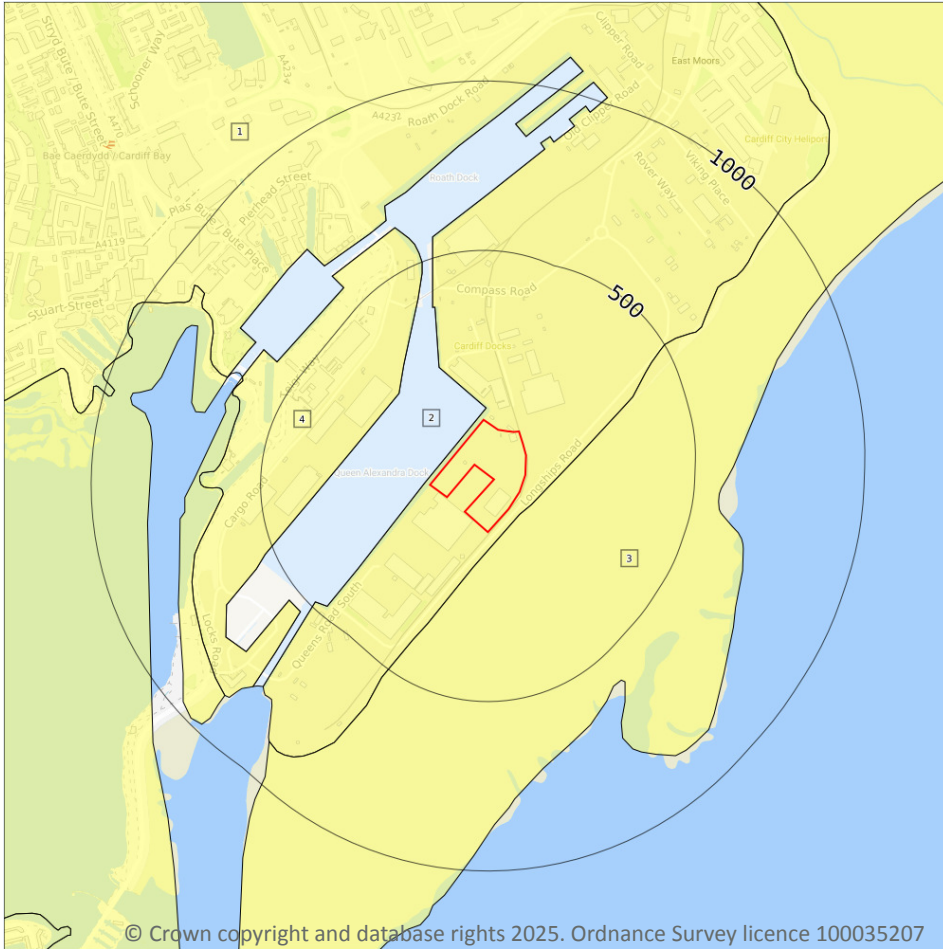
<b>Records within 50m</b>	<b>2</b>
---------------------------	----------


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

Location	Flow type	Maximum permeability	Minimum permeability
<b>On site</b>	<b>Mixed</b>	<b>Very High</b>	<b>Low</b>
9m W	Mixed	Very High	Low

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Superficial



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

### 15.4 Superficial geology (50k)

Records within 500m

4

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 106 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
2	16m NW	SUPNM-WATR	SUPERFICIAL THEME NOT MAPPED [FOR DIGITAL MAP USE ONLY]	WATER, TYPE UNSPECIFIED
3	35m SE	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND



ID	Location	LEX Code	Description	Rock description
4	242m NW	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND

*This data is sourced from the British Geological Survey.*

## 15.5 Superficial permeability (50k)

<b>Records within 50m</b>	<b>2</b>
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
<b>On site</b>	<b>Intergranular</b>	<b>Moderate</b>	<b>Very Low</b>
9m W	Intergranular	Moderate	Very Low

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

*This data is sourced from the British Geological Survey.*

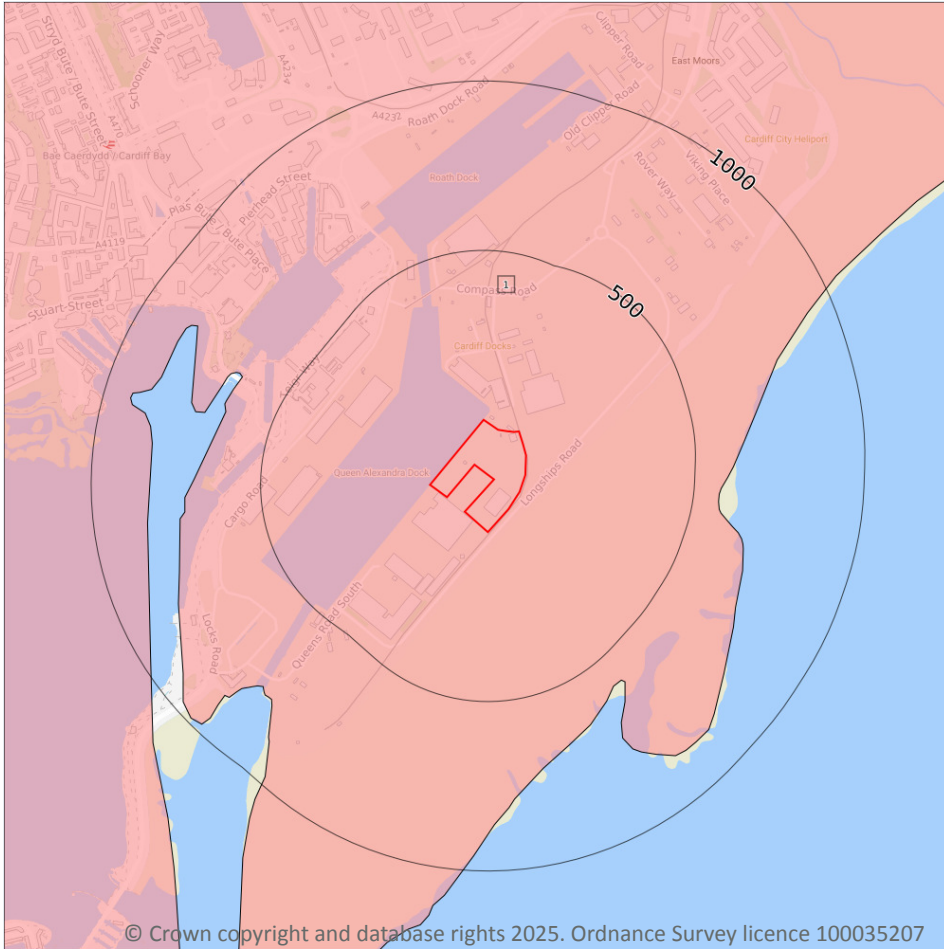
## 15.7 Landslip permeability (50k)

<b>Records within 50m</b>	<b>0</b>
---------------------------	----------

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

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)  
Please see table for more details.

### 15.8 Bedrock geology (50k)

Records within 500m

1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 108](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-

*This data is sourced from the British Geological Survey.*



## 15.9 Bedrock permeability (50k)

Records within 50m

2

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

Location	Flow type	Maximum permeability	Minimum permeability
<b>On site</b>	<b>Fracture</b>	<b>Low</b>	<b>Low</b>
9m W	Fracture	Low	Low

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

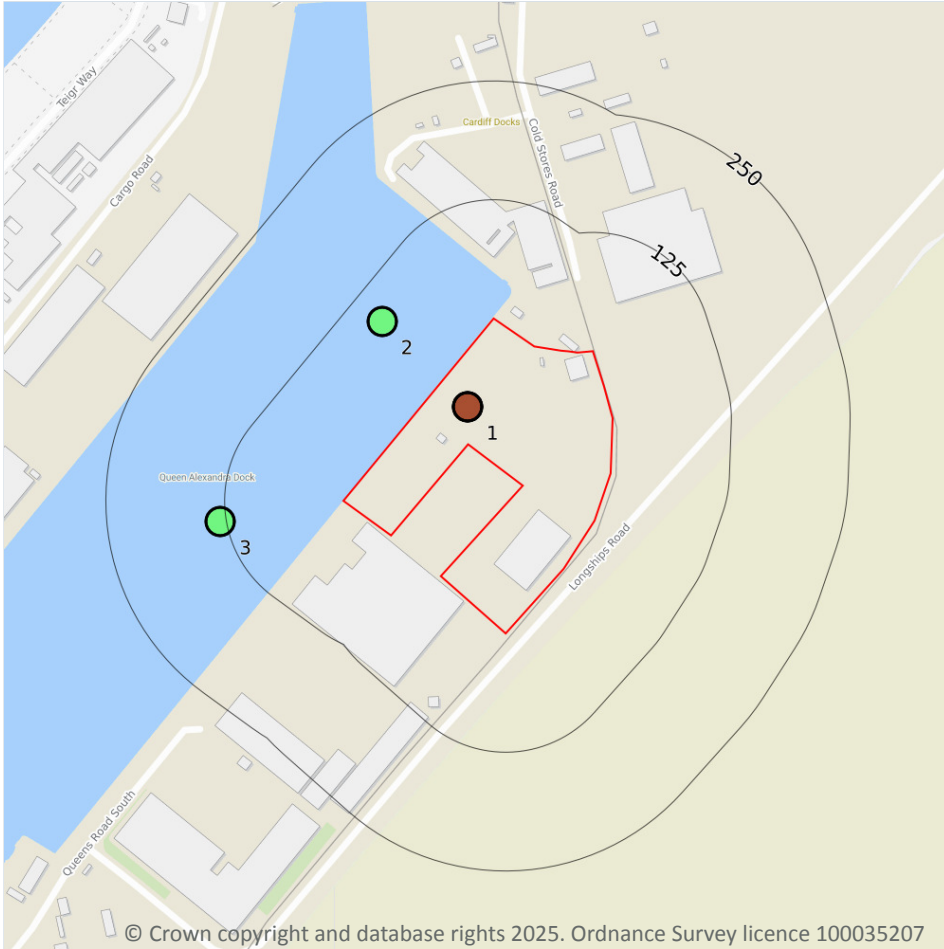
Records within 500m

0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*

## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

3

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

Features are displayed on the Boreholes map on [page 110 >](#)

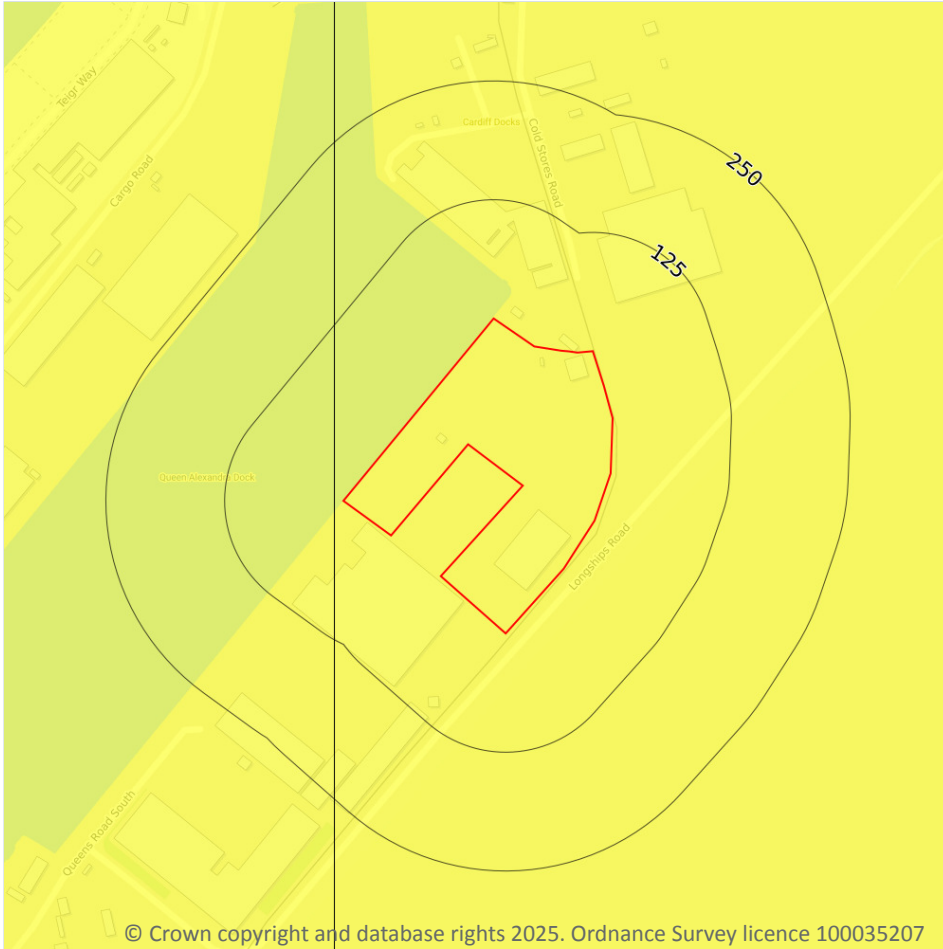
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	320140 174000	CARDIFF DOCKS ENTRANCE CHANNEL. NO.1	-1.0	N	<a href="#">382754 ↗</a>
2	89m NW	320050 174090	QUEEN ALEXANDRA DOCKS. 4	15.25	N	<a href="#">382751 ↗</a>
3	131m W	319880 173880	QUEEN ALEXANDER DOCKS. 3	13.41	N	<a href="#">380062 ↗</a>



*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



— Site Outline  
Search buffers in metres (m)

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

### 17.1 Shrink swell clays

Records within 50m

2

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

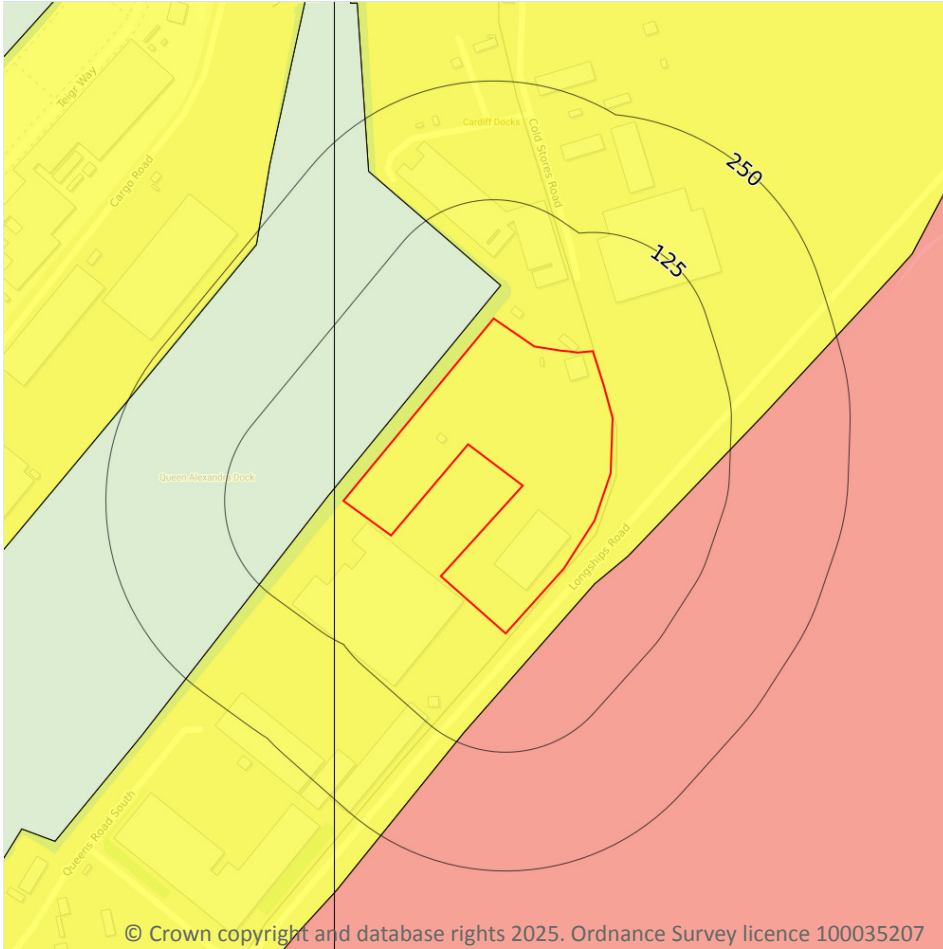
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 112 >](#)

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
10m W	Very low	Ground conditions predominantly low plasticity.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Running sands



— Site Outline  
Search buffers in metres (m)

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

### 17.2 Running sands

Records within 50m

4

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 113](#) >

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

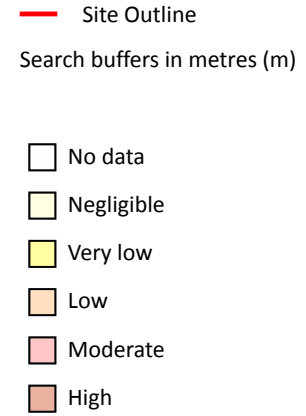
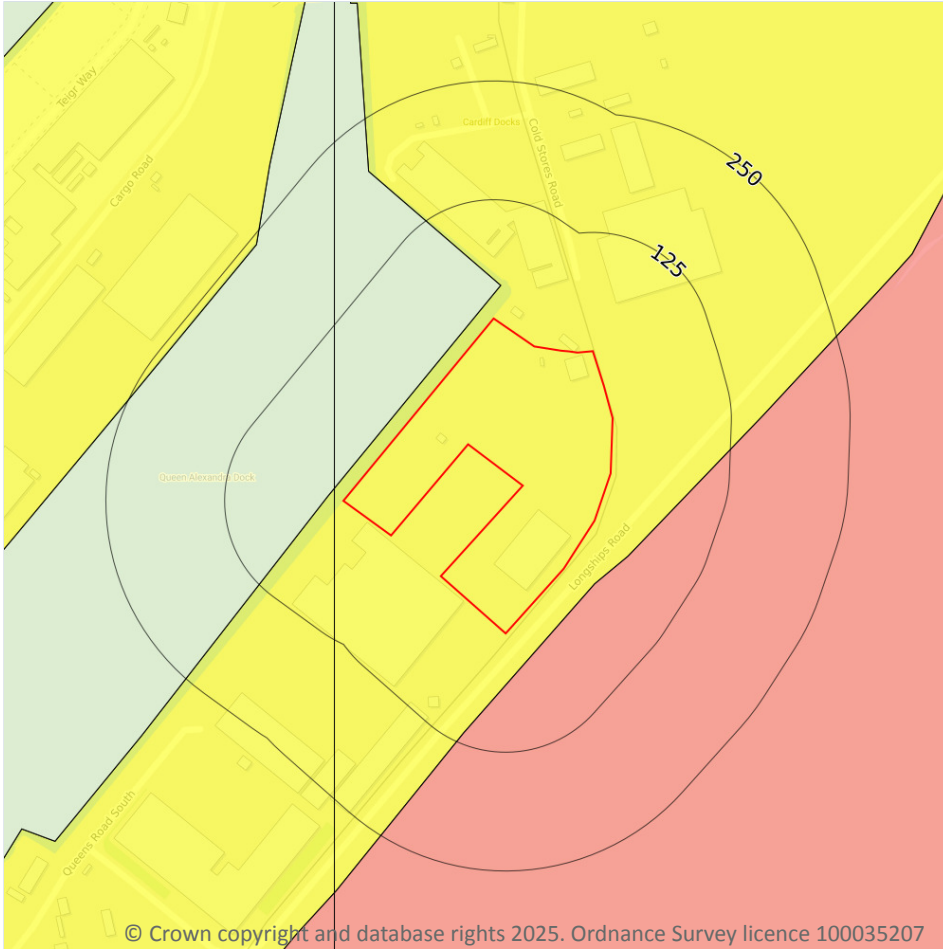


Location	Hazard rating	Details
10m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
16m NW	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
35m SE	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

Records within 50m

4

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 115 >](#)

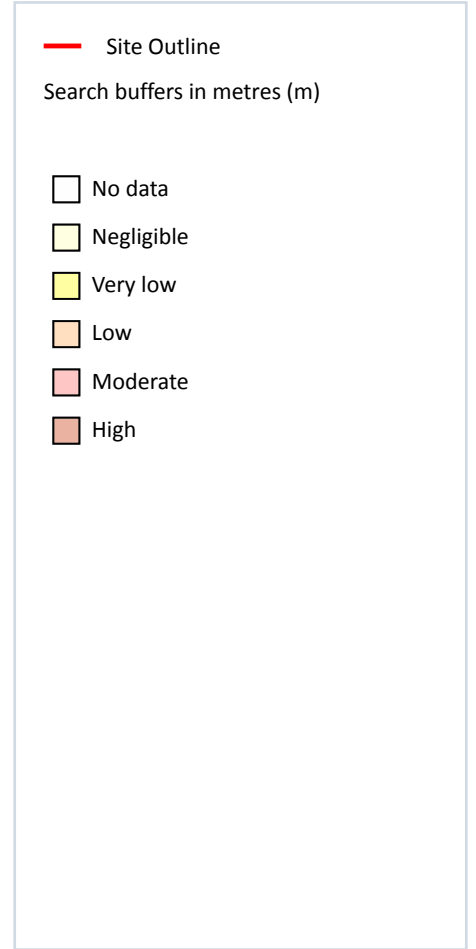
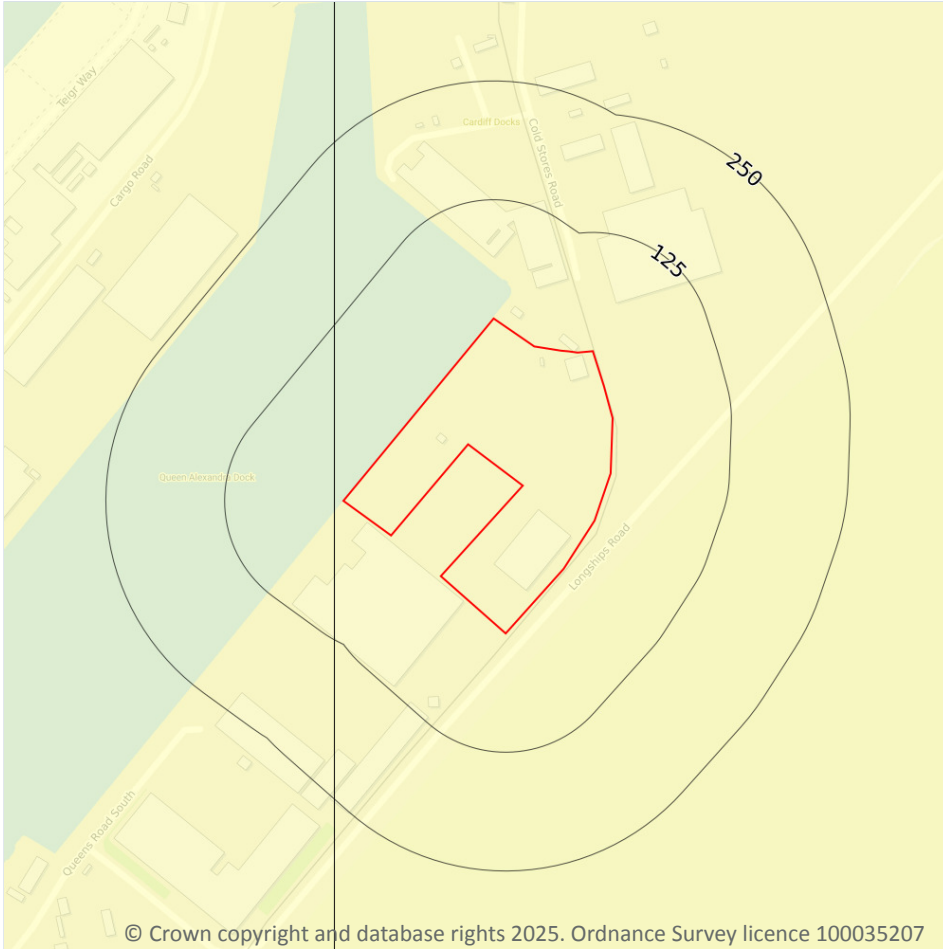
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
10m W	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
16m NW	Negligible	Compressible strata are not thought to occur.
35m SE	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

Records within 50m

2

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

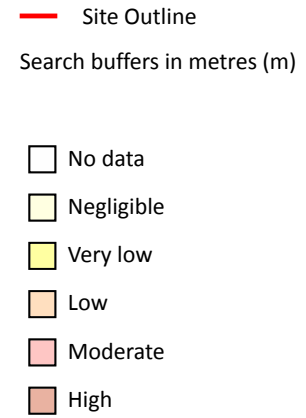
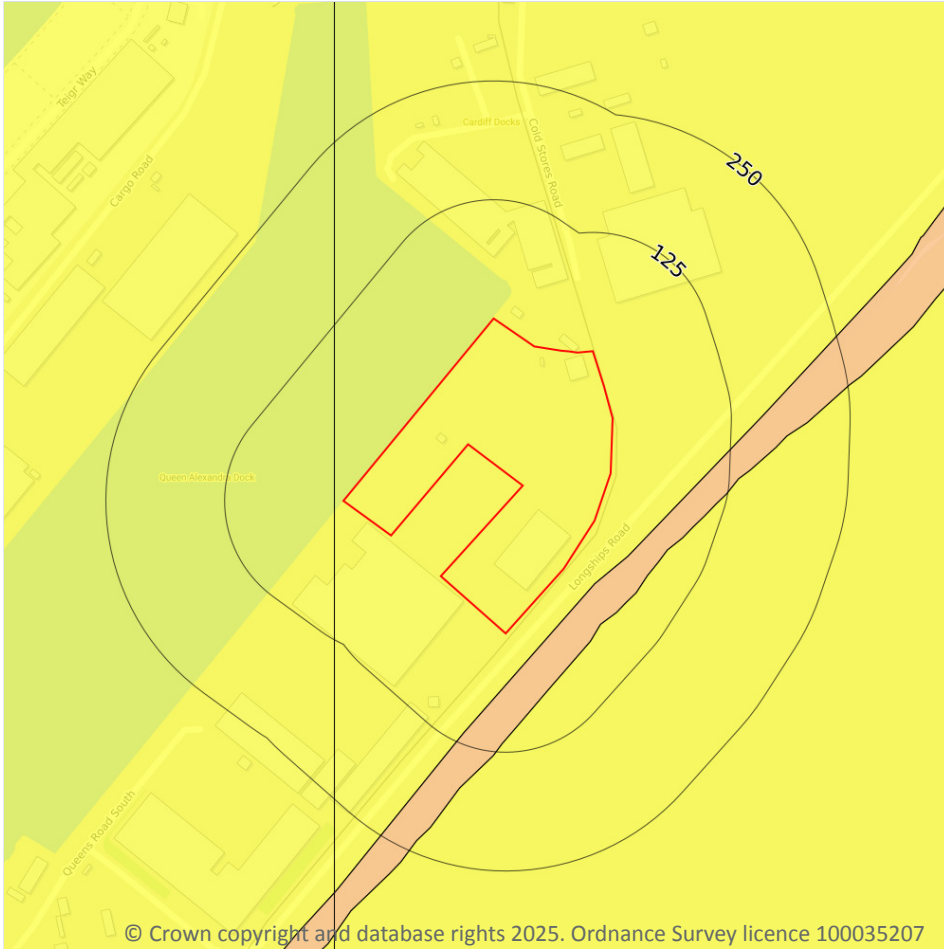
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 117 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
10m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



## Natural ground subsidence - Landslides



### 17.5 Landslides

Records within 50m

3

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 118](#) >

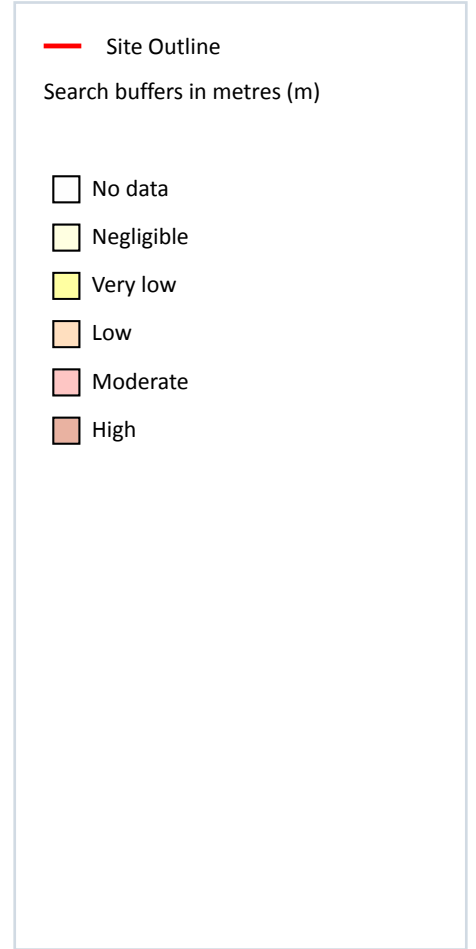
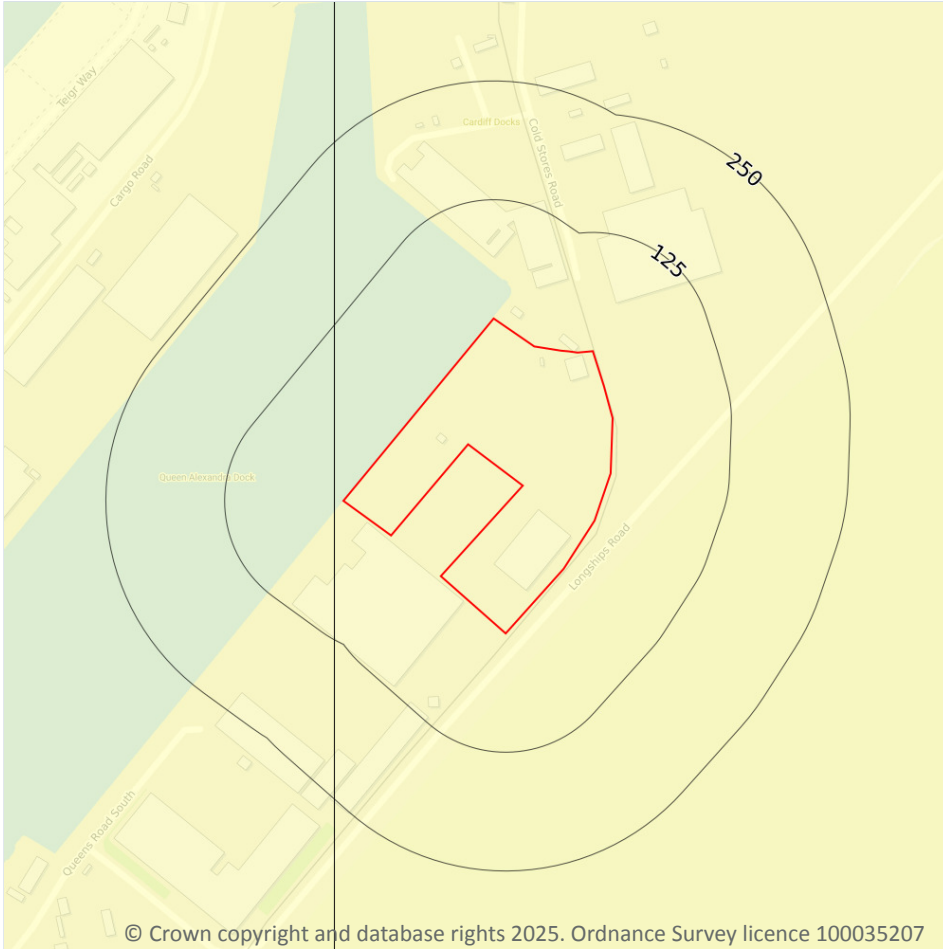
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
10m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
35m SE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 120 >](#)

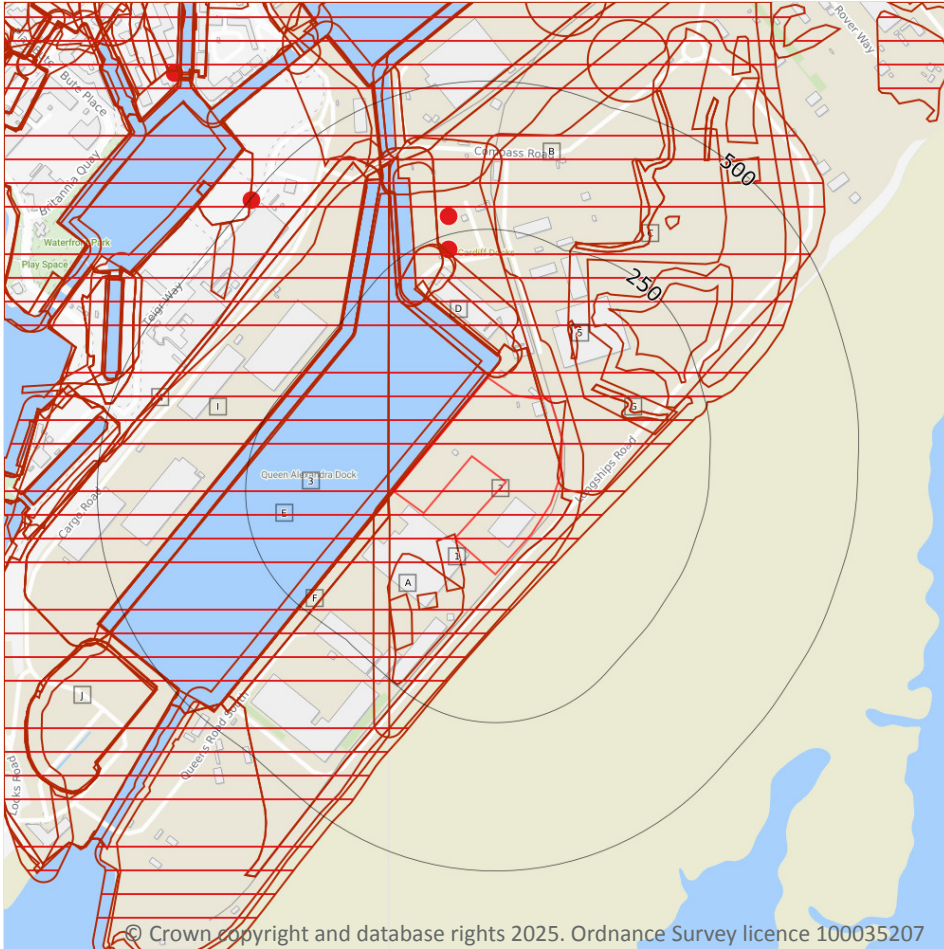
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
10m W	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

*This data is sourced from the British Geological Survey.*



## 18 Mining and ground workings



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

### 18.1 BritPits

Records within 500m

4

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

Features are displayed on the Mining and ground workings map on [page 122](#) >

ID	Location	Details	Description
6	227m N	Name: Empire Wharf Address: Queen Alexandra Docks, Cardiff Docks, CARDIFF, South Glamorgan Commodity: Marine Sand & Gravel Status: Ceased	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored or loaded from. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
L	280m N	Name: Empire Wharf Address: Coldstores Road, Cardiff Docks, CARDIFF, Glamorgan, CF10 4LW Commodity: Marine Sand & Gravel Status: Active	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored or loaded from. Status description: Site which is actively extracting a mineral, or in the case of wharfs and rail depots, is actively handling minerals
L	280m N	Name: Empire Wharf Address: Coldstores Road, Cardiff Docks, CARDIFF, Glamorgan, CF10 4LW Commodity: Crushed Rock Status: Active	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored or loaded from. Status description: Site which is actively extracting a mineral, or in the case of wharfs and rail depots, is actively handling minerals
Q	498m NW	Name: Roath Basin Address: Roath Basin, Cardiff Docks, CARDIFF, Glamorgan Commodity: Marine Sand & Gravel Status: Ceased	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored or loaded from. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

## 18.2 Surface ground workings

Records within 250m

34

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

Features are displayed on the Mining and ground workings map on [page 122](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Cuttings	1963	1:10560
2	On site	Dock	1992	1:10000
A	On site	Dock	1938	1:10560
A	On site	Dock	1938	1:10560
B	On site	Docks	1915	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
<b>B</b>	<b>On site</b>	<b>Docks</b>	<b>1922</b>	<b>1:10560</b>
<b>C</b>	<b>On site</b>	<b>Dock</b>	<b>1992</b>	<b>1:10000</b>
<b>3</b>	<b>On site</b>	<b>Dock</b>	<b>1947</b>	<b>1:10560</b>
D	5m NE	Unspecified Wharf	1992	1:10000
D	5m NE	Unspecified Wharf	1970	1:10000
E	9m W	Dock	1974	1:10000
E	9m W	Dock	1983	1:10000
E	9m W	Dock	1995	1:10000
F	15m SW	Unspecified Wharf	1974	1:10000
F	15m SW	Unspecified Wharf	1983	1:10000
F	15m SW	Unspecified Wharf	1995	1:10000
4	16m SW	Dock	1965	1:10560
D	40m NE	Unspecified Wharf	1963	1:10560
A	55m SW	Unspecified Pits	1970	1:10000
C	56m E	Unspecified Ground Workings	1915	1:10560
G	73m E	Unspecified Ground Workings	1938	1:10560
G	73m E	Unspecified Ground Workings	1938	1:10560
5	76m NE	Unspecified Ground Workings	1963	1:10560
A	89m SW	Cuttings	1963	1:10560
A	124m SW	Cuttings	1963	1:10560
H	169m NW	Unspecified Wharf	1963	1:10560
H	169m NW	Unspecified Wharf	1992	1:10000
H	169m NW	Unspecified Wharf	1970	1:10000
I	221m NW	Unspecified Wharf	1974	1:10000
I	221m NW	Unspecified Wharf	1983	1:10000
I	221m NW	Unspecified Wharf	1995	1:10000
I	221m NW	Unspecified Wharf	1965	1:10560
J	243m NW	Dock	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
J	243m NW	Dock	1938	1:10560

*This is data is sourced from Ordnance Survey/Groundsure.*

### 18.3 Underground workings

**Records within 1000m**

**0**

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

*This is data is sourced from Ordnance Survey/Groundsure.*

### 18.4 Underground mining extents

**Records within 500m**

**0**

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

*This data is sourced from Groundsure.*

### 18.5 Historical Mineral Planning Areas

**Records within 500m**

**0**

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

*This data is sourced from the British Geological Survey.*

### 18.6 Non-coal mining

**Records within 1000m**

**0**

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

*This data is sourced from the British Geological Survey.*



## 18.7 JPB mining areas

Records on site

0

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.8 The Coal Authority non-coal mining

Records within 500m

0

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

*This data is sourced from The Coal Authority.*

## 18.9 Researched mining

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

Records within 500m

0

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

*This data is sourced from Groundsure.*



### 18.11 BGS mine plans

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

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

*This data is sourced from Groundsure.*

### 18.12 Coal mining

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

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

*This data is sourced from the Coal Authority.*

### 18.13 Brine areas

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

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

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

### 18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

## 18.16 Clay mining

Records on site

0

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

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



## 19 Ground cavities and sinkholes

### 19.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.2 Mining cavities

Records within 1000m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.3 Reported recent incidents

Records within 500m

0

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

*This data is sourced from Groundsure.*

### 19.4 Historical incidents

Records within 500m

0

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

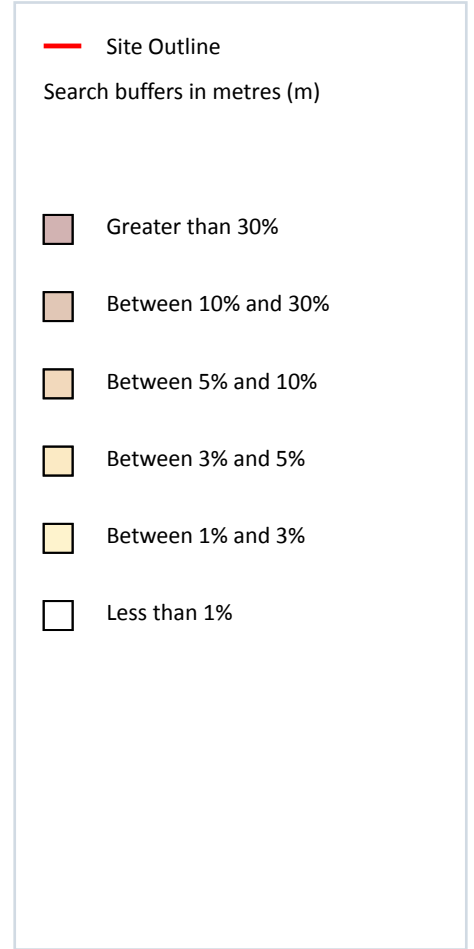
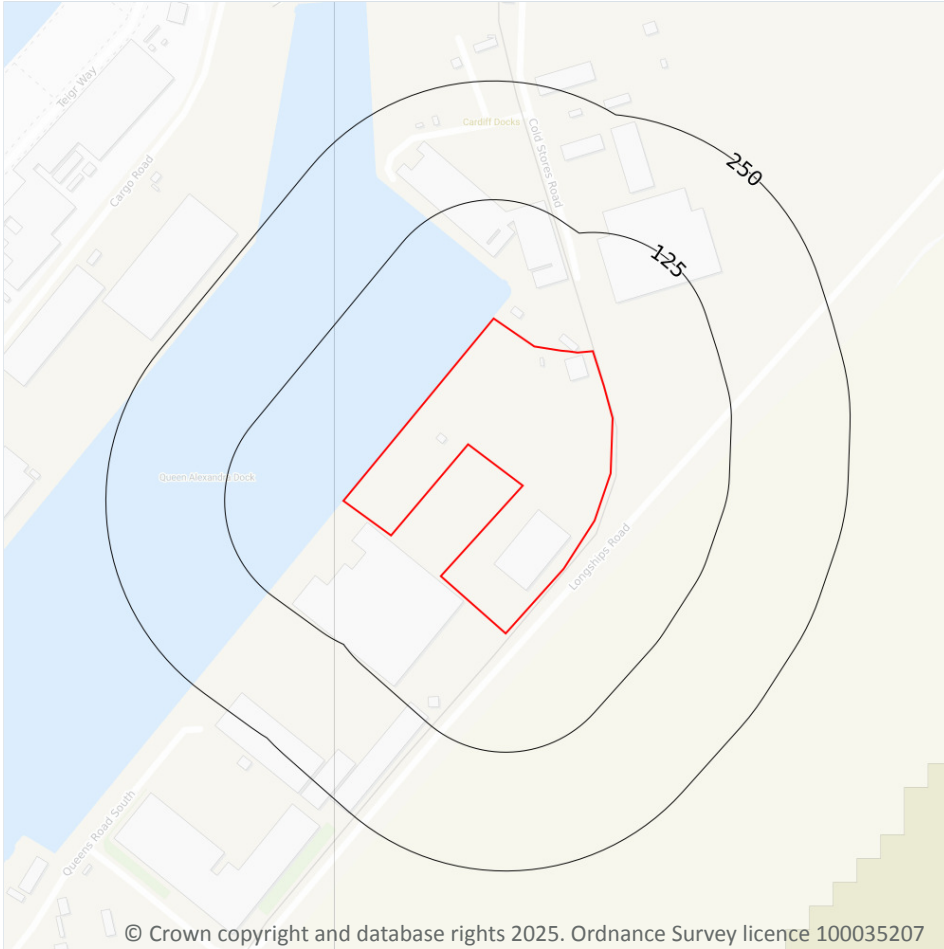
Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



*This data is sourced from Groundsure.*



## 20 Radon



### 20.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on [page 131 >](#)

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

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



## 21 Soil chemistry

### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m

9

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
9m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
9m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

*This data is sourced from the British Geological Survey.*

### 21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

20

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	18	3.2	113	78	0.3	393	44	191	11
On site	19	3.3	107	74	0.3	324	40	168	10
On site	20	3.5	109	75	0.4	305	44	160	10
On site	21	3.7	106	73	0.3	258	41	147	11
On site	21	3.7	75	52	0.6	220	41	130	7
On site	21	3.7	83	57	0.5	252	41	142	9
On site	22	3.8	127	87	0.3	221	44	140	12
On site	22	3.8	105	72	0.4	198	46	123	11
On site	22	3.8	110	76	0.3	221	43	133	11
On site	23	4	98	67	0.3	184	38	121	10
On site	23	4	102	70	0.3	198	39	129	10
7m N	18	3.2	121	83	0.3	422	43	195	12
7m E	19	3.3	74	51	0.7	316	42	169	7
9m W	25	4.4	139	95	0.3	150	47	114	13
10m W	25	4.4	122	84	0.3	152	44	110	12
10m E	18	3.2	74	51	0.6	387	40	187	7
18m E	20	3.5	72	49	0.7	267	41	155	7
24m NE	17	3	118	81	0.3	512	44	217	11
24m SW	23	4	113	78	0.3	174	43	115	12
50m NE	17	3	82	56	0.5	472	39	207	8

*This data is sourced from the British Geological Survey.*

### 21.3 BGS Measured Urban Soil Chemistry

**Records within 50m**

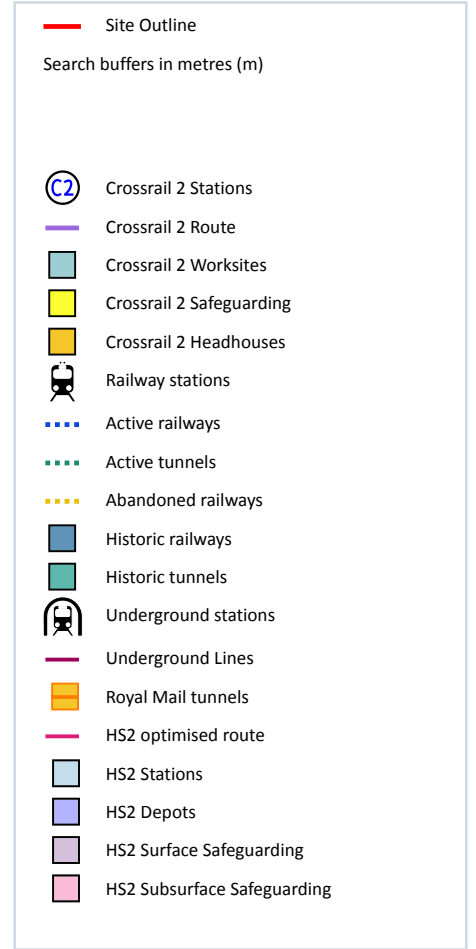
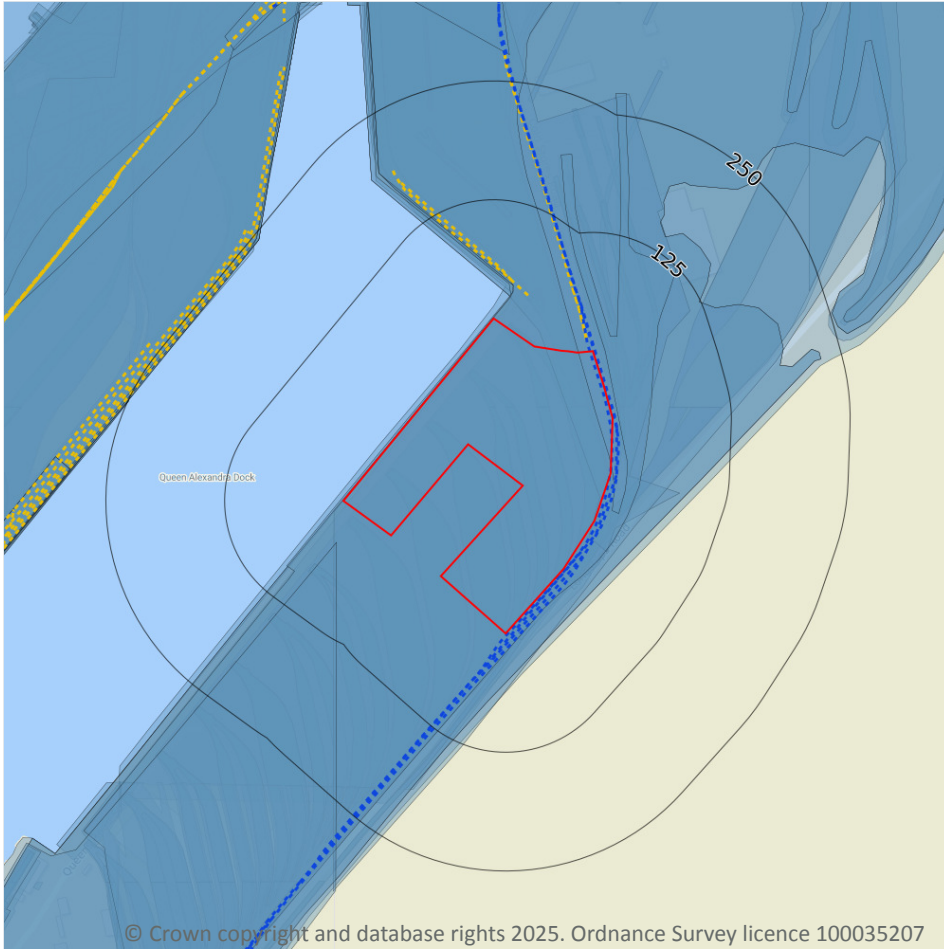
**0**

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 22 Railway infrastructure and projects



### 22.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

## 22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

## 22.4 Historical railway and tunnel features

Records within 250m

67

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on [page 135 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Mineral Railway Sidings	1970	10000
On site	Railway Sidings	1947	10560
On site	Railway Sidings	1915	10560
On site	Railway Sidings	1992	10000
On site	Railway Sidings	1963	10560
On site	Railway Sidings	1922	10560
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1953	1250
On site	Railway Sidings	1920	2500
On site	Railway Sidings	1942	2500
On site	Railway Sidings	1954	2500
On site	Railway Sidings	1968	2500
On site	Railway	1920	-
10m E	Railway Sidings	1968	1250
10m E	Railway Sidings	1953	1250
10m E	Railway Sidings	1968	2500
10m E	Railway Sidings	1954	2500



Location	Land Use	Year of mapping	Mapping scale
12m SE	Mineral Railway Sidings	1967	1250
13m SE	Mineral Railway Sidings	1967	2500
16m E	Railway Sidings	1968	1250
32m NE	Railway Sidings	1979	1250
35m NE	Railway Sidings	1993	1250
36m NE	Railway Sidings	1979	1250
36m NE	Railway Sidings	1988	1250
36m NE	Railway Sidings	1990	1250
37m NE	Railway Sidings	1988	1250
37m NE	Railway Sidings	1990	1250
37m NE	Railway Sidings	1990	1250
40m SW	Railway Sidings	1965	10560
55m NE	Railway Sidings	1993	1250
55m NE	Railway Sidings	1990	1250
55m NE	Railway Sidings	1988	1250
55m NE	Railway Sidings	1979	1250
62m E	Railway Sidings	1953	1250
71m SW	Railway Sidings	1954	2500
71m SW	Railway Sidings	1952	1250
75m NE	Railway Sidings	1993	1250
76m NE	Railway Sidings	1979	1250
76m NE	Railway Sidings	1988	1250
76m NE	Railway Sidings	1990	1250
107m N	Railway Sidings	1988	1250
107m N	Railway Sidings	1990	1250
107m N	Railway Sidings	1979	1250
133m N	Railway Sidings	1993	1250
138m SW	Railway Sidings	1954	2500



Location	Land Use	Year of mapping	Mapping scale
139m SW	Railway Sidings	1952	1250
143m N	Railway Sidings	1993	1250
177m N	Railway Sidings	1993	1250
191m NE	Railway Sidings	1979	1250
207m SW	Railway Sidings	1942	2500
207m N	Railway Sidings	1979	1250
208m SW	Railway Sidings	1919	2500
211m NE	Railway Sidings	1990	1250
211m NE	Railway Sidings	1988	1250
228m N	Railway Sidings	1979	1250
230m N	Railway Sidings	1968	1250
230m N	Railway Sidings	1953	1250
236m E	Railway Sidings	1953	1250
242m NW	Railway Sidings	1947	10560
243m NW	Railway Sidings	1993	1250
244m NW	Railway Sidings	1954	2500
244m NW	Railway Sidings	1953	1250
244m NW	Mineral Railway Sidings	1974	10000
244m NW	Mineral Railway Sidings	1969	1250
246m NW	Railway Sidings	1965	10560
249m NW	Railway Sidings	1941	2500
249m NW	Railway Sidings	1920	2500

*This data is sourced from Ordnance Survey/Groundsure.*

## 22.5 Royal Mail tunnels

**Records within 250m**

**0**

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



to track level.

*This data is sourced from Groundsure/the Postal Museum.*

## 22.6 Historical railways

**Records within 250m**

**7**

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

Features are displayed on the Railway infrastructure and projects map on [page 135 >](#)

Location	Description
11m N	Historical OSM
11m N	Abandoned
41m NE	Disused
45m NE	Disused
67m N	Historical OSM
245m NW	Disused
248m NW	Abandoned

*This data is sourced from OpenStreetMap.*

## 22.7 Railways

**Records within 250m**

**9**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on [page 135 >](#)

Location	Name	Type
<b>On site</b>		<b>rail</b>
1m E	Not given	Multi Track
2m E	Roath Branch	rail
3m SE	Not given	Multi Track
7m SE		rail
31m SW	Not given	Multi Track



Location	Name	Type
43m N	Not given	Single Track
171m SW	Not given	Multi Track
233m N	Not given	Single Track

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 22.8 Crossrail 2

**Records within 500m**

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 22.9 HS2

**Records within 500m**

**0**

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

*This data is sourced from HS2 Ltd.*



## Data providers

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

## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: [www.groundsure.com/terms-and-conditions-april-2023/](http://www.groundsure.com/terms-and-conditions-april-2023/) ↗.



## APPENDIX 2

### Phase II Site Investigation Report

(due to large file size please click link below: <https://acrobat.adobe.com/id/urn:aaid:sc:EU:6ee0cbb9-ddba-4992-81bc-beeb2cc81a62>)

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