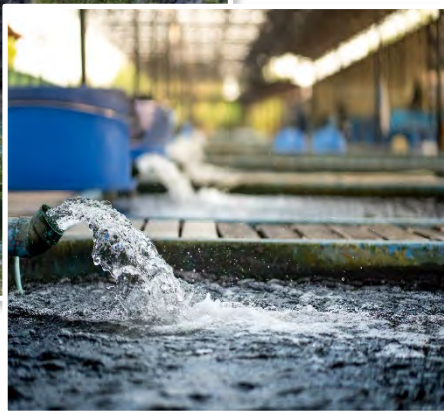


NGED Primary Substation

784-B069008



Geo-Environmental Desk Top Study



National Grid Electrical Distribution

April 2025

Document prepared by Tetra Tech Limited. Registered in England number: 01959704



Atlantic House Greenwood Close, Gate Business Park, Pontprennau, Cardiff CF23 8RD

Tetra Tech Limited. Registered in England number: 01959704

Registered Office: 3 Sovereign Square, Sovereign Street, Leeds, United Kingdom, LS1 4ER

DOCUMENT CONTROL

Document:	Geo-Environmental Desk Top Study
Project:	NGED Primary Substation
Client:	National Grid Electrical Distribution
Project Number:	784-B069008
File Origin:	\\lds-dc-vm-101\Data\Projects\784-B069008_NGED_substation_Newport_Docks\60_Output\61_WIP

Revision:	V1	Prepared by:	Kate Monaghan & Erin O'Brien
Date:	April 2025	Checked by:	Erin O'Brien
Status:	Draft	Approved By:	Sarah Roberts
Description of Revision:	First Draft		

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EXECUTIVE SUMMARY

The Site	The site comprises an electrical substation with a surrounding car park and grass area. The site is rectangular in shape, oriented lengthways northeast to southwest. The site is approximately 0.3ha area and is centred on National Grid Reference ST 31626 85810.
Site History	The earliest available OS mapping coverage for the area (dating back to 1882) shows the site as the area beside the docks, which is still relevant today. The surrounding site has undergone various changes and developments since the first available mapping in 1882, with agricultural land being developed into railways and commercial buildings. The surrounding site has undergone various changes and developments since the first available mapping in 1882, from 1900-1981 there is unspecified works which could be a potential cause of contamination. There was ongoing engineering works from 1922-1949, then unspecified wharf from 1882-1949.
Geology, Hydrogeology and Hydrology	BGS mapping indicates the site is underlain by Tidal Flat Deposits which overly bedrock strata of the Mercia Mudstone Group. The superficial Tidal Flat Deposits are classified as an 'Unproductive' Aquifer and the bedrock Mercia Mudstone is designated as a Secondary B Aquifer. The nearest surface water feature is the Alexandra Docks located to the west of the site, with the River Usk approximately 170m east.
Radon	The UK Radon mapping coverage for the site area was consulted and indicates that the site is located within an area where less than 1% of properties are affected by radon.
Unexploded Ordnance	Zetica indicates the site is at low risk from UXO.
Environmental Database Search	There are no recorded active integrated pollution controls or waste disposal, management and transfers within 250m of the site. There is record of one COMAH site within 500 m of the site boundary. There is a record of hazardous substance/storage 251m west of site. There are no records of explosives on or within 500m of the site. There are three Sites of Special Scientific Interest (SSSI) located within 2km of the site (River Usk, Gwent Levels and Severn Estuary). The site is not designated to be within a Special Area of Conservation, however the River Usk and Severn Estuary are SACs. There are six designated woodland areas and one Ramsar site (Severn Estuary) within 2km. The site is classified as being a negligible risk from flooding by rivers and seas and is at a negligible risk from groundwater flooding at both surface level and below ground level. There are no known flood defences within 250m of the site
Preliminary Geotechnical Assessment	Potential geotechnical challenges at the site include: • In ground obstructions (rail sidings); • Running Sands conditions whilst excavating in sand bands of the TFD; • Poor founding conditions and compressibility of TFD under loads; • Perched groundwater within TFD.

Preliminary Ground Contamination Assessment	Contaminants associated with construction of railways, buildings and steel manufacturing have all been considered, as well as ground gas from Made Ground. Heavy metals, fuels, oils, solvents and herbicides are associated with railways and will need to be investigated. PCBs associated with historical substations may be present. There is a risk that materials containing PFAS were stored / used on site whilst the bespoke steel manufacturer was operating, therefore this could be present in Made Ground and underlying groundwater and adjacent surface water. Risk of ground gas is low with no landfills on or surrounding site, however given the site surrounds it is possible ground gas is present within Made Ground or the Tidal Flat Deposits.
Recommendations	A ground investigation is recommended to provide the following: • Confirmation of ground conditions; • Assess presence/absence of contamination; • Install groundwater and ground gas monitoring wells with associated monitoring and sampling; • Undertake permeability testing within the Made Ground and TFD.

1.0 INTRODUCTION

1.1 INSTRUCTION

Tetra Tech Limited ('Tetra Tech') was commissioned by Burroughs on behalf of National Grid Electrical Distribution ('NGED') ('the client') to undertake a Geo-Environmental and Geotechnical Desk Top Study for NGED Primary Substation (known hereafter as "the site") to support a planning application for a new electrical substation.

The address of the site is Alexandra Docks, Newport NP20 2NP.

The location of the site is shown at Figure 1.

1.2 REPORT SCOPE

This report includes the following key elements:

- Site walkover.
- Desk Based Assessment to identify potentially contaminative land uses.
- A discussion of the current site status and key associated environmental influences observable by general visual inspection around the site.
- An historical site and area review, primarily referring to past editions of Ordnance Survey Maps.
- A discussion of the general expected ground and groundwater conditions within the topographical and area context referring to our own geological and hydrogeological maps library.
- Details of an Environmental database search (Groundsure report, Ref: GS-6WW-M79-C2N-K7Z) of key relevant agencies, including Local and Statutory Authorities such as Natural Resources Wales.
- A baseline UXO risk assessment using on-line databases to classify the site with regards to UXO risk.
- Development of a preliminary Conceptual Site Model (CSM).
- Preliminary geotechnical hazard assessment.
- Quantitative ground contamination risk assessment (compliant with CIRIA 552 methodology).
- Recommendations & Conclusions.

1.3 LIMITATIONS

The recommendations and opinions expressed in this report are based on information obtained as part of the walkover, desk study or provided by others. Information provided from other sources is taken in good faith and Tetra Tech cannot guarantee its accuracy.

This report is subject to the report conditions presented in Appendix A.

The information contained in this report is intended for the use of the National Grid Electrical Distribution and Tetra Tech can take no responsibility for the use of this information by any third party or for uses other than that described in this report or detailed within the terms of our engagement.

2.0 SITE INFORMATION

2.1 LOCATION

The site is part of the wider Alexandra Docks located in Newport, South Wales. The site is rectangular in shape and is orientated lengthways northeast to southwest. The site is approximately 0.3ha in area and is centred on National Grid Reference ST 31626 85810.

The site address is: Alexandra Docks, Newport, NP20 2NP.

A site location plan is presented in Figure 1 and the proposed development plans are enclosed.

2.2 GENERAL AREA CONTEXT

Table 2-1 - Surrounding land uses

Direction	Description
Northwest	To the immediate north of site is an unnamed warehouse with associated car parking areas. The East Way Road trends broadly northwest to southeast. Howard Tenant Logistics is present to the north followed by the A48 which broadly trends east-west.
North East	The northeastern boundary of the site lies adjacent to the East Way Road followed by an area of hardstanding and the River Usk. A railway line is present trending broadly northwest to southeast and cuts across the East Way Road immediately east of site.
South East	To the south of site lies the Alexandra Docks Road followed by industrial warehouses and Alexandra Docks.
South West	To the west of the site is Alexandra Docks and various commercial businesses including Farrall's Group, Burt Boulton & Haywood and 29 th Newport Sea Scouts HQ.

2.3 SITE DESCRIPTION

A site walkover was undertaken by an experienced Geo-Environmental Consultant on Tuesday 8th April 2025. A series of photographs are presented in Appendix C and are cross referenced in the following section.

2.3.1 Current Site Usage

The site in its entirety is situated within Alexadra Dock area which is owned and managed by Associated British Ports (ABP). The site was formerly used for bespoke steel manufacturing but is no longer occupied and is derelict with the exception of the current substation building. There are two buildings and two shipping containers that were used for the storage of materials and as office use. These buildings were locked and not entered during the visit (Plate 13).

There is an active electrical substation (Plate 6, plate 7) with associated parking at the exterior (Plate 8). Alexandra docks to the west with an asphalt road, 'Alexandra Docks Road' (Plate 3) around the perimeter of the site (Plate 1, Plate 5,). An area comprising industrial warehouses are present to the north of site.

2.3.2 Access and Boundaries

The main access to the site is located to the south, via the Alexandra Docks Road off the East Way Road (Plate 2). There is a chain link fence surrounding most of the site but with missing panels along the southern extent of the site permitting access (Plate 12).

2.3.3 Topography

A 2D Topographical Survey was completed by Luciun Survey Ltd in April 2025 (Drawing nr. 670414 0) and is provided in Appendix D.

The site is largely level, between approximately 8.80m AOD and 9.10m AOD and a very slight incline to the north. The East Way Road and Alexandra Docks Road is approximately level at around 9m AOD. As Alexandra Docks Road veers northwards, the level increases slightly to around 9.2m AOD in line with the north of site. The height of the mesh fence surrounding site is approximately 1.80m.

2.3.4 Ground Cover and Vegetation

The majority of the site is covered in poor condition hardstanding comprising asphalt of differing age and weathering, along with areas of concrete hardstanding (Plate 9). There is an area of softscape within the western extent of the site which comprises of several railway tracks (Plate 4, Plate 5).

Made Ground materials comprising of brick, concrete, wood and plastic was observed in the western area of the site (Plate 1).

There is small area of concrete in the western extent of the site adjacent to a tree. A tall set of steel lights is situated in this area on a concrete pad.

2.3.5 Drainage

There are several drainage assets on site. We understand that a CCTV survey is to be undertaken in due course.

2.3.6 Services

As far as is known, all underground services which formerly serviced the onsite buildings are no longer live, with the exception of the electrical sub-station.

A water main is shown to enter site under the site access track to the southeast. Four high voltage (132kV) overhead lines are present and crossing the access track road from north to south immediately northwest of the former coal stockyard. An underground high pressure (>7bar) gas pipe is located immediately north of site from the southwest and is shown to trend northeast.

2.3.7 On-Site Structures and Fuel Tanks

On Site Structures

There is one electrical substation located on site, and several other small buildings and storage containers. Former railway tracks are present in the western extent of the site.

Fuel Tanks

There are no records of fuel tanks being stored on the site or within 50m. There are three records of unspecified historical tanks recorded within 50m of site. Table 2-2 presents the details of the recorded tanks within 50m of site.

Table 2-2 Summary of historical tanks within 50m of site

Land Use	Location	Date
Tanks	46m NW	1976 - 1993
Unspecified tank	46m NW	1955 – 1966
Tanks	46m NW	1966 - 1971

An above ground storage tank was located just off the northern boundary of the site within a bunded area adjacent to the main warehouse. It was not possible to inspect this tank during the site visit, however a photo is shown in Plate 15. At the time of the visit, a GD tanker has been filled from this tank. Tetra tech do not know the contents of the tank or any further details.

2.3.8 Electrical Substations

An electrical substation is present within site bounds in the centre of the site (Plate 6, Plate 7).

2.3.9 Asbestos Containing Materials

No evidence of asbestos containing materials were noted on the site walkover. However, given the age of the development on site asbestos containing materials below ground level cannot be discounted.

3.0 SUMMARY OF PREVIOUS INVESTIGATIONS

There are no known previous ground investigation reports available for within site bounds, however one Asbestos Survey Report from 2019 has been provided and is summarised in Section 3.1.

3.1 ASBESTOS SURVEY REPORT (2019)

An asbestos demolition survey was commissioned for Marine Shipping Services (UK) Ltd (The 'Client') and undertaken by Bridgend Asbestos Services Ltd in July 2019. The survey was conducted over one single storey structure with a flat roof, which comprised the offices.

The report indicated that asbestos was strongly presumed within the floor tiles, ceiling tiles, wall panels, window putty, roof felt covering and sink pads in the kitchen, with chrysotile as the suspected asbestos type. Recommendations were to inform & manage; remove where asbestos has been positively identified.

The report concluded all asbestos containing materials must be removed prior to the demolition works and disposed of at a licensed site.

4.0 GEOLOGY, HYDROGEOLOGY AND HYDROLOGY

4.1 GEOLOGY

Details of the geology underlying the site have been obtained from the following sources:

- British Geological Survey (BGS) Sheet Number 249: Newport
- BGS website (British Geological Survey, 2023)
- Environmental database (Groundsure™) presented in Appendix B.
- UK Radon Mapping (UK Radon, 2025);;
- Coal Authority Interactive Mapper (The Coal Authority, 2023);

4.1.1 Made Ground / Artificial Ground

No areas of Made Ground / Artificial ground are recorded on site from BGS mapping / Groundsure, however it is expected in association with the construction of historical railways, substations and business use.

Made Ground is associated with potentially contaminated material, unpredictable engineering conditions and instability.

4.1.2 Superficial Geology

The BGS mapping records the entirety of the site to underlain by strata associated with Tidal Flat Deposits of Clay and Silt, which are anticipated to consist of unconsolidated sediments, mainly mud and/or sand.

BGS lexicon lithological description states *‘Tidal flat deposits, including mud flat and sand flat deposits, form extensive nearly horizontal marshy land in the intertidal zone that is alternately covered and uncovered by the rise and fall of the tide. They consist of unconsolidated sediment, mainly mud and/or sand. They may form the top surface of a deltaic deposit.’*

4.1.3 Solid Geology

The underlying bedrock strata is comprised of the Mercia Mudstone Group which is defined by the BGS lexicon as *‘Dominantly red, less commonly green-grey, mudstones and subordinate siltstones with thick halite-bearing units in some basinal areas. Thin beds of gypsum/anhydrite are widespread; thin sandstones are also present. Mid Triassic (Anisian) to latest Triassic (Rhaetian)’*.

4.1.4 Historical Borehole Logs

The Groundsure Report and British Geological Survey (BGS) interactive viewer shows no boreholes present on site. The closest record available is 0.5km southwest of the site, across the Alexandra Docks. A summary of the borehole is presented in Table 4-1.

Table 4-1 Historical Borehole Description

Borehole	Details
BGS Reference	ST38NW329
Date	March 2000

National Grid Reference	331488, 185523
Geology	GL – 1.75m bgl: MADE GROUND comprising mixed lithologies 1.75m – 13.25 m bgl (base): TIDAL FLAT DEPOSITS largely comprising CLAY with bands of SAND
Groundwater	Groundwater strike at 2.05m bgl with standing level at 8.10m bgl

4.1.5 BGS Soil Chemistry

The Groundsure Report provides Urban Soil Chemistry averages for soils within 50m of the site (source: Urban Soil and Soil Chemistry data provided by the British Geological Survey). The BGS estimated background soil chemistry provide the likely background concentration of the potentially harmful elements provided in the Table 4-2.

Table 4-2 – BGS Background Soil Chemistry Averages

Determinand	Soil Concentration Range	
	Minimum (mg/kg)	Max (mg.kg)
Arsenic	15	15
Cadmium	1.80	1.80
Chromium	60	90
Lead	100	100
Nickel	15	30
Bioaccessible Lead	60	60

There were no records for BGS estimated or measured urban soil chemistry.

4.2 HYDROGEOLOGY

4.2.1 Aquifer Classification

The Superficial Deposits (Tidal Flat Deposits) on and surrounding the site are designated as an unproductive aquifer. These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

The Bedrock strata on and surrounding the site are designated as ‘Secondary B’ which are 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.

4.2.2 Groundwater Vulnerability

Guidance released by the EA (Environment Agency, March 2017) states that activities that have the potential to affect the quality or quantity of groundwater must prevent groundwater pollution. All groundwater is

vulnerable to pollution, and some geological formations are more vulnerable than others. The risks of groundwater pollution from any given activity depend in part on:

- The physical, chemical and biological properties of the underlying soil and rocks;
- Depth and quality of soil;
- The presence of glacial sediment and other materials – known as ‘drift’ deposits; and,
- Depth of the unsaturated zone.

All of the above affect how groundwater is more or less vulnerable to pollution, with type of vulnerability generally one of the following:

- Intrinsic vulnerability – this relates to the physical characteristics, it includes soil type, presence of superficial soils, or rock type; and,
- Specific vulnerability – this relates to the effect of the proposed activity including any contaminant and consequent risk to groundwater.

A review of the Groundwater Vulnerability Maps for Wales has revealed that the bedrock strata is categorised as ‘Secondary Aquifer – low’ for the entirety of the site be The Tidal Flat Deposits are classified as unproductive.

Low vulnerability soils are defined *‘as 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’*.

4.2.3 Groundwater Source Protection Zones

The EA defines groundwater Source Protection Zones (SPZs) around identified abstractions to aid the assessment of risk to groundwater or abstraction sources from development. SPZs have three subdivisions and bespoke SPZs are defined for all major abstraction sources intended for human consumption or food use, e.g. boreholes and springs. These sub-divisions are defined as follows:

- SPZ1 – Inner protection zone - defined as the 50-day travel time from any point below the water table to the abstraction source. This zone has a minimum radius of 50 metres;
- SPZ2 – Outer protection zone - defined by a 400-day travel time from a point below the water table. This zone has a minimum radius of 250 or 500 metres around the abstraction source, depending on the size of the abstraction;
- SPZ3 – Source catchment protection zone - defined as the area around an abstraction source within which all groundwater recharge is presumed to be discharged at the abstraction source.

The site is not shown to be situated within a Natural Resource Wales (NRW) defined groundwater SPZ.

4.2.4 Depth to Groundwater and Anticipated Groundwater Flow Direction

Local groundwaters are likely to be influenced by the historical redevelopments and alterations in topography within the general area.

The Alexandra Docks are located to the west of the site and the River Usk is to the east, the tidal flats are made up of clay which are low permeability. The general groundwater flow directions are anticipated to be towards the River Usk.

4.2.5 Groundwater Abstractions

The Groundsure Report indicates there are no groundwater abstractions within 2km of site.

It should be noted that abstractions of less than 20m³/d are classified as Private Water Supplies (PWS) and do not require an abstraction licence from NRW. Therefore, smaller abstraction boreholes may not be recorded.

4.2.6 Surface Water Abstractions

The Groundsure Report indicates that there are two surface water abstractions within 2km of site, which are summarised in Table 4-3.

Table 4-3 Surface Water Abstractions

Location	Details	
829m W	Status: Historical Licence No: 20/56/11/0013 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: DOCK FEEDER AT PILLGWENLLY TO WHITEHEAD Data Type: Point Name: Corus UK Ltd Easting: 330800 Northing: 186100	Annual Volume (m3): - Max Daily Volume (m3): - Original Application No: - Original Start Date: 22/10/1973 Expiry Date: - Issue No: 102 Version Start Date: 17/04/2000
1831 W	Status: Active Licence No: WA/056/0061/0004 Details: Transfer between Sources (Post Water Act 2003) - Very Low Direct Source: River Ebbw Point: - Data Type: Point Name: - Easting: 329752 Northing: 185652	Annual Volume (m3): 0 Max Daily Volume (m3): - Original Application No: - Original Start Date: 24/11/2022 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

4.2.7 Water Framework Directive

According to the Water Framework Directive (WFD) the site is located within SE Valleys Eastern Devonian Old Red Sandstone (GB40902G204700) groundwater body which is classified by the WFD in 2015 as:

- Overall Rating: Good
- Chemical Rating: Good

- Quantitative Rating: Good

4.3 HYDROLOGY

Details of the hydrology of the area have been obtained from the following sources:

- MAGIC interactive mapping website (DEFRA, 2023);
- Google Earth Pro Software (Google, 2025),
- Environmental database (Groundsure™) GS-6WW-M79-C2N-K7Z

4.3.1 Watercourses

The Groundsure report and Google Earth Imagery show no surface water features located on site, with the Alexander docks are the nearest water features which lies 46m to the west of the site.

The River Usk is approximately 170m to the east of the site.

There are 7no. total water features within 250m of the site presented in Table 4-4.

Table 4-4 Surface Water Abstractions

Location	Type of Water Feature	Ground Level	Permanence	Name
167m E	Tidal river or stream.	On ground surface	Watercourse contains water year-round (in normal circumstances)	Afon Wysg
174m E	Tidal river or stream.	On ground surface	Watercourse contains water year-round (in normal circumstances)	Afon Wysg
174m E	Tidal river or stream.	On ground surface	Watercourse contains water year-round (in normal circumstances)	-
232m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year-round (in normal circumstances)	-
238m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year-round (in normal circumstances)	-
239m N	Tidal river or stream.	On ground surface	Watercourse contains water year-round (in normal circumstances)	-

Location	Type of Water Feature	Ground Level	Permanence	Name
239m N	Tidal river or stream.	On ground surface	Watercourse contains water year-round (in normal circumstances)	-

The Natural Resources Wales Water Watch Map Gallery shows that the site is located with the Usk catchment which is classified under the Water Framework Directive (WFD) Cycle 3 for Overall Water Body and Chemical Status as “Good” for 2015-2021 inclusive.

One WFD surface water body catchment covers the entirety of site, which is the coastal catchment in Operational Catchment Usk below Abergavenny.

4.3.2 Surface Water Abstractions

The Groundsure Report shows there are no current surface water abstractions are recorded within 1km of the site boundary. two historical record is located <1km for of an annual abstraction of 20,000m³ Full details of the records are detailed in Table 4-5.

Table 4-5 Summary of Surface Water Discharge Consents within 2km of the site.

Location & Direction	Licence No	Source	Point	Easting, Northing	Max Daily Volume	Original Start date
829m W	20/56 /11/0 013	EAW Surface water	Dock feeder at Pillgwenlly to Whitehead	330800, 186100	-	22/10/1973
1831m W	WA/0 56/00 61/00 04	River Ebbw	-	329752, 185652	-	24/11/2022

4.3.3 Discharge Consents

The Groundsure Report outlines that there are 30No. records of licensed discharges to controlled water within 500m of the site, of which 11No. are ‘effective’. Table 4-6 outlines details of the effective licensed discharges. All other consent records within 500m of the site are presented in Appendix B.

Table 4-6 Summary of Surface Water Discharge Consents within 200m of the site.

Location and Direction	Address	Details
113m NE	PREMISES AT NEWPORT DOCKS, PREMISES AT NEWPORT DOCKS, NEWPO RT, NEWPORT CBC, WALES, NP202NP	PREMISE SAT NEWPORT DOCKS, PREffluent Type: - Permit Number: AN0033353 Permit Version: 0 Receiving Water: RIVER USK Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -

Location and Direction	Address	Details	
117m E	PREMISES AT NEWPORT DOCK, PREMISES AT NEWPORT DOCK, NEWPORT, GWENT, WALES, NP9 2NP	Effluent Type: - Permit Number: AN0033354 Permit Version: 0 Receiving Water: RIVER USK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
182m NW	PREMISES AT NEWPORT DOCK , PREMISES AT NEWPORT DOCK, NEWPORT, NEWPORT CBC, WALES, NP20 2NP	Effluent Type: - Permit Number: AN0033318 Permit Version: 0 Receiving Water: NORTH DOCK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
189m W	TRADE EFFLUENT TREATMENT @ BB HLTD, BURTBOULTON&HAYWOOD L TD, ALEXANDRA DOCK, NEWPORT, GWENT, NP20 2WA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: GB3593HE Permit Version: 0 Receiving Water: ALEXANDRA DOCK	Status: Effective Issue date: 02/03/2015 Effective Date: 02/03/2015 Revocation Date: -

4.3.4 Pollution Incidents and Prosecutions

Data sourced from Natural Resource Wales and the Groundsure Report shows there was 5No. Pollution Incidents and Prosecutions within 500m of the site. There have been no pollution incidents reported on site or within 200m by NRW. 4No. incidents have been reported >200m and details are presented in Table 4-7.

Please note that since 2006, this database no longer includes Category 3 and 4 incidents.

Table 4-7 Summary of Pollution Incidents and Prosecutions over 200m of the site.

Location and Direction	Details	
227m SW	Incident Date: 13/02/2015 Incident Identification: 1313670 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
309m SE	Incident Date: 05/08/2024 Incident Identification: 2411203 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: No Details Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
311m E	Incident Date: 06/09/2010 Incident Identification: 819952 Pollutant: Oils and Fuel Pollutant Description: Crude Oil	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
393m W	Incident Date: 25/07/2013	Water Impact: -

Location and Direction	Details	
	Incident Identification: 1138878 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
396m E	Incident Date: 04/05/2011 Incident Identification: 881869 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)

4.4 RADON

Mapping provided by UK Radon was consulted and indicates that the site is located in an area where less than 1% of properties are above the action level for radon. This statement is supported by the Groundsure Report (Appendix B) which confirms that the site is in a low probability radon area. As such, radon protection measures are not considered necessary on the site.

4.5 HISTORICAL MINING

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.

One historical BritPit is recorded 373m south of site relating to the Newport Wharf, Marine Sand & Gravel.

4.5.1 Non-Coal Related Mining

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).

The BGS states '*underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.*'

4.6 BGS RECORDED MINERAL SITES

With reference to the Environmental Database (Groundsure™) and the BGS Geoindex database, there are no BGS recorded mineral sites are recorded within 1km of the site.

4.7 SURFACE GROUND WORKINGS

Surface ground workings are 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. 7No. onsite features which are presented in Table 4-7, and 20No. features are reported by the GroundSure report

within 250m of the site. There are an additional 3No. surface ground workings within 500m of the site boundary, 1No. adjacent to Fiftoots Point and 2no to the northeast.

Table 4-8 Summary of Surface Ground Workings on site

Location	Land Use	Years of Mapping	Mapping scale
On site	Docks	1882	1:10,560
On site	Docks	1949	1:10,560
On site	Docks	1938	1:10,560
On site	Docks	1922	1:10,560
On site	Docks	1981	1:10,000
On site	Dock	1965	1:10,560
On site	Dock	1973	1:10,000

5.0 UNEXPLODED ORDNANCE

Based on freely available mapping data from Zetica UXO (Zetica UXO, 2008), the site is located within a Low Risk Area with regards to Unexpected Ordnance (UXO). A 'Low Risk' is defined by Zetica as:

"Low risk regions are those with a bomb density of up to 10 bombs per 1000 acres. These areas are considered to have a significant but low UXB risk. In general, further action to mitigate the risk is considered prudent, although not essential. Care is required when assessing the risk for specific site where the risk may be higher because of local wartime activity."

The Zetica UXO website does indicate that an area south of site was a Luftwaffe Target.

6.0 SITE HISTORY

6.1 INTRODUCTION

The historical development of the site and surrounding area has been assessed using information available from historical Ordnance Survey (OS) maps within the Groundsure Report for the site which is presented in Appendix B of this report.

In the context of the summary of historical development of the surrounding area, the descriptions are limited to within approximately 500m of the site boundary, unless specified in the following section.

6.2 SITE HISTORY

6.2.1 Detailed Analysis of Site History

Table 6-1 provides a detailed account of the review of available OS mapping coverage and historical aerial imagery for the site and general area dating back to 1882.

Table 6-1 – Summary of Historical Data

Map Date & Scale	Within Site Boundary	Surrounding Area
1882 OS Map (1:2,500)	The earliest available maps indicate that the site has railway tracks running through the entirety of the site broadly trending northwest-southeast, which forms part of the wider Alexandra Dock Railway	The site is shown to have several industrial processes in its surrounds. Alexandra Dock is already built and in the same location as present. 'Lock's' are present approximately 450m to the southeast of site and connects Alexandra Dock to the River Usk. Graving Dock is present approximately 500m south of site. 'Durham Engine Works' is present approximately south southwest of site on the other side of Alexandra Docks. Several railway tracks which form part of the 'Alexandra Dock Railway' split into different locations along Alexandra Dock to the west. A number of Wharfs are present to the northeast, including Cork Wharf, Wagon Wharf and Rhos Llantwit Wharf. To the north lies a built-up area comprising commercial businesses and residential dwellings. The River Usk lies to the east followed by agricultural fields
1887 OS Map (1:2,500) and 1900 OS Map (1:10,560)	No significant changes in land use are recorded.	A new dock, 'South Dock' has been built to the south of Alexandra Dock, with a Pond further south. Two new landing stages to the east of River Usk on the far bank have been constructed.

Map Date & Scale	Within Site Boundary	Surrounding Area
1920-22 OS Map (1:10,560) and 1949-1950 Map (1:10,560)	Additional railway tracks have been built across site, and a small building is present to the centre-east of site.	To the North, 'Neptune Works' has replaced several Wharfs and only Cork Wharf remains. Alexandra Dock is now labelled as 'North Dock', with South Dock renamed to Alexandra Dock, and the Pond from earlier mapping now extended to form the new South Dock. The railway has been renamed to 'Alexandra, Newport and South Wales Railway'. 'Lucks' is now part of Graving Docks.
1938	No significant changes in land use are recorded.	Coronation Park has been built to the east on the far side of the River Usk
1949 – 1950 (1:10,569)	Unclear imagery, however a second, smaller building looks to have been constructed in the west of site.	No significant changes in land use are recorded.
1964-65 OS Map (1:10,560)	No significant changes in land use are recorded.	Cork Wharf has been demolished. Graving Dock appears to no longer connect to the River Usk.
1973 (1:10,000)	No significant changes in land use are recorded.	Cold Harbour Reach is present along the River Usk.
1981 (1:10,000)	Arrangement of rail lines has altered from the previous mapping.	No significant changes in land use are recorded.
1985 (1:10,000)	Arrangement of rail lines has altered from the previous mapping	Fewer railway tracks and development to the west side of the docks.
2001 (1:10,000)	There fewer railway tracks present on site and the number of buildings has increased from two to four.	Reduction in railway tracks surrounding the site.
2003 (1:1,250)	There is a further reduction in railway lines.	There has been development of a commercial building to the northwest of the site. The transit shed to the South seems to have been demolished.
2010 (1:10,000)	Remaining railway tracks are no longer observed on site. No other changes are noted.	To the south a new building has been constructed.
2025 OS Map (1:10,000)	Four buildings are shown on the site with open area around them.	Some development of buildings to the south of the site, no significant changes.

6.2.2 Summary of Site History

The earliest available OS mapping coverage for the area (dating back to 1882) shows the site as the area beside the docks, which is still relevant today.

The surrounding site has undergone various changes and developments since the first available mapping in 1882, largely railways and commercial buildings.

7.0 ENVIRONMENTAL DATABASE SEARCH

7.1 INTRODUCTION

Regulatory authority information relevant to the site and its surroundings has been obtained from the undertaking of an environmental database search (Groundsure™). The information is summarised below, and the environmental database records are enclosed in Appendix B. Distances stated are approximate and are taken from the boundary of the site to the database recorded entries.

The following summary is generally limited to locations within 250m of the site boundaries unless it is considered that installations or activities beyond that range could potentially have an impact on the site or be affected by the redevelopment of the site.

7.2 POLLUTION CONTROLS

The Groundsure Report indicates that no Pollution Control records are available within 500m of site.

7.3 WASTE

No landfills are present on site, and no active or recent landfills are recorded within 500m of site. 3No. historical landfills are recorded within 500m of site from LA/Mapping Records and EA/NRW Records, details are presented in Table 7-1.

Table 7-1 Summary of historical landfills 500m from site

Location	Details	Site Reference	Waste Type	Record	Operator
464m NE	Alexandra Docks, Newport	-	Refuse tip	1965	-
471M NE	Alexandra Docks, Newport	-	Refuse tip	1967	-
468M NE	Next to transporter bridge, Newport	-	Industrial, Household	-	-

Waste Sites

There is one record of a historical waste site within 500m of site, and 7no. records of licensed waste sites within 500m of site. Waste Sites are detailed in Table 7-2.

Table 7-2 Summary of Licensed Waste Sites

Location	Details	Waste Management License No.	Waste Type	Record	Operator
366m SW	Land East of West way Road, Alexandra Docks,	-	Waste Transfer Station	01/05/2012	-

Location	Details	Waste Management License No.	Waste Type	Record	Operator
	Newport, NP20 2WD				
484m E	Newport oil treatment plant	-	Household, commercial & industrial	Issue Date: 12/01/2018	Slicker recycling limited
484m E	Eco Oil Ltd	-	Chemical treatment facility	Issue date 08/01/2008 Expiry date 29/10/2007	Mr Robert Oakley
484m E	Eco Oil Ltd	30164	Chemical treatment facility	Issue date 25/05/1995 Modified 19/11/2001	Eco Oil Ltd
484m E	Eco Oil Ltd	30164	Waste transfer station	Issue date 25/05/1995 Modified 19/11/2010	Eco Oil Ltd
497m E	Newport oil treatment plant	0	Other Landfill Site taking Special Waste	Issue date 29/05/2013	Eco-Oil Limited
484m E	Eco oil Ltd	300010	Chemical treatment facility	Issue date 01/08/2008	Mr Robert Oakley

7.4 HAZARDOUS SUBSTANCES

Table 7-3 outlines records relating to the storage and use of Hazardous Substances within 250m of the site boundary.

Table 7-3 Summary of Hazardous Substances within 500m of the Site

Type	Details
Control of Major Hazards Sites (COMAH)	Located 161m SW, Application reference number: No Details Application status: Approved Application date: No Details Address: Burt Boulton & Haywood Limited, Newport, Alexandra Dock, Newport, Gwent, NP20 2WA.
Regulated Explosive Sites	None recorded.

Hazardous Substance storage / usage	Located 251m W, Application reference number: No Details Application status: Approved Application date: No Details Address: Burt Boulton and Haywood Ltd, Alexandra Dock, Newport, Gwent, NP20 2WA.
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The Groundsure report indicates that there are no COMAH/NIHHS sites or regulated explosive sites within 250 m of the site boundary.

7.5 ENVIRONMENTALLY SENSITIVE AREAS

Table 7-4 outlines the environmentally sensitive areas within 2km of the site. The Groundsure report presented in Appendix B provides further details.

Table 7-4 Summary of Environmentally Sensitive Areas within 2km of site

Designation	Location and Name	Details
Nitrate Vulnerable Zone (Surface Waters)	-	None recorded.
Nitrate Vulnerable Zone (Groundwater)	-	None recorded.
Special Protected Areas	1,685m S	Severn Estuary
Sites of Special Scientific Interest	90m NE	River Usk – Natural Resources Wales
	1,329m SW	Gwent Levels – St Brides
	1,625m S	Severn Estuary
Sites of Special Scientific interest Impact Risk Zone	-	None recorded.
Special Areas of Conservation	90m NE	River Usk - Estuaries; Intertidal mudflats and sandflats; Atlantic salt meadows; Rivers with floating vegetation - Improved grassland; Dry grassland, Steppes; Inland water bodies - Natural Resources Wales
	1,685m S	Severn Estuary - Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Reefs; - Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons - Natural Resources Wales
Adopted green belt	-	None recorded.
Green belt	-	None recorded.
Nature Reserve	-	None recorded.
Local Nature Reserve	-	None recorded.
Designated Ancient Woodland	1,720m SW	Unknown - Restored Ancient Woodland Site

Designation	Location and Name	Details
	1,862m SW	Unknown - Ancient Woodland Site of Unknown Category
	1,870m W	Unknown - Restored Ancient Woodland Site
	1,966m W	Unknown - Ancient Semi Natural Woodland
	1,983m SW	Unknown - Restored Ancient Woodland Site
	1,986m W	Unknown - Ancient Semi Natural Woodland
Conserved Wetland Sites (Ramsar)	1.6km S	Name: Severn Estuary, Site Status: Unknown.

7.6 FLOODING

The chance of flooding from rivers and/or the sea is summarised in Table 7-5

Table 7-5 Summary of Flooding Potential

Designation	Details
Risk of Flooding from Rivers and Seas	The site itself is not a risk however, 0-50m from site is listed as 'Medium' to 'High'.
Historical Flood Events	None recorded.
Flood Defences	None recorded.
Areas Benefiting from Flood Defences	None recorded.
Flood Storage Areas	None recorded.
River and coastal flooding - Flood Zone 2	18m SW - Fluvial /Tidal Models.
River and coastal flooding - Flood Zone 3	18m SW - Fluvial /Tidal Models.
Flooding at Surface (from Groundwater)	Negligible risk on site and within 50m
Flooding below Ground Level (from Groundwater)	Negligible on site and within 50m
Flooding from Surface Waters	On site: Negligible, within 50m of site: 1 in 100 year, 0.10 – 0.30m

7.7 SUMMARY OF ENVIRONMENTAL SETTING

There are no recorded active integrated pollution controls or waste disposal, management and transfers within 250m of the site. One record of a COMAH site within 500 m of the site boundary, however no further details are presented regarding the nature of this record. There is a record of hazardous substance/storage 251m west of site. A spill of firefighting foam was recorded 227m southwest of site.

There are no records of explosives on or within 500m of the site. There are three Sites of Special Scientific Interest (SSSI) located within 2km of the site (River Usk, Gwent Levels and Severn Estuary). The site is not designated to be within a Special Area of Conservation, however the River Usk and Severn Estuary are SACs. There are six designated woodland areas and one Ramsar site (Severn Estuary) within 2km.

The site is classified as being a negligible risk from flooding by rivers and seas, however 0-50m from the site is classified as a 'Medium' to 'High' risk due to the distance located from the nearest watercourse. The site is classified to not be within Flood Zones 2/3 in the area, 18m SW of the site is within Flood Zones 2/3. The site is at a negligible risk from groundwater flooding at both surface level and below ground level, with the highest risk of flooding from surface waters within 50m of the site is 1:30 year floods (greater than 1.0m). There are no known flood defences within 250m of the site, nor any historical flooding events recorded within 250m.

8.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

8.1 INTRODUCTION

Based on the information identified in the preceding sections, the sections below summarise the anticipated ground conditions and associated geotechnical assessment for the site, including highlighting the potential constraints for future development. Actual ground conditions will need to be confirmed and augmented through ground investigation in due course.

8.2 ANTICIPATED GROUND CONDITIONS & RECOMMENDATIONS

On account of its historic use, a coverage of Made Ground is anticipated across the site. Made Ground is expected at variable thicknesses across site, over between approximately 10m and 20m thick superficial deposits comprising Tidal Flat Deposits (based on nearby historical boreholes) over solid geology comprising Mercia Mudstone.

8.2.1 Shrinking and Swelling Clay

The potential hazard presented on site by clays within the Tidal Flat Deposit exhibiting shrink-swell behaviour is rated as 'Low Risk', with ground conditions described as '*predominantly of medium plasticity*'. This should be confirmed by ground investigation.

8.2.2 Compressible Deposits

The Tidal Flat Deposits are known to be very soft to soft and may result in over settlement of foundations, under loads, or with groundwater changes. The risk from the Groundsure Report is rated as 'Moderate' and described as "*Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.*" This should be confirmed with a ground investigation.

8.2.3 Dissolution Features

The potential hazard of dissolution features being present under site is rated as 'Negligible'. The Mercia Mudstone Group is an impermeable layer at an approximate depth of c. 15m to 20m bgl. The bedrock is not prone to dissolution or at a depth to impact any development.

8.2.4 Running Sands

The potential hazard of running sands being present underlying site is rated as 'Moderate' across site. Running sands conditions are described as '*probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.*' These conditions are likely present under site within sandy layers in the TFD and as such, this should be confirmed with a ground investigation.

9.0 CONCEPTUAL SITE MODEL & PRELIMINARY GROUND CONTAMINATION RISK ASSESSMENT

9.1 OVERVIEW

The information presented in the previous sections of this report have been collated and evaluated to establish an initial qualitative risk assessment for the site. A conceptual model of the site has been generated based on information derived from this Phase 1 Geo-environmental Assessment, supplemented by information attained during the Tt site walkover.

The site has been considered with regard to current UK legislation and guidance, namely Part 2A of the Environmental Protection Act 1990 and the Contaminated Land (England) Regulations 2006, as amended, and in accordance with current UK good practice guidelines (for example BS10175:2011).

In general, ground contamination can occur through several causes, particularly from historical operations and activities. Contamination can result from either on-site sources or from on-site migration from off-site sources, leading to long term liabilities under recent legislation for any site owner.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- Source, i.e. a substance that is capable of causing pollution or harm;
- Pathway, i.e. a route by which the contaminant can reach a target; and
- Receptor (target), i.e. something which could be adversely affected by the contaminant.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

9.2 CURRENT SITE USAGE AND PROPOSED DEVELOPMENT

The site in its entirety is situated within Alexandra Dock area which is owned and managed by Associated British Ports (ABP). The site was formerly used for bespoke steel manufacturing but is no longer occupied and is derelict. There are two buildings and two shipping containers that were used for the storage of materials and as office use. There is an active electrical substation with associated parking at the exterior.

Tetra tech have been provided with preliminary drawing nr. SKT180325 which shows the demolition of current site buildings, replaced with a new access track from Alexandra Docks Road leading to a replacement 11kV substation in the centre of site, and two **control rooms** located at the south of site to the east and west.

9.3 CONCEPTUAL SITE MODEL

The key source, pathways and receptor model is outlined in Table 9-1 within the context of potential development of the site.

Table 9-1 Summary of Potential S-P-Rs

Potential Hazard	Associated Contaminants	Plausible Pollutant Linkage?
Elevated concentrations of contaminants in Made Ground soils beneath site	Heavy Metals, PAHs, asbestos, ground gas	Yes – Made Ground is expected to be encountered in association with the historical and current usage of site, in association with construction of historical railways, substation, and current buildings.
Electrical Generating Stations/ Transformer/pylons	PCBs, chlorinated solvents, oils	Yes – The oldest record of electrical generating station is dated to 1973, before the ban of using PCBs and may be in shallow soils underneath site. Surface water, groundwater and soil may be contaminated by run off oil. Solvents are highly mobile, volatile and water soluble.
Bespoke steel engineering - Materials with PFAS components were historically used to coat steel to prevent from corrosion and could have been stores on site.	PFAS, metals including chromium and lead	PFAS are highly mobile contaminants which may enter soil and groundwater and migrate large distances. A firefighting spill occurred 227m southwest in 2015, into the Alexandra Docks. The docks likely act as a physical barrier and therefore any impact to the site is unlikely.
Rail Sidings	Asbestos, metals, organics, PCBs, herbicides, sulphates	Yes, however potentially slow migration due to high fines in superficial strata. Heavy metals likely within top horizons of soil, with potential localised asbestos. Any localised fuel spills may have entered Made Ground and groundwater, or drainage systems.

9.3.1 Potential Contaminant Pathways

The following contaminant pathways are considered to potentially be active based on the current site use and proposed development:

Human Exposure Pathways

- Direct dermal contact or ingestion of soils, or inhalation of dust and/or vapours (i.e. human interaction with surface and sub-surface materials).

Environmental Pathways

- Leaching and horizontal or vertical migration through the unsaturated ground, either through permeable sub-surface materials and/or preferential pathways;
- Lateral and vertical migration of groundwater through permeable sub-surface materials and/or preferential pathways;
- Leaching to surface water run-off/drainage;
- The migration and accumulation of gases or vapours through permeable sub-surface materials and/or preferential pathways.

9.3.2 Potential Receptors at Risk

The following potential receptors have been identified:

Human Health

- Current site users (limited access only)
- Future site users (anticipated to be for maintenance only, limited duration and unlikely to interact with near surface soils); and
- Site workers during the redevelopment of the site.

Wider Environment

- Groundwater (Tidal Flat Deposits designated as unproductive strata, underlying Mercia Mudstone formation designated as Secondary B Aquifer);
- Nearby surface receptors (River Usk, Alexandra Dock, Severn Estuary) and
- Building Infrastructure.

9.4 GROUND CONDITIONS RISK ASSESSMENT

The source, pathway, receptor linkages identified in the previous section are outlined and a qualitative risk assessment shown in the following tables.

The risk assessment considers the site within an area context and assesses potential risks to identified receptors in relation to the existing site setting and the proposed development. CIRIA C552 has been used to define the risk rating presented in the Qualitative Risk Assessment matrix, the methodology for which is presented in Appendix E.

Table 9-2 Qualitative Risk Assessment

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix G						
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Potential Risk Management Requirements
Made Ground;	Direct dermal contact, inhalation, leaching, airborne migration	Current Site Users	Medium	Unlikely	Low Risk	The site is not operational or occupied. Majority of the site is covered in hardstanding. Railways are present in softscape to the west, however, are unlikely to be disturbed with site being derelict.
		Construction Workers		Likely	Moderate Risk	Risks to construction workers can be controlled through the Health and Safety at work regulations including the use of appropriate PPE / RPE and adoption of good on site hygiene. The potential for contamination should be included within tool box talks during the induction process.
		Future Site Users		Unlikely	Low Risk	Majority of the site will be covered in new hardstanding.
	Vertical and lateral migration through Made Ground and TFD	Groundwater (TFD)	Mild	Likely	Low/Moderate Risk	Potential for migration through softscape and historical leaching from the soil into underlying groundwater table. Tidal Flat Deposits are low permeability and designated as un-productive strata, however given the age of site the potential for migration of

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix G						
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Potential Risk Management Requirements
						contaminants cannot be discounted. Ground investigation will be required to confirm presence of potentially mobile contamination. .
		Surface Waters; River Usk, Severn Estuary, Gwent Levels	Medium		Moderate Risk	Potential for surface water runoff captured in drainage system, enters Alexandra Docks / River Usk. Any contamination in groundwater would reach the River Usk, which are in hydraulic continuity.
Made Ground; PFAS	Leaching, lateral and vertical migration	Surface Waters: River Usk, Severn Estuary	Medium	Low Likelihood	Moderate Risk	Potential for small scale storage of PFAS containing materials to have been present on site whilst the steel manufacturer was in operation.
		Groundwater (TFD)				Potential for highly mobile and persistent PFAS compounds in underlying soils to migrate to the groundwater table. Potential for PFAS in rainwater to enter drainage system and enter surface waters. Intrusive ground investigation and surface water sampling of any drains on site is recommended.
	Direct dermal contact, ingestion	Current and Future Site Users	Medium	Low Likelihood	Low Risk	PFAS impacted materials are not likely to be present on site. No evidence was noted on the site walkover.

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix G							
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Potential Requirements	Risk Management
		Construction Workers	Medium	Likely	Moderate Risk	Potential for PFAS contamination during removal of structures and construction of the substation through dermal contact and ingestion of contaminated soil and inhalation through dust in disturbed soils. Intrusive ground investigation is recommended.	
Made Ground; construction of rail sidings and buildings	Direct contact, ingestion, inhalation	Current Site Users	Medium	Unlikely	Very Low Risk	Railway and buildings currently not in operation, no site users in surrounds. Hardstanding is in poor condition.	
		Future Site Users	Medium	Low Likelihood	Low Risk	No evidence of fuel leaks or spillages during the site walkover. Proposed plans indicate new hardstanding and access road into the site.	
		Construction workers	Medium	Low Likelihood	Low Risk	Potential for contamination during removal of structures and construction of the substation through dermal contact and ingestion of contaminated soil and inhalation through dust in disturbed soils. Intrusive ground investigation is recommended. Reduce risk through mitigation measures such as dust suppression and appropriate PPE such as an FFP3 filter mask.	

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix G							
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Potential Risk Requirements	Management
	Leaching through lateral and vertical migration	Groundwater	Mild	Likely	Low/ Moderate Risk	Potential from historical leaks or spills along railway and in building surrounds from industrial activity for contaminants to have migrated into shallow subsoil and leach into groundwater. Intrusive ground investigation is recommended.	
		Surface Water; River Usk, Severn Estuary	Medium	Low Likelihood	Moderate/Low Risk	Potential for contaminants in groundwater to enter surface water receptors due to known hydraulic continuity in adjacent sites between superficial deposits (TFD) and River Usk.	
Asbestos Containing Materials (ACMs)	Inhalation	Current Site Users	Medium	Unlikely	Low Risk	ACMs not observed during the site walkover, however given the history of site, and site surrounds, it is recommended to undertake intrusive ground investigation and screen soil samples for asbestos.	
		Construction Workers		Likely	Moderate Risk		
		Future Site Users		Unlikely	Low Risk		
Electrical substation	Direct dermal contact, ingestion, inhalation	Current and Future Site Users, construction workers	Medium	Likely	Moderate Risk	Historical records indicate a substation present in 1973, before the ban on PCBs. There is a risk that PCBs remain in shallow soil as they are relatively immobile. Intrusive ground investigation is recommended.	

This matrix is based on CIRIA C552 risk evaluation methodology, definitions for risk ratings is presented in Appendix G							
Source	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk Classification	Potential Requirements	Risk Management
	Leaching through lateral and vertical migration	Groundwater	Medium	Unlikely	Low Risk	PCBs are generally immobile and risk of migration through low permeability soils of the TFD is low. Groundwater and surface water sampling is recommended.	
		Surface Water					
Ground gas from Made Ground and alluvial deposits	Migration along preferential pathways and accumulation in enclosed spaces Inhalation	Current Site Users	Severe	Unlikely	Moderate to Low Risk	Currently no frequent site users on site. Buildings are present but mostly locked. Buildings which were accessed during the walkover were in poor condition with air gaps and large rooms. Proposed buildings for the substation may allow migration pathways to be present in the proposed development. Tidal flat deposits and probable Made Ground indicate a potential source for ground gas. Intrusive ground investigation is recommended with ground gas monitoring to classify site and identify requirement for ground gas protection measures.	
		Future Site Users	Severe	Low Likelihood	Moderate Risk		
		Building Infrastructure	Severe	Low Likelihood	Moderate Risk		

10.0 CONCLUSIONS AND RECOMMENDATIONS

10.1 SITE SETTING

The site is set in the northwestern extent of the wider Alexander Docks area with development beginning before earliest available mapping in 1882. Railways ran through the site trending north to south with small buildings, indicated as being substations and office buildings from the Groundsure report. Historic, unused railway tracks are currently present on site to the northwest, and derelict office buildings and poor condition hardstanding remains.

The walkover did not highlight any evidence of Asbestos Containing Materials (ACMs), evidence of fuel leakages along the road, or any visual evidence of contamination within the site bounds. An above ground bunded storage tank was present immediately north of site.

10.2 GROUND CONTAMINATION

Contaminants associated with construction of railways, buildings and steel manufacturing have all been considered, as well as ground gas from Made Ground. Heavy metals, fuels, oils, solvents and herbicides are associated with railways and will need to be investigated as part of any future ground investigation. PCBs associated with historical substations may also be present within near surface soils.

. There is a risk that materials containing PFAS were stored / used on site whilst the bespoke steel manufacturer was operating, therefore this could be present in Made Ground and underlying groundwater and adjacent surface water.

With regards to ground gas, the underlying tidal flat deposits and Made Ground anticipated on the site and within surrounding areas may pose a potential source of ground gas generation, which may be influenced by tidal variations within the groundwater below the stie. Ground gas monitoring will be required as part of any future ground investigation.

10.3 GEOTECHNICAL

On account of its historic use, a coverage of Made Ground is anticipated across the site. Based on previous works undertaken by Tetra Tech in the wider area, it is anticipated that there may be up to 20m of clay overlying highly weathered bedrock and weak competent rock of the Mercia Mudstone Formation.

Potential geotechnical challenges at the site include:

- In ground obstructions (rail sidings);
- Running Sands conditions whilst excavating in sand bands of the TFD;
- Poor founding conditions and compressibility of TFD under loads;
- Perched groundwater within TFD.

10.4 RECOMMENDATIONS

It is likely that the recommended works outlined below will be required to support the future development of the site:

- 1) A ground investigation to provide the following:
 - Confirmation of ground conditions
 - Assess presence/absence of contamination, including the presence of any PFAS compounds in shallow soils.
 - Undertake ground gas monitoring to facilitate a Ground Gas Risk Assessment.
 - Undertake permeability testing within Made Ground and TFD strata.
 - Assess geotechnical properties of shallow soil and bedrock as required.
- 2) An Interpretive Ground Investigation Report including a defined Conceptual Site Model (based on site specific data) and a qualitative risk assessment (Compliant with UK LCRM guidance and CIRIA 552 methodology) within the context of a commercial land use scenario.

Based on our understanding of the wider site setting it is considered likely that the follow reports may also be required.

- 3) A Controlled Waters Detailed Quantitative Risk Assessment (CW-DQRA) may be required to assess impacts of contaminants, to the River Usk and Severn Estuary receptors.
- 4) Remediation Strategy and Discovery Strategy to demonstrate the effective removal of pollutant pathways identified as part of the ground investigation and to outline procedures in the event that further contamination is encountered.
- 5) Asbestos management plan to outline procedures to manage risks associated with asbestos containing materials and asbestos fibres if identified during the development phase.

10.4.1 Ground Investigation

Tetra Tech has issued a proposal letter (Ref. 784-B069008 NGED Substation Alexandra Docks Drainage GI 210325PLNEB) dated 23rd April 2025 for the following suitable scope. Full details are presented within the proposal letter.

- 1nr. day of trial pitting to include 2nr. soil infiltration tests to BRE365
- 3nr. Cable percussive boreholes to 10m bgl with dual standpipe installation for groundwater and ground gas monitoring.
- Collection of soil samples from all exploratory hole locations for environmental laboratory testing.
- Two return visits to undertake ground gas and groundwater monitoring.
- Logging of all exploratory hole locations to BS5930.
- CCTV Surveying.
- UXO Supervision.
- Interpretive ground investigation report.

Geotechnical recommendations have not been provided as part of this report.

11.0 REFERENCES

- British Geological Survey. (2023). *GeoIndex*. Retrieved from <http://www.bgs.ac.uk/GeoIndex/>
- CIRIA. (2001). *Contaminated land risk assessment A guide to good practice*.
- DEFRA. (2023). *MAGIC*. Retrieved from Magic Map: <http://magic.defra.gov.uk/MagicMap.aspx>
- Environment Agency . (March 2017). *New Groundwater Vulnerability Mapping Methodology in England and Wales. Reference SC040016/R*. Environment Agency .
- Scivyer, C. (2015). *BRE 211. Radon: Guidance on protective measures for new buildings (including supplementary advice for extensions, conversions and refurbishment projects). Fifth Edition*. . BRE.
- The Coal Authority. (2023). *Coal Authority Interactive Viewer*. Retrieved from <http://mapapps2.bgs.ac.uk/coalauthority/home.html>
- Zetica UXO. (2008). *Zetica UXO Risk Maps*. Retrieved from <https://zeticauxo.com/downloads-and-resources/risk-maps/>

Figure 1 - Site Location Plan



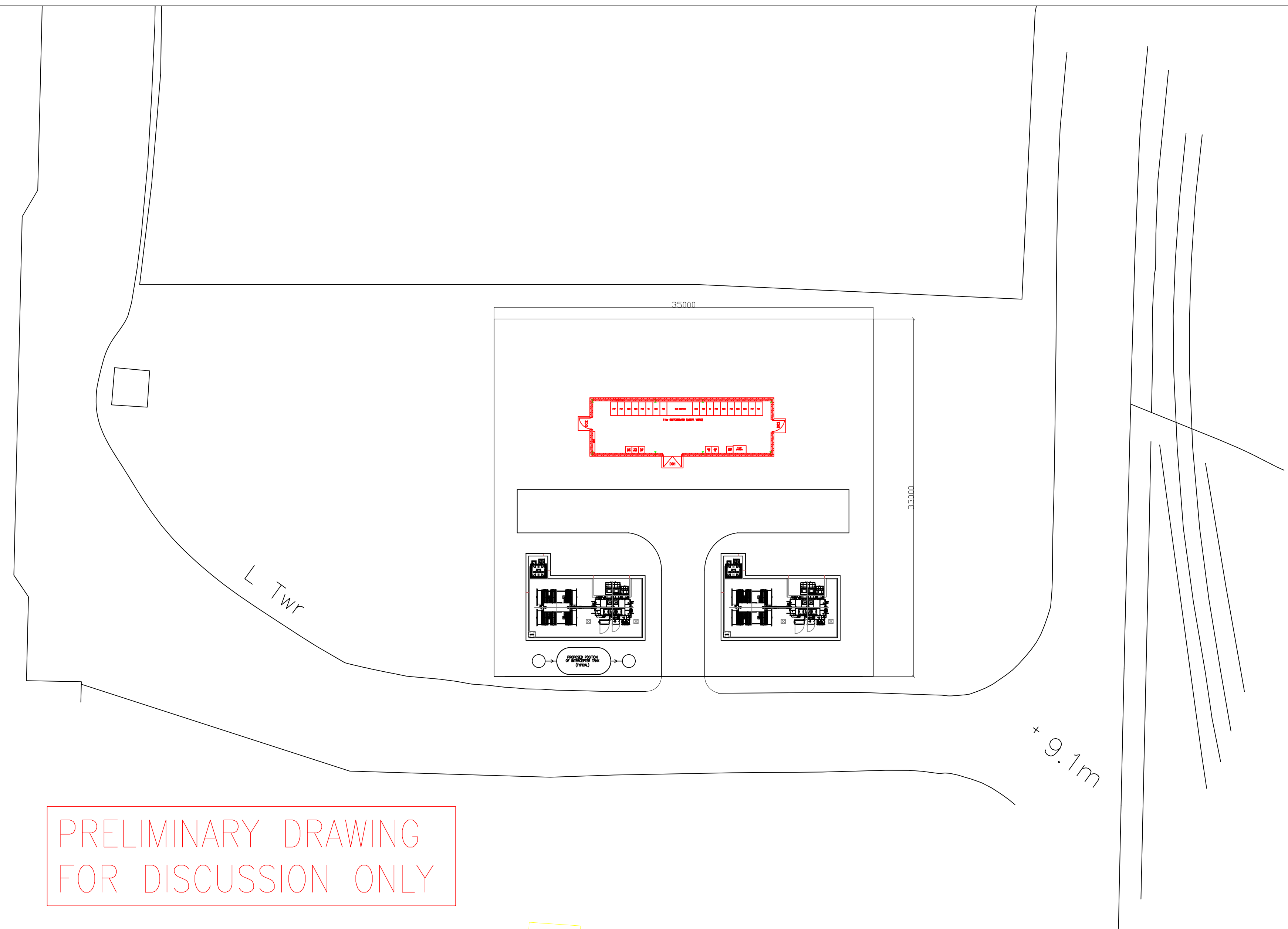
FIGURE 1
Site Location Plan

KEY
 Site Boundary

0 0.1 0.2 km




PROPOSED PLANS



PRELIMINARY DRAWING
FOR DISCUSSION ONLY

						ORIGINAL ISSUE	Date
						Drawn	GR 18.03.25
						Checked	
						Approved	
0	GR			18.03.25	ISSUED FOR DISCUSSION	SCALE:	AS SHOWN
Rev No	Drawn	Chk'd	App'd	Date	Revision	ORIGINAL SHEET SIZE: A2	

nationalgrid Electricity Distribution		Engineering Design (South Wales) Lamby Way, Cardiff CF3 2EQ	
Title		Drg. No.	Rev No.
USK WAY 33/11kV SUBSTATION		SKT180325	0
PROPOSED LOCATION EXISTING SUB REMOVED			

APPENDIX A: REPORT CONDITIONS

APPENDIX A – REPORT CONDITIONS

GEO-ENVIRONMENTAL DESKTOP REVIEW

This report is produced solely for the benefit of National Grid Electrical Distribution and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

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

This report is based on a study of readily accessible referenced historical records. Some of the opinions are based on unconfirmed data and information and are presented in good faith without exhaustive clarification. Where ground conditions are discussed but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to detailed activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, we are unable to give categorical assurances that they will be accepted by Authorities or Funds etc. without question, as such bodies may have unpublished, often more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Tetra Tech. In time improved practices or amended guidance may necessitate a re-assessment. The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites.

APPENDIX B: GROUNDSURE REPORT

Alexandra Docks

Order Details

Date: 01/04/2025
Your ref: 784-B069008
Our Ref: GS-6WW-M79-C2N-K7Z

Site Details

Location: 331622 185819
Area: 0.3 ha
Authority: [Casnewydd - Newport City Council](#) ↗



[Summary of findings](#)

[p. 2 >](#) [Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#) [Insight User Guide](#) ↗

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	13	7	47	102	-
22 >	1.2 >	Historical tanks >	0	3	12	36	-
24 >	1.3 >	Historical energy features >	2	0	0	9	-
25	1.4	Historical petrol stations	0	0	0	0	-
25 >	1.5 >	Historical garages >	0	0	0	1	-
25	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
26 >	2.1 >	Historical industrial land uses >	17	9	58	118	-
34 >	2.2 >	Historical tanks >	0	6	20	50	-
37 >	2.3 >	Historical energy features >	2	0	0	9	-
38	2.4	Historical petrol stations	0	0	0	0	-
38 >	2.5 >	Historical garages >	0	0	0	2	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
39	3.1	Active or recent landfill	0	0	0	0	-
39	3.2	Historical landfill (BGS records)	0	0	0	0	-
40 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	2	-
40 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
40 >	3.5 >	Historical waste sites >	0	0	0	1	-
41 >	3.6 >	Licensed waste sites >	0	0	0	19	-
46 >	3.7 >	Waste exemptions >	0	0	0	8	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
48 >	4.1 >	Recent industrial land uses >	1	1	16	-	-
50	4.2	Current or recent petrol stations	0	0	0	0	-
50	4.3	Electricity cables	0	0	0	0	-
50	4.4	Gas pipelines	0	0	0	0	-
50	4.5	Sites determined as Contaminated Land	0	0	0	0	-



50 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	1	0	-
51	4.7	Regulated explosive sites	0	0	0	0	-
51 >	4.8 >	Hazardous substance storage/usage >	0	0	0	1	-
51	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
51 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	19	-
55 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	3	12	-
57	4.12	Radioactive Substance Authorisations	0	0	0	0	-
57 >	4.13 >	Licensed Discharges to controlled waters >	0	1	11	18	-
61	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
61	4.15	Pollutant release to public sewer	0	0	0	0	-
61	4.16	List 1 Dangerous Substances	0	0	0	0	-
61	4.17	List 2 Dangerous Substances	0	0	0	0	-
61 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	1	4	-
62	4.19	Pollution inventory substances	0	0	0	0	-
62	4.20	Pollution inventory waste transfers	0	0	0	0	-
63	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
64 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
65 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
66 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
67	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
67	5.5	Groundwater vulnerability- local information	None (within 0m)				
68	5.6	Groundwater abstractions	0	0	0	0	0
69 >	5.7 >	Surface water abstractions >	0	0	0	0	2
69	5.8	Potable abstractions	0	0	0	0	0
70	5.9	Source Protection Zones	0	0	0	0	-
70	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	6.1 >	Water Network (OS MasterMap) >	0	0	7	-	-



72 >	6.2 >	Surface water features >	0	1	0	-	-
72 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
73 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
73 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
75	7.2	Historical Flood Events	0	0	0	-	-
75	7.3	Flood Defences	0	0	0	-	-
75	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
75	7.5	Flood Storage Areas	0	0	0	-	-
76 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
77 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
78 >	8.1 >	Surface water flooding >	1 in 100 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding >					
80 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
81 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	1	0	2
82 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	1
84 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	1	0	1
84 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	1
85	10.5	National Nature Reserves (NNR)	0	0	0	0	0
85	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
85 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	6
86	10.8	Biosphere Reserves	0	0	0	0	0
86	10.9	Forest Parks	0	0	0	0	0
86	10.10	Marine Conservation Zones	0	0	0	0	0
86	10.11	Green Belt	0	0	0	0	0
87	10.12	Proposed Ramsar sites	0	0	0	0	0



87	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
87	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
87	10.15	Nitrate Sensitive Areas	0	0	0	0	0
88	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
89	10.17	SSSI Impact Risk Zones	0	-	-	-	-
89	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
90	11.1	World Heritage Sites	0	0	0	-	-
90	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
90	11.3	National Parks	0	0	0	-	-
90	11.4	Listed Buildings	0	0	0	-	-
91	11.5	Conservation Areas	0	0	0	-	-
91	11.6	Scheduled Ancient Monuments	0	0	0	-	-
91	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
93 >	12.2 >	Open Access Land >	0	0	1	-	-
93	12.3	Tree Felling Licences	0	0	0	-	-
93	12.4	Environmental Stewardship Schemes	0	0	0	-	-
94	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
95	13.1	Priority Habitat Inventory	0	0	0	-	-
95	13.2	Habitat Networks	0	0	0	-	-
95	13.3	Open Mosaic Habitat	0	0	0	-	-
95	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
96 >	14.1 >	10k Availability >	Identified (within 500m)				
97	14.2	Artificial and made ground (10k)	0	0	0	0	-
98 >	14.3 >	Superficial geology (10k) >	1	0	3	1	-



99	14.4	Landslip (10k)	0	0	0	0	-
100 >	14.5 >	Bedrock geology (10k) >	1	0	2	0	-
101	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
102 >	15.1 >	50k Availability >	Identified (within 500m)				
103	15.2	Artificial and made ground (50k)	0	0	0	0	-
103	15.3	Artificial ground permeability (50k)	0	0	-	-	-
104 >	15.4 >	Superficial geology (50k) >	1	0	1	1	-
105 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
105	15.6	Landslip (50k)	0	0	0	0	-
105	15.7	Landslip permeability (50k)	None (within 50m)				
106 >	15.8 >	Bedrock geology (50k) >	1	0	0	0	-
107 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
107	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
108	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
109 >	17.1 >	Shrink swell clays >	Low (within 50m)				
110 >	17.2 >	Running sands >	Moderate (within 50m)				
111 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
112 >	17.4 >	Collapsible deposits >	Negligible (within 50m)				
113 >	17.5 >	Landslides >	Very low (within 50m)				
114 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
116 >	18.1 >	BritPits >	0	0	0	1	-
117 >	18.2 >	Surface ground workings >	7	4	16	-	-
118 >	18.3 >	Underground workings >	0	0	0	4	0
119	18.4	Underground mining extents	0	0	0	0	-
119	18.5	Historical Mineral Planning Areas	0	0	0	0	-



119 >	18.6 >	Non-coal mining >	0	0	0	0	1
119	18.7	JPB mining areas	None (within 0m)				
120	18.8	The Coal Authority non-coal mining	0	0	0	0	-
120	18.9	Researched mining	0	0	0	0	-
120	18.10	Mining record office plans	0	0	0	0	-
120	18.11	BGS mine plans	0	0	0	0	-
121	18.12	Coal mining	None (within 0m)				
121	18.13	Brine areas	None (within 0m)				
121	18.14	Gypsum areas	None (within 0m)				
121	18.15	Tin mining	None (within 0m)				
121	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
122	19.1	Natural cavities	0	0	0	0	-
122	19.2	Mining cavities	0	0	0	0	0
122	19.3	Reported recent incidents	0	0	0	0	-
122	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
124 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
126 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	0	-	-	-
126	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
126	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
127	22.1	Underground railways (London)	0	0	0	-	-
127	22.2	Underground railways (Non-London)	0	0	0	-	-
128	22.3	Railway tunnels	0	0	0	-	-
128 >	22.4 >	Historical railway and tunnel features >	19	6	24	-	-
130	22.5	Royal Mail tunnels	0	0	0	-	-
130 >	22.6 >	Historical railways >	0	0	11	-	-



131 >	22.7 >	Railways >	0	1	1	-	-
131	22.8	Crossrail 2	0	0	0	0	-
131	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 20/05/2023

Site Area: 0.3ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 1 April 2025

Recent site history - 2020 aerial photograph



Capture Date: 14/04/2020

Site Area: 0.3ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 1 April 2025

Recent site history - 2016 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2025. All Rights Reserved.

Capture Date: 19/07/2016

Site Area: 0.3ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 1 April 2025

Recent site history - 2009 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2025. All Rights Reserved.

Capture Date: 12/10/2009

Site Area: 0.3ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 1 April 2025

Recent site history - 2000 aerial photograph



Capture Date: 06/10/2000

Site Area: 0.3ha



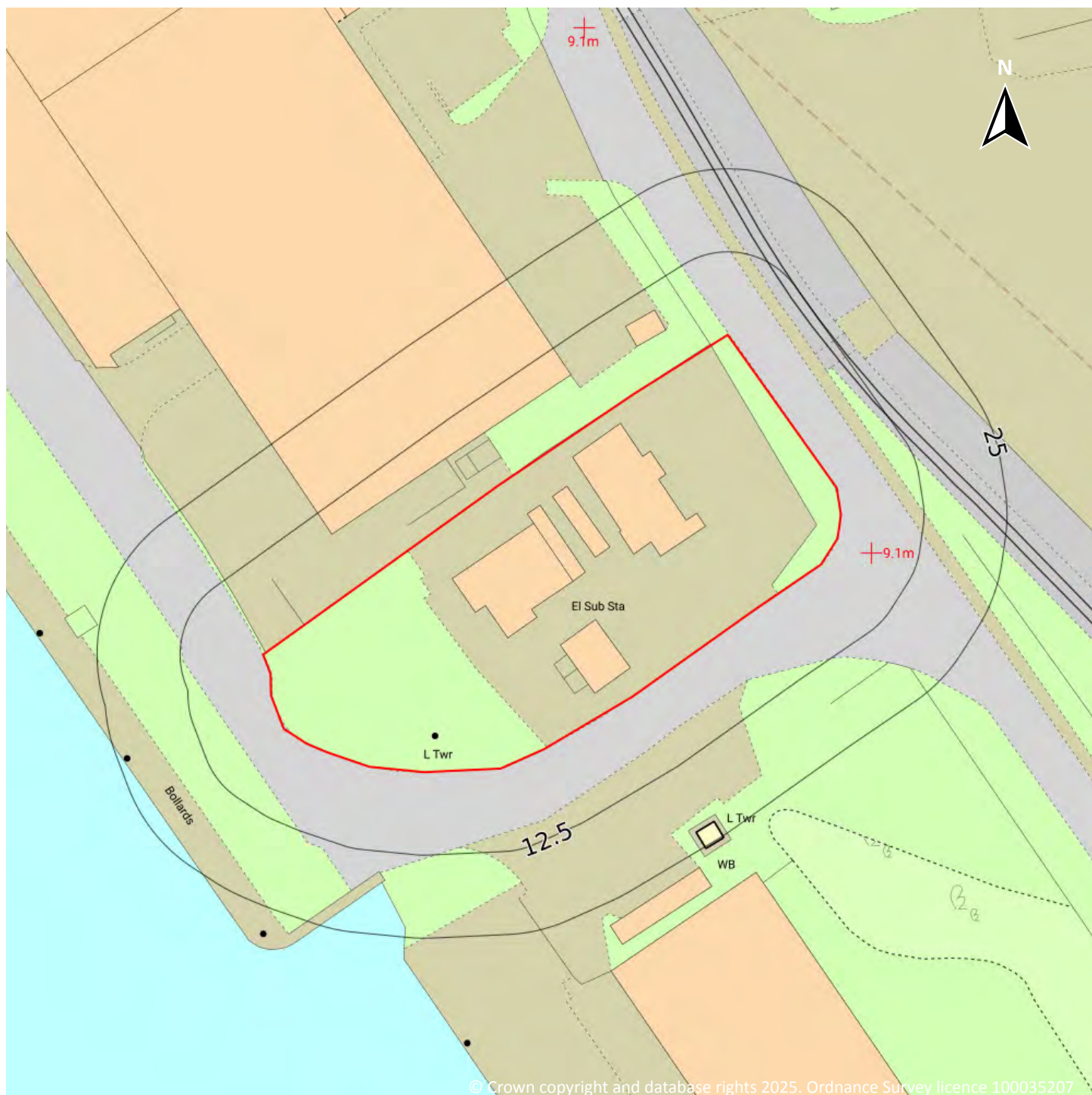
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 1 April 2025

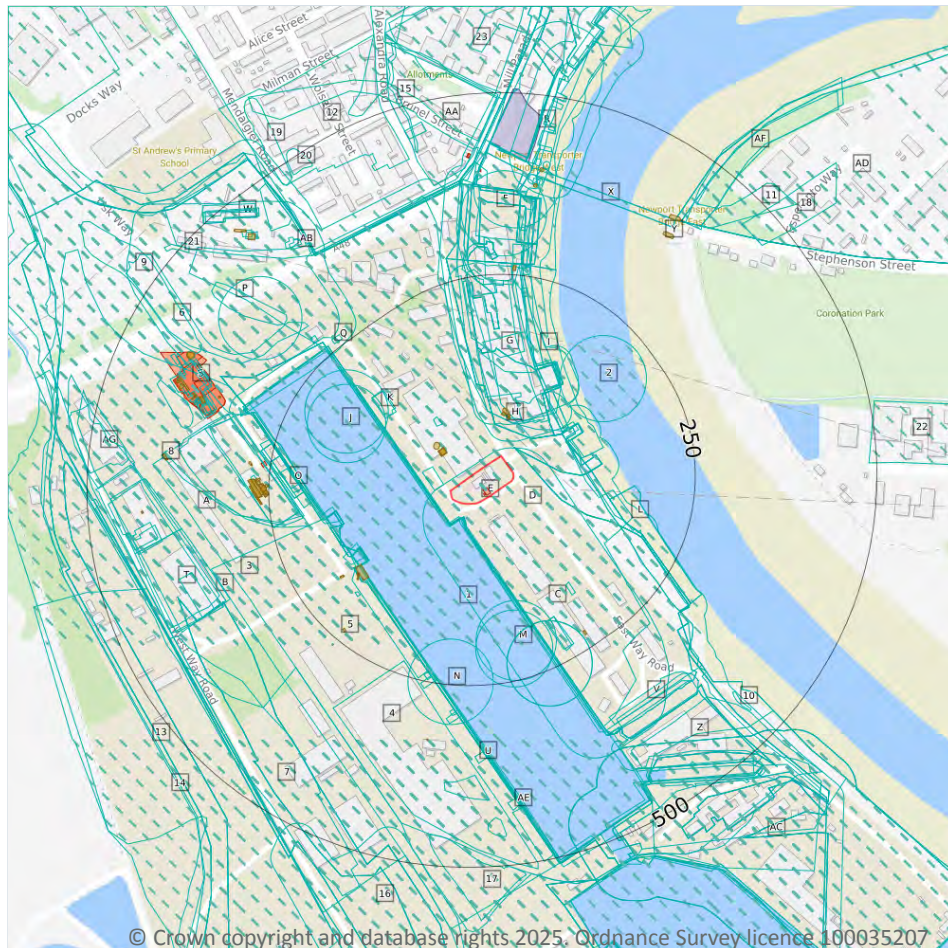
OS MasterMap site plan



Site Area: 0.3ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

169

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	Dock	1882	1267533



ID	Location	Land use	Dates present	Group ID
A	On site	Railway Sidings	1922	1210341
A	On site	Railway Sidings	1922	1210342
A	On site	Railway Sidings	1922	1210343
A	On site	Railway Sidings	1922	1210344
A	On site	Railway Sidings	1965 - 1985	1216620
A	On site	Dock	1965 - 1981	1245035
A	On site	Unspecified Commercial/Industrial	1965	1264701
A	On site	Docks	1922 - 1938	1282226
B	On site	Railway Sidings	1938 - 1949	1237329
B	On site	Engineering and Ship Repairing Works	1900	1280721
C	On site	Dock	1949	1242771
D	On site	Railway Sidings	1882	1263000
D	13m W	Railway Building	1900	1206205
A	19m SW	Dock	1900 - 1985	1244026
F	21m NE	Unspecified Wharfs	1900	1197631
G	38m NE	Unspecified Works	1965	1236616
G	38m NE	Unspecified Commercial/Industrial	1973 - 1981	1279060
G	44m N	Engineering Works	1922	1218331
F	48m NE	Railway Sidings	1882 - 1900	1225767
G	54m N	Engineering Works	1938	1235578
G	55m NE	Engineering Works	1949	1215772
D	81m NW	Railway Building	1900	1206204
I	88m NE	Unspecified Wharf	1949	1260342
I	108m NE	Unspecified Wharf	1938	1278236
I	110m NE	Unspecified Wharf	1882	1231027
G	116m N	Wagon Works	1882	1195477
J	116m W	Transit Shed	1949	1276047
2	117m NE	Unspecified Wharf	1922	1265217



ID	Location	Land use	Dates present	Group ID
J	123m NW	Transit Shed	1938	1230282
K	132m NW	Transit Shed	1922	1247400
K	132m NW	Railway Building	1900	1206203
F	136m N	Fuel Works	1900	1234246
L	136m E	Unspecified Wharf	1965	1203261
L	136m E	Unspecified Disused Wharf	1973 - 1985	1222707
M	141m S	Transit Shed	1938	1242510
A	143m SW	Coal Hoists	1922	1271196
3	144m SW	Railway Sidings	1882	1285576
A	144m SW	Coal Hoists	1949	1245114
4	146m SW	Unspecified Commercial/Industrial	1900	1281705
B	153m W	Coal Hoists	1922	1217741
M	153m S	Transit Shed	1949	1283072
B	156m W	Coal Hoists	1949	1225366
A	157m SW	Coal Hoists	1922	1181065
C	159m SE	Railway Building	1900	1206206
A	183m SW	Coal Hoist	1949	1208819
C	183m S	Quay	1973 - 1985	1218771
C	183m S	Quay	1965	1259233
N	187m S	Quay	1973 - 1985	1293276
C	187m SE	Transit Shed	1922	1250452
C	188m SE	Railway Building	1900	1206207
O	192m W	Sawmill	1882	1236343
O	202m W	Sawmill	1900	1237751
O	202m W	Sawmill	1938	1259993
O	204m W	Sawmill	1949	1285046
O	204m W	Timber Yard	1922 - 1938	1237898
O	208m W	Timber Yard	1949	1245174



ID	Location	Land use	Dates present	Group ID
O	210m W	Sawmill	1922	1288860
O	210m W	Timber Yards	1882	1272487
O	212m W	Timber Yard	1900	1265718
F	221m N	Unspecified Wharf	1882	1219790
N	231m SW	Timber Yard	1973 - 1985	1226325
F	235m N	Fuel Works	1949	1227661
F	236m N	Fuel Works	1922 - 1938	1286685
N	236m S	Coal Hoists	1949	1243735
N	239m S	Coal Hoists	1922	1234800
P	248m NW	Timber Yard	1922	1216961
Q	257m NW	Railway Building	1900	1205940
F	265m N	Fuel Wharf	1949	1270025
F	265m N	Unspecified Works	1965	1238775
F	265m N	Unspecified Works	1973 - 1985	1268294
O	267m W	Unspecified Tanks	1882	1186860
F	275m N	Fuel Wharf	1922	1211482
Q	276m NW	Railway Building	1900	1205939
F	277m N	Railway Sidings	1949	1290488
N	283m S	Coal Hoists	1949	1242020
N	284m S	Coal Hoists	1922	1239562
F	295m N	Unspecified Disused Wharf	1981 - 1985	1247520
F	295m N	Unspecified Old Wharf	1973	1283437
F	295m N	Unspecified Old Wharf	1965	1283594
P	296m NW	Timber Yard	1938	1251091
6	299m NW	Unspecified Ground Workings	1938	1182769
F	312m N	Unspecified Wharf	1882	1203252
R	315m N	Unspecified Wharves	1949	1213986
P	324m NW	Unspecified Heap	1965	1201245



ID	Location	Land use	Dates present	Group ID
T	336m SW	Timber Yard	1938	1236987
U	340m S	Coal Hoists	1922	1181062
V	340m SE	Graving Dock	1949	1235934
S	341m W	Railway Buildings	1938	1180356
S	341m W	Hydraulic Power Station	1922	1187679
T	342m SW	Sawmill	1973 - 1985	1284676
S	343m W	Pumping Station	1900	1209989
S	347m W	Railway Building	1949	1206224
T	347m SW	Timber Yard	1949	1241814
T	349m SW	Timber Yard	1900	1226053
V	352m SE	Graving Dock	1922 - 1938	1288681
T	361m SW	Timber Yard	1922	1249125
R	362m N	Unspecified Wharves	1922	1225487
F	364m N	Fuel Wharf	1938	1253075
S	367m W	Unspecified Heap	1965	1200243
W	371m NW	Unspecified Depot	1973 - 1985	1250973
T	373m W	Sawmill	1938	1223404
U	373m S	Engine Works	1882	1202310
F	375m N	Unspecified Wharf	1882	1203253
F	376m N	Unspecified Tank	1965	1203548
F	377m N	Unspecified Tank	1965	1203431
X	378m N	Tunnel	1973 - 1985	1228818
X	378m N	Tunnel	1965	1272727
Z	378m SE	Graving Dock	1949	1288340
7	383m SW	Docks	1882	1216120
AA	383m N	Brick Field	1882	1177970
AB	390m NW	Railway Building	1938	1248230
AC	390m SE	Dock	1938	1210506



ID	Location	Land use	Dates present	Group ID
AC	390m SE	Dock	1949	1210507
AC	390m SE	Dock	1949	1210508
R	393m N	Unspecified Wharf	1949	1225757
9	394m NW	Unspecified Pit	1949	1239619
AB	395m NW	Railway Building	1949	1221894
S	398m NW	Unspecified Tank	1965	1204754
Z	398m SE	Dock	1882	1237385
R	399m N	Unspecified Wharves	1938	1276409
F	400m N	Unspecified Tank	1965	1203432
T	402m W	Sawmill	1922	1235841
F	403m N	Unspecified Tank	1965	1203551
AD	404m NE	Railway Sidings	1973	1271325
AD	404m NE	Railway Sidings	1981	1282912
AD	404m NE	Unspecified Works	1973 - 1985	1294213
R	404m N	Unspecified Commercial/Industrial	1965	1222899
R	406m N	Unspecified Works	1973 - 1985	1262907
AD	407m NE	Unspecified Works	1965	1229173
AD	407m NE	Railway Sidings	1965	1238386
R	407m N	Railway Sidings	1965	1223832
T	408m W	Sawmill	1949	1259524
AE	409m S	Coal Hoists	1922	1181063
AF	409m NE	Railway Sidings	1938	1284141
S	412m W	Railway Building	1949	1207140
10	421m SE	Unspecified Ground Workings	1882	1183016
11	422m NE	Unspecified Pit	1938	1190820
AE	423m S	Coal Hoists	1922	1181061
12	424m N	Brick Field	1882	1177971
Z	426m SE	Dock	1985	1245410



ID	Location	Land use	Dates present	Group ID
W	427m NW	Unspecified Heap	1900	1201244
13	428m SW	Refuse Heap	1973 - 1981	1242812
14	428m SW	Refuse Heap	1985	1268937
AE	433m S	Unspecified Pit	1922	1190801
15	433m N	Unspecified Ground Workings	1882	1183012
Z	436m SE	Graving Dock	1973	1263985
AG	436m W	Timber Yard	1922 - 1938	1236909
W	438m NW	Railway Building	1938	1292290
Z	438m SE	Graving Dock	1922	1234460
AF	439m NE	Railway Sidings	1949	1236374
W	443m NW	Railway Building	1949	1263219
AG	445m W	Docks	1900	1291855
Z	446m SE	Unspecified Works	1965	1195653
AC	448m SE	Work Shops	1938	1181057
R	453m N	Unspecified Wharf	1882	1289756
AA	454m N	Police Station	1973 - 1985	1223930
16	456m S	Timber Yard	1922	1209681
17	457m S	Unspecified Pit	1882	1190800
18	460m NE	Railway Sidings	1949	1244852
W	461m NW	Engine Shed	1922	1288381
W	461m NW	Engine Shed	1900	1234608
W	461m NW	Engine Shed	1938	1236462
W	468m NW	Engine Shed	1949	1210618
19	473m NW	Unspecified Heap	1882	1200037
20	476m NW	Unspecified Heap	1882	1200239
21	487m NW	Lime Kilns	1882	1185304
22	489m E	Unspecified Works	1985	1195668
23	490m N	Iron Foundry	1882	1208560

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

51

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 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
D	46m NW	Tanks	1976 - 1993	187944
D	46m NW	Unspecified Tank	1955 - 1966	199254
D	46m NW	Tanks	1971	188332
H	52m N	Unspecified Tank	1966 - 1971	187482
H	55m N	Tanks	1937	189715
H	56m N	Tanks	1937	191510
D	57m NW	Tanks	1966 - 1976	195054
H	58m N	Tanks	1955 - 1971	190353
A	155m SW	Tanks	1955	192011
A	164m SW	Tanks	1956	199419
A	183m SW	Unspecified Tank	1968 - 1976	189352
C	226m SE	Unspecified Tank	1884	183690
5	232m SW	Unspecified Tank	1976	183692
O	250m W	Tanks	1955 - 1956	197486
O	250m W	Tanks	1937	192410
O	251m W	Unspecified Tank	1955 - 1956	191762
O	251m W	Tanks	1976	191663
O	251m W	Oil Tanks	1921	185833
O	253m W	Tanks	1968 - 1971	195024
F	256m N	Unspecified Tank	1971 - 1986	202329
O	257m W	Oil Tanks	1901	185832



ID	Location	Land use	Dates present	Group ID
O	257m W	Tanks	1884	195043
O	259m W	Unspecified Tank	1955 - 1956	201117
O	259m W	Tanks	1956	197234
O	259m W	Tanks	1955	194183
O	260m W	Tanks	1956	187569
O	262m W	Tanks	1968 - 1976	193210
O	275m W	Unspecified Tank	1971	186771
O	275m W	Unspecified Tank	1968	188474
O	276m W	Tanks	1976	177653
N	328m S	Unspecified Tank	1884	183689
S	341m W	Unspecified Tank	1968	183691
S	358m W	Tanks	1937	177651
S	372m W	Tanks	1956	177657
F	373m N	Unspecified Tank	1937	183682
S	375m W	Tanks	1956	199177
S	375m W	Tanks	1955	198783
Y	378m NE	Tanks	1921 - 1937	189675
S	385m W	Unspecified Tank	1976	183693
8	391m W	Unspecified Tank	1976	183694
S	394m W	Tanks	1971 - 1976	200359
F	395m N	Unspecified Tank	1937	183681
S	398m NW	Unspecified Tank	1956	189740
S	399m NW	Unspecified Tank	1955	187225
Y	401m NE	Tanks	1921 - 1937	187748
S	401m W	Unspecified Tank	1971	183697
S	402m W	Tanks	1976	177652
T	423m W	Unspecified Tank	1971	194827
T	424m W	Unspecified Tank	1968	201709



ID	Location	Land use	Dates present	Group ID
W	438m NW	Unspecified Tank	1955 - 1956	191216
W	454m NW	Tanks	1971 - 1993	193826

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

11

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 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
E	On site	Electricity Substation	1976	105447
E	On site	Electricity Substation	1993	105455
O	255m W	Electricity Substation	1976	106588
S	333m W	Hydraulic Power Station	1956	111624
S	333m W	Hydraulic Power Station	1955	118821
S	343m W	Hydraulic Power Station	1921	122795
S	353m W	Electricity Substation	1976	106587
F	392m N	Electricity Transformer	1971	108325
F	393m N	Electricity Substation	1986	105451
F	412m N	Electricity Transformer	1971	108324
F	413m N	Electricity Substation	1986	105450

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 un-grouped 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**1**

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 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
R	406m N	Wagon Repair Works	1955 - 1956	39675

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

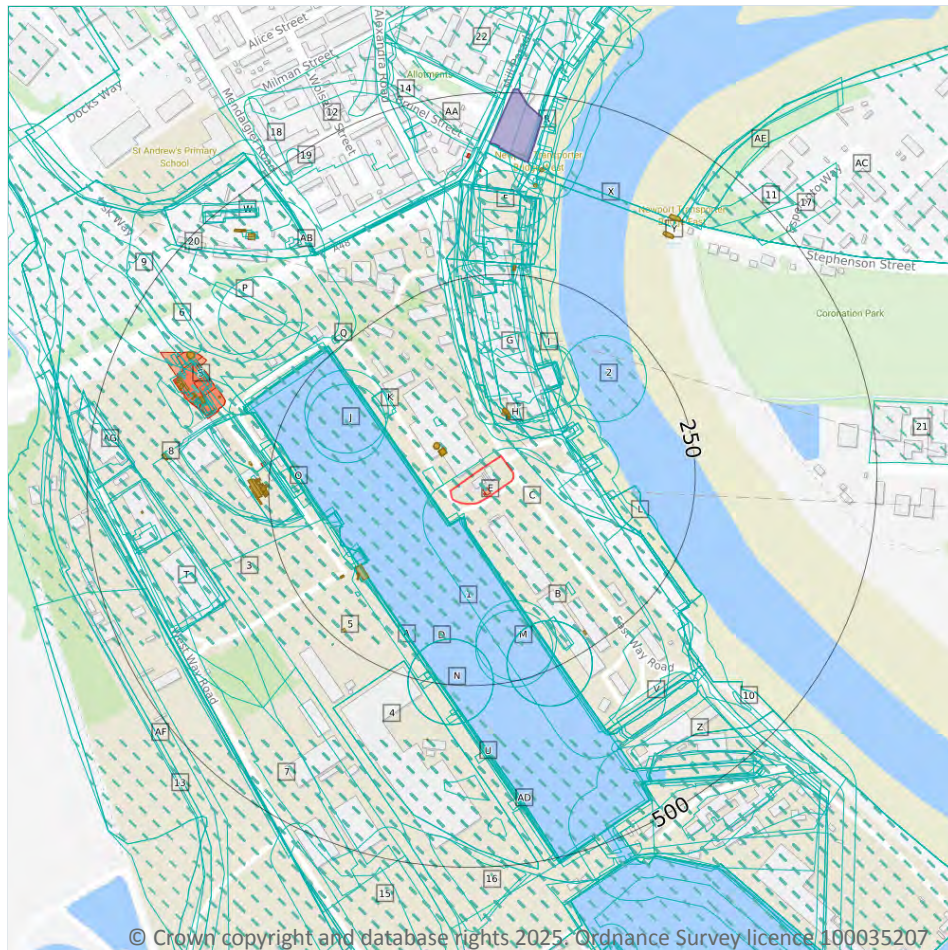
Records within 500m**0**

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

202

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 26](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Dock	1882	1267533
A	On site	Docks	1938	1282226
A	On site	Engineering and Ship Repairing Works	1900	1280721



ID	Location	Land Use	Date	Group ID
A	On site	Railway Sidings	1922	1210341
A	On site	Docks	1922	1282226
A	On site	Railway Sidings	1985	1216620
A	On site	Railway Sidings	1981	1216620
A	On site	Railway Sidings	1965	1216620
A	On site	Unspecified Commercial/Industrial	1965	1264701
A	On site	Railway Sidings	1973	1216620
A	On site	Railway Sidings	1949	1237329
A	On site	Railway Sidings	1938	1237329
B	On site	Dock	1949	1242771
C	On site	Railway Sidings	1882	1263000
D	On site	Dock	1981	1245035
D	On site	Dock	1965	1245035
D	On site	Dock	1973	1245035
C	13m W	Railway Building	1900	1206205
D	19m SW	Dock	1985	1244026
D	20m SW	Dock	1900	1244026
F	21m NE	Unspecified Wharfs	1900	1197631
G	38m NE	Unspecified Commercial/Industrial	1981	1279060
G	38m NE	Unspecified Works	1965	1236616
G	38m NE	Unspecified Commercial/Industrial	1973	1279060
G	44m N	Engineering Works	1922	1218331
F	48m NE	Railway Sidings	1882	1225767
G	54m N	Engineering Works	1938	1235578
G	55m NE	Engineering Works	1949	1215772
C	81m NW	Railway Building	1900	1206204
I	88m NE	Unspecified Wharf	1949	1260342
I	108m NE	Unspecified Wharf	1938	1278236



ID	Location	Land Use	Date	Group ID
I	110m NE	Unspecified Wharf	1882	1231027
G	116m N	Wagon Works	1882	1195477
J	116m W	Transit Shed	1949	1276047
2	117m NE	Unspecified Wharf	1922	1265217
J	123m NW	Transit Shed	1938	1230282
K	132m NW	Transit Shed	1922	1247400
K	132m NW	Railway Building	1900	1206203
F	136m N	Fuel Works	1900	1234246
L	136m E	Unspecified Disused Wharf	1985	1222707
L	136m E	Unspecified Disused Wharf	1981	1222707
L	136m E	Unspecified Wharf	1965	1203261
L	136m E	Unspecified Disused Wharf	1973	1222707
M	141m S	Transit Shed	1938	1242510
A	143m SW	Coal Hoists	1922	1271196
3	144m SW	Railway Sidings	1882	1285576
A	144m SW	Coal Hoists	1949	1245114
4	146m SW	Unspecified Commercial/Industrial	1900	1281705
A	153m W	Coal Hoists	1922	1217741
M	153m S	Transit Shed	1949	1283072
A	156m W	Coal Hoists	1949	1225366
A	157m SW	Coal Hoists	1922	1181065
B	159m SE	Railway Building	1900	1206206
A	183m SW	Coal Hoist	1949	1208819
B	183m S	Quay	1985	1218771
B	183m S	Quay	1981	1218771
B	183m S	Quay	1965	1259233
B	183m S	Quay	1973	1218771
N	187m S	Quay	1985	1293276



ID	Location	Land Use	Date	Group ID
N	187m S	Quay	1981	1293276
N	187m S	Quay	1973	1293276
B	187m SE	Transit Shed	1922	1250452
B	188m SE	Railway Building	1900	1206207
O	192m W	Sawmill	1882	1236343
O	202m W	Sawmill	1900	1237751
O	202m W	Sawmill	1938	1259993
O	204m W	Sawmill	1949	1285046
O	204m W	Timber Yard	1938	1237898
O	206m W	Timber Yard	1922	1237898
O	208m W	Timber Yard	1949	1245174
O	210m W	Sawmill	1922	1288860
O	210m W	Timber Yards	1882	1272487
O	212m W	Timber Yard	1900	1265718
F	221m N	Unspecified Wharf	1882	1219790
N	231m SW	Timber Yard	1985	1226325
N	231m SW	Timber Yard	1981	1226325
N	231m SW	Timber Yard	1973	1226325
F	235m N	Fuel Works	1949	1227661
F	236m N	Fuel Works	1922	1286685
N	236m S	Coal Hoists	1949	1243735
N	239m S	Coal Hoists	1922	1234800
O	239m W	Timber Yards	1882	1272487
F	241m N	Fuel Works	1938	1286685
P	248m NW	Timber Yard	1922	1216961
Q	257m NW	Railway Building	1900	1205940
F	265m N	Fuel Wharf	1949	1270025
F	265m N	Unspecified Works	1985	1268294



ID	Location	Land Use	Date	Group ID
F	265m N	Unspecified Works	1981	1268294
F	265m N	Unspecified Works	1965	1238775
F	265m N	Unspecified Works	1973	1268294
O	267m W	Unspecified Tanks	1882	1186860
F	275m N	Fuel Wharf	1922	1211482
Q	276m NW	Railway Building	1900	1205939
F	277m N	Railway Sidings	1949	1290488
N	283m S	Coal Hoists	1949	1242020
N	284m S	Coal Hoists	1922	1239562
F	295m N	Unspecified Disused Wharf	1985	1247520
F	295m N	Unspecified Disused Wharf	1981	1247520
F	295m N	Unspecified Old Wharf	1965	1283594
F	295m N	Unspecified Old Wharf	1973	1283437
P	296m NW	Timber Yard	1938	1251091
6	299m NW	Unspecified Ground Workings	1938	1182769
F	312m N	Unspecified Wharf	1882	1203252
R	315m N	Unspecified Wharves	1949	1213986
P	324m NW	Unspecified Heap	1965	1201245
T	336m SW	Timber Yard	1938	1236987
U	340m S	Coal Hoists	1922	1181062
V	340m SE	Graving Dock	1949	1235934
S	341m W	Railway Buildings	1938	1180356
S	341m W	Hydraulic Power Station	1922	1187679
T	342m SW	Sawmill	1985	1284676
T	342m SW	Sawmill	1981	1284676
T	342m SW	Sawmill	1973	1284676
S	343m W	Pumping Station	1900	1209989
S	347m W	Railway Building	1949	1206224



ID	Location	Land Use	Date	Group ID
T	347m SW	Timber Yard	1949	1241814
T	349m SW	Timber Yard	1900	1226053
V	352m SE	Graving Dock	1922	1288681
T	361m SW	Timber Yard	1922	1249125
R	362m N	Unspecified Wharves	1922	1225487
V	364m SE	Graving Dock	1938	1288681
F	364m N	Fuel Wharf	1938	1253075
S	367m W	Unspecified Heap	1965	1200243
W	371m NW	Unspecified Depot	1985	1250973
W	371m NW	Unspecified Depot	1981	1250973
W	371m NW	Unspecified Depot	1973	1250973
T	373m W	Sawmill	1938	1223404
U	373m S	Engine Works	1882	1202310
F	375m N	Unspecified Wharf	1882	1203253
F	376m N	Unspecified Tank	1965	1203548
F	377m N	Unspecified Tank	1965	1203431
X	378m N	Tunnel	1985	1228818
X	378m N	Tunnel	1981	1228818
X	378m N	Tunnel	1965	1272727
X	378m N	Tunnel	1973	1228818
Z	378m SE	Graving Dock	1949	1288340
7	383m SW	Docks	1882	1216120
AA	383m N	Brick Field	1882	1177970
AB	390m NW	Railway Building	1938	1248230
Z	390m SE	Dock	1949	1210507
R	393m N	Unspecified Wharf	1949	1225757
9	394m NW	Unspecified Pit	1949	1239619
AB	395m NW	Railway Building	1949	1221894



ID	Location	Land Use	Date	Group ID
S	398m NW	Unspecified Tank	1965	1204754
Z	398m SE	Dock	1882	1237385
R	399m N	Unspecified Wharves	1938	1276409
F	400m N	Unspecified Tank	1965	1203432
T	402m W	Sawmill	1922	1235841
F	403m N	Unspecified Tank	1965	1203551
AC	404m NE	Unspecified Works	1985	1294213
AC	404m NE	Unspecified Works	1981	1294213
AC	404m NE	Railway Sidings	1981	1282912
AC	404m NE	Railway Sidings	1973	1271325
AC	404m NE	Unspecified Works	1973	1294213
R	404m N	Unspecified Commercial/Industrial	1965	1222899
R	406m N	Unspecified Works	1985	1262907
R	406m N	Unspecified Works	1981	1262907
R	406m N	Unspecified Works	1973	1262907
AC	407m NE	Unspecified Works	1965	1229173
AC	407m NE	Railway Sidings	1965	1238386
R	407m N	Railway Sidings	1965	1223832
T	408m W	Sawmill	1949	1259524
AD	409m S	Coal Hoists	1922	1181063
AE	409m NE	Railway Sidings	1938	1284141
S	412m W	Railway Building	1949	1207140
10	421m SE	Unspecified Ground Workings	1882	1183016
11	422m NE	Unspecified Pit	1938	1190820
AD	423m S	Coal Hoists	1922	1181061
12	424m N	Brick Field	1882	1177971
Z	426m SE	Dock	1985	1245410
W	427m NW	Unspecified Heap	1900	1201244



ID	Location	Land Use	Date	Group ID
AF	428m SW	Refuse Heap	1981	1242812
AF	428m SW	Refuse Heap	1973	1242812
13	428m SW	Refuse Heap	1985	1268937
AD	433m S	Unspecified Pit	1922	1190801
14	433m N	Unspecified Ground Workings	1882	1183012
Z	436m SE	Graving Dock	1973	1263985
AG	436m W	Timber Yard	1938	1236909
AG	436m W	Timber Yard	1922	1236909
W	438m NW	Railway Building	1938	1292290
Z	438m SE	Graving Dock	1922	1234460
AE	439m NE	Railway Sidings	1949	1236374
W	443m NW	Railway Building	1949	1263219
AG	445m W	Docks	1900	1291855
Z	446m SE	Unspecified Works	1965	1195653
Z	448m SE	Work Shops	1938	1181057
R	453m N	Unspecified Wharf	1882	1289756
AA	454m N	Police Station	1985	1223930
AA	454m N	Police Station	1981	1223930
AA	454m N	Police Station	1973	1223930
15	456m S	Timber Yard	1922	1209681
16	457m S	Unspecified Pit	1882	1190800
17	460m NE	Railway Sidings	1949	1244852
W	461m NW	Engine Shed	1922	1288381
W	461m NW	Engine Shed	1900	1234608
W	461m NW	Engine Shed	1938	1236462
W	468m NW	Engine Shed	1949	1210618
18	473m NW	Unspecified Heap	1882	1200037
19	476m NW	Unspecified Heap	1882	1200239



ID	Location	Land Use	Date	Group ID
20	487m NW	Lime Kilns	1882	1185304
21	489m E	Unspecified Works	1985	1195668
22	490m N	Iron Foundry	1882	1208560

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

76

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 26 >](#)

ID	Location	Land Use	Date	Group ID
C	46m NW	Tanks	1993	187944
C	46m NW	Tanks	1976	187944
C	46m NW	Unspecified Tank	1956	199254
C	46m NW	Unspecified Tank	1966	199254
C	46m NW	Unspecified Tank	1955	199254
C	46m NW	Tanks	1971	188332
H	52m N	Unspecified Tank	1966	187482
H	53m N	Unspecified Tank	1971	187482
H	55m N	Tanks	1937	189715
H	56m N	Tanks	1937	191510
C	57m NW	Tanks	1966	195054
C	57m NW	Tanks	1976	195054
H	58m N	Tanks	1966	190353
H	58m N	Tanks	1955	190353
C	58m NW	Tanks	1971	195054
H	58m N	Tanks	1956	190353
H	59m N	Tanks	1971	190353



ID	Location	Land Use	Date	Group ID
A	155m SW	Tanks	1955	192011
A	164m SW	Tanks	1956	199419
A	183m SW	Unspecified Tank	1971	189352
A	184m SW	Unspecified Tank	1976	189352
A	184m SW	Unspecified Tank	1968	189352
B	226m SE	Unspecified Tank	1884	183690
5	232m SW	Unspecified Tank	1976	183692
O	250m W	Tanks	1956	197486
O	250m W	Tanks	1937	192410
O	250m W	Tanks	1955	197486
O	251m W	Unspecified Tank	1956	191762
O	251m W	Tanks	1976	191663
O	251m W	Oil Tanks	1921	185833
O	252m W	Unspecified Tank	1955	191762
O	253m W	Tanks	1971	195024
O	254m W	Tanks	1968	195024
F	256m N	Unspecified Tank	1971	202329
F	256m N	Unspecified Tank	1986	202329
O	257m W	Tanks	1884	195043
O	257m W	Oil Tanks	1901	185832
O	259m W	Unspecified Tank	1956	201117
O	259m W	Unspecified Tank	1955	201117
O	259m W	Tanks	1956	197234
O	259m W	Tanks	1955	194183
O	260m W	Tanks	1956	187569
O	262m W	Tanks	1971	193210
O	262m W	Tanks	1976	193210
O	262m W	Tanks	1968	193210



ID	Location	Land Use	Date	Group ID
O	275m W	Unspecified Tank	1971	186771
O	275m W	Unspecified Tank	1968	188474
O	276m W	Tanks	1976	177653
N	328m S	Unspecified Tank	1884	183689
S	341m W	Unspecified Tank	1968	183691
S	358m W	Tanks	1937	177651
S	372m W	Tanks	1956	177657
F	373m N	Unspecified Tank	1937	183682
S	375m W	Tanks	1956	199177
S	375m W	Tanks	1955	198783
Y	378m NE	Tanks	1921	189675
Y	378m NE	Tanks	1937	189675
S	385m W	Unspecified Tank	1976	183693
8	391m W	Unspecified Tank	1976	183694
S	394m W	Tanks	1971	200359
S	394m W	Tanks	1976	200359
F	395m N	Unspecified Tank	1937	183681
S	398m NW	Unspecified Tank	1956	189740
S	399m NW	Unspecified Tank	1955	187225
Y	401m NE	Tanks	1921	187748
Y	401m NE	Tanks	1937	187748
S	401m W	Unspecified Tank	1971	183697
S	402m W	Tanks	1976	177652
T	423m W	Unspecified Tank	1971	194827
T	424m W	Unspecified Tank	1968	201709
W	438m NW	Unspecified Tank	1955	191216
W	441m NW	Unspecified Tank	1956	191216
W	454m NW	Tanks	1993	193826



ID	Location	Land Use	Date	Group ID
W	455m NW	Tanks	1971	193826
W	455m NW	Tanks	1986	193826
W	455m NW	Tanks	1989	193826

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

11

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 26 >](#)

ID	Location	Land Use	Date	Group ID
E	On site	Electricity Substation	1976	105447
E	On site	Electricity Substation	1993	105455
O	255m W	Electricity Substation	1976	106588
S	333m W	Hydraulic Power Station	1956	111624
S	333m W	Hydraulic Power Station	1955	118821
S	343m W	Hydraulic Power Station	1921	122795
S	353m W	Electricity Substation	1976	106587
F	392m N	Electricity Transformer	1971	108325
F	393m N	Electricity Substation	1986	105451
F	412m N	Electricity Transformer	1971	108324
F	413m N	Electricity Substation	1986	105450

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**2**

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'.

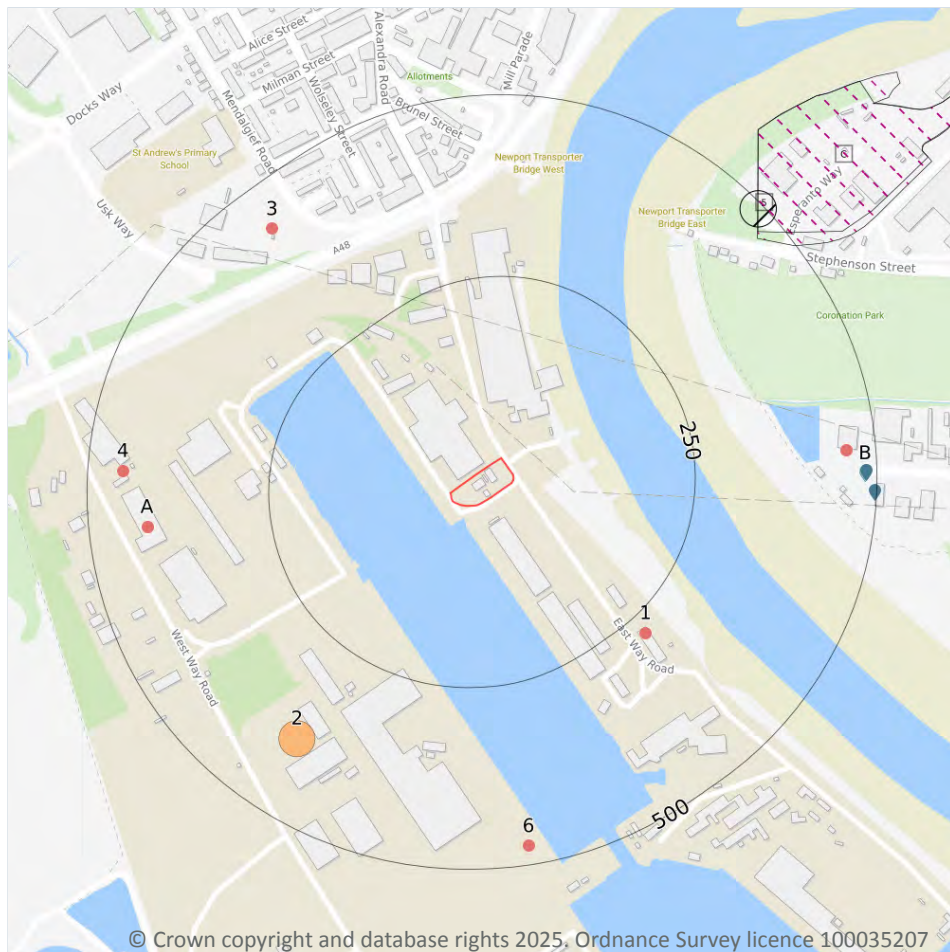
Features are displayed on the Past land use - un-grouped map on [page 26](#) >

ID	Location	Land Use	Date	Group ID
R	406m N	Wagon Repair Works	1956	39675
R	406m N	Wagon Repair Works	1955	39675

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

3.1 Active or recent landfill

Records within 500m

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

2

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

Features are displayed on the Waste and landfill map on [page 39 >](#)

ID	Location	Site address	Source	Data type
C	464m NE	Refuse Tip	1965 mapping	Polygon
C	471m NE	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

1

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 39 >](#)

ID	Location	Details		
5	468m NE	Site Address: Next to Transporter Bridge, Newport Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Industrial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

1

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 39 >](#)



ID	Location	Address	Further Details	Date
2	366m SW	Site Address: Land east of West Way Road, Alexandra Docks, NEWPORT, Gwent, NP20 2WD	Type of Site: Waste Transfer Station Planning application reference: 11/0817 Description: Scheme comprises construction of a waste transfer station and ancillary amenity building with associated parking, vehicle turning and container handling areas. Construction - metal cladding, steel cladding walls; metal cladding, pitched roof; rooflight steel framed windows; roller shutter, steel doors; portal, steel frame; black top surfacing, concrete paving, fencing, Tarmac surfacing site works; bathroom, fire alarm system, kitchen fittings. An application (ref: 11/0817) for detailed planning permission was granted by Newport B.C. The start date, contract period and project value are for guideline only. Detailed plans approved. Data source: Historic Planning Application Data Type: Point	01/05/2012

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

3.6 Licensed waste sites

Records within 500m	19
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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 39 >](#)

ID	Location	Details		
B	484m E	Site Name: - Site Address: Newport Oil Treatment Plant, 7 New Quay Road, Felnex Industrial Estate, Newport, Gwent, NP19 4PL Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: MB3290HT EPR reference: - Operator: Slicker Recycling Limited Waste Management licence No: - Annual Tonnage: 4999	Issue Date: 12/01/2018 Effective Date: 12/01/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	484m E	Site Name: - Site Address: Newport Oil Treatment Plant, 7 New Quay Road, Felnex Industrial Estate, Newport, Gwent, NP19 4PL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: - Environmental Permitting Regulations (Waste) Licence Number: MB3290HT EPR reference: - Operator: Slicker Recycling Limited Waste Management licence No: - Annual Tonnage: 4999	Issue Date: 12/01/2018 Effective Date: 12/01/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	484m E	Site Name: - Site Address: Eco Oil Ltd (P P C Permit), Newport, Gwent, NP19 7AA Correspondence Address: -	Type of Site: Chemical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: VP3098EG EPR reference: - Operator: Mr Robert Oakley (P P C Permit) Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: 08/01/2008 Modified: - Surrendered Date: - Expiry Date: 29/10/2007 Cancelled Date: - Status: Expired
B	484m E	Site Name: - Site Address: Eco Oil Ltd (P P C Permit), Newport, Gwent, NP19 7AA Correspondence Address: -	Type of Site: Chemical Treatment Facility Size: - Environmental Permitting Regulations (Waste) Licence Number: VP3098EG EPR reference: - Operator: Mr Robert Oakley (P P C Permit) Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: 08/01/2008 Modified: - Surrendered Date: - Expiry Date: 29/10/2007 Cancelled Date: - Status: Expired
B	484m E	Site Name: - Site Address: Newport Oil Treatment Plant, 7 New Quay Road, Felnex Industrial Estate, Newport, Gwent, NP19 4PL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: - Environmental Permitting Regulations (Waste) Licence Number: MB3290HT EPR reference: - Operator: Slicker Recycling Limited Waste Management licence No: - Annual Tonnage: 4999	Issue Date: 12/01/2018 Effective Date: 12/01/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

ID	Location	Details		
B	484m E	Site Name: - Site Address: Eco Oil Ltd (P P C Permit), Newport, Gwent, NP19 7AA Correspondence Address: -	Type of Site: Chemical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: VP3098EG EPR reference: - Operator: - Waste Management licence No: 300010 Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: 08/01/2008 Modified: - Surrendered Date: - Expiry Date: 29/10/2007 Cancelled Date: - Status: Expired
B	484m E	Site Name: Eco Oil Ltd Site Address: Eco Oil Ltd, 7, New Quay Road, Stephenson St Ind Estate, Newport, NP19 4PL Correspondence Address: Suite 2, 6th Floor, Clarence House, Clarence Place, Newport, NP19 7AA	Type of Site: Chemical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECO006 EPR reference: - Operator: Eco Oil Ltd Waste Management licence No: 30164 Annual Tonnage: 74999	Issue Date: 25/05/1995 Effective Date: - Modified: 19/11/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	484m E	Site Name: Eco Oil Ltd Site Address: 7, New Quay Road, Felnex Ind. Est, Newport, Gwent, NP19 4PL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECO006 EPR reference: EA/EPR/PP3295FP/V004 Operator: Eco Oil Ltd Waste Management licence No: 30164 Annual Tonnage: 4999	Issue Date: 25/05/1995 Effective Date: - Modified: 28/09/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	484m E	Site Name: Eco Oil Ltd Site Address: Eco Oil Ltd, 7, New Quay Road, Stephenson St Ind Estate, Newport, NP19 0PL Correspondence Address: 7, New Quay Road, Stephenson St Ind Est, Newport, Gwent, NP9 0PL	Type of Site: Chemical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECO006 EPR reference: - Operator: Eco Oil Limited Waste Management licence No: 30164 Annual Tonnage: 74999	Issue Date: 25/05/1995 Effective Date: - Modified: 19/11/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
B	484m E	Site Name: Eco Oil Ltd (ppc Permit) Site Address: Suite 2, 6th Floor, Clarence H, 6th Floor, Clarence Place, Newport, Gwent, NP19 7AA Correspondence Address: Clarence House, Suite 2, 6th Floor, Clarence Place, Newport, Gwent, NP19 7AA	Type of Site: Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECO022 EPR reference: EA/EPR/VP3098EG/A001 Operator: Mr Robert Oakley (ppc Permit) Waste Management licence No: 300010 Annual Tonnage: 74999	Issue Date: 1/8/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC
B	484m E	Site Name: Eco Oil Ltd (P P C Permit) Site Address: Suite 2, 6th Floor, Clarence H, 6th Floor, Clarence Place, Newport, Gwent, NP19 7AA Correspondence Address: -	Type of Site: Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECO022 EPR reference: EA/EPR/VP3098EG/A001 Operator: Mr Robert Oakley (P P C Permit) Waste Management licence No: 300010 Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC
B	484m E	Site Name: Eco Oil Ltd Site Address: Suite 2, 6th Floor, Clarence H, 6th Floor, Clarence Place, Newport, Gwent, NP19 7AA Correspondence Address: Clarence House, Suite 2, 6th Floor, Clarence Place, Newport, Gwent, NP19 7AA	Type of Site: Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECO022 EPR reference: - Operator: Mr Robert Oakley (dummy Entry For Purpose Of Site Returns) (ppc) Waste Management licence No: 300010 Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
B	484m E	Site Name: - Site Address: Eco Oil Ltd (P P C Permit), Gwent, Newport, Newport, NP19 7AA Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: VP3098EG EPR reference: - Operator: Mr Robert Oakley (P P C Permit) Waste Management licence No: 300010 Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: 08/01/2008 Modified: - Surrendered Date: - Expiry Date: 29/10/2007 Cancelled Date: - Status: Expired
B	484m E	Site Name: - Site Address: Eco Oil Ltd, Felnex Ind. Est, Newport, Newport, NP19 4PL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PP3295FP EPR reference: - Operator: Eco Oil Ltd Waste Management licence No: 0 Annual Tonnage: 4999	Issue Date: 25/05/1995 Effective Date: 25/05/1995 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
B	484m E	Site Name: - Site Address: Eco Oil Ltd (P P C Permit), Newport, Newport, NP19 7AA Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: VP3098EG EPR reference: - Operator: Mr Robert Oakley (P P C Permit) Waste Management licence No: 0 Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: 08/01/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
B	484m E	Site Name: - Site Address: Newport Oil Treatment Plant, 7 New Quay Road, Felnex Industrial Estate, Gwent, Newport, Newport, NP19 4PL Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MB3290HT EPR reference: - Operator: Slicker Recycling Limited Waste Management licence No: 30164 Annual Tonnage: 4999	Issue Date: 12/01/2018 Effective Date: 12/01/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
B	485m E	Site Name: Eco Oil Ltd Site Address: 7, New Quay Road, Felnex Ind. Est, Newport, Gwent, NP19 4PL Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ECO006 EPR reference: PP3295FP/V004 Operator: Eco Oil Ltd Waste Management licence No: 30164 Annual Tonnage: 0	Issue Date: 25/05/1995 Effective Date: - Modified: 28/09/2010 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified
B	485m E	Site Name: Eco Oil Ltd (P P C Permit) Site Address: Suite 2, 6th Floor, Clarence H, 6th Floor, Clarence Place, Newport, Gwent, NP19 7AA Correspondence Address: -	Type of Site: Chemical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECO022 EPR reference: VP3098EG/A001 Operator: Mr Robert Oakley (P P C Permit) Waste Management licence No: 300010 Annual Tonnage: 74999	Issue Date: 08/01/2008 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: To PPC
B	497m E	Site Name: Newport Oil Treatment Plant EA/EPR/UP3336LT/V003 Site Address: Eco-Oil Limited, Newport Oil Treatment Plant EA/EPR/UP3336LT/V003, 7 New Quay Road Felnex Industrial Estate, Newport, South Wales, NP19 4PL Correspondence Address: -	Type of Site: Other Landfill Site taking Special Waste Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: UP3336LT EPR reference: - Operator: Eco-Oil Limited Waste Management licence No: 0 Annual Tonnage: 74999	Issue Date: 29/05/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

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

3.7 Waste exemptions

Records within 500m

8

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 39 >](#)

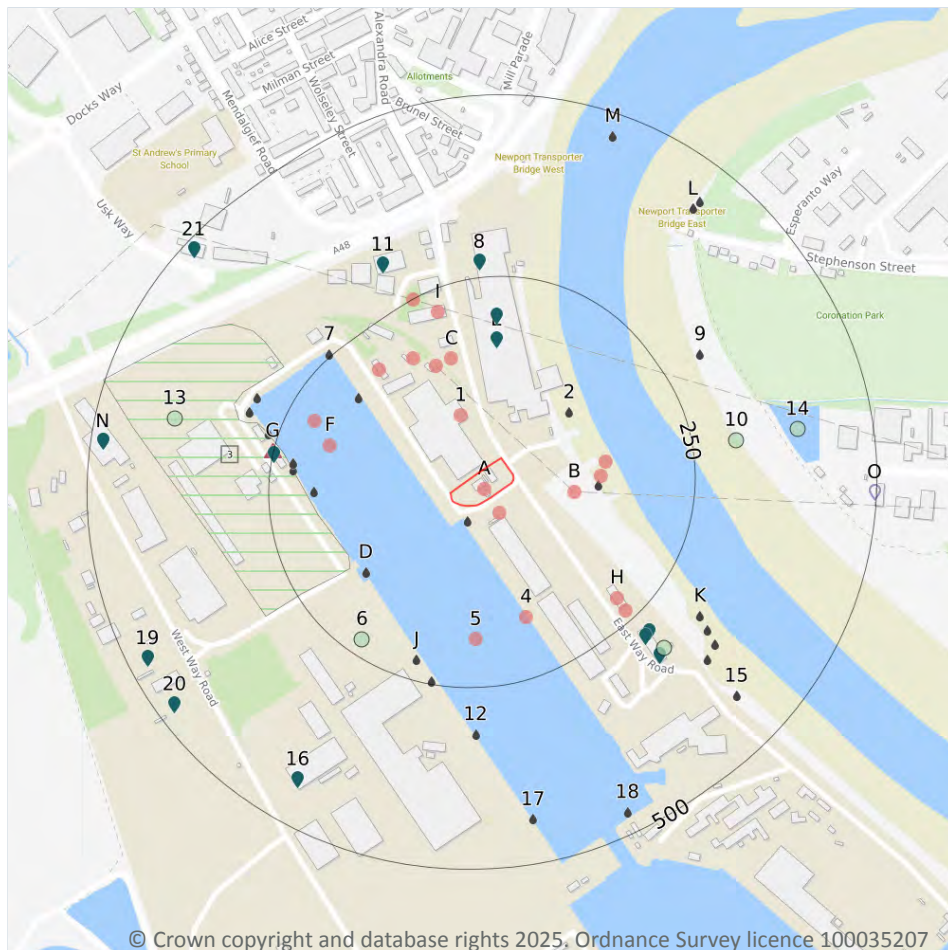


ID	Location	Site	Reference	Category	Sub-Category	Description
1	277m SE	Associated British Ports, Associated British Ports, Alexandra Docks, Casnewydd, Np202uw	NRW-WME018300	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	420m W	James Norvill Properties, Westway Road, Newport, Gwent, Np20 2pq	NRW-WME049737	Using waste exemption	Not on a farm	Use of waste in construction
A	420m W	T G Howell & Sons Ltd, Alexandra Dock, Westway Road, Newport, Np202pq	NRW-WME035225	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
3	438m NW	Global Haulage Solutions Limited, Plot 4 Westaway, Usk Way, Newport, Newport, Np202ds	NRW-WME065869	Storing waste exemption	Not on a farm	Storage of waste in a secure place
4	452m W	Premier Forest Products, Premier Forest Products Ltd, South Way, Alexandra Dock, Casnewydd, Np202pq	NRW-WME017124	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
B	459m E	Slicker Recycling Ltd, Slicker Recycling Ltd, Unit 1, New Quay Road, Felnex Industrial Estate, Newport, Newport, Np19 4pl	NRW-WME092526	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	459m E	Slicker Recycling Ltd, Slicker Recycling Ltd, Unit 1, New Quay Road, Felnex Industrial Estate, Newport, Newport, Np19 4pl	NRW-WME092526	Storing waste exemption	Not on a farm	Storage of waste in secure containers
6	474m S	Associated British Ports, Junction Cut Road, Alexandra Docks, Alexandra Docks, Newport, Newport, Np20 2rz	NRW-WME090877	Storing waste exemption	Not on a farm	Storage of waste in a secure place

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- 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

18

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 48](#) >

ID	Location	Company	Address	Activity	Category
A	On site	Electricity Sub Station	Gwent, NP20	Electrical Features	Infrastructure and Facilities
A	24m SE	Pylon	Gwent, NP20	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
1	80m N	Island Steel UK Ltd	Alexandra Dock, Newport, Gwent, NP20 2NP	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
B	85m E	Pylon	Gwent, NP20	Electrical Features	Infrastructure and Facilities
B	120m E	Disused Landing Stage	Gwent, NP20	Moorings and Unloading Facilities	Water
B	128m E	Jetty (Disused)	Gwent, NP20	Moorings and Unloading Facilities	Water
C	153m N	Mast	Gwent, NP20	Telecommunications Features	Infrastructure and Facilities
C	155m N	Pylon	Gwent, NP20	Electrical Features	Infrastructure and Facilities
4	168m S	North Quay	Gwent, NP20	Moorings and Unloading Facilities	Water
F	178m W	Dolphins	Gwent, NP20	Moorings and Unloading Facilities	Water
C	182m NW	Electricity Sub Station	Gwent, NP20	Electrical Features	Infrastructure and Facilities
5	184m S	Quay	Gwent, NP20	Moorings and Unloading Facilities	Water
C	195m NW	Arch Engineering Ltd	East Side North Dock 2, North Dock Road, Alexandra Docks, Newport, Gwent, NP20 2NP	Industrial Engineers	Engineering Services
F	211m W	Dolphins	Gwent, NP20	Moorings and Unloading Facilities	Water
H	215m SE	C J N Engineering Ltd	Alexandra Dock, East Way Road, Newport, Gwent, NP20 2NP	Structural Engineers	Engineering Services
I	219m N	Glamair Supplies Ltd	Lewis House 4, East Way Road, Alexandra Docks, Newport, Gwent, NP20 2NP	Pumps and Compressors	Industrial Products
H	235m SE	Altraxx Plant Services	Alexandra Docks, Newport, Gwent, NP20 2UW	Construction Plant	Construction Services
I	250m N	Pylon	Gwent, NP20	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**1**

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 48](#) >

ID	Location	Company	Address	Operational status	Tier
3	161m SW	Burt Boulton & Haywood Limited	Burt Boulton & Haywood Limited, Newport, Alexandra Dock, Newport, Gwent, NP20 2WA	Current COMAH Site	COMAH Upper Tier Operator



This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 48 >](#)

ID	Location	Details	
G	251m W	Application reference number: No Details Application status: Approved Application date: No Details Address: Burt Boulton and Haywood Ltd, Alexandra Dock, Newport, Gwent, NP20 2WA	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

19

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 48 >](#)



ID	Location	Details	
O	497m E	Operator: Slicker Recycling Ltd Installation Name: Slicker Recycling Process: - Permit Number: ZP3334AQ Original Permit Number: -	EPR Reference: - Issue Date: 09/08/2021 Effective Date: 09/08/2021 Last date noted as effective: 29/10/2024 Status: Effective
O	497m E	Operator: Slicker Recycling Ltd Installation Name: Slicker Recycling Process: DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 50 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC CONCERNING URBAN WASTE-WATER TREATMENT(4)—PHYSICO-CHEMICAL TREATMENT Permit Number: ZP3334AQ Original Permit Number: -	EPR Reference: - Issue Date: 09/08/2021 Effective Date: 09/08/2021 Last date noted as effective: 29/10/2024 Status: Effective
O	497m E	Operator: Slicker Recycling Ltd Installation Name: Slicker Recycling Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES - BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: ZP3334AQ Original Permit Number: -	EPR Reference: - Issue Date: 09/08/2021 Effective Date: 09/08/2021 Last date noted as effective: 29/10/2024 Status: Effective
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT Process: ASSOCIATED PROCESS Permit Number: QP3335XE Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 02/09/2009 Effective Date: 02/09/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT EPR/UP3336LT Process: ASSOCIATED PROCESS Permit Number: VP3231ZC Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: QP3335XE Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 02/09/2009 Effective Date: 02/09/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: QP3335XE Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 02/09/2009 Effective Date: 02/09/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT Process: ASSOCIATED PROCESS Permit Number: UP3336LT Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 29/10/2007 Effective Date: 29/10/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: UP3336LT Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 29/10/2007 Effective Date: 29/10/2007 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT EPR/UP3336LT Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: VP3231ZC Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT EPR/UP3336LT Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING OIL RE-REFINING OR OTHER REUSES OF OIL Permit Number: VP3231ZC Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT Process: CREATED BY IED - DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING OIL RE-REFINING OR OTHER REUSES OF OIL Permit Number: VP3231ZC Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE



ID	Location	Details	
O	497m E	Operator: ECO-OIL LIMITED Installation Name: NEWPORT OIL TREATMENT PLANT Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: VP3231ZC Original Permit Number: UP3336LT	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
O	497m E	Operator: SLICKER RECYCLING LTD Installation Name: NEWPORT OIL TREATMENT PLANT EA/EPR/UP3336LT/V003 Process: - Permit Number: ZP3334AQ Original Permit Number: -	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2017 Status: WITHDRAWN
O	497m E	Operator: SLICKER RECYCLING LTD Installation Name: NEWPORT OIL TREATMENT PLANT EA/EPR/UP3336LT/V003 Process: - Permit Number: ZP3334AQ Original Permit Number: -	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2017 Status: WITHDRAWN
O	497m E	Operator: SLICKER RECYCLING LTD Installation Name: NEWPORT OIL TREATMENT PLANT EA/EPR/UP3336LT/V003 Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ... Permit Number: ZP3334AQ Original Permit Number: VP3231ZC	EPR Reference: - Issue Date: 28/07/2015 Effective Date: 28/07/2015 Last date noted as effective: 15/07/2017 Status: EFFECTIVE
O	497m E	Operator: SLICKER RECYCLING LTD Installation Name: SLICKER RECYCLING Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ... Permit Number: ZP3334AQ Original Permit Number: VP3231ZC	EPR Reference: - Issue Date: 29/11/2017 Effective Date: 29/11/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
O	497m E	Operator: SLICKER RECYCLING LTD Installation Name: SLICKER RECYCLING Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ... Permit Number: ZP3334AQ Original Permit Number: VP3231ZC	EPR Reference: - Issue Date: 29/11/2017 Effective Date: 29/11/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE



ID	Location	Details	
O	497m E	Operator: SLICKER RECYCLING LTD Installation Name: SLICKER RECYCLING Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ... Permit Number: ZP3334AQ Original Permit Number: VP3231ZC	EPR Reference: - Issue Date: 29/11/2017 Effective Date: 29/11/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE

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

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

Records within 500m	15
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 48 >](#)

ID	Location	Address	Details	
E	163m N	Rugby Cement, East Way Road, Alexandra Dock, Newport, South Wales, Gwent, NP20 2NQ	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
E	196m N	Rowecord, Neptune Works, Usk Way, Newport, South Wales, NP20 2SS	Process: Coating Processes Status: Historical Permit Permit Type: Part A2 & B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
G	249m W	Burt Boulton & Haywood Ltd, Westway Road, Alexandra Dock, Newport, South Wales, NP20 2WA	Process: Coating Processes Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
8	272m N	AIC Steel, Usk Way, Newport, South Wales, NP20 2SS	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	279m SE	ABP, Former Westland Coal Site, Eastway Road, Newport, South Wales, NP20 2UW	Process: Coal & Coke Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Address	Details	
H	279m SE	ABP, Atlantic Site, Alexandra Dock, Newport, South Wales, NP20 2UW	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	280m SE	Westland Coal Supplies, South Quay, Alexandra Dock, Newport, South Wales, NP20 2UW	Process: Coal & Coke Status: Revoked Permit Type: Part A2 & B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
11	312m NW	International Timber Ltd, Saint-Gobain Building Distribution Ltd, International Timber Supply, North Dock, Alexandra Dock, Newport, NP19 2WB	Process: Timber Manufacture Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	313m SE	Hargreaves (UK) Services Ltd, McPhail's Yard Area, Atlantic Site, Alexandra Dock, NP20 2UW	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
16	438m SW	T G Howells & Sons, Alexandra Docks, Westway Road, Newport, South Wales, NP20 2PQ	Process: Coating Processes Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
19	473m SW	Dragon Asphalt, 16 West Way Road, Alexandra Docks Newport, South Wales, NP20 2WD	Process: Roadstone Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
20	474m SW	Wright Minimix, 18 West Way Road, Alexandra Docks, Newport, South Wales, NP20 2NP	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
N	484m W	Jewson Ltd, Internal Timber Supply, North Dock, Alexandra Dock, Newport, South Wales, NP20 2WB	Process: Timber Manufacture Status: Historical Permit Permit Type: Part A2 & B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
N	484m W	Jewson Ltd, Internal Timber Supply, North Dock, Alexandra Dock, Newport, South Wales, NP20 2WB	Process: Timber Manufacture Status: Historical Permit Permit Type: Part A2 & B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Address	Details	
21	487m NW	Precision Cast Components Ltd, Usk Way, Newport, South Wales, Gwent, NP20 2JY	Process: Non-ferrous Metal Foundry Processes Status: Historical Permit Permit Type: Part A2 & B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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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.

4.13 Licensed Discharges to controlled waters

Records within 500m	30
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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 48 >](#)

ID	Location	Address	Details	
A	21m SW	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033319 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 14/06/1995
2	113m NE	PREMISESATNEWPORTDOCKS,PREMISESATNEWPORTDOCKS,NEWPORT,NEWPORTCBC,WALES,NP202NP	Effluent Type: - Permit Number: AN0033353 Permit Version: 0 Receiving Water: RIVER USK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
B	117m E	PREMISESATNEWPORTDOCK,PREMISESATNEWPORTDOCK,NEWPORT,GWENT,WALES,NP92NP	Effluent Type: - Permit Number: AN0033354 Permit Version: 0 Receiving Water: RIVER USK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
D	155m SW	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033313 Permit Version: 1 Receiving Water: NORTH DOCK	Status: REVOKED - UNSPECIFIED Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 02/02/1993



ID	Location	Address	Details	
D	155m SW	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033313 Permit Version: 2 Receiving Water: NORTH DOCK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: 24/01/1997
C	182m NW	PREMISESATNEWPORTDOCK,PREMISESATNEWPORTDOCK,NEWPORT,NEWPORTCBC,WALES,NP202NP	Effluent Type: - Permit Number: AN0033318 Permit Version: 0 Receiving Water: NORTH DOCK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
G	189m W	TRADEEFFLUENTTREATMENT@BBHLTD,BURTBOLTON&HAYWOODLTD,ALEXANDRADOCK,NEWPORT,GWENT,NP202WA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: GB3593HE Permit Version: 0 Receiving Water: ALEXANDRA DOCK	Status: Effective Issue date: 02/03/2015 Effective Date: 02/03/2015 Revocation Date: -
G	219m W	FINNFORESTBBHLTDALEXANDRADOCKS,FINNFORESTBBHLTD,ALECAN DRADOCKS,NEWPORT,GWENT,NP202WA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: AN0336701 Permit Version: 1 Receiving Water: NORTH DOCK OF NEWPORT DOCKS	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 22/08/2003 Effective Date: 22/08/2003 Revocation Date: -
G	220m W	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033314 Permit Version: 1 Receiving Water: NORTH DOCK	Status: REVOKED - UNSPECIFIED Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 02/02/1993
G	220m W	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033314 Permit Version: 2 Receiving Water: NORTH DOCK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: 24/01/1997
J	221m S	NEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033312 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
J	246m S	NEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033311 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



ID	Location	Address	Details	
7	253m NW	NEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033317 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 07/10/1992
G	263m W	SEASCOUTOATHOUSENORTHEND OFN,SEASCOUTOATHOUSE,NORTHENDOFNORTHDOCK,ALEXANDRADOCK,NEWPORT,NP202WD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: AB0056701 Permit Version: 0 Receiving Water: ALEXANDRA DOCK	Status: Effective Issue date: 14/06/1994 Effective Date: 14/06/1994 Revocation Date: -
G	297m W	PREMISESATNEWPORTDOCK,PREMISESATNEWPORTDOCK,NEWPORTDOCK,NEWPORT,NEWPORTCBC	Effluent Type: - Permit Number: AN0033316 Permit Version: 0 Receiving Water: NORTH DOCK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
G	298m W	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033315 Permit Version: 1 Receiving Water: NORTH DOCK	Status: REVOKED - UNSPECIFIED Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 02/02/1993
G	298m W	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033315 Permit Version: 2 Receiving Water: NORTH DOCK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: 24/01/1997
9	306m NE	NEWPORTCORONATIONPARKOUTFAL	Effluent Type: UNSPECIFIED Permit Number: AB0057601 Permit Version: 1 Receiving Water: USK ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 06/09/1967 Effective Date: 06/09/1967 Revocation Date: 21/09/1995
12	315m S	JEWSONLTDTIMBERSUPPLYDEPOTNORT,JEWSONLTD,TIMBERSUPPLYDEPOT,NORTHDOCK,ALEXANDRADOCKNEWPORT,NP202WB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: AN0374301 Permit Version: 0 Receiving Water: NORTH DOCK NEWPORT	Status: Effective Issue date: 10/12/2004 Effective Date: 10/12/2004 Revocation Date: -
K	317m SE	PREMISESATNEWPORTDOCKS,PREMISESATNEWPORTDOCKS,NEWPORT,GWENT,WALES,NP202NP	Effluent Type: - Permit Number: AN0033355 Permit Version: 0 Receiving Water: RIVER USK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
K	337m SE	PREMISESATNEWPORTDOCKS,PREMISESATNEWPORTDOCKS,NEWPORT,NEWPORTCBC,WALES,NP202NP	Effluent Type: - Permit Number: AN0033356 Permit Version: 0 Receiving Water: RIVER USK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -



ID	Location	Address	Details	
K	357m SE	NEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033357 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
K	363m SE	PREMISESATNEWPORTDOCK,PREMISESATNEWPORTDOCK,NEWPORT,NEWPORTCBC,WALES	Effluent Type: - Permit Number: AN0033324 Permit Version: 0 Receiving Water: RIVER USK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
15	426m SE	PREMISESATNEWPORTDOCK,PREMISESATNEWPORTDOCK,NEWPORT,GWENT,WALES	Effluent Type: - Permit Number: AN0033358 Permit Version: 0 Receiving Water: RIVER USK	Status: Effective Issue date: 03/11/1992 Effective Date: 03/02/1993 Revocation Date: -
L	433m NE	NEWPORTSTEVENSONSTREETLAN	Effluent Type: UNSPECIFIED Permit Number: AC0142202 Permit Version: 1 Receiving Water: USK ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 17/04/1984 Effective Date: 17/04/1984 Revocation Date: 21/01/1994
17	439m S	PREMISESATNEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033310 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 14/06/1995
L	447m NE	NEWPORTSTEVENSONSTREETLAN	Effluent Type: UNSPECIFIED Permit Number: AC0142201 Permit Version: 1 Receiving Water: USK ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 17/04/1984 Effective Date: 17/04/1984 Revocation Date: 21/01/1994
M	469m N	PILLSOUTHMILLPARADE,MILLPARADE	Effluent Type: UNSPECIFIED Permit Number: AN0031501 Permit Version: 2 Receiving Water: USK ESTUARY	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 09/10/1992 Effective Date: 09/01/1993 Revocation Date: 10/01/2001
M	469m N	PILLSOUTHMILLPARADE,MILLPARADE	Effluent Type: UNSPECIFIED Permit Number: AN0031501 Permit Version: 1 Receiving Water: USK ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: 20/11/1987 Effective Date: 20/11/1987 Revocation Date: 08/01/1993
18	470m SE	NEWPORTDOCKS	Effluent Type: UNSPECIFIED Permit Number: AN0033320 Permit Version: 1 Receiving Water: SEVERN ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 10/09/1987 Effective Date: 10/09/1987 Revocation Date: 07/10/1992

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



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 1 April 2025

4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**5**

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 48](#) >



ID	Location	Details	
6	227m SW	Incident Date: 13/02/2015 Incident Identification: 1313670 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	309m SE	Incident Date: 05/08/2024 Incident Identification: 2411203 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: No Details Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
10	311m E	Incident Date: 06/09/2010 Incident Identification: 819952 Pollutant: Oils and Fuel Pollutant Description: Crude Oil	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
13	393m W	Incident Date: 25/07/2013 Incident Identification: 1138878 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	396m E	Incident Date: 04/05/2011 Incident Identification: 881869 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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

4.20 Pollution inventory waste transfers

Records within 500m	0
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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



4.21 Pollution inventory radioactive waste

Records within 500m

0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

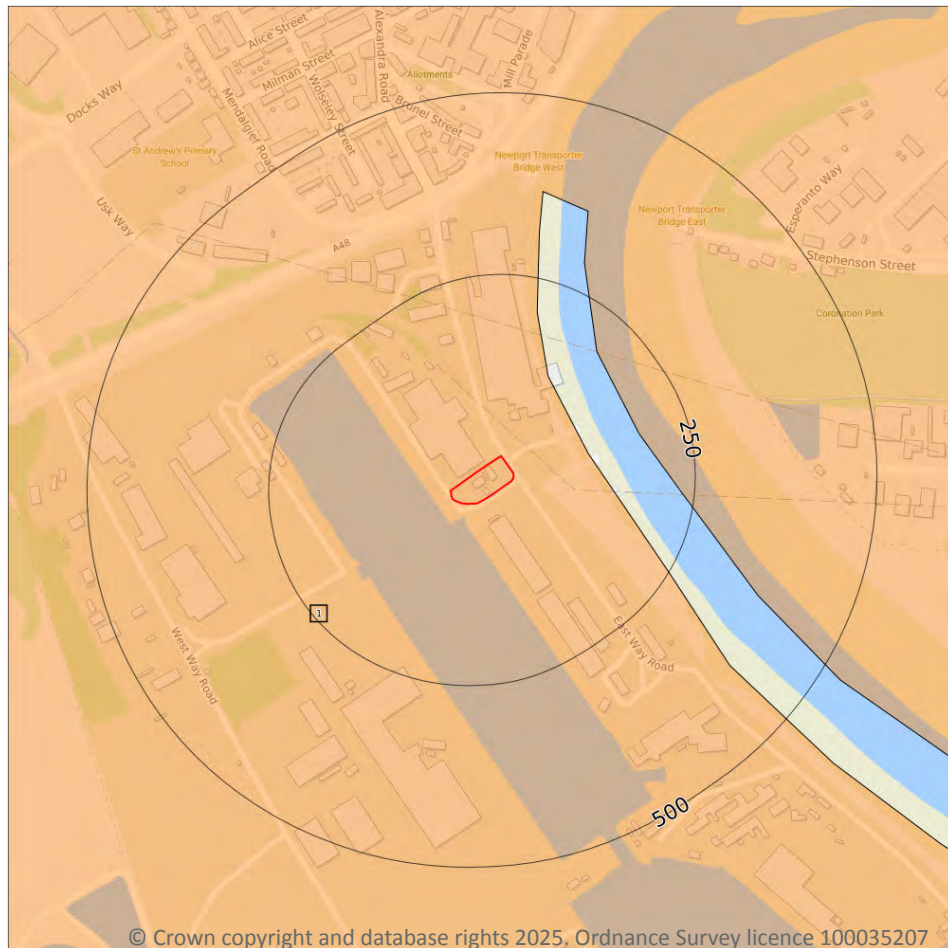
Features are displayed on the Hydrogeology map on [page 64](#) >

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

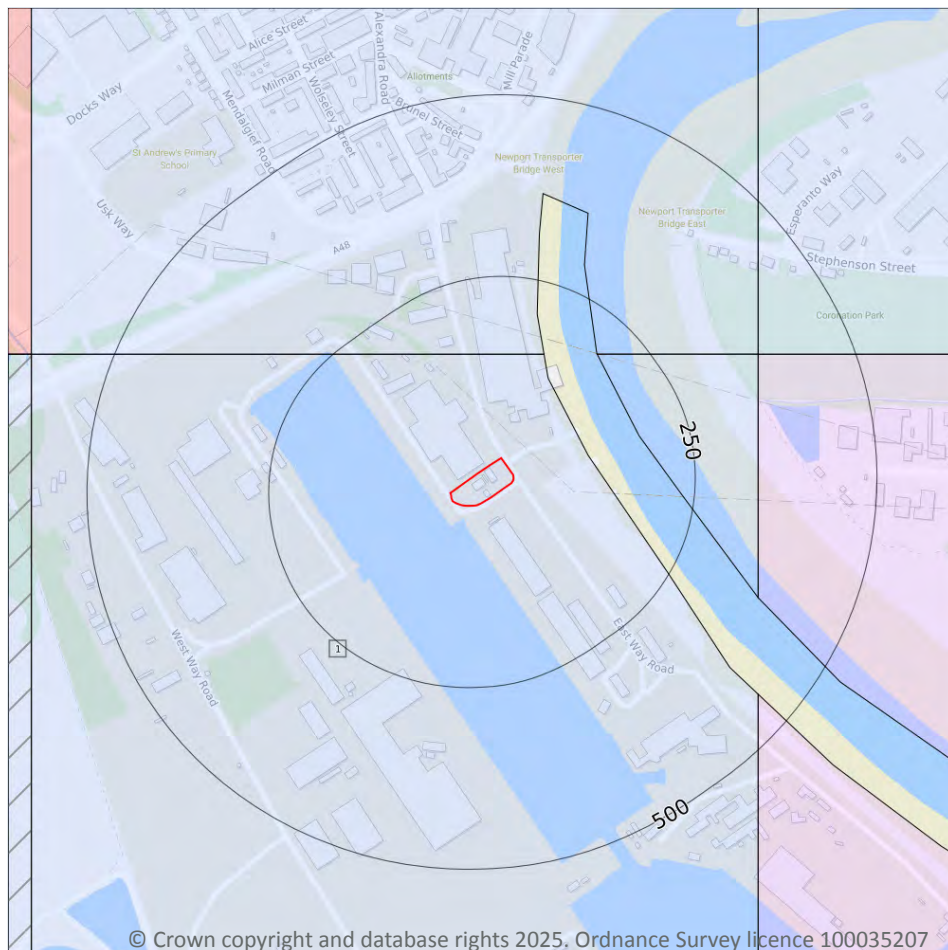
Features are displayed on the Bedrock aquifer map on [page 65](#) >

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

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



Groundwater vulnerability



— Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid.

Groundwater vulnerability is described as High, Medium or Low as follows:

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

Features are displayed on the Groundwater vulnerability map on [page 66](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	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: Unproductive Aquifer type: Unproductive 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 ↗.

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

0

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

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



5.7 Surface water abstractions

Records within 2000m

2

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 68](#) >

ID	Location	Details	
-	829m W	Status: Historical Licence No: 20/56/11/0013 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: DOCK FEEDER AT PILLGWENLLY TO WHITEHEAD Data Type: Point Name: Corus UK Ltd Easting: 330800 Northing: 186100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/10/1973 Expiry Date: - Issue No: 102 Version Start Date: 17/04/2000 Version End Date: -
-	1831m W	Status: Active Licence No: WA/056/0061/0004 Details: Transfer between Sources (Post Water Act 2003) - Very Low Direct Source: River Ebbw Point: - Data Type: Point Name: - Easting: 329752 Northing: 185652	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/11/2022 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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



5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

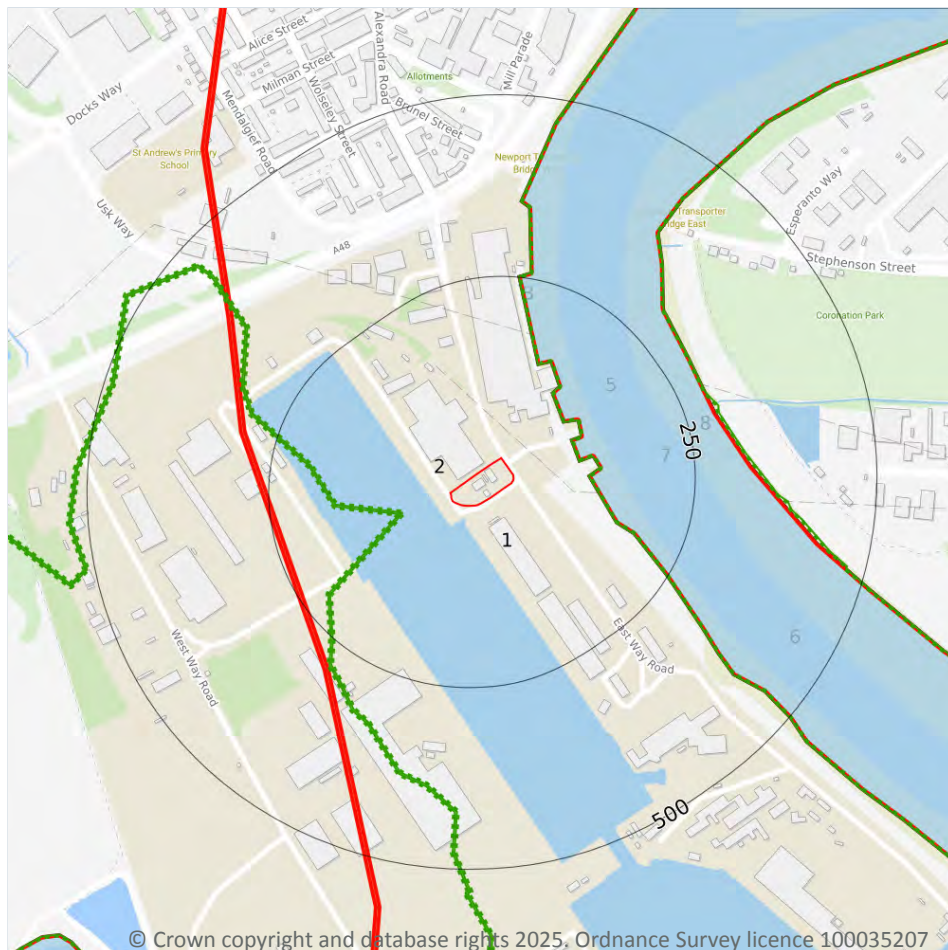
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

7

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 71 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
5	167m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Wysg



ID	Location	Type of water feature	Ground level	Permanence	Name
6	174m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Wysg
7	174m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	232m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	238m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	239m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	239m N	Tidal river or stream.	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 71](#) >

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 71](#) >



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal catchment	Not part of a river WB catchment	156	Usk below Abergavenny	Usk

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

6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

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

Features are displayed on the Hydrology map on [page 71 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
A	90m E	Transitional	USK	GB530905415404	Moderate	Good	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

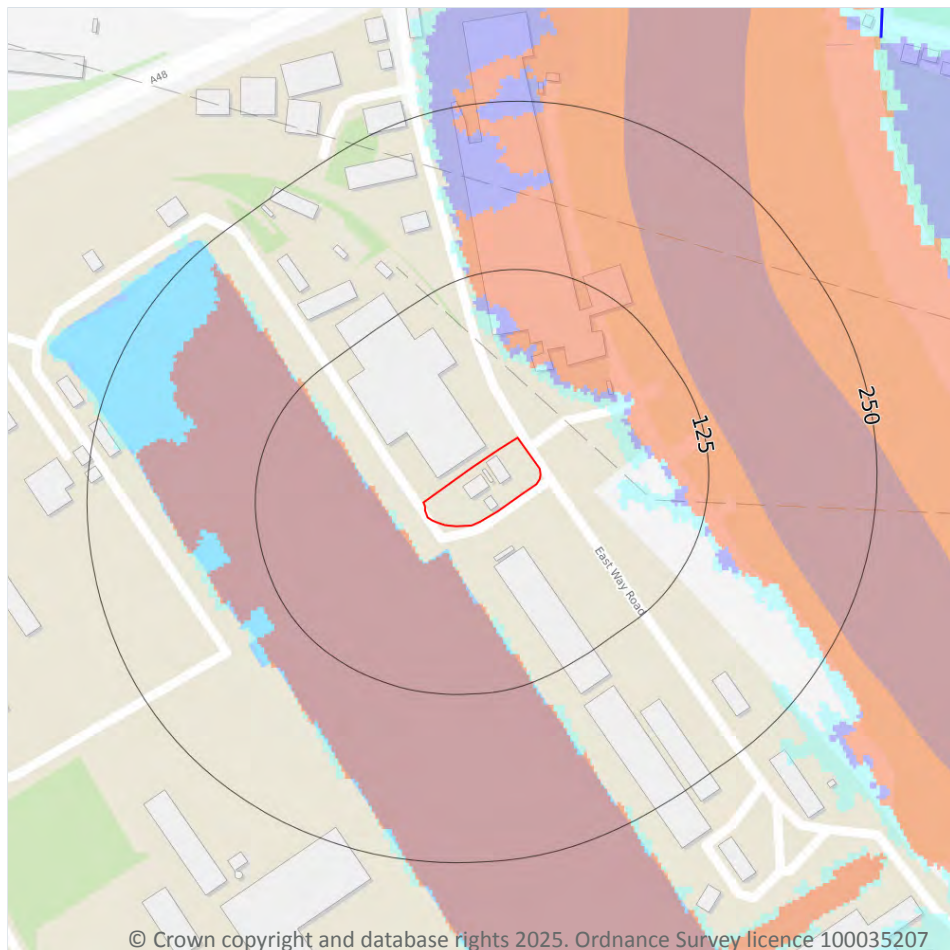
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on [page 71 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	SE Valleys Eastern Devonian Old Red Sandstone	GB40902G204700	Good	Good	Good	2017

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

7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

13

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 74 >](#)

Distance	Flood risk category
On site	N/A
0 - 50m	High

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

7.2 Historical Flood Events

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

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

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

7.3 Flood Defences

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

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

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

7.4 Areas Benefiting from Flood Defences

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

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

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

7.5 Flood Storage Areas

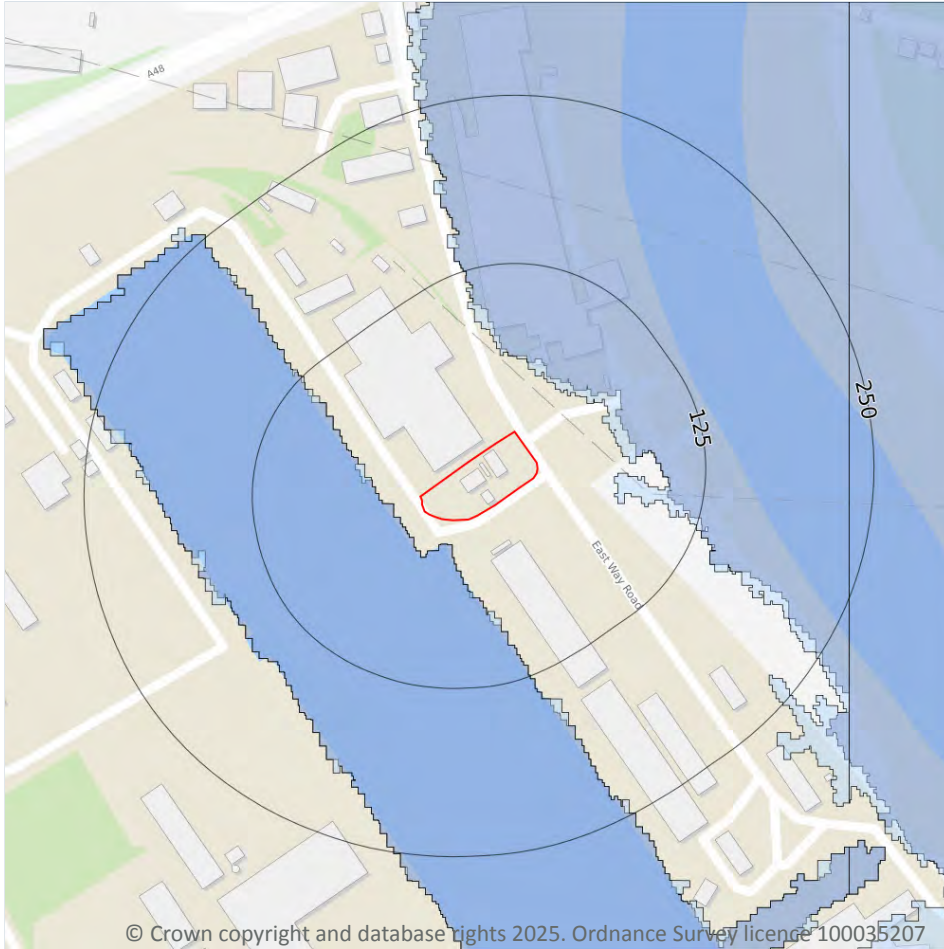
Records within 250m	0
----------------------------	----------

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

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



River and coastal flooding - Flood Zones



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

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 74 >](#)

Location	Type
18m SW	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 74 >](#)

Location	Type
18m SW	Zone 3 - (Fluvial /Tidal Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 100 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 78 >](#)

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

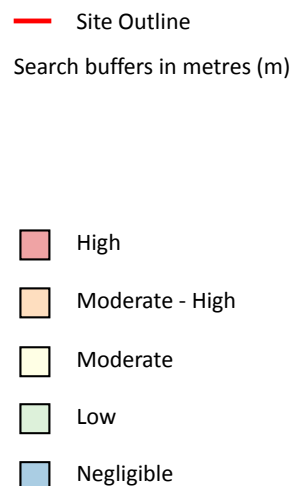
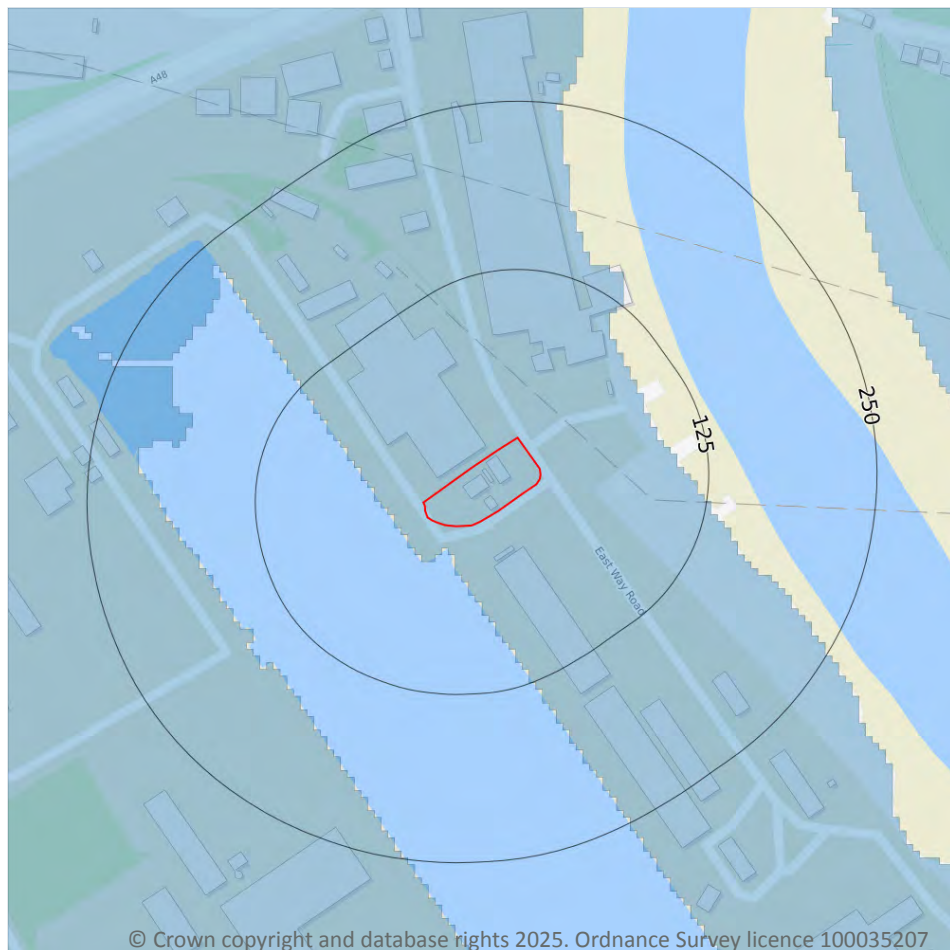
a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

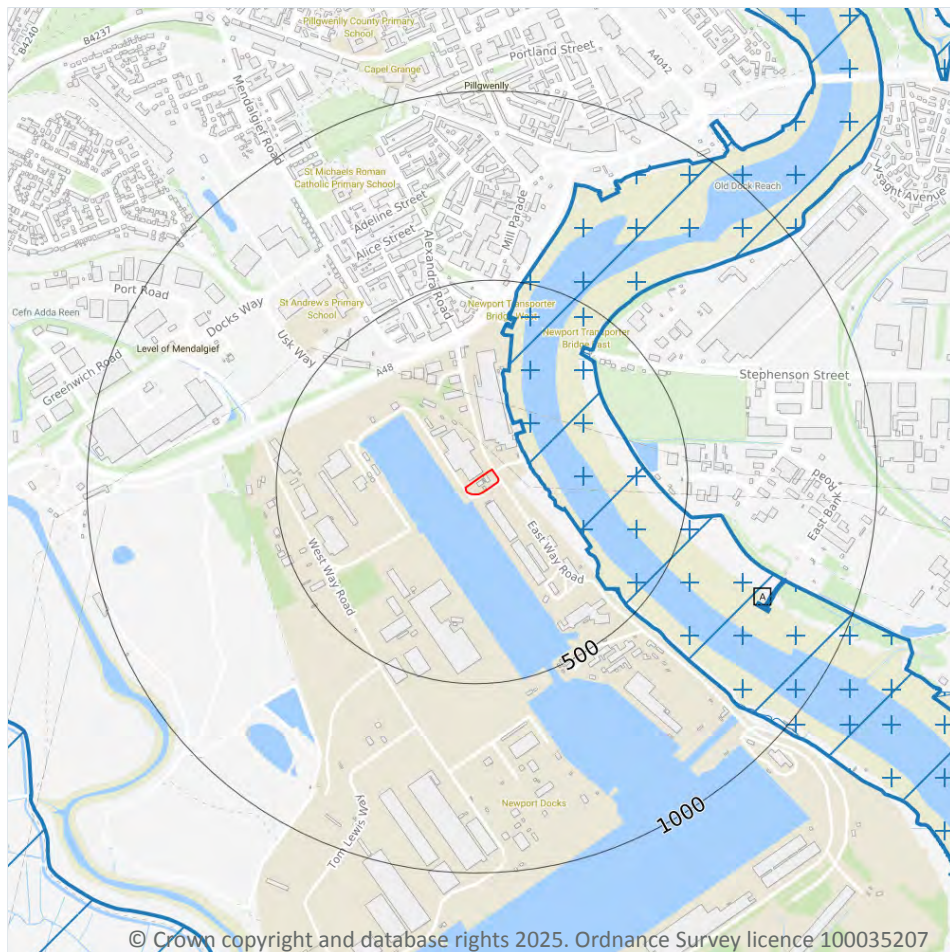
Negligible

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 80](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- X Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- / Designated Ancient Woodland

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 81](#) >

ID	Location	Name	Data source
A	90m NE	River Usk (Lower Usk) / Afon Wysg (Wysg Isaf)	Natural Resources Wales



ID	Location	Name	Data source
1	1329m SW	Gwent Levels - St. Brides	Natural Resources Wales
-	1625m S	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

1

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

Features are displayed on the Environmental designations map on [page 81](#) >



ID	Location	Site	Details
-	1685m S	Name: Severn Estuary (Wales) Site status: - Data source: Natural Resources Wales	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. 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. 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.

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



10.3 Special Areas of Conservation (SAC)

Records within 2000m

2

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 81 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
A	90m NE	River Usk / Afon Wysg	Estuaries; Intertidal mudflats and sandflats; Atlantic salt meadows; Rivers with floating vegetation often dominated by water-crowfoot; Beech forests on neutral to rich soils; Mixed woodland on base-rich soils associated with rocky slopes; Western acidic oak woodland; Bog woodland; Alder woodland on floodplains; Sea lamprey; Brook lamprey; River lamprey; Allis shad; Twaite shad; Atlantic salmon; Bullhead; Freshwater pearl mussel; White-clawed (or Atlantic stream) crayfish; Lesser horseshoe bat; Otter	Improved grassland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Broad-leaved deciduous woodland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Bogs, Marshes, Water fringed vegetation, Fens; Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland	Natural Resources Wales
-	1685m S	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)

Records within 2000m

1

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 81 >](#)



ID	Location	Name	Species of interest	Habitat description	Data source
-	1685m S	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

0

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.

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

10.7 Designated Ancient Woodland

Records within 2000m

6

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

Features are displayed on the Environmental designations map on [page 81](#) >

ID	Location	Name	Woodland Type
-	1720m SW	Unknown	Restored Ancient Woodland Site
-	1862m SW	Unknown	Ancient Woodland Site of Unknown Category



ID	Location	Name	Woodland Type
-	1870m W	Unknown	Restored Ancient Woodland Site
-	1966m W	Unknown	Ancient Semi Natural Woodland
-	1983m SW	Unknown	Restored Ancient Woodland Site
-	1986m W	Unknown	Ancient Semi Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

0

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

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



10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.



10.16 Nitrate Vulnerable Zones

Records within 2000m

0

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

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



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

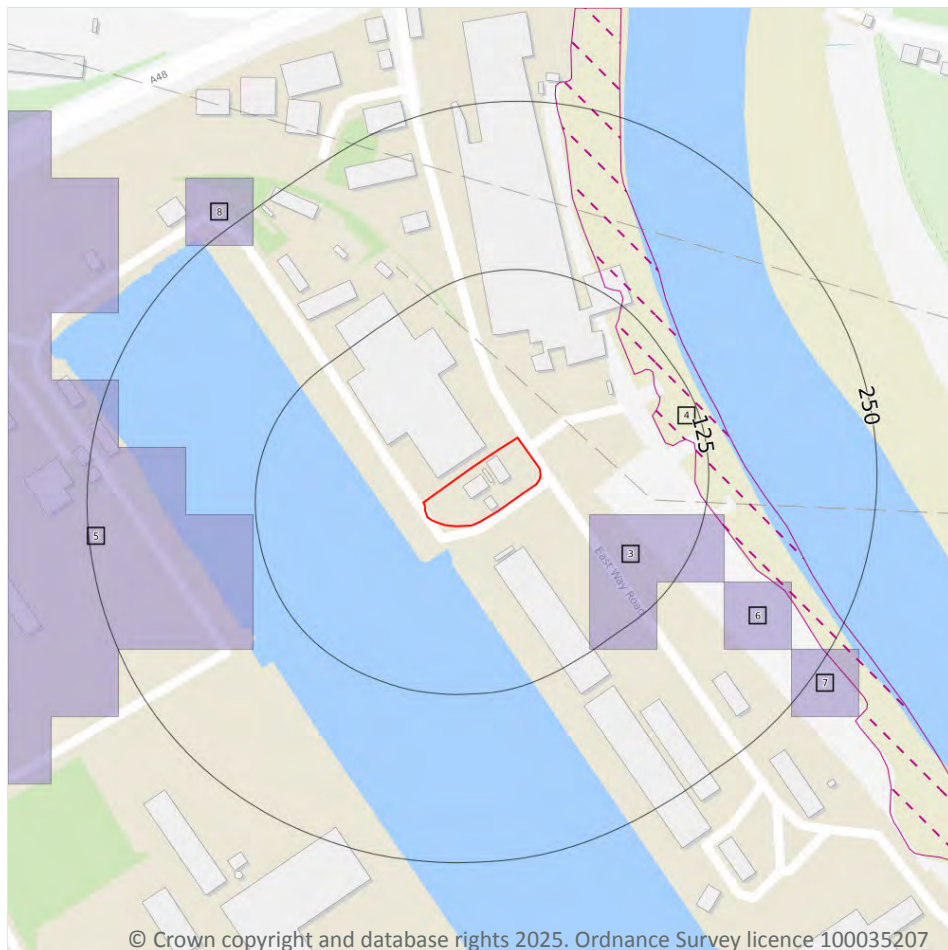
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

5

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 92](#) >

ID	Location	Classification	Description
3	45m E	Grade 4	Poor quality agricultural land
5	127m W	Grade 4	Poor quality agricultural land
6	157m E	Grade 4	Poor quality agricultural land



ID	Location	Classification	Description
7	226m SE	Grade 4	Poor quality agricultural land
8	229m NW	Grade 4	Poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

1

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.

Features are displayed on the Agricultural designations map on [page 92 >](#)

ID	Location	Name	Classification	Other relevant legislation
4	93m NE	-	Open Access Other Statutory Access Land	-

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

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 96](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	ST38NW

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

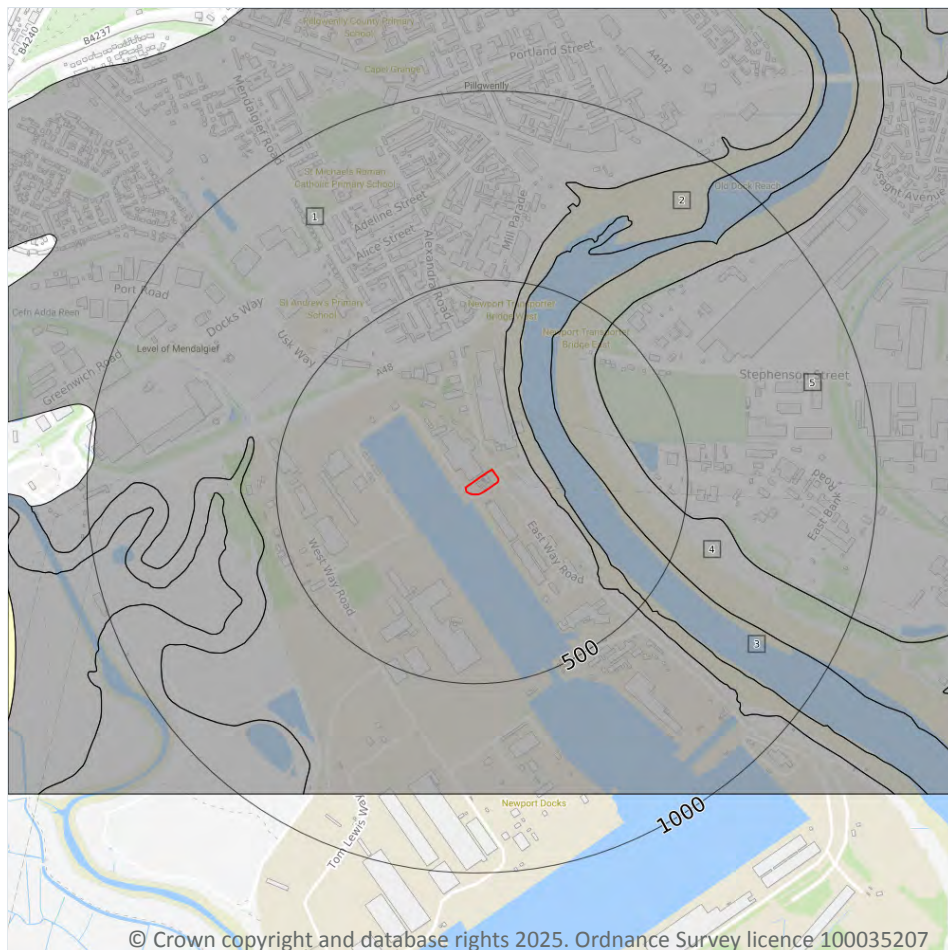
0

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



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

5

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 98](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-CZ	Tidal Flat Deposits - Clay, Silty (unlithified Deposits Coding Scheme)	Clay, Silty
2	92m E	BCHD-XCSV	Beach Deposits - Clay, Sand And Gravel	Clay, Sand And Gravel
3	136m NE	BCHD-XCSV	Beach Deposits - Clay, Sand And Gravel	Clay, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	214m NE	BCHD-XCSV	Beach Deposits - Clay, Sand And Gravel	Clay, Sand And Gravel
5	338m NE	TFD-CZ	Tidal Flat Deposits - Clay, Silty (unlithified Deposits Coding Scheme)	Clay, Silty

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

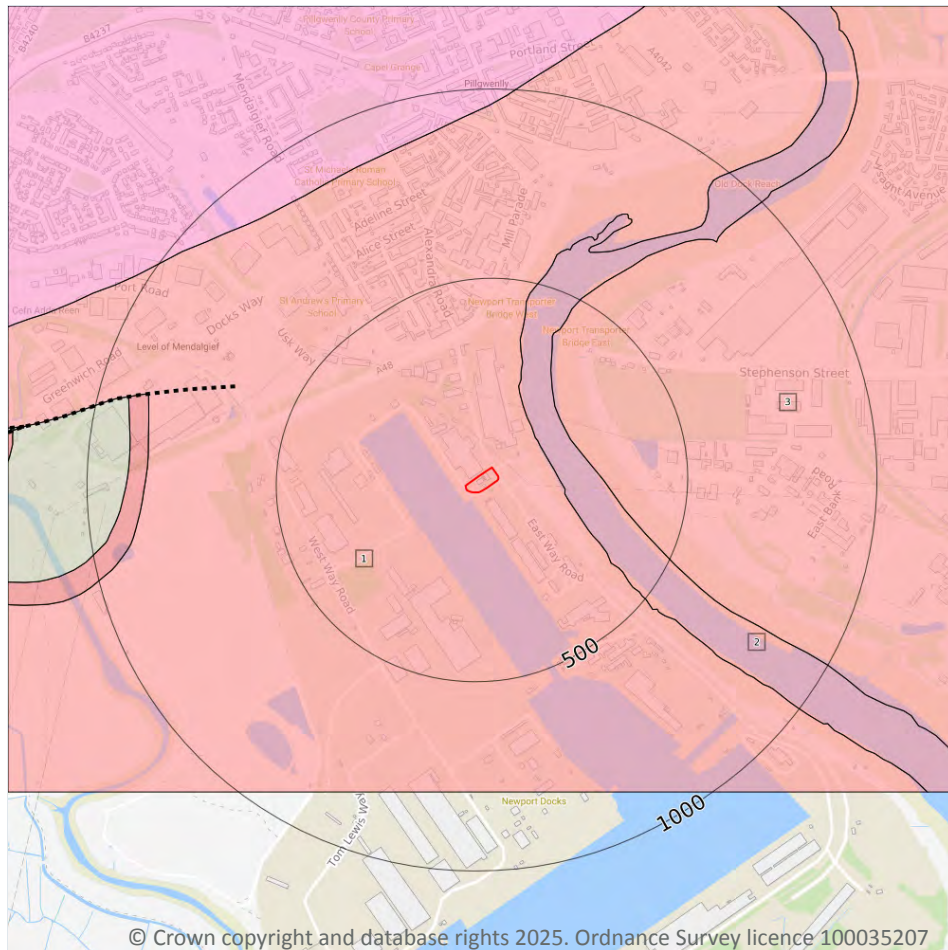
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m

3

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 100](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
2	136m NE	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
3	214m NE	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch



This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

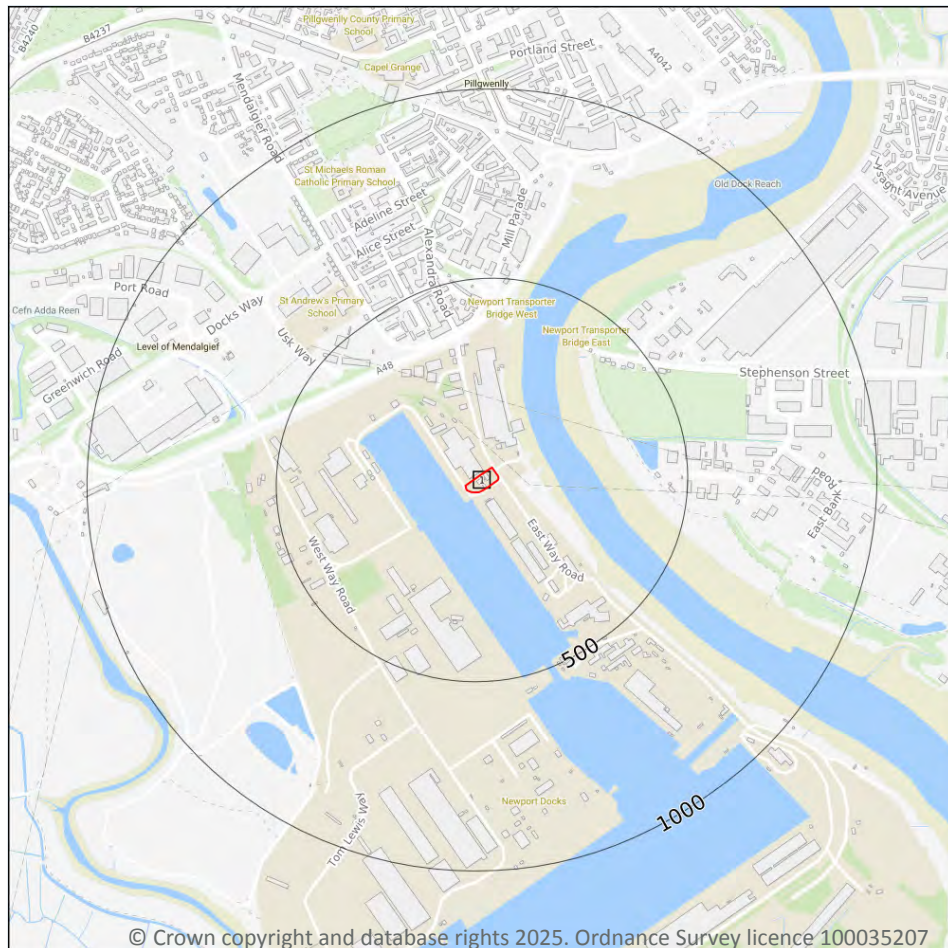
0

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 102](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW249_newport_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.

