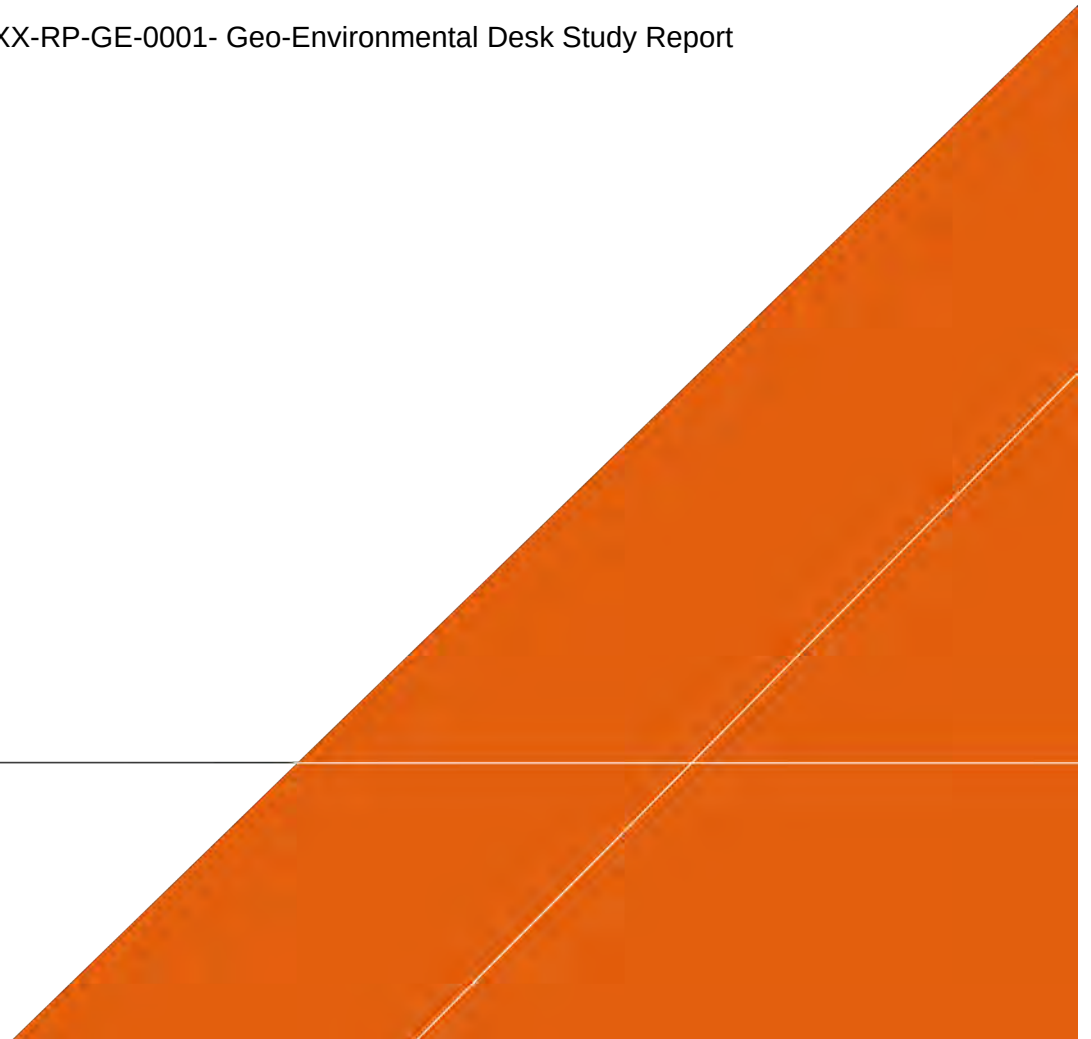


GEO-ENVIRONMENTAL DESK STUDY REPORT

Proposed Pedestrian and Cycle Bridge between The Marl and Hamadryad Park, Cardiff

DECEMBER 2022

10045010-ARC-P02-XX-RP-GE-0001- Geo-Environmental Desk Study Report



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Geo-Environmental Desk Study Report

Proposed Pedestrian and Cycle Bridge between The Marl and Hamadryad Park, Cardiff

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VERSION CONTROL

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P01	06/12/2021	Devika Desai	n/a
P02	08/12/2022	Marc Powell	Updates further to Client comments

This report 8th December 2022 has been prepared for Cardiff County Council (the "Client") in accordance with the terms and conditions of the appointment (the "Appointment") between the Client and Arcadis Consulting (UK) Ltd ("Arcadis") for the purposes specified in the Appointment. For avoidance of doubt, no other person(s) may use or rely upon this report or its contents, and Arcadis accepts no responsibility for any such use or reliance thereon by any other third party.

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Appendix B	Proposed Development Plan
Appendix C	Geotechnical and Geo-Environmental Report
Appendix D	Study Limitations
Appendix E	GeoIndex Borehole Logs
Appendix F	Groundsure Report
Appendix G	Photograph Plates
Appendix H	Zetica (UXO) Pre-Study Desk Assessment
Appendix I	Historical Ordnance Survey Maps
Appendix J	Risk Register

1 INTRODUCTION

1.1 Appointment

Arcadis Consulting (UK) Limited (Arcadis) was commissioned by the Cardiff County Council, the “Client”, to complete a Phase 1 Geo-Environmental Desk Study for the site of a Proposed Pedestrian and Cycle Bridge between The Marl and Hamadryad Park (the “site”) in Cardiff, CF11 7HB.

The site’s location is presented on Figure 1 in **Appendix A**.

1.2 Proposed Development

The site covers an approximate area of 1.65 hectares and is intended for development of a landmark footbridge across the River Taff, which is integrated with the regeneration/development of the Channel View Estate. The proposed footbridge will connect The Marl to Hamadryad Park, promoting linkages across the river, encouraging active travel and providing a destination for the City’s residents and visitors.

A proposed development plan has not been provided by the Client but an indicative Red Line Boundary is included in **Appendix B**.

1.3 Study Objectives

Considering the proposed development, the objectives of this desk study were to:

- Assess the environmental condition of the site and develop a preliminary Conceptual Site Model (CSM), in line with UK regulatory guidance; and,
- Assess potential geo-environmental and geotechnical constraints which could affect future development.

1.4 Scope of Works

To achieve the objectives the following scope of work was defined:

- Review the published and readily available information concerning the site including:
 - Recent Ordnance Survey (OS) mapping.
 - Groundsure Enviro and Geo Insight Report (Groundsure reference: 318094 174115, dated: 09/11/2021)
 - Historical Ordnance Survey maps (appended as Appendix I)
 - British Geological Survey (BGS) published maps and online GeoIndex including relevant archive borehole records.
 - Zetica website and Zetica Unexploded Ordnance (UXO) Pre-Desk Study Assessment (appended as Appendix H).
 - Lle Geo-Portal for Wales
- Develop a CSM and complete a Preliminary Risk Assessment.
- Evaluate potential construction related constraints; and,
- Reporting.

A site visit was undertaken by Arcadis consultant on 10th November 2021. Photographs taken during the site reconnaissance visit are presented in **Appendix G**.

1.5 Previous Investigations

A Geotechnical and Geo-environmental assessment of part of the Marl was completed by Terrafirma on behalf of Cardiff City Council in 2020 (Report Ref:16017, July 2020) for the proposed residential development at the land to the east of the Channel View Road in Cardiff. The study area was the southern portion of The Marl.

A site investigation comprising four (4) windowless sample boreholes and three (3) cable percussive boreholes, two (2) with rotary coring was carried out. Soil and groundwater samples were collected and submitted for the laboratory analyses. Disturbed soil samples were submitted to the laboratory for soil plasticity

testing. Gas monitoring was conducted at seven (7) locations at various depths. A copy of the report is provided in **Appendix C**.

1.6 Reliability of Information / Limitations

Arcadis warrants that the services performed were conducted in a competent and professional manner in accordance with sound consulting practices and procedures.

Arcadis cannot warrant the actual property conditions described in this report beyond matters amenable to confirmation within the limits of this report.

The reader is referred to the Study Limitations, presented in **Appendix D**.

2 SITE SETTING

2.1 Site Location

A site location plan is presented in Figure 1 (**Appendix A**), the study area is centred around National Grid Reference of 318073, 174105.

2.2 Site Description and Surrounding Land Use

The site area comprises land portions of The Marl (west) and Hamadryad Park (east) which are separated by the River Taff (central area of Site). Both The Marl and Hamadryad Parks are parks managed by Cardiff City Council, no roads are present within the parks but vehicle access is possible from gates around both parks.

Both parks are relatively flat with land sloping down to form the banks of the River Taff in the centre of the site. The western boundary elevation was noted to be ~7m AOD; the eastern boundary elevation was noted to be ~9m AOD. Dense vegetation is present on both banks of the River, it is assumed the banks are stable soil slopes with no added reinforcement. At the time of writing this report, no assessment of the stability or erosion conditions of the banking either side of the river has been conducted.

The Marl is bound by residential properties to the north, south and west, the River Taff binds The Marl to the east. Hamadryad park is bound by residential properties and a school (Ysgol Gynradd Gymraeg Hamadryad) to the north, the Cardiff Bay Link Road to the East and the River Taff to the south and west. Both parks are used for recreational purposes with the Cardiff Bay Trail footpath following the River Taff, sports fields are present in both parks.

River Taff flows from north to south through the centre of the Site, with the river widening to the south of the Site before entering into Cardiff Bay, located to the south east.

3 ENVIRONMENTAL SETTING

3.1 Geological Aspects

3.1.1 Geology of the Area

The regional geological information was reviewed from the 1:50,000 scale map (Sheet Number 263), the BGS GeoIndex website and Groundsure report. This was supplemented where possible by archived local borehole records available through the BGS GeoIndex (Appendix E). The following table describes the geology located on the either side of the River Taff.

Table 1 – Regional Geology

Unit	Published Information (BGS Geoindex)	BGS Borehole Information
Made Ground	Raised land surface from artificial deposits, consisting of a highly variable composition of material	The available BGS mapping indicates a variable amount of Made Ground on both sides of the river. The Made Ground descriptions vary for each borehole, however the strata is predominantly described as a mixture of ash, brick, and clay.
Superficial Geology	The available BGS mapping indicates that the site is underlain by Tidal Flat deposits consisting of clays, silts, and sands.	The available borehole records indicate the presence of two layers of superficial deposits. A cohesive clay layer underlain by a granular gravel layer.
		This description is likely to be reflective of superficial strata on both the East and West side of the river of the site.
		First layer: soft grey silty clays. The soils in this layer are assumed to be cohesive based on the available information.
Bedrock Geology	The site is underlain by the Mercia Mudstone Group, consisting of mudstones and subordinate siltstones with thick halite-bearing units in some basinal areas. Thin beds of gypsum/anhydrite widespread; sandstones are also present.	Second layer: Underlying the cohesive material, sandy, coarse gravels are identified. The soils in this layer are assumed to be granular based on the available information.
		The available offsite borehole records indicate the recorded strata to comprise of weathered to highly weathered mudstone. The mudstone was encountered at depths ranging from 18.7 to 19.1m bgl. The thickness of this layer based on the available information is unproven.

It is important to note there are no borehole logs on the BGS GeoIndex site located in or near the river. It is assumed the river has a thin layer of debris and urban waste mixed with natural river deposits underlain by the granular river deposits before the mudstone bedrock is found. This is an assumed model based on the topography and borehole logs either side of the river. The depths and thicknesses of the soil layers cannot be estimated or assumed due to the lack of available information to date.

3.1.2 Preliminary Ground Model

The following preliminary ground model can be used to estimate the strata thicknesses for the East and West banks of the River Taff. It should be noted that this information is based off boreholes located from 140m and up to 325m away and are not site specific for the bridge.

Table 2 – Assumed ground model based on available information

Stratum	West Bank		East Bank	
	Estimated Base (m bgl)	Assumed thickness (m)	Estimated Base (m bgl)	Assumed thickness (m)
Made Ground	3.5	3.5	7.5	7.5
Cohesive Superficial Deposits	11.0	7.5	10.0	2.5
Granular Superficial Deposits	19.0	8.0	Not proven	Not proven
Mercia Mudstone	Not proven	Not proven	Not proven	Not proven

3.1.3 Background Soil Chemistry

According to the Groundsure report (Appendix F), the background soil quality (the values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km²) includes the following metals with their typical local concentrations in parentheses: Arsenic (15 mg/kg), Cadmium (1.8 mg/kg), Chromium (60-90 mg/kg), Nickel (15-30 mg/kg) and Lead (100 mg/kg), Bio accessible Lead (60mg/kg).

3.1.4 Radon Affected Areas

Upon review of the Groundsure report (Appendix F), the site falls under less than 1% of estimated properties affected in a radon, and therefore no radon protection measures required.

The data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy and a residential property buffer.

3.1.5 Coal Mining Affected Areas

According to the Groundsure report (Appendix F), the site does not fall under coal mining affected area.

3.1.6 Other Mining Activity and Dissolution Features

According to the Groundsure report, no other mining activities as well as dissolution features are unlikely to be present onsite.

3.2 Hydrogeology and Groundwater Vulnerability

3.2.1 Aquifer Classification

The superficial geology is classified as a Secondary Undifferentiated Aquifer. Secondary Undifferentiated Aquifers are assigned where it is not possible to attribute either category A or B to a rock type. In general, these layers have previously been designated as both minor and non-aquifers in different locations due to the variable characteristics of the rock type.

The bedrock geology is classified as a Secondary B Aquifer. Secondary B Aquifers are defined when 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.

3.2.2 Groundwater vulnerability

The on-site classification indicates that the area falls under medium vulnerability for superficial aquifer with Patchiness value greater than 90% and having low recharge potential. Whereas site falls under low vulnerability for bedrock aquifer with flow mechanism of well-connected fractures.

3.2.3 Groundwater Abstraction

No active groundwater abstractions are known to exist on site, the Groundsure report indicates that a licensed groundwater abstraction is located 350m north of the Site and is used for a heat pump (maximum daily volume of 108m³) and has been operated since 13th September 2016.

3.2.4 Groundwater Flooding

According to the Groundsure report, The Marl and Hamadryad parks are considered to be at low risk of flooding and are in areas benefiting from flood defences.

3.2.5 Source Protection Zones

The site is not located within a Source Protection Zone (SPZ) as designated by Natural Resources Wales (NRW).

3.3 Hydrology

3.3.1 Surface Water Features

As per the Groundsure Report (Appendix F) and google earth website (accessed 11th November 2021), the nearest surface water feature is the River Taff which passes through the centre of the Site from north to south and connects to Cardiff Bay (~700m south east). The local topography of the site area is generally flat, however, the surface water runoff is anticipated to flow into the River Taff.

3.3.2 Surface Water Abstractions

No active surface water abstractions exist within 250m of the site.

3.3.3 Flooding Risk

The 'Flood Map for Planning and Long-term Flood Risk Assessment' website (accessed 11th November 2021), as well as the Groundsure report indicates that The Marl and Hamadryad parks have a low flooding risk of 0.1% each year from rivers, the sea (ROFRAS) and from surface water.

3.3.4 Licensed Discharge Consents

According to the Groundsure report, there are eight (8) licensed discharge consents within 250m of the site. The details of each consent are specified in table below:

Table 3: Offsite Licensed Discharge Consents

Location	Name	Receiving Water	Effluent Type	Status of the consent
3m N	The Sandwharf Jim Driscoll Way, Grangetown, Cardiff	River Taff	Trade Discharges- Site Drainage	Revoked (2005)
62m N	The Sandwharf Jim Driscoll Way, Grangetown, Cardiff.	River Taff	Trade Discharges- Site Drainage	Revoked (2002)
95m N	The Sandwharf Jim Driscoll Way, Grangetown, Cardiff.	River Taff	Trade Discharges- Site Drainage	Revoked (2006)

Location	Name	Receiving Water	Effluent Type	Status of the consent
143m N	Cardiff Grangetown, The Marl.	River Taff	Trade Discharges- Site Drainage	Surrendered
144m N	SPS At The Marl Playing Fields Gran, Grangetown, Cardiff.	Cardiff Bay	Sewage Discharges - Pumping Station - Water Company	Effective (since 1997)
145m N	SPS At The Marl Playing Fields Gran, Grangetown, Cardiff.	Cardiff Bay	Unspecified	Revoked (1997)
176m N	Grangetown SPS, The Marl Playing Fields Jim Driscoll Way, Grangetown, Cardiff, CF11 7HB	Cardiff Bay	Sewage Discharges – STW Storm Overflow/Storm Tank – Water Company	Effective (since 2019)
200m NE	Harrowby St SSO Butetown Cardiff, Harrowby St SSO, Butetown, Cardiff, Cardiff CBC.	Taff Estuary	Sewage Discharges - Sewer Storm Overflow - Water Company	Effective (since 1991)

3.3.5 Pollution Incidents to Controlled Water

According to the Groundsure report, there is only one recorded incident of pollutant release to surface water and public sewer within 250m of the site. The incident occurred 30m north of the site on 8th May 2008 and it was categorised as Water Impact: Category 2 (Significant), Land Impact: Category 4 (No Impact), Air Impact: Category 4 (No impact).

3.4 Recent Industrial Land-Use

The Groundsure report indicates the absence of recent industrial uses on-site; however, ten (10) “*industrial*” class sites/uses are present within 250m of the Site.

Table 4: Offsite Recent Industrial Land Use

Location	Company	Activity	Category
97m N	Wharf	Moorings and Unloading Facilities	Water
113m N	Electricity Sub Station	Electrical Features	Infrastructure and Facilities
175m SW	Electricity Sub Station	Electrical Features	Infrastructure and Facilities
178m N	Pumping Station	Water Pumping Stations	Industrial Features
206m N	Slipway	Moorings and Unloading Facilities	Water
212m SE	Slipway	Moorings and Unloading Facilities	Water
218m S	Electricity Sub Station	Electrical Features	Infrastructure and Facilities
219m N	Slipway	Moorings and Unloading Facilities	Water

Location	Company	Activity	Category
222m N	Channel View Waterbus Stop	Ferries and Ferry Terminals	Water
230m SE	Marina	Moorings and Unloading Facilities	Water

3.4.1 Historical Industrial Land-Use

The Groundsure report records three records of historical industrial land use on site:

Location	Date	Land Use
On Site	1915	Unspecified Ground Workings
On Site	1938	Unspecified Pit
On Site	1963	Sand and Gravel Yard

3.4.2 Environmental Permits / Classifications

There are no records within 500m for Licensed Industrial Activities (Part A (1)), Licensed Pollutant Release (Part A (2) or and Part B) permits regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

3.4.3 Landfills and Waste Management Activities

According to the Groundsure Report:

- There is one (1) record of active landfill operated by The County Council of The City & County of Cardiff located approximately 382m southwest.
- No records of historical landfill (BGS records) were identified within 500m of the site.
- Eight (8) records of historical landfill (Local authority / mapping records) were identified within 500m of the site, and they were associated with Refuse Tip, the closest historical landfill is reported to be 272m southwest of the Site.
- Fifteen (15) records of historical landfill (EA/NRW records) were identified within 500m of the site including two (2) records onsite:
 - Hamadryad Park: operated by Davies – Middleton Davies Limited for Inert, Industrial, Household Waste, Licence holder last recorded 30th June 1996;
 - The Marl: operated by Cardiff Corporation for managing Inert, Industrial, Household, Commercial Waste (The Marl), Licence holder last recorded 31st December 1945.

Remaining thirteen (13) records were associated with similar type of waste with the nearest point located approximately 800m northeast of the site.

- Thirteen (13) records of historical waste sites were identified within 500m of the site and those were associated with scrape metal yard with nearest point located approximately 238m west.
- Two (2) records of active licensed waste sites named Butetown Link Landfill were identified approximately 235m northeast of the site, the size of landfill is 25000 tonnes and ≥ 75000 tonnes respectively.
- Three (3) records of waste exemptions were identified within 500m of the site. The exempted wastes are used in construction application.

3.5 Ecological Aspects

As per Part A (2) of the environmental protection act, development plans and planning applications are required to consider potential sensitivity of areas such as SSSI, National parks, areas of Outstanding natural Beauty, Special Area of Conservation, and wetlands of international importance (Ramsar sites) to name a few for protection from adverse effects from pollution.

- According to Groundsure report no records were identified within 500m of the site for Site of Special Scientific Interest (SSSI), Ramsar Site, Special Area of Conservation (SAC), Special Protection Area (SPA), National Nature Reserve, Designated Ancient Woodland (DAW). Although aforementioned environmental designations were identified between approximate distance of 1000 to 2000m.
- No records were identified within 2000m of the site for Biosphere Reserves, Forest Parks, Marine Conservation Zone, Green Belt, Proposed Ramsar Sites, Possible Special Area of Conservation (pSAC), Potential Special Protection Areas (pSPA), Nitrate Sensitive Areas, Nitrate Vulnerable Zones.
- Two (2) records of Local Nature Reserves, named Cardiff Bay Wetlands and Hamadryad Park, were identified within 2000m of the site:
 - Hamadryad Nature Reserve is located on site; and,
 - Cardiff Bay Wetlands is located approximately 294m to the east.
- The site falls within a defined SSSI Impact Risk Zones, which is a protective zone for the Severn Estuary SSSI located 1,513m south east of the site.
- One Scheduled Ancient Monument, The Wreck of the 'Louisa' (approximately 15m south of the Site at its closest point), is located within 250m of the site. No other records of World Heritage Sites, Areas of Outstanding Natural Beauty (AONB), National Parks, Listed Buildings, Conservation Areas, Registered Parks and Gardens are recorded within 250m.

3.6 Unexploded Ordnance

According to the Zetica website (accessed 11th November 2021), the site falls under moderate Unexploded Ordnance (UXO) hazard level. A Zetica Pre-Desk study Assessment (PDSA) was obtained (Appendix H), which states:

- During WWII, the Site (The Marl) was encompassing the western part of the Site, was requisitioned for use as an Air Raid Precautions (ARP) wardens post. By April 1942, 1No. barrage balloon was established on The Marl.
- The County Borough (CB), which the site is located within, officially recorded 562No. High Explosive (HE) bombs with a bombing density of 40 bombs per 405 hectares (ha). Air raids on Cardiff began in July 1940 and continued until May 1943. The heaviest air raid occurred on the 2nd January 1941, the Cardiff 'Blitz', when over 400No. HE bombs fell across the city.
- Readily available records have been found to indicate that several HE bombs fell in close proximity to the Site.
- The report recommends that a detailed desk study is commissioned to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the site.

4 HISTORICAL INFORMATION

4.1 Site History

The historical land use of the Site was determined from inspection of 1: 1,250 and 1:2,500 scale OS maps. Historical OS maps are presented with the Groundsure Report presented in Appendix I.

If potentially contaminative land use along with geotechnical constraints is identified, associated likely Contaminants of Concern (CoC) and ground constraints are given in the table below:

Table 5: Site History and Potential Contaminative Land Use

Period	Detail
1880	The earliest available mapping (1880) indicates that the river channel is on the eastern edge of the Site. The northern and eastern portion of the Site comprises a salt marshland. Additionally, the west there is River Taff with undeveloped land on either side. CoC: n/a
1901-1941	The historical maps indicates that the northern portion of the site lies under salting's area. There is a spring recorded on-site to the southwest. The eastern portion of the site lies in open land indicated as mud banks. CoC: n/a
1947-1954	The salting's area in northern portion of site appeared to be backfilled. A tennis court is built immediately to the west of the site. CoC: n/a
1954-1995	No changes in northern & western section of the site were observed. The mudbank area in east of the site appeared to be backfilled. CoC: n/a
2001-Present	Eastern portion of the site lies in area of Hamadryad Park. No significant changes were observed within the rest of the site boundary. CoC: n/a

It is worth noting that based on the oldest map (1880), the river channel is on the eastern edge of the Site, which would now be underneath the present day Made Ground found on the eastern edge of the Site, where the proposed abutment and landing is to be located.

4.2 Potentially Contaminative History of the Surrounding Area

Based on the information detailed in the historical Ordnance Survey maps (Appendix I) and on the Groundsure reports (Appendix F) the potentially contaminative current / historical activities surrounding the site along with geotechnical constraints are summarised in the table below with associated likely Contaminants of Concern (CoC) taking into account the nature of historical activities on site and the industrial setting of the area, only sites in close proximity of 250m have been considered:

Phase 1 Geo Environmental Desk Study
Proposed Pedestrian and Cycle Bridge between The Marl and Hamadryad Park, Cardiff

Table 6: Potentially Contaminative History of the Surrounding Area

Potential Source / Activity	Location	Period of Activity	Detail
Sand & Gravel Yard	~ 75 m north	1963-1965	The sand & gravel yard was seen on the map till between 1963-1965, given the periodicity it is unlikely that any remaining contaminants are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: n/a
Unspecified Tank	~34m north	1963-1983	Unspecified tank was present until 1983. The type of fluid in the tank is unknown. It is unlikely that any remaining contaminants are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: n/a
Sewage Tank	~115m north	1915-1922	The sewage tank present is likely used for collection of sewage from nearby residential and commercial area, it is unlikely that any remaining contaminants are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: Metals, hydrocarbons, organic compounds
Sewage Tank & Pumping station	~179m north	1889-Present	The sewage tank was appeared in maps between 1889-1938 and is likely to be utilized for collection of sewage from nearby residential and commercial area, later it is appeared as pumping station and still it is active.
			CoC: Metals, hydrocarbons, organic compounds
Electrical Substation	~166m southwest	1899 – Present	The historical records in Groundsure report indicates presence of electrical substation since 1899 to present. However, it is unlikely the contaminant
			Contaminants associated with this are unlikely to have the potential to migrate across the site boundary. CoC: Metals, PCBs, mineral oils, solvents and lubricating oils.
Railway Sidings	~172m west	1879-1995	The railway sidings were present between 1879-1995. It is unlikely that any remaining contaminants associated with railway sidings are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: Hydrocarbons, PAHs, PCBs, Metals, Solvents & Asbestos.
Docks	~147m west	1922-1938	It is unlikely that any remaining contaminants associated with docks are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: metals, organic compounds, inorganic compounds.

Potential Source / Activity	Location	Period of Activity	Detail
Graving Dock	~188m south	1915-1947	It is unlikely that any remaining contaminants associated with graving docks are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: metals, organic compounds, inorganic compounds
Fish Meal Factory	~241m southwest	1922-1938	It is unlikely that any remaining contaminants associated with factory are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: pathogens, acid & alkalis, solvents, detergents & bleaches, fuel oils
Rope Works & Industrial Estate	~242m west	1915-1995	The building appeared to be as Rope Works till 1938, later it is appeared as Industrial estate till 1995. The associated CoC could not be specified as the type of industry is unknown.
			CoC: n/a
Hospital	~234m northeast	1915-1995	It is unlikely that any remaining contaminants associated with hospital are mobile enough to impact the site and is therefore discounted at this stage.
			CoC: metals, organic compounds, inorganic compounds
Former Petrol Depot	~243m West	1953- 1984	There might be the possibility that the impacted soil associated with the PFS was removed during recent developments, and given the age of the offsite use, the contaminants present in the residual impacted soil (if present) may have naturally attenuated by reducing the mobility and toxicity of the contaminants. Therefore, its discussion into SPR is not considered.
			CoC: Petroleum hydrocarbons

4.3 Historical Information Evaluation

Based on the historic ordnance survey map and Groundsure report, there were no activities related to residential, commercial, and industrial purposes present onsite. However, the surrounding land area was used for commercial and industrial purposes. The most notable potentially contaminative uses of the surrounding area (current and historical) are the historic sewage tank which is currently operated as pumping station located approximately 179m north of the western boundary of the site.

5 PRELIMINARY CONCEPTUAL SITE MODEL

This section summarises the findings of the desk-based assessment in the form of a geo-environmental conceptual site model (CSM). The CSM provides a qualitative evaluation of potentially active “pollutant linkages”; these being plausible scenarios whereby a contamination source is connected to a possible receptor by one or more pathways.

The linkages between the following CSM elements are summarised in Table 4 below:

- Potential viable current and historical **sources** of contamination as identified in previous sections of this report.
- Potential active **pathways** by which potential contamination may migrate from on and off-site sources to sensitive environmental and human health receptors; and,
- Sensitive environmental and human health **receptors** relevant to construction-phase of development, and future end-use. With reference to Part 2A of the Environmental Protection Act (1990), the potential receptors to be considered in this scenario are as follows:

Table 7 –Plausible SPR Linkages Assessment

Category	Receptor	Pathway	Rationale
Human Health	Construction Workers	Direct contact pathways	Construction workers/contractors could be exposed to potential contaminants during construction processes (i.e., during ground works for any redevelopment).
		Airborne pathways (vapours and ground gases)	Considering the historic landfill on site there is possibility of ground gas generation mostly to the western region of the site. Hence care will need to be taken in any confined spaces needed during construction.
	Visitors (local residents & tourists)	Direct contact pathways	As public space, local residents and tourists will regularly visit the site; however, any contact with the ground or exposure to airspaces will be short-term, temporary, and infrequent.
		Airborne pathways (vapours and ground gases)	
Ecological Receptors	SSSI and River Taff	Vertical migration / later migration of contaminants through the unsaturated zone into groundwater beneath the site and subsequent migration to watercourses.	The onsite River Taff is considered a potential ecological receptor, though at medium risk due to the future construction works.
Controlled Waters	Surface Water		The onsite River Taff is considered a potential receptor, though at medium risk due to the future construction works.
	Groundwater	Site derived impacts in soil migrating vertically down to impact the underlying aquifer resource.	Superficial and bedrock aquifers are classified as Secondary Undifferentiated and Secondary B aquifers. Both are considered to be potential receptors.
		Groundwater impacted by site activities migrating off-site.	According to BGS GeoIndex there are few borehole logs located closely to the western site boundary.

6 PRELIMINARY RISK ASSESSMENT

Based on the Preliminary Conceptual Site Model, the table below describes and evaluates the plausible Source-Pathway-Receptor (SPR) contamination linkages and the preliminary risk to sensitive receptors.

Table 8: Preliminary Risk Assessment

Class	Receptor	Preliminary Risk	Justification / Mitigation
Human Health	Future site visitors	Low	As public space, local residents and tourists will regularly visit the site; however, any contact with the ground or exposure to airspaces will be short-term, temporary, and infrequent. On this basis the preliminary risk is considered to be low.
	Future site workers (including contractor and labourers)	Low to Moderate	Considering the scope and future construction activities onsite, the risk to the construction workers is low to moderate assuming appropriate use of PPE and good working practices.
Ecological Receptors	Flora and Fauna	Moderate to High	The River Taff is the onsite ecologically sensitive area (SSSI), considering the site conditions and likely flow-path distances, the ecology of the river is considered to be between moderate to high risk.
Controlled Waters	Onsite River Taff	Moderate	Considering historical and current surrounding land use of the site as sewage tank, which is currently operated as pumping station, it is likely to be consider that CoC associated with it will possibly reach River Taff as the groundwater flow direction is in southeast. Therefore, there is moderate risk to the Controlled Water.
	Surface Watercourses		
	Secondary Undifferentiated and Secondary B Aquifer		

6.1.1 Potential Geo-environmental Constraints

According to the Groundsure report, the details of geo-environmental constraints are comprised below;

- The potential hazard presented by soils that absorb water when wet and lose water as they dry (shrink swell clays) is at very low hazard rating.
- Running sand condition present to the western region of the site are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly. Whereas the eastern region of the site falls under moderate hazard risk and constraints may apply to land uses involving excavation or the addition or removal of water.
- Compressibility and uneven settlement problems are not likely to be significant on the western region of the site for most land uses. Whereas compressibility and uneven settlement hazards are probably present to the eastern region of the site and land use should consider specifically the compressibility and variability of the site.
- Deposits with potential to collapse when loaded and saturated are believed not be present onsite.
- Ground dissolution of soluble rocks is at negligible hazard rating. Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Hence dissolution features are unlikely to be present.

7 PRELIMINARY ENGINEERING CONSTRAINTS APPRAISAL

7.1 Site Preparation

The site is marked to be completely surrounded by parks and fields, with limited access only accessible via footpaths. This is apparent for both the East and West side of the river. The site is publicly accessible via the footpaths, any construction work will influence public commuting and will increase the risk of public safety.

The site is located in a known waste deposit area and therefore appropriate waste should be undertaken to manage any waste products or identified areas of risk. The Made Ground on site will be variable and as such, should the presence of harmful or obscure material be recorded, appropriate investigation and management of any such material should be undertaken.

Large amounts of vegetation line each riverbank where construction or earthworks might be required, additionally the site is located in a natural park area. The vegetation will require additional ecological and environmental management to maintain the current ecosystem. Should the presence of any invasive/controlled plant species (e.g., Japanese Knotweed or Himalayan Balsam) be recorded, appropriate investigation and management of any such species should be undertaken.

7.2 Foundations

For both the East and West side of the river, Made Ground is known to be the initial soil strata to underlie the site, however the thickness of the layer is extremely variable, with borehole records ranging in thickness from 1m to 7m across both sides of the river. Below this, a thicker layer of organic silty clay is found atop a sandy coarse gravel layer that continues until the more competent rock, the Mercia mudstone group, is found roughly between 18.5 and 19.5m below ground level. Important to note, the organic clays underneath the Made Ground have the possibility of creeping. A high risk of variable ground conditions is expected to be present across the whole site, particularly for the eastern bank, where the historic river channel used to flow.

Given the topography and geological information provided, it is likely that there can be two considerations for foundation design. First being a shallow foundation that relies on the Made Ground, secondly piled foundations that rely on the bearing resistance of the silty clay and gravels. The piled foundations might require the mudstone bearing resistance if the clays and gravels are not sufficient.

Shallow foundations could be an option for each abutment if further ground investigation can properly categorise the material parameters of the Made Ground and the actions and settlement tolerances from the bridge were within the bearing capacity limits of the underlying material. Alternatively, as a more reliable bearing strata or if the Made Ground is too variable, the made ground could be removed and replaced by granular fill.

Alternatively, if the Made Ground was discovered to be too variable in nature or the granular fill replacement is not feasible, a piled foundation would be proposed. Where the strength of the Superficial deposits or the Mercia mudstone would provide the capacity. A ground water profile would need to be determined due to the nature of the site being adjacent to a water source as well as the geology describing a layer of granular material underlying a layer of organic cohesive material.

As similar approach would be required for any proposed piers for the bridge in determining the foundation solution. The type of pier foundation is most likely going to be determined as either a shallow foundation that needs the construction of a coffer dam, or driven steel piles from a jack-up barge. The choice of pier foundation will need input from a specialist contractor.

7.3 Earthworks

Regarding the minimum clearance required for water vehicles to travel under the bridge safely, there is potential for the bridge to start at a higher level relative to the current topography and bank height above the water level. In this case both the approach ramp and potentially the ground supporting the foundations may require earthworks. The earthworks may need side slopes with a gradient of 1 : 2 (vertical : horizontal) if a ramp is constructed; slacker slopes may be required if lower strength fills are to be used and strengthened earthworks could be considered to increase the slope angle. The interaction of the proposed abutments and landings with the existing riverbanks needs to be considered in the design and construction stages of this

project. Currently the existing riverbanks are assumed to be stable. However, this may change with the proposed development. Additionally, the material required will need to be obtained either from excavations on site/local site works or imported.

7.4 Pavement Design

At the time of writing this report, there are no requirements for pavement design.

7.5 Drainage Considerations

Site wide drainage for the site will need to be reviewed in the subsequent phases of the project. The use of sustainable urban drainage systems (SUDS) should be considered to manage any potential surface water run-off.

7.6 Concrete Classification

Design/mix of buried concrete should be undertaken in accordance with BRE (2005) and suitable testing should be carried out for all geological units that could come into contact with concrete substructure.

The geological stratum underlying the site is not explicitly listed in the SD1 guidance; nevertheless, comprehensive testing should be undertaken to manage this potential risk.

7.7 Excavations and Groundwater

It is considered likely that future excavations should be feasible with an appropriate scale of hydraulic plant using sump-and-pump methods.

7.8 Soil Re-use & Waste Arisings

Any excess soils for disposal off-site will need to be managed under the appropriate legislation. Allowance of cost and time should be made for adequate waste characterisation. On the basis of the known historical uses, likely, excess soils generated through the development (i.e., Made Ground) would be classed as “Non-Hazardous”. It is plausible that local areas of fill contain substances that would trigger a “Hazardous” waste class; alternatively, clean, virgin materials could be classed as “Non-hazardous: Inert”; for both of these latter cases Waste Acceptance Criteria (WAC) testing will be needed, and landfill tax implications will apply to any “Hazardous” waste.

If waste soils are generated which are classified as Hazardous Waste, additional WAC testing would be required as would pre-treatment before disposal, unless a re-use on site could be found under a Materials Management Plan.

Any re-use of soils on site should be undertaken under a defined permit, permit exemption, or materials management plan (in line with CL: AIRE guidelines). In order to complete a materials management plan, it will be necessary to complete a remediation or design statement and further investigation of the soils in question to confirm their suitability for use maybe necessary.

7.9 Potable Water Supply

Generally, inorganic contaminants are unlikely to enter supply pipes but may be perceived by the water supplier to represent a potential exposure risk to their employees. This risk may be reduced or eliminated by use of a “sterile” trench (i.e. not containing such contamination sources).

Where hydrocarbon impacted soils are suspected, the use of cast iron or “Protect-A-line” pipework may be stipulated by the water supplier.

Requirement of the same is subject to confirmation through intrusive ground investigation and testing specific to Welsh Water requirements.

7.10 Health, Safety & Environment

All future work on site should be conducted in accordance with appropriate Health and Safety guidance, with particular reference to HSG66 “Protection of Workers and the General Public During the Development of

Contaminated Land". Appropriate PPE should be provided at all times to protect from chemical and typical biological hazards.

Care should be taken to minimise the risk of potentially contaminative incidents occurring during redevelopment (both from contaminated soils, but also inert soils as dust and debris to watercourses).

Good working practices should be adopted during construction works in order to minimise the risk of contamination occurring as a result of spillage or leakage of fuels, oils or chemicals stored or used at the site during re-development. All such materials should be sited on an impervious base within a bund and should be adequately secured. In particular, care should be taken to prevent fuel, oils, or other mobile contamination sources from entering any surface water drains at the site.

Considering the current Pandemic situation all measures pertaining to COVID-19 need to be taken care of while the investigation works are ongoing on the site.

Throughout any redevelopment works, due regard should be given to potential detrimental effects on the surroundings including noise, vibration, odour, and dust.

8 CONCLUSIONS & RECOMMENDATIONS

This report presents an assessment of the geo-environmental and geotechnical information pertaining to the site, based on readily available desktop / published and online sources.

The objective of this assessment was to collate and review the available geo-environmental and geotechnical information to determine potential ground contamination risks and engineering geology constraints associated with the site in its current condition in the context of its proposed future end use as a footbridge.

8.1 Contaminated Land Risk

The overall preliminary risk for the site in context of current land-use and proposed development is considered **LOW**. This conclusion is based on the following conditions being fulfilled:

- The Principal Designer will be given this information so appropriate PPE and safe systems of work can be implemented during construction to ensure their protection. The presence of organic materials and historical made ground deposits indicates that breaking ground and earthworks could result in the extraction or movement of contaminated materials. Additionally, if deeper foundations are used, they could expose contaminated water. The lack of a useful groundwater profile requires further investigation for the site to be fully documented.

8.2 Engineering Geology Constraints

The site is mapped as being directly underlain by a variable amount of Made Ground mainly comprised of mixture of ash, brick, and clay. Therefore, the material parameters, such as strength and compressibility would require verification from site specific ground investigation.

Silty clay and gravel river deposits are expected to be present across the site, underlaying the Made Ground. This material will also need to be characterised by site specific ground investigation to establish the best strategies for foundations and drainage design.

The site specific ground investigation may also target the Mercia mudstone if it determined that pile foundations are required for the structure.

Due to the nature of Made Ground, sub-surface obstructions could remain on site from past uses and awareness of this risk should be passed on to the construction contractor. A lack of a useful groundwater profile means further investigation of the site's groundwater is required. Granular material is found at a lower depth than a cohesive layer meaning there is potential for the granular material layer to have pressurised water.

Any re-use of materials/soils on site should be undertaken with due recognition of waste management legislation; specifically, the potential need for a Materials Management Plan in line with the CL:AIRE code of practice on soils re-use. Any off-site disposal should be undertaken following a separate and dedicated waste characterisation assessment of the material to be disposed of.

8.3 Geotechnical Constraints

At the time of writing this report, there is little information available from historical ground investigations. Additionally, there is little to no available information regarding the geotechnical parameters required for foundation design within the site. A site specific ground investigation will be required to carry out the detailed design of the proposed foundations, for both the East and West abutments as well as any piers located in the River Taff.

8.4 Further Recommendations

- This desk study report, together with the appendices should be provided to the designers and contractors for the proposed developments to ensure the measures assumed in the contaminated land risk assessment and defined in the engineering assessment can be accounted for as the development progresses.
- According to Zetica Pre-Study Desk Assessment (PSDA) present in Appendix H, readily available records have been found to indicate that several High Explosive (HE) bombs fell in close proximity of

the site. Hence, it is recommended that a detailed desk study assessment (DDSA) is commissioned to assess and potentially zone, the Unexploded Ordnance (UXO) hazard level on the site before commencing the construction.

- The west and east section of the site has low flood risk from rivers, the sea (ROFRAS) and from surface water however the central section of the site falls under high risk from rivers and the sea (ROFRAS). As the development is going to occur in the central section where there is high risk of flooding, it is recommended to conduct a Flood Consequence Assessment.
- Once the design solution for the bridge is confirmed, a site-specific ground investigation will need to be carried out to obtain the relevant data needed for engineering design. It is envisaged a minimum of 2No. boreholes and 2No. trial pits will be required for both the East and West abutments and landings. If piers are required for the bridge, a minimum of 1No. borehole will be required for each pier. This recommendation is based off the unknown variability of the ground conditions. Which in part has resulted from the Made Ground and the historic position of the river channel.

Appendix A

Figure 1 Site Location Plan



Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community ORDNANCE SURVEY © CROWN COPYRIGHT 2021. ALL RIGHTS RESERVED. LICENSE NUMBER 100050351. CONTACT ARCADIS UK IN CASE ANY QUERY		TITLE: SITE LOCATION PLAN	
LEGEND SITE LOCATION		SITE : CHANNEL VIEW FOOTBRIDGE	
NOTES SYMBOLS FOR BOREHOLES, TRIAL PITS AND OTHER SPECIFIC FEATURES ARE REPRESENTATIONS OF LOCATION ONLY AND UNLESS OTHERWISE SPECIFIED, DO NOT REPRESENT THE TRUE SIZE OF THE FEATURE. 00.20.40.81.21.62 Kilometres N		CLIENT : CARDIFF COUNTY COUNCIL	
		PROJECT : 10045010	FIGURE 1
		DATE : 16/11/21	DRAWN BY : AP
		DRG No. : 10045010-AUK-XX-XX-DR-ZZ-002-P1.GIS	
		SCALE : 1 : 50,000	PRINT : A4
		ARCADIS	

Appendix B

Proposed Development Plan



						Legend Site Layout		Issued for Information				Client:  Cradiff County Council	PROJECT: Channel View Footbridge	 Registered office: Arcadis House Unit 5, St Mellons Business Park, Arcadis Cymru House, Fortran Rd, Cardiff CF3 0EY, United Kingdom	
													TITLE: Site Layout Plan		
		Site Layout Plan	DD	AD	AD										
REV	Date	Description	Drawn	Check	Approved										

Appendix C

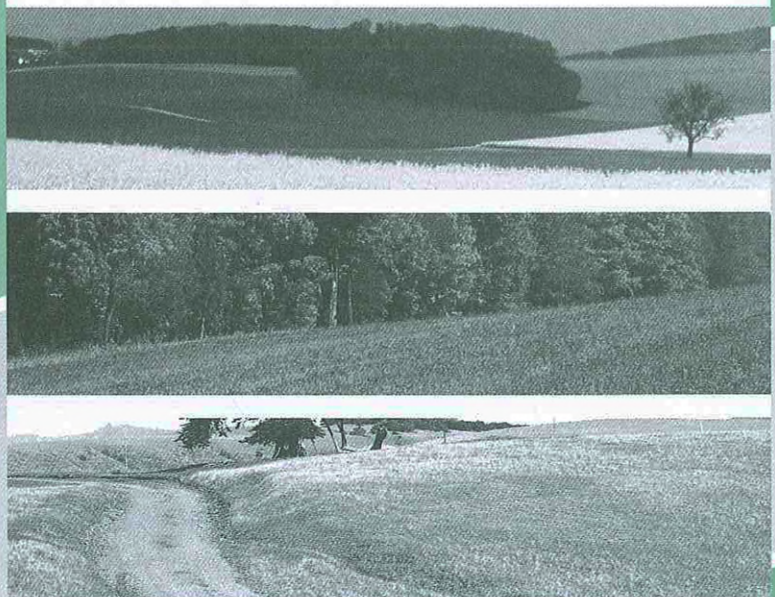
Geotechnical and Geo-Environmental Report

**Geotechnical and Geo-Environmental
Report:**
Proposed Residential Development at
Channel View Cardiff.

PREPARED FOR:
Cardiff County Council

July 2020

Job No: 16017




terrafirma

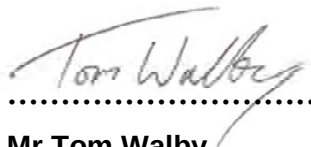
REPORT TITLE : **Geotechnical and Geo-environmental Report:**
Proposed Residential development at Channel
View, Cardiff

REPORT STATUS : **Final**

JOB NUMBER : **16017**

DATE : **July 2020**

PREPARED BY : 
.....
Mr Jamie Alderman

REVIEWED BY : 
.....
Mr Tom Walby

APPROVED BY : 
.....
Dr Gwyn C Lake

Executive Summary

Site Location and Proposed Development	Cardiff County Council is proposing a residential development at land to the east of Channel View Road in Cardiff. The site is currently occupied by 54 two story two bed flats, 56 three bed houses and Channel View Flat Tower containing 78 flats. development comprises the demolition of the current residential houses and flats and construction of a mixture of flats, houses and independent living totalling 362 units. The site centres on an approximate National Grid Reference of 318010, 174030 occupying a plan area of approximately 6.01 Hectares and irregular in shape.
Site History	The earliest available map shows The north and east of the site is an area of salt marshland and the west of the site being an empty field. The site was used as a landfill, The Marl, operational between 31/12/1936 and 31/12/1945. The existing residential flats and houses present on site today were constructed between 1965 and 1986. There has be no change to the site ever since.
Geology	The 1:50,000 scale geological maps of the area (Sheet 263) was consulted for geology underlying the site. The site is shown to be underlain by the Mercia Mudstone Group, Triassic in age. Made ground is shown to cover the whole site. Superficial deposits of marine or estuarine alluvium are beneath the made ground on site. No faults are recorded on site.
Radon	The site lies in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level), no radon protective measures are necessary in the construction of new dwellings or extensions
Ground Conditions	Generally the ground conditions encountered beneath the site were MADE GROUND: Grass over firm brow slightly gravelly CLAY to a maximum depth of 0.45m over, MADE GROUND: medium dense black gravelly SAND to maximum depth of 5.30m over, soft grey laminated silty CLAY with occasional cobble to maximum depth of 11.80m over Loose grey clayey sandy GRAVEL to a maximum depth of 12.50m over, Medium dense to dense becoming very dense brown sandy GRAVEL with medium cobble content to a maximum depth of 19.60m over, Hard weathered brown occasionally mottled grey sandy MUDSTONE, proved to a depth of 28.00m.
Laboratory Chemical Testing	Various contaminants were identified in the made ground on site. The risk to future site residents will be mitigated by capping of the site with the new building and hardstanding and 600mm imported clean soil capping cover across soft landscaped areas.
Foundation Solution	The proposed new development will comprise a 9-12 storey apartment block and a 15 storey apartment block. Due to the anticipated high loads, piled foundations set within the underlying Mercia Mudstone bedrock are recommended. Given the density of the fluvio-glacial gravels, likelihood for buried obstructions and proximity to existing developments, roads and services continuous flight auger (CFA) piles are recommended Based on experience and back analysis in the Mercia Mudstone, Chandler and Davis (Ref. 1) have published bearing pressure at failures for test piles in weathered (Zone II), hard (Zone I) and weathered (Zone II/III). The Mercia Mudstone encountered was predominantly Zone II/III and based upon the above research an Ultimate End Bearing Pressure of 3.0MN/m² has been taken. For a 700mm diameter bored pile this would give an Ultimate End Bearing Resistance of 1160kN. Chandler and Davis (Ref 1) have also published data for values of ultimate skin friction on pile shaft for Zone I to Zone III Mercia Mudstone. As the mudstone is predominately Zone II/III a figure of 225kN/m² has been taken for design purposes. Therefore, for a 26m long, 750mm diameter bored pile with an embedment length of 8m in the Mercia Mudstone An ultimate skin friction value of 3960kN has been calculated. Combining skin friction and end bearing and allowing a factor of safety of 2.5 would give an allowable working loads for a 28m long 0.7m diameter pile of 2048kN/m². Due to the presence of the buried channel in the south of the site pile lengths quoted are likely to vary with the channel.

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ANNEX A Envirocheck Report
ANNEX B Risk Assessment Definitions
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ANNEX F Gas Monitoring Results
ANNEX G Water Monitoring Results

Drawings

Drawing 01 Proposed Site Layout

SECTION 1 Introduction and Proposed Development

1.1 Introduction

Cardiff County Council is proposing a residential development at land to the east of Channel View Road in Cardiff. The site is currently occupied by 54 two story two bed flats, 56 three bed houses and Channel View Flat Tower containing 78 flats. The development comprises the demolition of the current residential houses and flats and construction of a mixture of 15, 12 and 9 story high rise flats, terrace houses and independent living totalling 362 units.

Cambria Consulting Limited are the Consulting Civil and Structural Engineers for the proposed development.

Terra Firma (Wales) Limited have been commissioned by Cambria Consulting Limited on behalf of Cardiff City Council to undertake a geo-environmental assessment and geotechnical investigation of the site.

The main objectives of the geo-environmental assessment programme were to:

- Investigate the potential environmental liabilities at the site associated with any soil contamination
- Provide a summary of the environmental conditions at the site, together with any necessary further intrusive works and / or remediation works to render the site fit for its intended use

The main objectives of the geotechnical site investigation were to:

- Determine the type, strength and bearing characteristics of the made ground, superficial and underlying solid geology
- Provide engineering foundation and floor slab recommendations for the development
- Provide recommendations with regard to any other geotechnical aspects pertaining to the development

In order to achieve the above objectives, Terra Firma (Wales) Limited carried out an assessment programme including a site walkover, a review of existing data, followed by a field investigation to collect geotechnical and environmental data from selected locations.

1.2 Limitations and Exceptions of Investigation

Cardiff County Council has requested that a Geo-environmental Site Assessment (GSA) and Geotechnical Investigation (GI) be performed in order to determine if contamination is present beneath the site and to determine an appropriate foundation and floor slab solution for the proposed development.

The GSA and GI were conducted and this report has been prepared for the sole internal reliance of Cardiff County Council and its design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Terra Firma (Wales) Limited. If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill. The report represents the findings and opinions of experienced geo-environmental and geotechnical consultants. Terra Firma (Wales) Limited does not provide legal advice and the advice of lawyers may be required.

1.2 Limitation and Exceptions of Investigation (Continued)

The subsurface geological profiles, any contamination and other plots are generalised by necessity and have been based on the information found at the locations of the exploratory holes and depths sampled and tested.

The site investigation was limited by the existing housing, roads and services.

SECTION 2 Introduction and Proposed Development

2.1 Physical Setting and Current Site Use

The site centres on an approximate National Grid Reference of 318010 174030 occupying a plan area of approximately 6.01 Hectares and is irregular in shape.

The site is bound by to the north by The Marl Park, to south and west by residential housing and by the River Taff east. The site is level with an elevation of 7-8mAOD.

The site location can be seen below in **Figure 01**

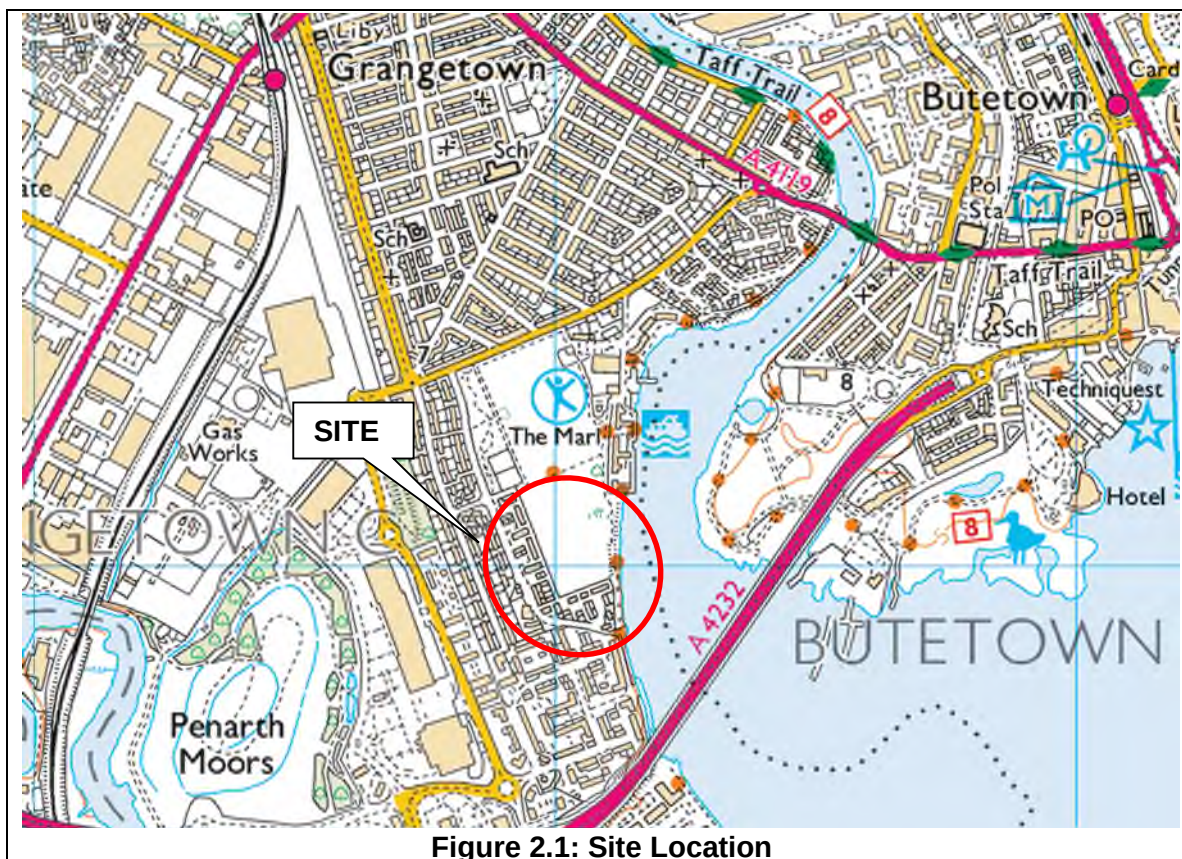


Figure 2.1: Site Location

The proposed site layout can be seen on **Drawing 02**.

2.2 Site History

Historical maps of the site have been obtained in an Envirocheck Report, provided by Landmark Information Group. The history plans are supplied in **Annex A** of this report, and the most relevant editions are summarised below. Distances are approximate, and any changes in-between map editions may not be recorded

Table 2.1 Historical Development from Map Information		
Map Edition and Scale	Key Features on Site	Key Features off Site
1880 1:1,250	The north and east of the site is an area of salt marshland and the west of the site being an empty field.	The site is surrounded by marshland and to the south west at within 100m is the Taff Vale Railway.
1901 1:10,560	The east of the site is found to be a floodplain indicated by the saltings and mud banks.	To the northeast within 150m away there is a sewerage tank. To the northwest within 250m there is a Gas works. The railway is still present at within 150m west.
1922 1:10,560	A spring is recorded on site to the northeast. The site is still occupied to the east by the River Taff's floodplain indicted by the mud bank and saltings.	Oil tanks are located within 250m to the west. Clay pits are located within 200m to the southwest and a stadium has been constructed to within 50m to the northwest of the site boundary.
1938 1:10,560	No significant change, Enviorcheck data sheet records The Marl landfill present on site to be operational from 31/12/1936.	The stadium located within 50m northwest has been demolished.
1947 1951 1:10,560	The site has been subject to filling. The saltings and mud banks are no longer recorded as being on site.	The west side of the site boundary has now been established by small residential dwellings. The Sewage works to the northeast and gas works to the northwest are still present.
1965 1:10,000	The site appears to have been used as a landfill site (The Marl) with the addition of trees surrounding the north and west boarder.	There are land drains recorded within 50m south of the site boundary. The sewage works are no longer recorded and has been replaced by a sand and gravel yard.
1969 1974 1:1,250	To the south west construction of Channel View flats has been completed.	There is a transport depot within 50m to the south.
1982 1:10,000	There are houses along the west boundary of the site.	No significant change.

Table 2.2 Historical Development from Map Information (Continued)

Map Edition and Scale	Key Features on Site	Key Features off Site
1984 1986 1:10,000	The housing development to the west and south of the site is now established and occupies a significant proportion of the site.	No significant change.
1991 1996 1:10,000	No significant change.	The construction of the A4232 within 250m to the southwest, south and southeast is completed.
1999 1:10,000 2006 1:10,000 2020 1:10,000	No significant change	No significant change.

2.3 Geological Setting

2.3.1 Geology

The 1:50000-scale geological map of the area (Sheet 263) and the publication 'Urban Geology of Cardiff Centre and the Bay Region' were consulted. The site is underlain by rocks of the Mercia Mudstone Group, which are Triassic in age. These rocks generally comprise structureless red mudstones, stiff clays, siltstones and sandstones.

Estuarine/marine alluvium is shown to overlie the solid geology. In this area of Cardiff superficial fluvio-glacial (undifferentiated) terrace deposits are recorded to be present between the alluvium and Mercia Mudstone. The fluvio-glacial gravel terrace was deposited from an historical melt-water fan. The alluvium was deposited above the gravel as the sea level rose, post-glacially. The alluvial deposits consist of a sequence of clays with sub-ordinate silts, sands and gravels. Peat horizons within the alluvium are also often found.

Made ground associated with the reclamation of land from the sea may be present. Reclamation took place in this area of Cardiff by 1810 and any fill materials are likely to be highly variable.

There are buried channels within the Mercia Mudstone beneath Cardiff. The Cardiff Borehole Contour Map shows A buried channel running along the south boundary of this site.

No faults are recorded on site.

2.3.2 Radon

The site lies in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level) as reported within the Envirocheck Report presented in **Annex A**.

No radon protective measures are necessary in the construction of new dwellings or extensions

2.3.3 Natural Hazard

The Envirocheck Report identifies a Moderate risk of compressible ground stability and running sandy ground stability.

2.4 Environmental Setting

The following sections have been compiled using the Landmark Information Group Envirocheck datasheet and maps which can be found in **Annex A**.

2.4.1 Hydrogeology and Hydrology

The nearest surface water feature is located on the eastern boundary of the site. This feature is the River Taff. Generally the topography of the site is level however, surface water runoff is likely to be in an easterly direction.

Deeper groundwater flow within the underlying bedrock will be controlled by the strata dip and any fractures or bedding planes within the rock units.

The hydraulic gradient will be at its steepest during periods of heavy rainfall and aquifer recharge.

The bedrock deposits beneath the site have an aquifer designation of 'Secondary B'. These are predominantly lower permeability layers which may store and 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.

The superficial deposits beneath the site have an aquifer designation of 'Secondary Undifferentiated'. This has been assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

2.4.2 Groundwater

The Envirocheck Report does not place the site within a groundwater source protection zone.

There are no groundwater abstraction points recorded within 250m of the site.

2.4.3 Flooding

The Envirocheck Report records the site is at risk from extreme flooding from rivers of sea and flooding from surface water or of property below ground level. The site should be allocated as a Zone 2.

Potential for groundwater flooding of property situated below ground level.

2.4.4 Waste

There is a recorded historical landfill site called The Marl situated within the site boundary and multiple landfill sites named; The Northern Old Clay Pit situated 153m to the north of the site boundary, British Gas Corporation situated 159m southwest, Hamadryadd No 2 169m northeast and Southern Old Clay at Ferry Road 232m southwest.

There are no currently active landfill sites within, or within 250m of the site boundary.

There is a licensed waste management facilities or registered waste transfer site within, or within 250m of the site boundary. This is the Butetown Link Landfill, located 147m northeast.

2.4.5 Pollution

The Envirocheck Reports records one pollution incident to controlled waters within 250m of site. The incident occurred on 21/03/1997 at Ferry Road, 167m southeast of the site. Pollutant was mud clay and soil runoff, it is classed as a category 3 – minor incident.

The Envirocheck report also indicates a substantial pollution incident register within 250m of the site. The incident occurred on 08/05/2008 the position of which was located by the supplier to be within 10m of the incident. It is classed as a category 2 – significant incident to water.

There is a recorded pollution prevention and controls recorded within 250m of site. This is by ASDA stores Ltd and is dated 23/12/1998 located at Cardiff Bay Retail Park some 248m northwest of the site boundary.

2.4.6 Sensitive Land Use

The following sensitive land uses are not located on or within 500m of the site boundary;

Areas of Adopted Green Belt
Areas of Unadopted Green Belt
Areas of Outstanding Natural Beauty
Environmentally Sensitive Areas
Forest Parks
Marine Nature Reserves
National Nature Reserves
National Parks
Nitrate Sensitive Areas
Nitrate Vulnerable Zones
Ramsar Sites
Special Areas of Conservation
Special Protection Areas
World Heritage Sites
Sites of Special Scientific Interest

The following sensitive land uses are located within 500m of the site boundary;

- Local Nature Reserve: Cardiff Bay Wetlands and Hamadryad Park: 163m northeast. The Hamadryad Park is formed from dredged alluvial deposits from the construction of the PDR bridge.

The proposed development is not considered likely to impact these sensitive receptors.

SECTION 3 Preliminary Human Health and Environmental Risk Assessment

3.1 General

The contaminated land regime is set out in Part IIA of the Environmental Protection Act (EPA) 1990 and was introduced on the 1st April 2000 in England and 1st July 2001 in Wales. A similar regime was introduced in Scotland on 14th July 2000. Part IIA was introduced to achieve two aims:

- (1) The identification of contaminated land
- (2) The remediation of contaminated land that poses an unacceptable risk to human health and/or the environment

Under Part IIA the statutory definition of 'contaminated land' is: any land which appears to the local authority in whose area it is situated, to be in such a condition, by reason of substances in, on, or under the land, that:

- (a) Significant harm is being caused or there is a significant possibility of such harm being caused; or
- (b) Pollution of controlled waters is being, or is likely to be, caused."

For land to be classified as 'Contaminated Land' there must be a 'pollutant linkage'.

For our definitions of pollution linkage and how we define risk please refer to **Annex B** which includes our classifications of consequence and probability and risk assessment matrix.

3.2 Preliminary Site Conceptual Model

The preceding sections enable a preliminary conceptual model of the site to be drawn up, to illustrate the likely ground conditions beneath the site together with a preliminary assessment of the nature of any underlying aquifers and groundwater movement. The preliminary site conceptual model is used as a model for the design and implementation of the site investigation, whereby areas of potential contamination can be targeted as well as investigating the site as a whole.

3.3 Potential Sources of Contamination and Gas

The potential contamination beneath the site, whether in the matrix of soil or groundwater is related to the sites past use.

The historical map review shows the site to have had past industrial or commercial use as a Landfill (The Marl) and deposited waste included inert, industrial, commercial, household and special waste, we would therefore expect there to be a **Medium to High** risk of contamination relating to past industrial use of the site as a landfill. The risk of contamination would be determined by testing for a general suite of contaminants including asbestos.

No other potential on-site sources of contamination have been identified during the desk study.

3.4 Potential Receptors and Pollution Pathways

There are both human and hydrological receptors to any contamination that may be present on site.

3.4 Potential Receptors and Pollution Pathways (Continued)

Construction workers will be excavating in soils and will be exposed via dermal contact with soils and dust, ingestion of soil dust and inhalation of soil dust.

Inhalation of asbestos fibres is also a possible risk, if present.

A continued residential end use is proposed. Once developed, future site users will potentially be at risk from the same pathways.

Neighbouring site users and passers-by may potentially be exposed to soil dust, asbestos fibres and vapours.

If any contamination is identified this may be leachable, enabling it to mobilise through perched groundwater within site soils into the underlying aquifer.

3.5 Preliminary Human Health and Environmental Risk Assessment

Table 3.1 Preliminary Qualitative Human Health and Environmental Risk Assessment			
Potential Source	Potential Pathway	Potential Target	Preliminary Assessment Risk
Human Health			
Site Soil	Dermal contact with soil, ingestion of soil/soil dust, inhalation of soil dust/asbestos fibres	Construction workers	Medium to High Risk COSHH assessment and good level of PPE/ hygiene by site workers/ staff; dust suppression measures if required. Potential made ground including asbestos
Site Soil	Dermal contact with soil, ingestion of soil/soil dust, inhalation of soil dust/asbestos fibres	Passers by/neighbouring site users	Medium to High Risk Potential made ground including asbestos
Site Soil	Dermal contact with soil, ingestion of soil/soil dust or site grown vegetables, inhalation of soil dust/asbestos fibres	Site End Users – Residents and visitors.	Medium to High Risk Potential made ground including asbestos
Radon Gas from underlying bedrock	Migration into indoor air	Site End Users – Residents and visitors.	Low Risk No radon protection measures required
Landfill gas	Migration through superficial deposits and bedrock and accumulation indoors	Site End Users – Residents and visitors.	Risk Identified (Medium to High) Historic Landfill The Marl, source identified
Ground gas	Direct from any made ground/buried organic matter on site and accumulation indoors	Site End Users – Residents and visitors.	Negligible Risk No significant source identified
Vapours	Migration into indoor air	Site End Users – Residents and visitors.	Medium to High Risk Historic Landfill The Marl, source identified
Site Soils	Permeation of drinking water pipes	Site End Users – Residents and visitors.	Low to Medium Risk Potential made ground from landfill
Aquatic Environment			
Site Soils	Surface runoff and leaching of contamination into the perched groundwater	Perched groundwater beneath the site	Low to Medium Risk Potential made ground
Site Soils	Groundwater transport	Nearest significant site boundary.	Low to Medium Risk Potential made ground
Site Soils	Groundwater transport	Underlying bedrock: Secondary B Aquifer.	Low to Medium Risk Potential made ground
Vegetation			
Site Soils	Uptake of phytotoxic contaminants	Vegetation	Low to Medium Risk Potential made ground
Building Materials			
Site Soils	Damage of building materials	New buildings	Low Risk Correct class of concrete to be chosen. Potential made ground and Sulphates.

SECTION 4 Field Investigation

4.1 Site Works

A geotechnical and geo-environmental site investigation comprising four windowless sample boreholes and three cable percussive boreholes, two with rotary coring was carried out between the 15th April 2020 and 31st April 2020.

The fieldwork was supervised by Terra Firma (Wales) Limited, who logged the exploratory holes to the requirements of BS5930:2015. The proposed locations of the exploratory holes were determined by Terra Firma (Wales) Limited.

The cable percussive boreholes, two of which had rotary follow on, (**Annex C**) were formed using a light cable tool (shell and auger) rig utilising 150mm or 200mm casing. Initially, an inspection pit was hand excavated to 1.20m to check for buried services. The boreholes were advanced using a clay cutter and bailer with the occasional use of a heavy California chisel to assist boring.

Disturbed samples of the arisings were taken and retained in plastic bags and airtight tubs.

Standard penetration tests were carried out in general accordance with the Specification. A split barrel or soil cone was used depending on the materials encountered and the split barrel samples retained in airtight tubs. The N value was taken as the number of blows to penetrate the 300mm test drive following a 150mm seating drive. Test results are presented on the relevant borehole logs.

Boreholes were monitored for groundwater ingress as boring proceeded. Upon encountering water, boring was temporarily stopped to allow water levels to stabilise and recorded.

Two of the boreholes were continued with rotary coring using a Beretta T44 Rotary rig. The boreholes were advanced through the bedrock by 75mm diameter cores with intermittent SPT/RPT's being carried out. Air flush was used as the flushing medium. The cores were logged by an experienced engineer again to the requirements of BS5930:2015. Core recovery was poor with materials recovered as angular rock gravel. Rock strength was therefore based upon SPT values.

On completion slotted standpipes were installed in all boreholes. Each standpipe consisted of a 50mm ID HDPE slotted tube set in a granular filter medium and sealed above and below with a bentonite plug. The installations were protected at surface by a lockable stopcock cover set in concrete. Installation details are given on the relevant borehole log.

Prior to water sampling, the water monitoring standpipes were developed by pumping and then purged until at least three well volumes of water had been removed, water run clear or quality readings stabilised. Temperature, pH, dissolved oxygen level, redox potential and conductivity readings were also taken periodically during development. Water quality results are presented in **Annex G**.

The windowless samples were sunk using a Dando Terrier Window Sampling Rig. Standard/Cone Penetration (SPT/SPT(C)) Tests were undertaken at close and regular intervals within the window sample boreholes. The purpose of these exploratory holes was to improve site coverage and provide new shallow installations for gas monitoring. The logs are presented in **Annex C**.

Representative disturbed samples were taken and retained in airtight containers for environmental and geotechnical testing.

Exploratory hole locations are shown on **Drawing 01**.

4.2 Exploratory Strategy

It is considered that the number and spacing of exploratory holes was adequate to:

- Investigate the presence, nature and distribution of contamination on site in an efficient but cost effective manner.
- Optimise the chances of finding contamination hot spots of various sizes and orientations.
- Provide good representation of the ground conditions beneath the site.
- Provide sufficient data to determine suitable remedial measures if necessary.

4.3 Ground Conditions

The ground conditions encountered by the exploratory holes can in general be summarised as shown in **Table 4.1**.

Table 4.1 Summary of Ground Conditions	
Depth (m)	Stratum
0.00 to 0.40 / 0.45	MADE GROUND: Grass over firm brown slightly gravelly CLAY .
0.40 / 0.45 to 4.30 / 5.30	MADE GROUND: Medium dense black gravelly SAND . Sand is fine to coarse of ash. Gravel is angular fine to coarse of metal, slag, brick, glass and coal.
4.30 / 5.30 to 11.30 / 11.80	Soft grey laminated silty CLAY with occasional cobble.
11.30 / 11.80 to 11.80 / 12.50	Loose grey clayey sandy GRAVEL . Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of mixed lithologies.
11.80 / 12.50 to 19.20 / 19.60	Medium dense to dense becoming very dense brown sandy GRAVEL with medium cobble content and low boulder content. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of mixed lithologies. Cobbles and boulders are subangular of mixed lithologies.
19.20 / 19.60 to >28.00	Hard weathered brown occasionally mottled grey sandy MUDSTONE (Poor core recovery estimated as Grade II/III)

4.4 Water Strikes

There were two groundwater strikes encountered during the investigation work. The first was encountered within the gravels at 11.80m in CP01, 12.00m CP02 and 11.30m in CP03. The second was encountered within the mudstone bedrock at 22.20m in CP02 and 22.40m in CP03.

4.5 Soil Laboratory Chemical Testing

During the intrusive investigation, small disturbed soil samples were collected. The sampling regime was conducted in accordance with BS5930: 1999 in order to satisfy the following criteria:

- Identify and confirm suspected sources of contamination
- Determine type and concentration of contamination
- Determine lateral and vertical spread of contaminants
- Ensure representation of the entire site

4.5 Soil Laboratory Chemical Testing (Continued)

• Provide sufficient data to determine suitable remedial measures if necessary
The soil samples taken were despatched to the laboratories of Chemtest. The sample locations and depths as well as scheduled laboratory tests are listed in the table on the following page.

Table 4.2 Soil Sample Details			
Sample	Depth (m)	Sample Description	Testing Schedule
WS01	3.0	Made Ground: Dense dark grey and red clayey sandy GAVEL.	SF1
WS02	0.5	Made Ground: Medium dense black gravelly SAND.	SF1
WS02	1.5	Made Ground: Medium dense black gravelly SAND.	SF1
WS03	0.3	Made Ground: Grass over brown slightly sandy slightly gravelly CLAY.	SF1
WS04	1.8	Made Ground: Medium dense black gravelly SAND.	SF1
CP01	1.0	Made Ground: Medium dense black gravelly SAND.	SF1, WAC
CP01	2.5	Made Ground: Medium dense black gravelly SAND.	SF1, TF1 Leachate
CP02	3.0	Made Ground: Medium dense black gravelly SAND.	SF1, TF1 Leachate
CP02	4.5	Soft grey laminated silty CLAY	SF1
CP03	2.0	Made Ground: Medium dense black gravelly SAND.	SF1, WAC, TF1 Leachate

Notes

- SF1 - antimony, arsenic, beryllium, boron, cadmium, chromium III, chromium VI, manganese, mercury, molybdenum, copper, nickel, lead, selenium, zinc, speciated PAH, cyanide, sulphate, pH, phenol, soil organic matter, TPHCWG, Asbestos

The results are discussed in detail in **Section 5** and the laboratory test results certificates may be found in **Annex D**.

4.5.1 Leachate

Three samples collected were subject to leachate testing for the following determinants and the laboratory test results certificates may be found in **Annex D**.

Metals and Metalloids

Lead (Dissolved)
Arsenic (Dissolved)
Mercury (Dissolved)
Cadmium (Dissolved)
Chromium (Dissolved)
Copper (Dissolved)
Nickel (Dissolved)
Zinc (Dissolved)
Selenium (Dissolved)
Boron (Dissolved)

In-Organics

Cyanide (Total)
Sulphate

Others

pH (acidity)

Organic Chemicals

Phenols
Polycyclic Aromatic Hydrocarbons (PAH)
Petroleum Hydrocarbons (TPH CWG)
Total Organic Carbon (TOC)

4.5.2 Groundwater Chemical Testing

After the ground investigation the water sample was retrieved from boreholes CP01, CP02 and CP03. Two rounds of groundwater sampling and testing was completed from each well.

The sample locations and dates of the groundwater sampling are listed in **Table 4.3**.

Table 4.3 Groundwater Samples			
Sample	Round 1	Round 2	Response Zone
CP01	29/06/2020	06/07/2020	5.00 – 18.00mbgl
CP02	29/06/2020	06/07/2020	6.00 – 18.50mbgl
CP03	29/06/2020	06/07/2020	20.00 – 24.00mbgl

Groundwater samples were despatched to the laboratories of Chemtest for laboratory chemical testing

The samples were screened for the following substances:

Metals and Metalloids

Lead
Arsenic
Mercury
Cadmium
Copper
Chromium
Nickel
Selenium
Zinc

In-Organics

Cyanide
Sulphate

Others

pH
Organic Matter
BOD
COD
Hardness

Organic Chemicals

Phenols
Polycyclic Aromatic Hydrocarbons

The tests were undertaken to the appropriate British standards.

The test results are presented in **Annex G** and discussed in **Section 5.6** of this report.

4.5.3 Soil Plasticity Testing

During the fieldworks three small disturbed soil samples of in-situ material were taken and despatched to the laboratories of Apex Testing for plasticity testing.

The tests were undertaken to the appropriate British standards.

The test results are presented in **Annex E** and discussed in **Section 8.2** of this report.

4.6 Gas Monitoring

Due to historic landfill situated within the site boundary there is significant potential for a gas source. During the investigation seven gas and groundwater monitoring wells were installed.

A summary of the installation details are listed in **Table 4.4**

Table 4.4 Installation Details		
Sample	Response Zone	Response Zone Strata(s)
CP01	5.00 – 18.00mbgl	Clay and Gravels
CP02	6.00 – 18.50mbgl	Clay and Gravels
CP03	20.00 – 24.00mbgl	Mudstone
WS01	1.00 – 3.00mbgl	Made Ground
WS02	1.00 – 3.00mbgl	Made Ground
WS03	1.00 – 3.00mbgl	Made Ground
WS04	1.00 – 3.00mbgl	Made Ground

Between the 28th May 2020 and 21st July 2020 the wells were monitored, with a GA2000 Gas Analyser, for Methane, Carbon Dioxide, Oxygen, Hydrogen Sulphide and Carbon Monoxide. These monitoring wells were lost during site preparation works.

The results of the gas monitoring are presented in **Annex F** and are discussed in **Section 7**.

SECTION 5 Evaluation of Soil Analytical Results

5.1 Soil Assessment Methodology

Comparison of the analytical results has been made with the 2015 Sutable 4 Use Levels (S4UL) provided by Land Quality Management (LQM) Limited and the Chartered Institute of Environmental Health (CIEH) or provisional Category 4 Screening Levels (pC4SL). Where S4UL or C4SL values are not available, reference has been made to Soil Guideline Values (SGV) sourced from the now withdrawn Environment Agency Contaminated Land Exposure Assessment (CLEA).

5.2 Soil Test Results

A summary of the chemical test results which include the regulatory soil guideline values used in a residential setting are given in **Tables 5.1 to 5.3**. The complete results can be found in **Annex D**.

Six samples were tested for a standard suite of metals, inorganics and phenols. The summarised results are shown below in **Table 5.1**.

Table 5.1 Summary of Soil Chemical Test Results Standard Suite						
Substance	Residential with gardens GAC (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Number of Exceedances (Residential Guidelines with Gardens)	Number of Exceedances (Residential Guidelines without Gardens)
			Minimum	Maximum		
Arsenic	37	S4UL	19	53	3/10	2/10
Cadmium	11	S4UL	< 0.10	1.60	0/10	0/10
Chromium	-	-	15	240	-	-
Chromium III	910	S4UL	15	240	0/10	0/10
Chromium VI	6	S4UL	<0.5	<0.5	0/10	0/10
Copper	2400	S4UL	<2.00	45	0/10	0/10
Lead	200	C4SL	86	2200	6/10	5/10
Mercury	40	S4UL	0.28	1.40	0/10	0/10
Nickel	130	S4UL	26	100	0/10	0/10
Selenium	250	S4UL	<0.20	1.8	0/10	0/10
Zinc	3700	S4UL	100	1500	0/10	0/10
Cyanide	8	SGV	<0.5	38	2/10	2/10
Organic matter %	-	-	1.0%	4.7%	-	-
Sulphate (SO ₄) %	-	-	0.065%	0.52%	-	-
pH	-	-	2.5	10.9	-	-
Phenol	120	S4UL	<0.3	<0.3	0/10	0/10
Total PAH	-	-	2.5	190	-	-
Notes: • A total of 10 samples were tested. • S4UL - Land Quality Management Chartered Institute of Environmental Health's "Suitable 4 Use Levels" • C4SL - DEFRA's "Provisional Category 4 Screening Level" • SGV - CLEA "Soil Guideline Values" • < - Below Laboratory Detection Limit						

Six samples were tested for speciated polycyclic aromatic hydrocarbons. The summarised results are shown below in **Table 5.2**.

Table 5.2 Summary of Soil Chemical Test Results Speciated PAH						
Substance	Residential with gardens GAC (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Number of Exceedances (Residential Guidelines with Gardens)	Number of Exceedances (Residential Guidelines without Gardens)
			Minimum	Maximum		
Naphthalene	2.3	S4UL	< 0.10	5.10	1/10	1/10
Acenaphthylene	170	S4UL	< 0.10	0.51	0/10	0/10
Acenaphthene	210	S4UL	< 0.10	3.00	0/10	0/10
Fluorene	170	S4UL	< 0.10	3.10	0/10	0/10
Phenanthrene	95	S4UL	0.44	30	0/10	0/10
Anthracene	2400	S4UL	< 0.10	8.80	0/10	0/10
Fluoranthene	280	S4UL	0.64	33	0/10	0/10
Pyrene	620	S4UL	0.70	32	0/10	0/10
Benzo(a)anthracene	7.2	S4UL	0.28	13	1/10	1/10
Chrysene	15	S4UL	0.43	14	0/10	0/10
Benzo(b)fluoranthene	2.6	S4UL	< 0.10	13	4/10	2/10
Benzo(k)fluoranthene	77	S4UL	< 0.10	5.40	0/10	0/10
Benzo(a)pyrene	2.2	S4UL	< 0.10	12	4/10	2/10
Indeno(123cd)pyrene	27	S4UL	< 0.10	7.10	0/10	0/10
Dibenzo(ah)anthracene	0.24	S4UL	< 0.10	2.00	7/10	1/10
Benzo(ghi)perylene	320	S4UL	< 0.10	7.10	0/10	0/10
Notes: • A total of 10 samples were tested. • S4UL - Land Quality Management Chartered Institute of Environmental Health's "Suitable 4 Use Levels" • C4SL - DEFRA's "Provisional Category 4 Screening Level" • SGV - CLEA "Soil Guideline Values" • < - Below Laboratory Detection Limit						

Notes:

- A total of 10 samples were tested.
- < - Below Laboratory Detection Limit
- S4UL - Land Quality Management Chartered Institute of Environmental Health's "Suitable 4 Use Levels" based on 1% soil organic matter.

A summary of the speciated Petroleum Hydrocarbon results are given in **Table 5.3** below.

Table 5.3 Summary of Soil Chemical Test Results Speciated Petroleum Hydrocarbons						
Substance	Residential With gardens SGV/GAC/S4UL (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Number of Exceedances (Residential Guidelines with gardens)	Number of Exceedances (Residential Guidelines without gardens)
			Minimum	Maximum		
Aliphatic EC >5-6	42	S4UL	< 1.0	< 1.0	0/10	0/10
Aliphatic EC >6-8	100	S4UL	< 1.0	< 1.0	0/10	0/10
Aliphatic EC >8-10	27	S4UL	< 1.0	< 1.0	0/10	0/10
Aliphatic EC >10-12	130	S4UL	< 1.0	< 1.0	0/10	0/10
Aliphatic EC >12-16	1100	S4UL	< 1.0	< 1.0	0/10	0/10
Aliphatic EC >16-21	65000	-	< 1.0	< 1.0	-	-
Aliphatic EC >21-35	65000	-	< 1.0	77	-	-
Aliphatic EC >35-44	65000	S4UL	< 1.0	< 1.0	0/10	0/10
Aromatic EC >5-7	70	S4UL	< 1.0	< 1.0	0/10	0/10
Aromatic EC >7-8	130	S4UL	< 1.0	< 1.0	0/10	0/10
Aromatic EC >8-10	34	S4UL	< 1.0	< 1.0	0/10	0/10
Aromatic EC >10-12	74	S4UL	< 1.0	< 1.0	0/10	0/10
Aromatic EC >12-16	140	S4UL	< 1.0	< 1.0	0/10	0/10
Aromatic EC >16-21	260	S4UL	< 1.0	28	0/10	0/10
Aromatic EC >21-35	1100	S4UL	< 1.0	1200	1/10	0/10
Aromatic EC >35-44	1100	S4UL	< 1.0	< 1.0	0/10	0/10

Notes:

- A total of 10 samples were tested.
- < - Below Laboratory Detection Limit
- S4UL - Land Quality Management Chartered Institute of Environmental Health's "Suitable 4 Use Levels" based on 1% soil organic matter.

10 samples were tested for asbestos, only one sample tested positive. A summary of the Asbestos Identification and Asbestos Quantification results (If identified) are given in **Table 5.4** below.

Table 5.4 Summary of Soil Chemical Test Results Asbestos			
Location	Depth	Analyst Comment	Asbestos Quantification
WS02	1.5m	Amosite	<0.001% Total asbestos
Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by using polarised light microscopy.			
NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'.			

5.3 Leachate Assessment Methodology

Leachate results have been compared to thresholds for inland freshwater environments (annual average or maximum allowable concentration where annual average not available) provided by the 2015 UK Water Framework Directive (WFD).

5.4 Leachate Test Results

The leachate test results for the four samples are detailed in **Table 5.5** below.

Table 5.5 Summary of Leachate Test Results Standard Suite					
Substance	Threshold (µg/l)	Source	Measured Concentration (µg/l)		Number of Exceedences
			Minimum	Maximum	
Arsenic (Dissolved)	0.05	WFD	<1.00	1.00	0/3
Cadmium (Dissolved)	0.08	WFD	<0.08	0.12	1/3
Chromium (Dissolved)	4.70	WFD	<1.00	5.40	1/3
Copper (Dissolved)	1.00	WFD	1.5	2.4	3/3
Lead (Dissolved)	1.2	WFD	<1.00	5.8	1/3
Mercury Low Level	0.07	WFD	<0.01	<0.01	0/3
Nickel (Dissolved)	4.00	WFD	<1.00	7.10	1/3
Selenium (Dissolved)	10.00	DWD	<1.00	1.30	0/3
Zinc (Dissolved)	10.90	WFD	8.90	110	2/3
Cyanide (Total)	1.00	WFD	<0.05	<0.05	0/3
pH	-	-	7.7	8.1	-
Sulphate	250000	WFD	28000	250000	0/3
Phenol	7.70	WFD	<5.00	<5.00	0/3
Notes:					
• WFD - Water Framework Directive (inland surface waters, annual average) • LoD - laboratory limit of detection used as a suggested target concentration in lieu of WFD guidance • Units are mg/l (milligram per litre) unless otherwise indicated • DWD – Drinking Water Directive • 3 samples tested					

5.5 Groundwater Assessment Methodology

The laboratory test results from site investigation are compared to the following regulatory thresholds:

- Water Framework Directive (WFD) 2015 thresholds for inland freshwater environments (annual average or maximum allowable concentration where annual average not available). Please note the threshold for zinc takes into account the background concentration for the River Taff.
- The World Health Organisation (WHO) Drinking Water Standards have been applied where there are no existing Water Framework Directive or UK Standard guidelines are available
- UK Dangerous Substance Directive (DSD) thresholds were used for ethylbenzene and xylenes in the absence of WFD guidelines.

5.6 Groundwater Test Results

Groundwater test results are detailed in **Table 5.6** below.

Table 5.6 Summary of Groundwater Chemical Test Results					
Substance	Threshold (ug/l)	Source	Measured Concentrations of Tested Substances (µg/l)		Number of Exceedances
			Minimum	Maximum	
Arsenic	50	WFD	<1.0	8.8	0/6
Cadmium	0.15 ⁺	WFD	<0.08	<0.08	BLDL
Chromium (dissolved)	4.7	WFD	<1.0	12	3/6
Chromium III	4.7	WFD	<20	<20	BLDL
Chromium VI	3.4	WFD	<20	<20	BLDL
Copper	1.0	WFD	<1.0	3.6	4/6
Lead	1.2	WFD	<1.0	1.2	0/6
Mercury	0.07	WFD	<0.01	<0.01	BLDL
Nickel	4.0	WFD	<1.0	2.2	0/6
Selenium	10	WFD	1.1	5.7	0/6
Zinc	13.9	WFD	<1.0	7.7	0/6
Cyanide	1.0	WFD	<50	<50	BLDL
Total Phenol	7.7	WFD	0.10	0.18	0/6
Naphthalene	2	WFD	<0.01	<0.01	BLDL
Acenaphthylene	-	-	<0.01	<0.01	-
Acenaphthene	-	-	<0.01	<0.01	-
Fluorene	-	-	<0.01	<0.01	-
Phenanthrene	-	-	<0.01	<0.01	-
Anthracene	0.1	WFD	<0.01	<0.01	BLDL
Fluoranthene	0.0063	WFD	<0.01	<0.01	BLDL
Pyrene	-	-	<0.01	<0.01	-
Benzo(a)anthracene	-	-	<0.01	<0.01	-
Chrysene	-	-	<0.01	<0.01	-
Benzo(b)fluoranthene	0.017	WFD	<0.01	<0.01	BLDL
Benzo(k)fluoranthene	0.017	WFD	<0.01	<0.01	BLDL
Benzo(a)pyrene	0.00017	WFD	<0.01	<0.01	BLDL
Indeno(123cd)pyrene	-	-	<0.01	<0.01	-
Dibenzo(ah)anthracene	-	-	<0.01	<0.01	-
Benzo(ghi)perylene	0.0082	WFD	<0.01	<0.01	BLDL

Table 5.6 Summary of Groundwater Chemical Test Results (Continued)

Substance	Threshold (ug/l)	Source	Measured Concentrations of Tested Substances (ug/l)		Number of Exceedances
			Minimum	Maximum	
PH C5 – C6 Ali	15000	WHO	<0.1	<0.1	BLDL
PH C6 – C8 Ali	15000	WHO	<0.1	<0.1	BLDL
PH C8 – C10 Ali	300	WHO	<0.1	<0.1	BLDL
PH C10 – C12 Ali	300	WHO	<0.1	<0.1	BLDL
PH C12 – C16 Ali	300	WHO	<0.1	<0.1	BLDL
PH C16 – C21 Ali	-	-	<0.1	<0.1	BLDL
PH C21 – C35 Ali	-	-	<0.1	<0.1	BLDL
PH C5 – C7 Arom	10	WHO	<0.1	<0.1	BLDL
PH C7 – C8 Arom	700	WHO	<0.1	<0.1	BLDL
PH C8 – C10 Arom	300	WHO	<0.1	<0.1	BLDL
PH C10 – C12 Arom	90	WHO	<0.1	<0.1	BLDL
PH C12 – C16 Arom	90	WHO	<0.1	<0.1	BLDL
PH C16 – C21 Arom	90	WHO	<0.1	<0.1	BLDL
PH C21 – 35 Arom	90	WHO	<0.1	<0.1	BLDL
Total TPH*	10**	WHO	<10	<10	BLDL

Notes:

- + Threshold based on hardness of >100mg CaCO₃/l
- ++ Threshold for CrVI
- ** Threshold for PH Aromatic C5- C7 applied (most stringent)
- BLDL – Below Laboratory Detection Limit

SECTION 6 Quantitative Risk Assessment

6.1 Contaminants of Concern

All sample contained one or number of contaminants which were above the residential with plant uptake threshold. The contaminants of concern are highlighted in **Table 6.1** below:

Table 6.1 Summary of Contaminants of Concern					
Location	Depth (m)	Contaminant	Concentration (mg/kg)	Threshold (mg/kg)	Comment
CP01	1.00	Chromium (trivalent)	16	11	Made ground
CP01	2.50	Arsenic Lead, Chromium (trivalent), Naphthalene, Benzo[b]fluoranthene, Benzo[a]pyrene, Dibenz(a,h)Anthracene	43 570 27 5.1 3.2 3.1 0.91	37 200 11 2.3 2.6 2.2 0.24	Made ground
CP02	3.00	Cyanide Arsenic Lead Chromium (Trivalent) Dibenz(a,h)Anthracene	38 53 2200 240 0.50	8 37 200 11 0.24	Made ground
CP02	4.50	Cyanide Lead Chromium (Trivalent)	18 660 62	8 200 11	In-situ deposits just below made ground
CP03	2.00	Arsenic Beryllium Lead Chromium (Trivalent) Dibenz(a,h)Anthracene	38 1.8 1200 58 0.28	37 1.7 200 11 0.24	Made ground
WS01	3.00	Lead Chromium (Trivalent)	62 23	200 11	Made ground
WS02	0.50	Chromium (Trivalent) Benzo[b]fluoranthene Benzo[a]pyrene Dibenz(a,h)Anthracene	23 3.3 3.2 0.77	11 2.6 2.2 0.24	Made ground
WS02	1.50	Chromium (Trivalent) Benzo[b]fluoranthene Benzo[a]pyrene Dibenz(a,h)Anthracene	15 6.6 4.5 0.89	11 2.6 2.2 0.24	Made ground
WS03	0.30	Lead Chromium (Trivalent) Aromatic TPH >C21-C35 Pyrene Benzo[b]fluoranthene Benzo[a]pyrene Dibenz(a,h)Anthracene	500 47 1200 13 13 12 2.0	200 11 1100 7.2 2.6 2.2 0.24	Made ground
WS04	1.80	Beryllium Lead Chromium (Trivalent) Dibenz(a,h)Anthracene	1.8 280 22 0.71	1.7 200 11 0.24	Made ground

All samples contained one or number of leachable contaminants which were above the guidelines. The contaminants of concern are highlighted in **Table 6.2** below:

Table 6.2 Summary of Leachable Contaminants of Concern					
Location	Depth (m)	Contaminant	Concentration (µg/l)	Threshold (µg/l)	Comment
CP01	2.50	Copper (Dissolved)	1.5	1.0	Made ground
CP02	3.00	Copper (Dissolved)	1.9	1.0	Made ground
		Zinc (Dissolved)	110	10.9	
		Cadmium (Dissolved)	0.12	0.08	
		Lead (Dissolved)	5.8	1.2	
		Nickle (Dissolved)	7.1	4.0	
CP03	2.00	Copper (Dissolved)	2.5	1.0	Made ground
		Zinc (Dissolved)	21	10.9	
		Chromium (Dissolved)	5.4	4.7	

All samples contained one or number of leachable contaminants which were above the guidelines. The contaminants of concern are highlighted in Table 6.2 below:

Table 6.3 Summary of Groundwater Contaminants of Concern				
Location	Contaminant	Concentration (µg/l)	Threshold (µg/l)	Comment
CP01	Copper (Dissolved)	3.6 & 2.0	1.0	Made ground
	Chromium (Dissolved)	12.0	4.7	
CP02	Copper (Dissolved)	3.6	1.0	Made ground
	Chromium (Dissolved)	9.7	4.7	
CP03	Copper (Dissolved)	2.0	1.0	Made ground
	Chromium (Dissolved)	5.1	4.7	

6.2 Potential Receptors and Pathways

6.2.1 Human Receptors

As stated in **Section 6.1** contamination was found in all of the of samples with respect to arsenic, lead, Chromium (trivalent), Naphthalene, Benzo[b]fluoranthene, Benzo[a]pyrene, Dibenz(a,h)Anthracene, Aromatic TPH >C21-C35, Pyrene and Cyanide. Therefore, it is considered that there is a risk to human receptors at the site in the areas of contamination. Measure to deal with this contamination is discussed in detail in **Section 6.3**.

Neighbouring site users and passers-by are potentially at risk from exposure to soil dust and asbestos fibres both during and following construction.

Upon development site use will have changed and the primary human receptors to contamination in site soils will be residents of the new housing and visitors, as well as any maintenance contractors (e.g. gardeners, utility technicians). All future site users could be exposed to contaminants through dermal contact, ingestion and inhalation of soil/soil dust, or the inhalation of asbestos fibres. Future site residents (any their visitors) may similarly be at risk from consumption of vegetables/fruit grown in contaminated soils and through ingestion of potable water distributed on site through plastic pipes.

6.2.2 Aquatic Environment

The superficial deposits beneath the site has an aquifer designation of 'Secondary B' and the underlying bedrock has an aquifer designation of 'Secondary Undifferentiated'.

The site does not situate within a groundwater source protection zone and the nearest There are no groundwater abstraction points within 250m of the site.

6.2.2 Aquatic Environment (Continued)

Copper and Chromium (dissolved) were identified in groundwater at levels above their respective threshold level and lead was found at the threshold.

There is correlation between contamination in soils and contamination identified in groundwater. There were elevated levels of Lead, Copper and Chromium within the leachate results.

This suggests that the layer of alluvium between the made ground and underlying groundwater in the fluvio-glacial gravels is acting as a partial aquiclude only.

The River Taff is nearest surface water feature and is located on the eastern boundary of the site. The River Taff is identified as a potential receptor to groundwater within the fluvio-glacial gravels and bedrock. The river is located on the eastern boundary of the site.

The site is therefore a risk to controlled waters.

6.3 Mitigation and Remedial Measures

6.3.1 Human Health

Remedial measures will be required with regards to site soils which have been found to contain elevated levels of arsenic, lead, Chromium (trivalent), Naphthalene, Benzo[b]fluoranthene, Benzo[a]pyrene, Dibenz(a,h)Anthracene, Aromatic TPH >C21-C35, Pyrene, Cyanide and Amosite asbestos. The affected soils are the Made Ground and in-situ materials just below the made ground that is present over of the whole site.

As stated in **Section 6.1** contamination in all samples, it is considered that there is a risk to human receptors at the site in the areas of contamination. Due to the level and depth of the contamination at the site it is likely to be a continued risk to end users.

Capping will therefore be required in landscaped and garden areas. The capping is to consist of the proposed buildings, hard standing and in garden and landscaped areas 600mm of suitable clean imported subsoil/topsoil material. This material should ideally conform to the requirements of BS: 3882.

At the base of the capping layer, a double no dig barrier should be placed to provide a barrier between the clean imported soils and contaminated made ground soils. The double no dig barrier should consist of a hi-visibility geotextile with a structural geo grid positioned on top of the geotextile.

Any imported soils should be tested at source to confirm that the soils are clean and suitable for use. The soils should also be tested in-situ whilst confirming the capping thickness and presence of the no dig barrier.

The remainder of the site will be capped by buildings and hard standings.

As good practise, construction workers should adhere to good site management, COSHH, good standards of hygiene and appropriate health & safety on site, with personal protection equipment (PPE) and dust suppression where appropriate.

Neighbouring site occupants and passers-by can be protected by site screening and dust suppression measures if necessary.

Any imported soils should be tested and validated as suitable prior to use in accordance with 'Requirements for the Chemical Testing of Imported Materials for Various End Uses

6.3.1 Human Health (Continued)

and Validation Cover Systems' published by the Welsh Contaminated Land Working Group. If during development works any unexpected ground conditions or evidence of additional contamination is found, inspection by a geo-environmental engineer should be made, and any required testing or investigation carried out prior to continuation of works.

For proposed new water supply pipes, the UK Water Industry Research publication 'Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites (Report 10/WM/03/21)' should be consulted.

6.3.2 Aquatic Environment

Copper and Chromium (dissolved) have been found above respective guideline values as described above. Defra guidance (Environmental Protection Act 1990: Part 2A) "seeks to identify and deal with significant pollution (rather than lesser levels of pollution), the local authority should seek to focus on pollution which: (i) may be harmful to human health or the quality of aquatic ecosystems or terrestrial ecosystems directly depending on aquatic ecosystems; (ii) which may result in damage to material property; or (iii) which may impair or interfere with amenities and other legitimate uses of the environment."

Part 2A also defines that the following types of pollution (Points 1 to 4) should be considered to constitute significant pollution of controlled waters:

1. Pollution equivalent to "environmental damage" to surface water or groundwater as defined by The Environmental Damage (Prevention and Remediation) Regulations 2009, but which cannot be dealt with under those Regulations.

The contamination identified in the waters on the site are highly unlikely to equate to environmental damage. Envirocheck data indicates that no Sensitive Land Uses are present near the site. The closest sensitive land use is the Cardiff Bay Wetlands and Hamadryad Park, a local nature reserve, located 163m northeast, on the east bank of the River Taff. In addition, the Cardiff Bay Wetlands and Hamadryad Park is located up stream of the site. Due to the distance from the site of this location there is unlikely to be any imminent threat of damage to protected species, habitats, surface/ground water and land.

2. Inputs resulting in deterioration of the quality of water abstracted, or intended to be used in the future, for human consumption such that additional treatment would be required to enable that use.

There are no groundwater abstraction points within 250m of the site. Given that the groundwater beneath the site has a aquifer designation of Secondary B and Secondary Undifferentiated it is considered that future abstractions would be very unlikely.

3. A breach of a statutory surface water Environment Quality Standard, either directly or via a groundwater pathway.

The guideline values for waters are very low and in reality are difficult to achieve. It is highly unlikely that impacted waters on the site would produce exceedances in the adjacent surface water bodies as given the concentrations encountered on site are moderate and inconsistent across the site. The impact of any contamination would be rendered insignificant given the massive dilution upon reaching the River Taff.

4. Input of a substance into groundwater resulting in a significant and sustained upward trend in concentration of contaminants (as defined in Article 2(3) of the Groundwater Daughter Directive (2006/118/EC)5).

6.3.2 Aquatic Environment (Continued)

The contaminants of concern within the water are copper and Chromium (dissolved). These have most likely leached out the made ground beneath the site relating to the Marl landfill. Envirocheck data states the last input at the landfill to be 31st December 1945. As activity relating to the source of the contaminated has ceased for a considerable amount of time, there should not be a sustained upward trend in the concentration of contamination in the groundwater.

For the above reasons it is considered that the site falls into the 'lesser level of pollution and that the risk to the aquatic environment from waters and soils under the site is low.

During the construction period, there is a risk to the environment/adjacent sites from de-watering, digging foundations, moving contaminated soil, drainage misconceptions, discharges to local surface waters or the ground, runoff from construction materials and/or exposed ground, wheel washings and oil or chemical spills.

The risk is considered to be negligible as any adverse effects will be easily preventable by due diligence to good construction practise and housekeeping in preventing surface runoff and the spillage of materials.

The basic measures that should be taken are as follows:

- Prepare a drainage plan and mark the manholes to prevent pollutants accidentally reaching the surface water sewers;
- Carry out any activities that could cause pollution in a designated, bunded area, away from rivers or foundation excavations. Where possible it should drain to the foul sewer;
- Use settlement ponds to remove silty water;
- Store all oils and chemicals in a fully bunded area to prevent leaks or spills;
- Get advice on whether you need an environmental permit and apply in good time

During the construction phase care should be taken to minimise the amount of additional water allowed to infiltrate into the river gravels. Any perched groundwater pumped from excavations should be disposed of in a suitably manor.

SECTION 7 Gas Monitoring

7.1 Installations

Four shallow gas monitoring wells were installed in WS01, WS02, WS03 and WS04. Three deep gas monitoring wells were installed in CP01, CP02 and CP03. The installation details are shown on the relevant log.

Six rounds of gas monitoring are to be carried out post investigation. The installations were tested for carbon dioxide, methane, oxygen and hydrogen sulphide using a Gas Analyser GA2000.

At the time of writing this report only two round of gas monitoring has been completed, an updated letter report will be issued after the six rounds of monitoring have been completed.

Methane was only detected in CP01, levels varied between 0.00% and 10.4% V/V . Carbon dioxide levels varied between 0.5% and 5.0% V/V. Oxygen concentrations varied between 14.2% and 20.7% V/V.

The gas flow rate from the boreholes was also assessed. A flow rate of 0.8 l/hr was detected in CP01, no other flow rate was detected.

Based on the detection limit of the gas analyzer, due to no recorded flow rate, a flow rate of 0.8 l/hr and the highest recorded methane concentration of 10.4%, a gas screening value of 0.083 l/hr is calculated, as follows:

$$(10.4/100) \times 0.8 = 0.083 \text{ l/hr}$$

When this result is compared with Table 8.5 of CIRIA report C665, the site is classified as 'Gas Characteristic Situation 2' (CS2), which require no gas protection measures. When all rounds of gas monitoring are completed, an updated recommendation will be provided with the updated results.

SECTION 8 Engineering Recommendation

8.1 Preparation of Site

Prior to works commencing a full asbestos survey of all buildings to be demolished should be carried out. All deleterious materials should then be removed to a licensed waste facility prior to demolition.

The houses should then be demolished including all foundations and removed from site.

All trees and scrub vegetation including all roots should be stripped and removed from beneath the proposed buildings and areas of hard standing. Any hard standings and buried obstructions should also be excavated and removed.

Contingencies should be made for the protection/diversion any underground/overhead services present beneath/above the site brought about as a result of the proposed works.

Allowances should also be made for the excavation of any soft spots/areas and their replacement with well compacted imported granular materials as previously described.

Any reduced levels should be brought up to the required levels with suitable inert mainly granular materials. Department of Transport (Dtp) type 2 sub base or similar should be used and should be compacted in layers to the requirements of the Specification for Highway works.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils and other materials destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified on the basis of their specific chemical properties. Terra Firma (Wales) Ltd offer this service if required.

8.2 Foundation and Floor Slab Solution

The proposed new development will comprise a mixture of 15, 12 and 9 story high rise flats, terrace houses and independent living.

Due to the anticipated high loads, piled foundations set within the underlying Mercia Mudstone bedrock are recommended. Given the density of the fluvio-glacial gravels, likelihood for buried obstructions and proximity to existing developments, roads and services continuous flight auger (CFA) piles are recommended.

Based on experience and back analysis in the Mercia Mudstone, Chandler and Davis (Ref. 1) have published bearing pressure at failures for test piles in weathered (Zone II), hard (Zone I) and weathered (Zone II/III).

The Mercia Mudstone encountered was predominantly Zone II/III and based upon the above research an Ultimate End Bearing Pressure of 3.0MN/m² has been taken.

For a 700mm diameter bored pile this would give an Ultimate End Bearing Resistance of 1160kN.

Chandler and Davis (Ref 1) have also published data for values of ultimate skin friction on pile shaft for Zone I to Zone III Mercia Mudstone. As the mudstone is predominately Zone II/III a figure of 225kN/m² has been taken for design purposes. Therefore, for a 26m long, 750mm diameter bored pile with an embedment length of 8m in the Mercia Mudstone An ultimate skin friction value of 3960kN has been calculated.

8.2 Foundation and Floor Slab Solution (Continued)

Combining skin friction and end bearing and allowing a factor of safety of 2.5 would give an allowable working loads for a 28m long 0.7m diameter pile of 2048kN/m².

The above estimated working loads do not take into account any beneficial skin friction resistance that may be gained from the superficial deposits.

It should also be noted that if a 'soft' band of mudstone is encountered at termination depth then the depth of pile should be increased until a competent layer is reached.

The above estimated working loads, type and length of piles are provided for guidance only and should be confirmed by a specialist piling contractor. It may also be prudent to drive a number of test piles at selected locations.

Due to the presence of the buried channel in the south of the site pile lengths quoted are likely to vary with the channel.

Due to the risk from buried structures encountered allowances should be made re-boring piles.

The floor slabs should be designed as suspended.

For insignificant structures not intended for human habitation lightweight raft type foundation floor slabs founded upon a minimum of 300mm of well compacted imported inert granular materials may be used. A maximum bearing pressure of 30kN/m² may be used for such structures.

If trees are to be incorporated within the proposed development foundations may need to be taken deeper within influencing distance of the tree root systems. The National House Building Council (NHBC) Chapter 4.2 gives guidelines as to the appropriate type of floor slab and void based on the type of tree, distance of the foundation from the tree and the plasticity index of the in-situ materials.

During the investigation three samples of the in-situ materials was taken and submitted for plasticity testing (**Annex E**). In line with the NHBC (Chapter 4.2), the modified plasticity index for the sample was calculated.

Table 8.1 Plasticity Test Results					
Sample	Depth (m)	Soil Type	Plasticity Index (%)	Modified Plasticity Index (%)	Volume Change Potential
CP01	4.80	Grey silty CLAY	29	29	Medium
CP02	4.50	Grey silty CLAY	29	29	Medium
CP03	4.00	Grey silty CLAY	28	28	Medium

Geotechnical testing revealed that samples tested had a medium volume change potential.

Due to a Medium volume change potential the minimum depth of foundations should be 0.90m below ground level.

All foundation formations should be inspected by a suitably qualified Engineer before being concreted.

8.2 Foundation and Floor Slab Solution (Continued)

Ref 1 CHANDLER, R.J. and DAVIS, A.G. *Further work on the engineering properties of Keuper Marl (Mercia Mudstone)* Construction Industry Research and Information Association, Research Report No 47, London 1973

8.3 Excavations and Formations

Shallow excavations will be possible with normal soil excavating machinery. However, allowances should be made for potential obstructions with the made ground. No obstructions were found during the investigation but made ground is usually variable in its make up

Shallow perched water and groundwater flows were not encountered. Any water inflows that are encountered, together with rainwater infiltration should be dealt with by conventional pumping techniques. However it should be noted that during times of heavy rainfall a higher water table will be encountered.

The sides of any excavations deeper than 1.20m, or shallower if unstable, should be supported by planking and strutting or other proprietary means.

The sub-formations/formations are likely to be susceptible to loosening, softening and deterioration by exposure to weather (rain, frost and drying conditions), the action of water (flood water or removal of groundwater) and site traffic.

Formations should never be left unprotected and continuously exposed to rain causing degradation, or left exposed/uncovered overnight, unless permitted by a qualified engineer.

Construction plant and other vehicular traffic should not be operated on unprotected formations.

As a minimum the formation/excavation surfaces must be protected by blinding concrete immediately after exposure.

Allowances should be made for the removal of soft spots/areas and their replacement with well compacted granular materials.

Allowances should also be made for special precautions to prevent formation deterioration in addition to the above.

8.4 Protection of Buried Concrete

In general levels of total sulphate percentage within the in-situ materials varied between 0.065 to 0.52% and the pH varied between 2.5 and 10.9.

When the results are compared with Table C2 of BRE Digest 1:2005, it indicates that buried concrete should most likely as a minimum conform to Class DS-2 AC-z.

ANNEX A
Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

240915480_1_1

Customer Reference:

16017 Channel View

National Grid Reference:

318010, 174030

Slice:

A

Site Area (Ha):

6.01

Search Buffer (m):

1000

Site Details:

, 125, Channel View Road

Cardiff

CF11 7HX

Client Details:

Mr J Alderman

Terra Firma (Wales) Ltd

5 Deryn Court

Wharfdale Road

Pentwyn

Cardiff

CF23 7HB

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		15	9	56
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 21				1
Integrated Pollution Controls	pg 21				6
Integrated Pollution Prevention And Control	pg 22				3
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 23		1		12
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 24		Yes		
Pollution Incidents to Controlled Waters	pg 25		1		4
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 25				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 26		1		1
Water Abstractions	pg 26			2	3 (*20)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 32	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 33	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 33	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 33	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 38	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 40	Yes	Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 41		1	17	23

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 46			2	1
Historical Landfill Sites	pg 46	1	4	7	9
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 50		1	1	
Licensed Waste Management Facilities (Locations)	pg 51			2	10
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 53		3	1	1
Potentially Infilled Land (Water)	pg 54	1	10	11	73
Registered Landfill Sites	pg 59		2	6	1
Registered Waste Transfer Sites	pg 62		1	4	6
Registered Waste Treatment or Disposal Sites	pg 66		1	2	1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 68			1	1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 68				1
Planning Hazardous Substance Consents	pg 68			4	3
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 70	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 70	Yes			
BGS Recorded Mineral Sites	pg 70			1	1
BGS Urban Soil Chemistry	pg 70		Yes		Yes
BGS Urban Soil Chemistry Averages	pg 72	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 72	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 72	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 72	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 73	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 74		5	10	159
Fuel Station Entries	pg 88			1	4
Points of Interest - Commercial Services	pg 89		4	5	43
Points of Interest - Education and Health	pg 93				1
Points of Interest - Manufacturing and Production	pg 93			8	54
Points of Interest - Public Infrastructure	pg 98		1	5	29
Points of Interest - Recreational and Environmental	pg 101		5		6
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 103		1	1	
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	0	1	318100 174028
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	0	1	318050 174150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (NE)	0	1	318014 174028
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	8	1	318100 174150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	66	1	318100 173800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	216	1	318100 173650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	252	1	317650 174000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	266	1	318100 173600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	273	1	317600 174028
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	310	1	318200 174500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	335	1	317650 173700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	342	1	318400 174350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	360	1	318000 173500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	410	1	318014 173450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	432	1	317600 173600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	473	1	317550 173600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	488	1	317400 174000
1	Discharge Consents Operator: Technical Director Property Type: Construction & Repair Of Buildings Location: The Sandwharf Jim Driscoll Way, Grangetown, Cardiff Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0323201 Permit Version: 1 Effective Date: 25th April 2002 Issued Date: 25th April 2002 Revocation Date: 10th February 2005 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The River Taff Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	48	2	318150 174140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Barratt South Wales Ltd Property Type: General Construction Work Location: The Sandwharf Jim Driscoll Way, Grangetown, Cardiff Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0313001 Permit Version: 1 Effective Date: 6th December 2001 Issued Date: 6th December 2001 Revocation Date: 2nd May 2002 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: River Taff Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	59	2	318150 174200
2	Discharge Consents Operator: Barratt South Wales Ltd Property Type: Construction & Repair Of Buildings Location: The Sandwharf Jim Driscoll Way, Grangetown, Cardiff Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0313001 Permit Version: 2 Effective Date: 3rd May 2002 Issued Date: 2nd May 2002 Revocation Date: 4th October 2006 Discharge Type: Trade Discharges - Site Drainage Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: River Taff Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	94	2	318180 174230
3	Discharge Consents Operator: Bass Taverns Plc Property Type: Public Houses & Bars Location: The Red House Ferry Road Grangetown, Ferry Road Grangetown Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Af4019601 Permit Version: 1 Effective Date: 28th September 1976 Issued Date: 28th September 1976 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: River Taff Status: Effective Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	77	2	317894 173802
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Cardiff Grangetown The Marl Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Af3018201 Permit Version: 1 Effective Date: 6th April 1970 Issued Date: 6th April 1970 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Taff Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	100	2	318160 174280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Cardiff Grangetown The Marl Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AF3018201 Permit Version: 1 Effective Date: 6th April 1970 Issued Date: 6th April 1970 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Taff Status: Surrendered Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	100	2	318160 174280
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Grangetown Sps, The Marl Playing Fields, Jim Driscoll Way, Grangetown, Cardiff, Cf11 7hb Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0028601 Permit Version: 5 Effective Date: 17th December 2019 Issued Date: 17th December 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	108	2	318170 174280
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Grangetown Sps, The Marl Playing Fields, Jim Driscoll Way, Grangetown, Cardiff, Cf11 7hb Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0028601 Permit Version: 5 Effective Date: 17th December 2019 Issued Date: 17th December 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	108	2	318170 174280
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Sps At The Marl Playing Fields Gran, Grangetown, Cardiff, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0028601 Permit Version: 4 Effective Date: 1st October 1997 Issued Date: 12th August 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	108	2	318170 174280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Sps At The Marl Playing Fields Gran, Grangetown, Cardiff, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0028601 Permit Version: 4 Effective Date: 1st October 1997 Issued Date: 12th August 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	108	2	318170 174280
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Sps At The Marl Playing Fields Gran, Grangetown, Cardiff, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0028601 Permit Version: 3 Effective Date: 1st April 1997 Issued Date: 9th October 1995 Revocation Date: 30th September 1997 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Cardiff Bay Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	108	2	318170 174280
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Sps At The Marl Playing Fields Gran, Grangetown, Cardiff, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0028601 Permit Version: 2 Effective Date: 13th January 1993 Issued Date: 13th October 1992 Revocation Date: 31st March 1997 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Cardiff Bay Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	115	2	318180 174280
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Sps At The Marl Playing Fields Gran, Grangetown, Cardiff, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0028601 Permit Version: 1 Effective Date: 20th November 1987 Issued Date: 20th November 1987 Revocation Date: 12th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Cardiff Bay Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	115	2	318180 174280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Evans H M Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0214301 Permit Version: 2 Effective Date: 17th May 1990 Issued Date: 17th May 1990 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	139	2	318190 173750
5	Discharge Consents Operator: Evans H M Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0214301 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 16th May 1990 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	139	2	318190 173750
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Amherst Street/Ferry Sso Cardiff, Amherst Street/Ferry, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0087101 Permit Version: 2 Effective Date: 31st March 2006 Issued Date: 18th March 2005 Revocation Date: 31st December 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Taff Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18SW (N)	268	2	317960 174450
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Amherst Street/Ferry Sso Cardiff, Amherst Street/Ferry, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0087101 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2006 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18SW (N)	268	2	317960 174450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: The Hamadryad Outfall Clarence Emba, Clarence Embankment Cardiff Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0028701 Permit Version: 2 Effective Date: 13th January 1993 Issued Date: 13th October 1992 Revocation Date: 17th October 1996 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	343	2	318380 174390
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: The Hamadryad Outfall Clarence Emba, Clarence Embankment Cardiff Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0028701 Permit Version: 1 Effective Date: 20th November 1987 Issued Date: 20th November 1987 Revocation Date: 12th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	343	2	318380 174390
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Harrowby Street Ps, Butetown, Cardiff, Cf10 5gb Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0185101 Permit Version: 3 Effective Date: 17th December 2019 Issued Date: 17th December 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: River Taff Estuary Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	347	2	318424 174298
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Harrowby Street Ps, Butetown, Cardiff, Cf10 5gb Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0185101 Permit Version: 3 Effective Date: 17th December 2019 Issued Date: 17th December 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: River Taff Estuary Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	347	2	318424 174298

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Harrowby St Sso Butetown Cardiff, Butetown, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0185101 Permit Version: 2 Effective Date: 2nd October 1991 Issued Date: 2nd October 1991 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Taff Estuary Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	347	2	318424 174298
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Harrowby St Sso Butetown Cardiff, Butetown, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AN0185101 Permit Version: 2 Effective Date: 2nd October 1991 Issued Date: 2nd October 1991 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Taff Estuary Status: Effective Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	347	2	318424 174298
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Harrowby St Sso Butetown Cardiff, Butetown, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0185101 Permit Version: 1 Effective Date: 20th September 1990 Issued Date: 20th September 1990 Revocation Date: 1st October 1991 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	482	2	318560 174310
10	Discharge Consents Operator: Bp Oil Ltd Property Type: Undefined Or Other Location: Cardiff - Ferry Road Premises Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0001501 Permit Version: 1 Effective Date: 20th November 1984 Issued Date: 20th November 1984 Revocation Date: 14th August 1985 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	504	2	318500 174500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Contracts Manager Property Type: Undefined Or Other Location: Prospect Place Land Reclamation, Propsect Place, Ferry Road, Cardiff Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0316501 Permit Version: 1 Effective Date: 21st December 2001 Issued Date: 21st December 2001 Revocation Date: 30th April 2004 Discharge Type: Trade Effluent Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Impoundment Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	539	2	318300 173360
12	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Ferry Road Ps Ferry Road Grangetown, Ferry Road, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0272601 Permit Version: 1 Effective Date: 1st October 1997 Issued Date: 13th June 1997 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A8SE (S)	577	2	318090 173290
12	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Ferry Road Ps Ferry Road Grangetown, Ferry Road, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AN0272601 Permit Version: 1 Effective Date: 1st October 1997 Issued Date: 13th June 1997 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A8SE (S)	577	2	318090 173290
12	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Ferry Road Ps Ferry Road Grangetown, Ferry Road, Cardiff Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0248701 Permit Version: 1 Effective Date: 15th February 1995 Issued Date: 15th February 1995 Revocation Date: 31st December 1997 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	577	2	318090 173290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: Cardiff County Council Property Type: Sewerage Network - Pumping Station - Water Company Location: Ferry Road Ps Ferry Road Grangetown, Ferry Road, Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: AN0049304 Permit Version: 2 Effective Date: 20th February 1993 Issued Date: 20th November 1992 Revocation Date: 20th September 2002 Discharge Type: Waste Site - Unspecified Discharge: Not Supplied Environment: Receiving Water: River Taff Estuary Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8SE (S)	577	2	318090 173290
12	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Unspecified Tip Location: Cardiff Ferry Road Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0046701 Permit Version: 1 Effective Date: 27th November 1987 Issued Date: 27th November 1987 Revocation Date: 8th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8SE (S)	587	2	318100 173280
12	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Unspecified Tip Location: Ferry Rd Landfill Site Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0049301 Permit Version: 1 Effective Date: 14th October 1987 Issued Date: 14th October 1987 Revocation Date: 19th February 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SE (S)	616	2	318120 173250
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: South Butetown Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0033801 Permit Version: 1 Effective Date: 20th November 1987 Issued Date: 20th November 1987 Revocation Date: 3rd September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14NE (E)	586	2	318670 174290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Glamorgan Canal Cardiff Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0046301 Permit Version: 1 Effective Date: 27th November 1987 Issued Date: 27th November 1987 Revocation Date: 3rd September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14NE (E)	592	2	318680 174280
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Central Development Area (Phas Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Af4004501 Permit Version: 1 Effective Date: 2nd July 1973 Issued Date: 2nd July 1973 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: River Taff Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NE (E)	598	2	318680 174300
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Central Development Area (Phas Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AF4004501 Permit Version: 1 Effective Date: 2nd July 1973 Issued Date: 2nd July 1973 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: River Taff Status: Effective Positional Accuracy: Located by supplier to within 100m	A14NE (E)	598	2	318680 174300
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Windsor Esplanade Outfall Cardiff, Cardiff Cbc, Wales Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0048001 Permit Version: 2 Effective Date: 13th January 1993 Issued Date: 13th October 1992 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NE (E)	602	2	318710 174180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Windsor Esplanade Outfall Cardiff, Cardiff Cbc, Wales Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AN0048001 Permit Version: 2 Effective Date: 13th January 1993 Issued Date: 13th October 1992 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 100m	A14NE (E)	602	2	318710 174180
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Windsor Esplanade Outfall Cardiff, Cardiff Cbc, Wales Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0048001 Permit Version: 1 Effective Date: 27th November 1987 Issued Date: 27th November 1987 Revocation Date: 12th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Cardiff Bay Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A14NE (E)	602	2	318710 174180
15	Discharge Consents Operator: Mr P Thompson Property Type: Sewerage Network - Pumping Station - Water Company Location: Ferry Rd Foul/Leachate Ps 'A' Ferry, Ferry Road, Grangetown, Cardiff, Cf11 0J Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0274001 Permit Version: 1 Effective Date: 1st October 1997 Issued Date: 30th July 1997 Revocation Date: 6th July 2006 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Cardiff Bay Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	611	2	317980 173250
16	Discharge Consents Operator: Whitchurch Fencing Co Ltd Property Type: Sewage Disposal Works - Other Location: Ferry Road Grangetown Cardiff, Grangetown, Wales Authority: Natural Resources Wales Catchment Area: Not Given Reference: AG0008601 Permit Version: 2 Effective Date: 15th December 1992 Issued Date: 15th December 1992 Revocation Date: 8th October 2013 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Taff Estuary Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A8SE (S)	670	2	318180 173200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Midlands Regional Estates Manager Property Type: Production & Distribution Of Electricity Location: Transco Site Ferry Road Grangetown, Laaice Property Holdings, Transco Site, Ferry Road Grangetown, Cardiff, Cf11 0xr Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0324501 Permit Version: 1 Effective Date: 11th September 2002 Issued Date: 11th September 2002 Revocation Date: 10th December 2002 Discharge Type: Trade Discharges - Site Drainage (Contam Surface Water, Not Tips) Discharge: Freshwater Stream/River Environment: Receiving Water: The River Ely Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SW (W)	706	2	317218 173831
17	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Unspecified Tip Location: Ferry Rd Landfill Site Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0049302 Permit Version: 1 Effective Date: 14th October 1987 Issued Date: 14th October 1987 Revocation Date: 19th February 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	722	2	317200 173840
18	Discharge Consents Operator: Cardiff County Council Property Type: Unspecified Tip Location: Ferry Rd Landfill Site Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0049301 Permit Version: 2 Effective Date: 20th February 1993 Issued Date: 20th November 1992 Revocation Date: 20th September 2002 Discharge Type: Waste Site - Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Estuary Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	781	2	317200 173620
19	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0144301 Permit Version: 2 Effective Date: 11th August 1989 Issued Date: 11th August 1989 Revocation Date: 3rd April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ely Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	792	2	317300 173400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0144301 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 10th August 1989 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ely Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	792	2	317300 173400
19	Discharge Consents Operator: Cardiff County Council Property Type: Sewerage Network - Pumping Station - Water Company Location: Ferry Rd Foul/Leachate Ps 'C' Ferry, Ferry Road Grangetown Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: AN0274003 Permit Version: 1 Effective Date: 1st October 1997 Issued Date: 30th July 1997 Revocation Date: 6th July 2006 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Cardiff Bay Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	798	2	317300 173390
20	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Taff Embankment Cardiff Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0046601 Permit Version: 1 Effective Date: 27th November 1987 Issued Date: 27th November 1987 Revocation Date: 3rd September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	792	2	318440 174920
20	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Stations Location: Curran Sps, Opp 134, Overstone Court, Dumballs Road Ind. Est., Butetown, Cardiff, Cf10 5nu Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0249801 Permit Version: 3 Effective Date: 17th December 2019 Issued Date: 17th December 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	819	2	318418 174961

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Curran Sps, Opp 134, Overstone Court, Dumballs Road Ind. Est., Butetown, Cardiff, Cf10 5nu Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0249801 Permit Version: 3 Effective Date: 17th December 2019 Issued Date: 17th December 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	819	2	318418 174961
20	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Curran Ps Dumballs Rd Ind Est, Butetown, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0249801 Permit Version: 2 Effective Date: 1st January 1998 Issued Date: 9th September 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	824	2	318430 174960
20	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Curran Ps Dumballs Rd Ind Est, Butetown, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0249801 Permit Version: 2 Effective Date: 1st January 1998 Issued Date: 9th September 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Cardiff Bay Status: Effective Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	824	2	318430 174960
20	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Curran Ps Dumballs Rd Ind Est, Butetown, Cardiff Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0249801 Permit Version: 1 Effective Date: 31st July 1996 Issued Date: 20th April 1995 Revocation Date: 31st December 1997 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Not Supplied Environment: Receiving Water: Cardiff Bay Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	824	2	318430 174960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Penarth Moors (West) Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0144304 Permit Version: 1 Effective Date: 11th August 1989 Issued Date: 11th August 1989 Revocation Date: 3rd April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ely Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	802	2	317520 173180
21	Discharge Consents Operator: Cardiff City Council Property Type: Unspecified Tip Location: Ferry Road Landfill Site Ferry Road, Ferry Road Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0049305 Permit Version: 1 Effective Date: 14th October 1987 Issued Date: 14th October 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ely Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	836	2	317520 173140
22	Discharge Consents Operator: Cardiff County Council Property Type: Unspecified Tip Location: Ferry Rd Landfill Site Authority: Natural Resources Wales Catchment Area: River Ely Reference: AN0049302 Permit Version: 2 Effective Date: 20th February 1993 Issued Date: 20th November 1992 Revocation Date: 20th September 2002 Discharge Type: Waste Site - Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Estuary Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	823	2	317220 173470
23	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Sewerage Network - Pumping Station - Water Company Location: Ferry Road Ps Ferry Road Grangetown, Ferry Road, Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0049304 Permit Version: 1 Effective Date: 14th October 1987 Issued Date: 14th October 1987 Revocation Date: 19th February 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Taff Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	839	2	317380 173240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0144302 Permit Version: 2 Effective Date: 11th August 1989 Issued Date: 11th August 1989 Revocation Date: 3rd April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Landlocked Pond Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8SW (S)	856	2	317670 173050
24	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0144302 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 10th August 1989 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Landlocked Pond Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (S)	856	2	317670 173050
24	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0144303 Permit Version: 2 Effective Date: 11th August 1989 Issued Date: 11th August 1989 Revocation Date: 3rd April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Landlocked Pond Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8SW (S)	865	2	317670 173040
24	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0144303 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 10th August 1989 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Landlocked Pond Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (S)	865	2	317670 173040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Discharge Consents Operator: Cardiff County Council Property Type: Unspecified Tip Location: Ferry Rd Landfill Site Authority: Natural Resources Wales Catchment Area: River Ely Reference: AN0049303 Permit Version: 2 Effective Date: 20th February 1993 Issued Date: 20th November 1992 Revocation Date: 20th September 2002 Discharge Type: Waste Site - Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Estuary Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	884	2	317510 173090
25	Discharge Consents Operator: Cardiff County Council Property Type: Sewerage Network - Pumping Station - Water Company Location: Ferry Rd Foul/Leachate Ps 'B' Ferry, Ferry Road Grangetown Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: AN0274002 Permit Version: 1 Effective Date: 1st October 1997 Issued Date: 30th July 1997 Revocation Date: 27th September 2002 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Cardiff Bay Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	897	2	317520 173070
25	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Unspecified Tip Location: Ferry Rd Landfill Site Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0049303 Permit Version: 1 Effective Date: 14th October 1987 Issued Date: 14th October 1987 Revocation Date: 19th February 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	898	2	317500 173080
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Penarth Rd Cso Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0047801 Permit Version: 4 Effective Date: 31st March 2007 Issued Date: 24th March 2005 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: River Ely Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	890	2	317110 173550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Penarth Rd Cso Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0047801 Permit Version: 3 Effective Date: 30th November 1997 Issued Date: 8th April 1997 Revocation Date: 30th March 2007 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	890	2	317110 173550
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Penarth Rd Cso Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: AN0047801 Permit Version: 2 Effective Date: 22nd March 1994 Issued Date: 22nd December 1993 Revocation Date: 29th November 1997 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Not Supplied Environment: Receiving Water: River Ely Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	890	2	317110 173550
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Penarth Rd Cso Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0047801 Permit Version: 1 Effective Date: 27th November 1987 Issued Date: 27th November 1987 Revocation Date: 21st March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Ely Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	890	2	317110 173550
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Stations Location: Penarth Llandough Moors Cardiff Cso, Cardiff, Adj Unit B6, West Point Ind Est, Penarth Road, Cf11 8jq Authority: Natural Resources Wales Catchment Area: CARDIFF BAY Reference: An0047801 Permit Version: 6 Effective Date: 24th October 2019 Issued Date: 24th October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ely Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	909	2	317098 173528

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penarth Llandough Moors Cardiff Cso, Cardiff, Adj Unit B6, West Point Ind Est, Penarth Road, Cf11 8jq Authority: Natural Resources Wales Catchment Area: CARDIFF BAY Reference: An0047801 Permit Version: 6 Effective Date: 24th October 2019 Issued Date: 24th October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ely Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	909	2	317098 173528
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penarth Llandough Moors Cardiff, Penarth Llandough Moors Ps, Penarth Road, Cardiff West Authority: Natural Resources Wales Catchment Area: CARDIFF BAY Reference: An0047801 Permit Version: 5 Effective Date: 31st March 2007 Issued Date: 29th March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ely Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	909	2	317098 173528
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penarth Llandough Moors Cardiff, Penarth Llandough Moors Ps, Penarth Road, Cardiff West Authority: Natural Resources Wales Catchment Area: CARDIFF BAY Reference: An0047801 Permit Version: 5 Effective Date: 31st March 2007 Issued Date: 29th March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ely Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	909	2	317098 173528
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penarth Llandough Moors Cardiff, Penarth Llandough Moors Ps, Penarth Road, Cardiff West Authority: Natural Resources Wales Catchment Area: CARDIFF BAY Reference: An0047801 Permit Version: 5 Effective Date: 31st March 2007 Issued Date: 29th March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ely Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	909	2	317098 173528

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penarth Llandough Moors Cardiff, Penarth Llandough Moors Ps, Penarth Road, Cardiff West Authority: Natural Resources Wales Catchment Area: CARDIFF BAY Reference: An0047801 Permit Version: 5 Effective Date: 31st March 2007 Issued Date: 29th March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ely Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	909	2	317098 173528
27	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cardiff Adj Dumballs Lane Currans Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0028501 Permit Version: 2 Effective Date: 13th January 1993 Issued Date: 13th October 1992 Revocation Date: 31st March 2004 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	933	2	318600 174990
27	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cardiff Adj Dumballs Lane Currans Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0028501 Permit Version: 1 Effective Date: 20th November 1987 Issued Date: 20th November 1987 Revocation Date: 12th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	933	2	318600 174990
28	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Penarth Road Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0047901 Permit Version: 1 Effective Date: 27th November 1987 Issued Date: 27th November 1987 Revocation Date: 3rd September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ely Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A11SE (W)	978	2	316920 173900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Discharge Consents Operator: Esso Petroleum Co Ltd Property Type: Support Services - Sea Transport Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0004501 Permit Version: 2 Effective Date: 27th October 1987 Issued Date: 27th October 1987 Revocation Date: 4th November 1987 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A3NE (S)	984	2	318300 172900
29	Discharge Consents Operator: Esso Petroleum Co Ltd Property Type: Support Services - Sea Transport Location: Not Supplied Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0004501 Permit Version: 1 Effective Date: 19th June 1985 Issued Date: 19th June 1985 Revocation Date: 26th October 1987 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Estuary Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A3NE (S)	984	2	318300 172900
30	Discharge Consents Operator: Cardiff Bay Development Corporation Property Type: Undefined Or Other Location: Consent Point B Adj Penarth Road Ca, Adj Penarth Road Cardiff Authority: Natural Resources Wales Catchment Area: River Ely Reference: An0133002 Permit Version: 1 Effective Date: 24th February 1989 Issued Date: 24th February 1989 Revocation Date: 3rd April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Ely Estuary Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	1000	2	316980 173580
31	Enforcement and Prohibition Notices Location: Penarth Road, CARDIFF, South Glamorgan, CF11 8UL Permit Reference: SM158/99KC Enforcement Date: 3rd June 1999 Details: EA Data 16/06/1999, Breaching conditions of their Integrated Pollution Control (IPC) authorisation, following an escape of a quantity of cadmium plating solution in March. Positional Accuracy: Manually positioned to the road within the address or location	A17NW (NW)	855	3	317283 174742
32	Integrated Pollution Controls Name: Poeton (Cardiff) Ltd Location: Penarth Road, CARDIFF, South Glamorgan, CF1 7UL Authority: Environment Agency, Welsh Region Permit Reference: BD7375 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (H) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A17NE (NW)	819	3	317365 174767
32	Integrated Pollution Controls Name: Poeton (Cardiff) Ltd Location: Penarth Road, CARDIFF, South Glamorgan, CF1 7UL Authority: Environment Agency, Welsh Region Permit Reference: AW9854 Dated: 30th October 1996 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (H) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A17NE (NW)	819	3	317365 174767

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Integrated Pollution Controls Name: Poeton (Cardiff) Ltd Location: Penarth Road, CARDIFF, South Glamorgan, CF1 7UL Authority: Environment Agency, Welsh Region Permit Reference: BF5802 Dated: 14th May 1999 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (H) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A17NE (NW)	823	3	317365 174772
32	Integrated Pollution Controls Name: Poeton (Cardiff) Ltd Location: Penarth Road, CARDIFF, South Glamorgan, CF1 7UL Authority: Environment Agency, Welsh Region Permit Reference: AO0890 Dated: 28th November 1994 Process Type: IPC new application Description: 4.5 A (H) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A17NE (NW)	823	3	317360 174767
32	Integrated Pollution Controls Name: Poeton (Cardiff) Ltd Location: Penarth Road, Cardiff, South Glamorgan, CF11 8UL Authority: Environment Agency, Welsh Region Permit Reference: Bs5762 Dated: 20th August 2002 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (H) Inorganic Chemical processes within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A17NE (NW)	827	3	317360 174772
32	Integrated Pollution Controls Name: A T Poeton (Cardiff) Ltd Location: Penarth Road, CARDIFF, South Glamorgan, CF1 7UL Authority: Environment Agency, Welsh Region Permit Reference: AM0082 Dated: 31st January 1994 Process Type: Application since found to be exempt from IPC Description: Not Given Status: Application since found to be exempt from IPC Positional Accuracy: Unknown	A17NE (NW)	827	3	317360 174772
33	Integrated Pollution Prevention And Control Name: Poeton Cardiff Location: Poeton (Cardiff) Ltd, 283 Penarth Road, Cardiff, Cardiff, CF11 8UL Authority: Natural Resources Wales Permit Reference: Bp1772iz Original Permit Ref: Not Supplied Effective Date: 7th January 2016 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 2.3 A(1) (A) Activity Description: Not Supplied Primary Activity: Y	A17NE (NW)	832	2	317357 174777
34	Integrated Pollution Prevention And Control Name: Bio Grade Ltd Location: Bio Grade Ltd - Sr2009 No3, Unit 8, Curran Road,,, CARDIFF, South Glamorgan, CF10 5DF Authority: Environment Agency, Welsh Region Permit Reference: SP3130FT Original Permit Ref: Sp3130ft Effective Date: Not Supplied Status: Application refused Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (II) Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Primary Activity: Y	A23SE (N)	928	3	318289 175117

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Integrated Pollution Prevention And Control Name: Celsa Manufacturing Uk Ltd Location: Tremorfa Steel Works, Po Box 37, Tremorfa Works, Cardiff, CF2 2YX Authority: Natural Resources Wales Permit Reference: BI9372iu Original Permit Ref: BI9372iu Effective Date: 7th January 2003 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: Y	A17NW (NW)	942	2	317180 174762
36	Local Authority Pollution Prevention and Controls Name: Asda Stores Ltd Location: Cardiff Bay Retail Park, Ferry Road, Grangetown, CARDIFF, South Glamorgan, CF11 0JR Authority: Cardiff Council, Pollution Control Division Permit Reference: Ppc/65/1.4 Dated: 23rd December 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A8NW (SW)	248	4	317782 173673
37	Local Authority Pollution Prevention and Controls Name: Wm Morrison Supermarkets Location: International Drive, International Sports Village, Ferry Road, Grangetown, Cardiff, Cf11 0jp Authority: Cardiff Council, Pollution Control Division Permit Reference: PPC/130/1.2 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8SW (S)	563	4	317953 173297
37	Local Authority Pollution Prevention and Controls Name: Wm Morrison Supermarkets Location: International Drive, International Sports Village, Ferry Road, Grangetown, Cardiff, Cf11 0jp Authority: Cardiff Council, Pollution Control Division Permit Reference: PPC/142/7 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8SW (S)	563	4	317953 173297
38	Local Authority Pollution Prevention and Controls Name: Cardiff Bay Service StationElf Location: 235 Corporation Road, Grangetown, CARDIFF, South Glamorgan, CF11 7AS Authority: Cardiff Council, Pollution Control Division Permit Reference: PPC/95/1.2 Dated: 12th January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A19NW (NE)	633	4	318464 174720
39	Local Authority Pollution Prevention and Controls Name: Renault Cardiff Location: 295 Penarth Road, CARDIFF, South Glamorgan, CF11 8UU Authority: Cardiff Council, Pollution Control Division Permit Reference: Ppc/32/6.4 Dated: 29th October 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Permitted Positional Accuracy: Automatically positioned to the address	A17SW (NW)	749	4	317196 174445
40	Local Authority Pollution Prevention and Controls Name: Caroden Bathrooms Ltd Location: PO Box 23, Hurman Street, The Docks, CARDIFF, South Glamorgan, CF10 Authority: Cardiff Council, Pollution Control Division Permit Reference: Epa90/29/6.7 Dated: 28th July 1993 Process Type: Local Authority Air Pollution Control Description: PG6/33 Wood coating Status: Authorisation revoked Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	765	4	318705 174662

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	Local Authority Pollution Prevention and Controls Name: Caroden Bathrooms Ltd Location: PO Box 23, Hurman Street, The Docks, CARDIFF, South Glamorgan, CF10 Authority: Cardiff Council, Pollution Control Division Permit Reference: Epa90/28/6.7 Dated: 1st July 1993 Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorisation revoked Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	765	4	318705 174662
41	Local Authority Pollution Prevention and Controls Name: Fordthorne Location: Ford House, 281 Penarth Road, Cardiff, South Glamorgan, CF11 8YZ Authority: Cardiff Council, Pollution Control Division Permit Reference: PPC/103/1.2 Dated: 23rd June 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A17NE (NW)	792	4	317416 174772
42	Local Authority Pollution Prevention and Controls Name: Fordthorne Location: Ford House, 281 Penarth Road, CARDIFF, South Glamorgan, CF11 8YZ Authority: Cardiff Council, Pollution Control Division Permit Reference: Ppc/38/6.4 Dated: 12th May 1992 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Permitted Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	854	4	317356 174804
42	Local Authority Pollution Prevention and Controls Name: Fordthorne Location: Ford House, 281 Penarth Road, CARDIFF, South Glamorgan, CF11 8YZ Authority: Cardiff Council, Pollution Control Division Permit Reference: Ppc/38/6.5 Dated: 15th September 1993 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorised Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	868	4	317342 174811
43	Local Authority Pollution Prevention and Controls Name: Hartwell Plc Location: 13-15 Hadfield Road, CARDIFF, South Glamorgan, CF11 8AQ Authority: Cardiff Council, Pollution Control Division Permit Reference: Epa90/53/6.5 Dated: 8th August 1995 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorisation revoked Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	869	4	317138 174588
43	Local Authority Pollution Prevention and Controls Name: Scuffs Vehicle Refurbishment Location: Units 1 & 2 Hadfield Road, Leckwith Industrial Estate, CARDIFF, CF11 8AG Authority: Cardiff Council, Pollution Control Division Permit Reference: Epa90/117/6.5 Dated: 3rd December 2001 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	884	4	317126 174596
44	Local Authority Pollution Prevention and Controls Name: J R Freeman Location: 236 Penarth Road, CARDIFF, South Glamorgan, CF11 8JF Authority: Cardiff Council, Pollution Control Division Permit Reference: Ppc/44/6.9 Dated: 6th January 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A11NE (W)	965	4	316921 174284
	Nearest Surface Water Feature	A13SE (E)	13	-	318124 174029

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ferry Road, CARDIFF Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Management Incident Date: 21st March 1997 Incident Reference: 31915 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (S)	167	3	318100 173700
46	Pollution Incidents to Controlled Waters Property Type: Land Location: Red House Pub Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 3rd May 1995 Incident Reference: 23681 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	573	3	318200 173300
47	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Gasworks, GRANGETOWN Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 11th May 1992 Incident Reference: 3933 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	708	3	317200 173900
48	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Spur Road, COGAN Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 7th April 1996 Incident Reference: 27818 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	881	3	317500 173100
49	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Fiddes Wharehouse, Brindley Road, CARDIFF Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Accident Incident Date: 17th February 1997 Incident Reference: 31293 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	886	3	317000 173970
	River Quality Name: Not Supplied GQA Grade: Unclassified Tidal River Reach: Not Supplied Estimated Distance (km): Not Supplied Flow Rate: Not Supplied Flow Type: Not Supplied Year: 1995	A19SW (NE)	581	3	318553 174558

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 8th May 2008 Incident Reference: 585102 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A13NE (NE)	55	2	318147 174168
51	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 15th June 2012 Incident Reference: 1005293 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage Pollutant: Sewage Materials: Grey Water	A8SE (S)	569	2	318092 173298
52	Water Abstractions Operator: City Of Cardiff Council Licence Number: Wa/057/0025/013 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Schools and Colleges: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SE (N)	283	2	318104 174494
52	Water Abstractions Operator: City Of Cardiff Council Licence Number: Wa/057/0025/013 Permit Version: Not Supplied Location: Grangetown Nursery School, Corner Of Avondale Rd & Jim Drioscoll Way, Grangetown, Cardiff, Cf11 7dt Authority: Natural Resources Wales Abstraction: Schools and Colleges: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SE (N)	283	2	318104 174494
53	Water Abstractions Operator: Cardiff County Council Licence Number: 21/57/25/0077 Permit Version: 2 Location: Cardiff Bay At International Sports Village, Cardiff Authority: Environment Agency, Welsh Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: International Sports Village, Cardiff Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	637	3	318130 173230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	Water Abstractions Operator: Taylor Woodrow Construction Licence Number: 21/57/25/0077 Permit Version: 1 Location: Cardiff Bay At International Sports Village, Cardiff Authority: Environment Agency, Welsh Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: International Sports Village, Cardiff Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th October 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	637	3	318130 173230
54	Water Abstractions Operator: Taylor Woodrow Construction Licence Number: 21/57/31/0064 Permit Version: 1 Location: River Ely At Victoria Wharf, Cardiff Authority: Environment Agency, Welsh Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cardiff International Sports Village Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	888	3	317520 173080
	Water Abstractions Operator: Cardiff Harbour Authority Licence Number: 21/57/31/0065 Permit Version: 1 Location: Inland Water Known As River Ely In Cardiff Authority: Natural Resources Wales Abstraction: Sports Grounds/Facilities: Fish Pass/Canoe Pass Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th August 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	1100	2	317960 172760
	Water Abstractions Operator: Cardiff Harbour Authority Licence Number: 21/57/31/0065 Permit Version: 1 Location: Inland Water Known As River Ely In Cardiff Authority: Natural Resources Wales Abstraction: Sports Grounds/Facilities: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th August 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	1100	2	317960 172760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Cardiff Harbour Authority Licence Number: 21/57/31/0065 Permit Version: Not Supplied Location: Cardiff International White Water, 7 Pierhead View, Penarth, Vale Of Glamorgan, Cf64 1sn Authority: Natural Resources Wales Abstraction: Sports Grounds/Facilities: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	1131	2	317929 172729
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0029 Permit Version: 101 Location: Well At The Brewery (Point B) Authority: Natural Resources Wales Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th October 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1469	2	318140 175680
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0029 Permit Version: 100 Location: Well At The Brewery (Point B) Authority: Environment Agency, Welsh Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th April 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NE (N)	1469	3	318140 175680
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0029 Permit Version: Not Supplied Location: Abstraction From Wells At The Brewery Authority: Natural Resources Wales Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1469	2	318140 175680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0029 Permit Version: 101 Location: Well At The Brewery (Point A) Authority: Natural Resources Wales Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th October 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1510	2	318160 175720
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0029 Permit Version: 100 Location: Well At The Brewery (Point A) Authority: Environment Agency, Welsh Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th April 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NE (N)	1510	3	318160 175720
	Water Abstractions Operator: Initial Textiles Services Licence Number: 21/57/25/0067 Permit Version: 100 Location: Borehole At Initial Laundry Authority: Environment Agency, Welsh Region Abstraction: Laundry: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th August 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1625	3	317660 175780
	Water Abstractions Operator: Cardiff County Council Licence Number: 21/57/25/0076 Permit Version: 1 Location: River Taff At Wood Street (Millenium Plaza) Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Very Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pumping Station At Wood Street, Cardiff Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1738	3	317900 175940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Celsa Manufacturing (Uk) Ltd Licence Number: 21/57/25/0048 Permit Version: 102 Location: East Bute Dock Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 30th April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1741	2	319491 175241
	Water Abstractions Operator: Celsa Manufacturing (Uk) Ltd Licence Number: 21/57/25/0048 Permit Version: Not Supplied Location: Abstraction From East Bute Dock Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1741	2	319491 175241
	Water Abstractions Operator: Celsa Manufacturing (Uk) Ltd Licence Number: 21/57/25/0048 Permit Version: 101 Location: East Bute Dock Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th August 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1770	2	319520 175250
	Water Abstractions Operator: Allied Steel & Wire Plc Licence Number: 21/57/25/0048 Permit Version: 100 Location: East Bute Dock Authority: Environment Agency, Welsh Region Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: EAST BUTE DOCK Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd November 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1770	3	319520 175250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0028 Permit Version: 100 Location: Well At The Old Brewery (Point C) Authority: Environment Agency, Welsh Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1905	3	318340 176100
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0028 Permit Version: 100 Location: Well At The Old Brewery (Point A) Authority: Environment Agency, Welsh Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1928	3	318360 176120
	Water Abstractions Operator: S A Brain & Co Ltd Licence Number: 21/57/25/0028 Permit Version: 100 Location: Well At The Old Brewery (Point B) Authority: Environment Agency, Welsh Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1935	3	318340 176130
	Water Abstractions Operator: Welsh Rugby Union Licence Number: 21/57/25/0061 Permit Version: 100 Location: Borehole At Cardiff Arms Park (Point A) Authority: Environment Agency, Welsh Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1955	3	317920 176160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Cardiff Rugby Football Club Limited Licence Number: 21/57/25/0062 Permit Version: 100 Location: Borehole At Cardiff Athletic Club Authority: Environment Agency, Welsh Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1957	3	317959 176165
	Water Abstractions Operator: Welsh Rugby Union Licence Number: 21/57/25/0061 Permit Version: 100 Location: Borehole At Cardiff Arms Park (Point B) Authority: Environment Agency, Welsh Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1989	3	318140 176200
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13SE (W)	0	2	318000 174028
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13SE (NE)	0	2	318014 174028

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial: <90% Patchiness: >10m Superficial Thickness: Low Superficial Recharge:	A13SE (SW)	0	2	318000 174000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: >10m Superficial Thickness: No Data Superficial Recharge:	A13SE (S)	0	2	318014 174000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SE (NE)	0	2	318014 174028
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (NE)	0	2	318014 174028
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	0	2	318104 174099
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	0	2	318102 174104
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	318097 173874
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	318116 173932
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	318076 173993
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	0	2	318092 174092
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (E)	1	2	318116 174028
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	2	2	318120 173904

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	3	2	318116 173932
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	6	2	318106 174173
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	11	2	318104 174187
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	12	2	318106 174193
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	13	2	318104 174197
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	13	2	318106 174171
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	14	2	318104 174210
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	24	2	318124 173844
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	29	2	318125 173839
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	55	2	318132 173815
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	56	2	318148 174184
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	61	2	318135 173809
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	67	2	318136 173803
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	69	2	318136 173801
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	96	2	318074 174307
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	97	2	318144 173774

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	101	2	318146 173770
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	128	2	318152 173745
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	133	2	318156 173740
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	140	2	318156 173733
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	141	2	318107 173724
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	148	2	317726 174101
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	148	2	317726 174092
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	149	2	317736 174041
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	150	2	317726 174081
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	151	2	317722 174104
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	152	2	317731 174064
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	157	2	317716 174121
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (W)	158	2	317738 174028
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	161	2	317716 174080
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	164	2	317716 174071
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (W)	164	2	317730 174034

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	165	2	317724 174044
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	165	2	317726 174042
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	166	2	317706 174134
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	167	2	317716 174063
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	167	2	317716 174061
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	168	2	317706 174141
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	170	2	318164 173704
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	171	2	317706 174083
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A18SE (N)	177	2	318054 174386
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	178	2	317696 174091
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	179	2	317696 174084
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A18SE (N)	180	2	318054 174389
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	181	2	317696 174161
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	181	2	317694 174156
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	182	2	317692 174095
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	182	2	318298 174092

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	184	2	317823 174305
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	184	2	317688 174120
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A18SE (N)	185	2	318054 174395
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	186	2	317686 174122
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	186	2	317686 174111
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A18SE (N)	192	2	318049 174401
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	193	2	317754 174275
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	193	2	317686 174174
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	196	2	317686 174181
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	204	2	317825 174327
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	213	2	317757 174303
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	213	2	317678 174212
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	214	2	317773 174314
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A12NE (W)	218	2	317656 174151
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	218	2	317781 174323
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	220	2	317676 174221

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	220	2	317713 174274
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A12NE (W)	221	2	317654 174154
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	228	2	317702 174274
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A12NE (W)	231	2	317646 174171
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A12NE (NW)	231	2	317648 174180
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	234	2	317666 174234
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A18SE (N)	234	2	318084 174446
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	236	2	317670 174244
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	238	2	317666 174241
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	0	2	318094 174065
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	318116 173871
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	0	2	318075 174134
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	1	2	318116 173932
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	1	2	318117 173874
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (E)	1	2	318114 174009
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (E)	1	2	318116 174028

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	1	2	318116 173872
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	2	2	318114 174095
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	2	2	318120 173914
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	3	2	318114 174085
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	3	2	318116 173864
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	3	2	318116 173932
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	5	2	318116 174091
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	6	2	318116 174081
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	9	2	318116 174013
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	29	2	318125 173839
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	35	2	318128 173834
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	49	2	318135 174224
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	56	2	318148 174164
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	61	2	318135 173809
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	64	2	318144 174244
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	65	2	318145 174249

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	67	2	318136 173803
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	69	2	318136 173801
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	77	2	318140 173794
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	87	2	318144 174276
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	101	2	318146 173770
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	108	2	318148 173764
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	133	2	318156 173740
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	139	2	318156 173734
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	173	2	318166 173702
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	182	2	318298 174092
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NE (SE)	191	2	318172 173684
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NE (SE)	198	2	318174 173678
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NE (SE)	203	2	318176 173673
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NE (SE)	205	2	318176 173671
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NE (NE)	0	2	318094 174065
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NE (NE)	0	2	318075 174134
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13SE (E)	1	2	318114 174009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NE (NE)	2	2	318114 174095
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NE (E)	182	2	318298 174092
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A8NE (SE)	205	2	318176 173671
	Flood Water Storage Areas None				
	Flood Defences None				
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1549.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (E)	91	5	318206 174067
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 221.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	306	5	317603 173933
57	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 90.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	333	5	317613 173793
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	334	5	317563 173997
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NE (W)	369	5	317512 174045
60	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	372	5	317607 173704
61	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	372	5	317607 173704

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	374	5	317607 173698
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	378	5	317600 173703
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	378	5	317537 173907
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	380	5	317543 173859
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	390	5	317591 173694
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	399	5	317585 173687
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 205.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NE (W)	424	5	317454 174054
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	428	5	317477 173959
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	432	5	317520 173757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 315.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	453	5	317512 173724
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 227.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	475	5	317462 173791
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	509	5	317422 173813
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	537	5	317385 173859
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SW (NE)	559	5	318498 174590
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1543.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SW (NE)	566	5	318525 174571
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 253.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	600	5	317329 173810
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SW (W)	600	5	317319 173878
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 387.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NW (W)	607	5	317278 174246

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 265.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SW (W)	672	5	317255 173815
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 400.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Elŷi Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SW (W)	734	5	317189 173829
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Elŷi Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SW (W)	784	5	317121 173899
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	812	5	317225 173483
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1033.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	814	5	318826 173464
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 601.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	814	5	318783 173403
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 306.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Elŷi Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	831	5	317199 173495
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Elŷi Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	831	5	317199 173495
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 236.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Elŷi Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SW (W)	853	5	317047 173908

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	866	5	317132 173560
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 465.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Elŷi Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	874	5	317331 173238
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 305.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	874	5	317331 173238
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 360.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Elŷi Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A11SE (W)	964	5	316981 173699
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A16SE (NW)	990	5	316967 174523
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 396.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A16SE (W)	991	5	316939 174456
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A11SE (W)	992	5	316940 173755

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	BGS Recorded Landfill Sites Site Name: British Gas Corp Location: Grangetown Works, CARDIFF, South Glamorgan Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Derived	A12NE (W)	343	-	317530 174107
97	BGS Recorded Landfill Sites Site Name: River Loops Location: Penarth Moors, Ferry Rd, CARDIFF, South Glamorgan Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Derived	A12SE (SW)	387	-	317550 173807
98	BGS Recorded Landfill Sites Site Name: Leckwith River Loop Location: Hadfield Rd, CARDIFF, South Glamorgan Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A16SE (W)	998	-	316931 174454
99	Historical Landfill Sites Licence Holder: Cardiff Corporation Location: Ferry Road, Cardiff Name: The Marl Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15183 First Input Date: 31st December 1936 Last Input Date: 31st December 1945 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0099 BGS Ref: Not Supplied Other Ref: Not Supplied	A13SE (NE)	0	2	318014 174028
100	Historical Landfill Sites Licence Holder: Not Supplied Location: Ferry Road Name: Northern Old Clay Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15186 First Input Date: 31st December 1920 Last Input Date: 31st December 1944 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0076 BGS Ref: Not Supplied Other Ref: Not Supplied	A13SW (W)	153	2	317751 173943
101	Historical Landfill Sites Licence Holder: Not Supplied Location: Grangetown Works, Cardiff, South Glamorgan Name: British Gas Corporation Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31200 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 2049 Other Ref: Not Supplied	A13SW (SW)	159	2	317758 173912

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	Historical Landfill Sites Licence Holder: Davies - Middleton Davies Limited Location: Butetown, Cardiff Name: Hamadryadd No.2 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15161 First Input Date: 30th March 1994 Last Input Date: 30th June 1996 Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0046 BGS Ref: Not Supplied Other Ref: SEA/WREG/01/HAM	A13NE (E)	169	2	318281 174105
103	Historical Landfill Sites Licence Holder: Not Supplied Location: Ferry Road Name: Southern Old Clay at Ferry Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15201 First Input Date: 31st December 1920 Last Input Date: 31st December 1944 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0096 BGS Ref: Not Supplied Other Ref: Not Supplied	A13SW (SW)	232	2	317753 173726
104	Historical Landfill Sites Licence Holder: Davies - Middleton Davies Limited Location: Ferry Road, Cardiff Name: Land at North of the Red House Public House Prospect Place Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15170 First Input Date: 31st January 1998 Last Input Date: 16th September 1999 Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0119 BGS Ref: Not Supplied Other Ref: SEW/216, 588	A8NW (S)	266	2	317978 173577
105	Historical Landfill Sites Licence Holder: Davies - Middleton Davies Limited Location: Butetown Link Landfill, South Of Hamadryad Hospital, Ferry Road Foreshore, Cardiff, S Glamorgan Name: Butetown Link Landfill South Of Hamadryad Hospital Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15160 First Input Date: 16th March 1992 Last Input Date: 31st December 1993 Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 30060 Regis Ref: WU1/L/DAV001 WRC Ref: 6815/0045 BGS Ref: Not Supplied Other Ref: SEA/WREG/01/HAMA, 92/01	A14NW (NE)	269	2	318359 174224

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	Historical Landfill Sites Licence Holder: Edmund Nuttall Limited Location: Butetown, Cardiff Name: Hamadryad Embankment Phase 1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15184 First Input Date: 6th February 1991 Last Input Date: 31st December 1991 Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0047 BGS Ref: Not Supplied Other Ref: 91/02	A14NW (NE)	273	2	318368 174222
107	Historical Landfill Sites Licence Holder: Cardiff Bay Development Corporation Location: Former Municipal Landfill Site, Ferry Road, Grangetown, Cardiff Name: Ferry Road No.2 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15158 First Input Date: 31st December 1970 Last Input Date: 31st December 1977 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0028 BGS Ref: Not Supplied Other Ref: 96/07	A12SE (W)	290	2	317624 173913
108	Historical Landfill Sites Licence Holder: Cardiff City Council Location: Penarth Moors, Ferry Road, Cardiff, South Glamorgan Name: River Loops Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15257 First Input Date: 18th September 1972 Last Input Date: 29th March 1994 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0027 BGS Ref: 2047 Other Ref: Not Supplied	A12SE (W)	294	2	317614 173932
109	Historical Landfill Sites Licence Holder: W T Davies Transport Limited Location: Cardiff Name: Avondale Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15235 First Input Date: 24th June 1981 Last Input Date: 31st December 1982 Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0004 BGS Ref: Not Supplied Other Ref: 2/81	A19SW (NE)	378	2	318352 174482
110	Historical Landfill Sites Licence Holder: Not Supplied Location: Ferry Road Name: Peninsula Clay Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15229 First Input Date: 31st December 1942 Last Input Date: 31st December 1948 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0080 BGS Ref: Not Supplied Other Ref: Not Supplied	A7NE (SW)	460	2	317586 173572

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	Historical Landfill Sites Licence Holder: British Gas Corporation Location: Ferry Road, Cardiff Name: Wales Gas Disposal Site Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15182 First Input Date: 31st December 1960 Last Input Date: 31st December 1985 Specified Waste: Deposited Waste included Inert Waste and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0113 BGS Ref: Not Supplied Other Ref: 5/77	A12SE (W)	522	2	317369 173988
112	Historical Landfill Sites Licence Holder: Ocean Developments Limited Location: Taff Island Landfill, Clarence Road Bridge, Butetown, Cardiff Name: Taffs Island Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15169 First Input Date: 30th June 1993 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0098 BGS Ref: Not Supplied Other Ref: SEA/WREG/01/OCEAN	A19SW (NE)	575	2	318549 174554
113	Historical Landfill Sites Licence Holder: Ocean Developments Limited Location: North of Clarence Road Bridge, Cardiff Name: Old River Bed Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15167 First Input Date: 24th August 1992 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 30064 Regis Ref: WU1/L/OCE001 WRC Ref: 6815/0118 BGS Ref: Not Supplied Other Ref: 92/15, SEA/WREG/01/OCEAN	A19SW (NE)	575	2	318549 174554
114	Historical Landfill Sites Licence Holder: Cardiff Corporation Location: Cardiff, South Glamorganshire Name: Glamorganshire Canal Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15236 First Input Date: 30th December 1931 Last Input Date: 31st December 1950 Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0038 BGS Ref: Not Supplied Other Ref: 6815/0039	A14NE (E)	599	2	318681 174300
115	Historical Landfill Sites Licence Holder: Not Supplied Location: Upper Grangetown Name: Upper Grangetown Brickworks Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15193 First Input Date: 31st December 1876 Last Input Date: 31st December 1890 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0112 BGS Ref: Not Supplied Other Ref: Not Supplied	A18NW (N)	620	2	317808 174769

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Historical Landfill Sites Licence Holder: Not Supplied Location: Cardiff Name: Timber Pond Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15244 First Input Date: 31st December 1936 Last Input Date: 31st December 1939 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0103 BGS Ref: Not Supplied Other Ref: Not Supplied	A23SE (N)	928	2	318281 175119
117	Historical Landfill Sites Licence Holder: W T Davies Transport Limited Location: Cardiff Name: Hadfield Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15265 First Input Date: 31st December 1986 Last Input Date: 31st December 1991 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0043 BGS Ref: Not Supplied Other Ref: 4/86	A17SW (NW)	976	2	317012 174584
118	Historical Landfill Sites Licence Holder: Not Supplied Location: Ferry Road Name: Tidal Harbour Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15185 First Input Date: 31st December 1963 Last Input Date: 31st December 1973 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0101 BGS Ref: Not Supplied Other Ref: Not Supplied	A3NE (S)	990	2	318118 172876
119	Historical Landfill Sites Licence Holder: Not Supplied Location: Hadfield Road, Cardiff, South Glamorgan Name: Leckwith River Loop, Hadfield Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15247 First Input Date: 31st December 1956 Last Input Date: 31st December 1974 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0061 BGS Ref: 2045 Other Ref: Not Supplied	A16SE (W)	995	2	316930 174441
120	Licensed Waste Management Facilities (Landfill Boundaries) Name: Butetown Link Landfill South Of Hamadryad Hospital Licence Number: 30060 Location: Butetown Link Landfill, South Of Hamadryad Hospital, Ferry Road Foreshore, Cardiff, S Glam, CF1 7DX Licence Holder: Davies Middleton Davies Ltd Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Inactive Issued: 16th March 1992 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13NE (E)	147	2	318261 174083

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Licensed Waste Management Facilities (Landfill Boundaries) Name: Ferry Road Landfill Licence Number: 30179 Location: Ferry Road, Grangetown, Cardiff, Glamorgan, CF11 0JL Licence Holder: The County Council Of The City & County Of Cardiff Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: Closure Issued: 6th February 1996 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A12SE (W)	308	2	317600 173941
122	Licensed Waste Management Facilities (Locations) Licence Number: 30060 Location: Butetown Link Landfill, Ferry Road, Grangetown, Cardiff, Glamorgan, CF11 7DX Operator Name: Davies Middleton Davies Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Licence Status: Surrendered Issued: 16th March 1992 Last Modified: 4th November 1994 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 13th September 2001 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	440	2	318529 174253
123	Licensed Waste Management Facilities (Locations) Licence Number: 30005 Location: Ferry Road, Grangetown, Cardiff, Glamorgan, CF11 0XR Operator Name: British Gas Plc Wales Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Transfer Stations Taking Non-biodegradable Wastes Licence Status: To PPC Issued: 25th November 1977 Last Modified: 29th December 1995 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 25th September 2000 IPPC Reference: BM4635IH Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	485	2	317443 174348
124	Licensed Waste Management Facilities (Locations) Licence Number: BP3795FD Location: Ferry Road Landfill, Ferry Road, Grangetown, Cardiff, Glamorgan, Cardiff, CF11 0JL Operator Name: The City of Cardiff Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Effective Issued: 6th February 1996 Last Modified: Not Supplied Expires: 5th May 2003 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	765	2	317268 173504
124	Licensed Waste Management Facilities (Locations) Licence Number: 30179 Location: Ferry Road, Grangetown, Cardiff, CF11 0JL Operator Name: The County Council Of The City & County Of Cardiff Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Closed Issued: 6th February 1996 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	765	2	317268 173504

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	Licensed Waste Management Facilities (Locations) Licence Number: GB3793HR Location: Stadium Close Waste Transfer Station, Stadium Close, Cardiff, Cardiff, CF11 8TS Operator Name: Reactive Integrated Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Asbestos Waste Transfer Station Licence Status: Effective Issued: 17th October 2007 Last Modified: Not Supplied Expires: 18th January 2016 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	802	2	317070 174132
125	Licensed Waste Management Facilities (Locations) Licence Number: 100145 Location: Unit 6, Stadium Close, Cardiff, CF11 8TS Operator Name: Reactive Integrated Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Asbestos Waste Transfer Station Licence Status: Transferred Issued: 17th October 2007 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	802	2	317070 174132
126	Licensed Waste Management Facilities (Locations) Licence Number: 30064 Location: Taff Island Landfill, Clarence Road Bridge, Butetown, Cardiff, Glamorgan, CF11 6JA Operator Name: Ocean Developments Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Licence Status: Surrendered Issued: 4th June 1995 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 24th December 1999 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	838	2	318609 174866
127	Licensed Waste Management Facilities (Locations) Licence Number: WP3495FF Location: Cardiff Arms Salvage, Cardiff, Glamorgan, Cardiff, CF10 5FX Operator Name: Michael Sven Cronk Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: End of Life Vehicles Licence Status: Effective Issued: 22nd August 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	880	2	318210 175083

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	Licensed Waste Management Facilities (Locations) Licence Number: 30365 Location: Cardiff Arms Salvage, 9 Curran Embankment , Cardiff, CF10 5FX Operator Name: Cronk Michael Sven Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: End of Life Vehicles Licence Status: Issued Issued: 22nd August 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	880	2	318210 175083
127	Licensed Waste Management Facilities (Locations) Licence Number: DB3697TH Location: S M H Products Ltd, Cardiff, Glamorgan, Cardiff, CF10 5DF Operator Name: S M H Products Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Asbestos Waste Transfer Station Licence Status: Surrendered Issued: 29th November 2013 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 15th September 2015 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	909	2	318221 175111
128	Licensed Waste Management Facilities (Locations) Licence Number: CP3899FG Location: Curran Embankment Transfer Station, Cardiff, Glamorgan, Cardiff, CF10 5FX Operator Name: Biffa Waste Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations Licence Status: Expired Issued: 27th March 1990 Last Modified: Not Supplied Expires: 25th May 2006 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	999	2	318285 175191
128	Licensed Waste Management Facilities (Locations) Licence Number: 30032 Location: Plot 3, Curran Embankment, Cardiff, Glamorgan, CF10 5FX Operator Name: Biffa Waste Management Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations Licence Status: To PPC Issued: 27th March 1990 Last Modified: 24th June 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: SP3031SJ Positional Accuracy: Located by supplier to within 10m	A23SE (N)	999	2	318285 175191
	Local Authority Landfill Coverage Name: Cardiff Council - Has no landfill data to supply		0	6	318014 174028
	Local Authority Landfill Coverage Name: Vale Of Glamorgan County Borough Council - Has supplied landfill data		732	7	317191 173833
129	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A13SW (SW)	140	-	317813 173806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A13SW (SW)	150	-	317758 173920
131	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A13SW (SW)	227	-	317757 173733
132	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A7NE (SW)	428	-	317610 173594
133	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SW (N)	570	-	317784 174706
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A13SE (NE)	0	-	318014 174028
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A13SW (W)	36	-	317885 173980
136	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A13NW (NW)	49	-	317857 174176
137	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13SE (S)	50	-	318009 173809
138	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A13NW (NW)	67	-	317928 174220
139	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NE (N)	121	-	318127 174325
140	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A13SE (S)	143	-	318027 173721
141	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A13NW (NW)	154	-	317810 174267
142	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A13NW (W)	189	-	317684 174109
143	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A12NE (W)	228	-	317650 174172
144	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A8NW (SW)	245	-	317832 173642
145	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A12NE (NW)	270	-	317634 174251
146	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12SE (W)	292	-	317615 173943
147	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18SE (N)	301	-	318071 174512
148	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12SE (W)	307	-	317605 173901
149	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1947	A8NE (S)	309	-	318027 173562

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8NW (SW)	324	-	317816 173563
151	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A8NW (S)	419	-	317974 173443
152	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18SE (N)	428	-	318103 174640
153	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A17SE (NW)	446	-	317582 174461
154	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A14NW (E)	462	-	318571 174163
155	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18SE (N)	479	-	318120 174690
156	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A12NE (W)	513	-	317363 174188
157	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8NW (SW)	518	-	317738 173385
158	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A8SW (S)	547	-	317960 173314
159	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A8SW (S)	551	-	317989 173311
160	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A12NW (W)	558	-	317316 174166
161	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A12NW (W)	559	-	317317 174059
162	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A12NW (W)	586	-	317288 174158
163	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A19SW (NE)	613	-	318581 174574
164	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18NW (N)	616	-	317970 174817
165	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	617	-	317592 173354
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A19NW (NE)	619	-	318420 174734
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18NW (N)	630	-	317965 174830
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A17SW (NW)	631	-	317310 174410
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A7NE (SW)	631	-	317358 173627
170	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12SW (W)	644	-	317286 173803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	650	-	317632 173291
172	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12NW (W)	655	-	317241 174298
173	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12SW (W)	661	-	317233 173956
174	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NE (SW)	678	-	317345 173545
175	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A7SE (SW)	683	-	317526 173320
176	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NE (SW)	685	-	317334 173550
177	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NW (SW)	691	-	317304 173602
178	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NE (SW)	694	-	317356 173493
179	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18NE (N)	705	-	318264 174894
180	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	711	-	317597 173240
181	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	714	-	317486 173313
182	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A19SE (NE)	717	-	318769 174436
183	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	721	-	317648 173204
184	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A17SE (NW)	724	-	317374 174648
185	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	742	-	317486 173276
186	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A17SW (NW)	745	-	317212 174468
187	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A7NE (SW)	750	-	317334 173425
188	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12NW (W)	751	-	317124 174060
189	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A17SE (NW)	758	-	317379 174698
190	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NW (SW)	758	-	317316 173436
191	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A7NE (SW)	759	-	317354 173383

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NW (SW)	761	-	317272 173504
193	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18NW (N)	766	-	317814 174928
194	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A17SW (NW)	775	-	317178 174469
195	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A7NW (SW)	779	-	317300 173422
196	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A7NW (SW)	782	-	317293 173427
197	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A14NE (E)	782	-	318888 174212
198	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NW (SW)	783	-	317296 173421
199	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A7SE (SW)	794	-	317332 173356
200	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A17SW (NW)	801	-	317206 174567
201	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12SW (W)	803	-	317088 173950
202	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18NE (N)	803	-	318042 175013
203	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	820	-	317393 173253
204	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A19NW (N)	823	-	318378 174981
205	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A17SW (NW)	827	-	317181 174577
206	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A17SW (NW)	827	-	317170 174561
207	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A17SW (NW)	827	-	317221 174632
208	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A19SE (NE)	831	-	318814 174615
209	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18NE (N)	832	-	318084 175044
210	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A18NE (N)	840	-	318306 175022
211	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NW (SW)	842	-	317177 173513
212	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	843	-	317329 173284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12NW (W)	847	-	317031 174217
214	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	850	-	317353 173249
215	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7SE (SW)	852	-	317328 173272
216	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NW (SW)	865	-	317137 173551
217	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A7NW (SW)	869	-	317131 173554
218	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A23SE (N)	880	-	318092 175092
219	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12NW (W)	894	-	316982 174209
220	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A23SW (N)	911	-	317910 175106
221	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A7NW (W)	933	-	317021 173668
222	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A17SW (NW)	979	-	317002 174570
223	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A3NE (S)	982	-	318208 172889
224	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A16SE (NW)	988	-	316950 174479
225	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1950	A11SE (W)	989	-	316889 174020
226	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A17SW (NW)	992	-	316999 174594
227	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A17SW (NW)	994	-	317037 174663
228	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A23SE (N)	995	-	318298 175184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
229	Registered Landfill Sites Licence Holder: W T Davies (Transport) Ltd Licence Reference: 93/12 Site Location: Lower Ferry Road, Grangetown, Cardiff, South Glamorgan Licence Easting: 318000 Licence Northing: 173500 Operator Location: 232 Penarth Road, CARDIFF, South Glamorgan, CF1 7XJ Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Accuracy: Not Applicable Authorised Waste: Building Wastes Inert Demolition Waste Max.Waste Permitted By Licence Soil, Subsoil Prohibited Waste: Pumpable Sludge Wastes Putrescible Waste Special Wastes	A13SE (S)	115	3	318009 173750
230	Registered Landfill Sites Licence Holder: Davies Middleton Davies Ltd Licence Reference: L 6 (92/01) Site Location: South Of Hamadryad Hospital Phase 2, Butetown, Cardiff, South Glamorgan Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Butetown Link Site Office, Ferry Road, CARDIFF, South Glamorgan, CF1 7DX Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Licence has completion certificateSurrendered Dated: 16th March 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Local Civil Engineering Waste Maximum Waste Permitted By Licence Prohibited Waste: Liquid Wastes Oil Containing Pcb'S And Analogues Percussive/Explosive/Similar Waste Radioactive Wastes Special Wastes Waste Containing Flammable Solvents Waste N.O.S.	A13NE (E)	153	3	318273 174060
231	Registered Landfill Sites Licence Holder: Wales Gas Plc Licence Reference: 5/77 Site Location: Wales Gas, Ferry Road, Cardiff, South Glamorgan Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Helmont House, Churchill Way, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Record supersededSuperseded Dated: Not Supplied Preceded By: 5/77 Licence: Superseded By: 5/77 Reiss Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Constr'N/Demol. Inert/Non-Haz/Non-Tox	A12NE (NW)	322	3	317564 174223

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	Registered Landfill Sites Licence Holder: City Of Cardiff (Operational Servs) Licence Reference: 92/03D (RES) Site Location: Municipal Disposal Site, Ferry Road, Cardiff, South Glamorgan Licence Easting: 317600 Licence Northing: 173795 Operator Location: Wedal Road, Roath, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1976 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: House, Com & Ind.Waste Prohibited Waste: Liquid/Sludge Wastes Oils Special Wastes	A12SE (SW)	345	3	317600 173795
233	Registered Landfill Sites Licence Holder: Edmund Nuttall Ltd Licence Reference: 91/02 Site Location: Hamadryad Embankment (Phase I), Cardiff, South Glamorgan Licence Easting: 318500 Licence Northing: 174250 Operator Location: Allied House, Stuart Square, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Estuarial Silts & Clays	A14NW (NE)	412	3	318500 174250
234	Registered Landfill Sites Licence Holder: W T Davies (Transport) Ltd Licence Reference: 2/81 Site Location: Rear Of British Dredging/, Avondale Garden, Cardiff, South Glamorgan Licence Easting: 318370 Licence Northing: 174520 Operator Location: Riverside Terrace, Ely, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1981 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Demolition Wastes Excav. Mat'L, Soil, Subsoil, Boulder Clay	A19SW (NE)	419	3	318370 174520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
235	Registered Landfill Sites Licence Holder: Davies Middleton Davies Ltd Licence Reference: SEW/216 Site Location: Prospect Place (Red House Pub), Ferry Road, Cardiff, South Glamorgan Licence Easting: 318100 Licence Northing: 173400 Operator Location: Phoenix Estate, Caerphilly Road, CARDIFF, South Glamorgan, CF4 4XH Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence has completion certificateSurrendered Dated: 16th January 1998 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Ceramic/Cemented Mat'Ls Contam.Soil/Subsoil/Etc Gen. Constr'N/Demol.Waste Inert Waste Comprising Max.Waste Permitted By Licence Nat.Occ Rock/Soils With Organ.Mat Nat.Occ.Rocks Top/Subsoil Residues From Abrasive Procs Unused/Uncontam. Proc./Prep. Minerals Used Moulds/Muds/Filter Mat'Ls Etc Prohibited Waste Biodegradable/Putrescible Waste Liquid Wastes Manmade Fibres Incl.Fibreglass Mat'L Contam. To > Working Plan Levels Plasterboard/Plaster Sludge Wastes Spec.Waste (Epa'90:S62/1996 Regs) Used Absorbents/Filter Aids Used Ion-Exchange Resins Waste N.O.S. Wood Waste/Timber	A8NE (S)	467	3	318100 173400
236	Registered Landfill Sites Licence Holder: Cardiff Bay Development Corporation Licence Reference: L 1 (95/07 MOD 1) Site Location: Former Municipal Landfill, Ferry Road, Grangetown, Cardiff, South Glamorgan Licence Easting: 317450 Licence Northing: 173800 Operator Location: Baltic House, Mount Stuart Square, CARDIFF, South Glamorgan, CF1 6DH Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Site Closed Dated: 6th February 1996 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Contam.Soils/Municipal Refuse Contaminated Hardcore/Similar Contaminated Soil Excav. Soils, Hardcore, Sim'R Mat'Ls Municipal Refuse From On Site Waste Municipal Waste On Site Prohibited Waste Free Flammable Solvents Liquid Wastes Special Wastes Waste N.O.S.	A12SE (W)	485	3	317450 173800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
237	Registered Landfill Sites Licence Holder: Ocean Developments Ltd Licence Reference: L 7 (92/15) Site Location: Taff Island, Clarence Road Bridge, Butetown, Cardiff, South Glamorgan Licence Easting: 318610 Licence Northing: 174870 Operator Location: 6 Oak Court, Betts Way, CRAWLEY, West Sussex, RH10 2GB Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence has completion certificateSurrendered Dated: 4th June 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Brick, Nat'L Stone & Slate Demolition & Building Wastes Max.Waste Permitted By Licence Soil, Subsoil, Excav'N Waste Prohibited Waste: Asbestos List 1 Substances In Eec Dir. 80/68 Pumpable Sludges Putrescible Waste Incl. Special Wastes Timber Waste In Sealed Drums Waste N.O.S	A19NW (NE)	841	3	318610 174870
238	Registered Waste Transfer Sites Licence Holder: H Pritchard Licence Reference: 2/86 Site Location: B.R.S. Depot, South Clive Street, Grangetown, Cardiff, South Glamorgan Operator Location: 7 Monmouth House, Cwmbran, Gwent Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1986 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Waste Paper/Cardboard & Similar Mat'L	A13SW (SW)	75	3	317900 173800
239	Registered Waste Transfer Sites Licence Holder: Richard C Taylor (Alpha Waste Ltd) Licence Reference: 87/03 Site Location: Ferry Road., Grangetown, Cardiff, South Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1987 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Hardcore Inert Demol. & Building Waste Soil,Subsoil Prohibited Waste: Domestic Refuse Liquid Wastes Special Wastes	A8NW (S)	363	3	317900 173500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
240	Registered Waste Transfer Sites Licence Holder: S.A.S. Industrial Services Ltd Licence Reference: 88/01 Site Location: Unit F Victoria Wharves, Ferry Road, Cardiff, South Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1988 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Alkalies & Bases Bagged Asbestos Capacitors/Transformers Cont'g Pcb'S Lab. & Pharmaceutical Chemicals Max.Storage Permitted By Licence Mineral & Organic Acids Oil/Water Mixtures Paint & Resins Sludge Wastes Explosives Waste Prohibited Waste	A8NE (S)	464	3	318000 173400
241	Registered Waste Transfer Sites Licence Holder: British Gas Plc (Wales) Licence Reference: T 4 (5/77 REISS) Site Location: Grangetown Gasworks, Ferry Road, CARDIFF, South Glamorgan, CF1 7XR Operator Location: Helmont House, Churchill Way, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Licence has completion certificateSurrendered Dated: 29th December 1995 Preceded By: 5/77 Reiss Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Asbestos Max.Stor Inert Excavated Spoil Max.Stor Max.Storage In Licence Max.Waste Permitted By Licence Mixed Aliphatic Hydrocarbons Max.Stor Polythene Plastic Pipe Max.Stor Prohibited Waste: Any Metal In Fine Powder Form Biodegradable Waste Coal Contaminated Waste Insulated Cable Liquid Waste N.O.S. Poisonous, Noxious, Polluting Wastes Sodium/Potassium Special Wastes N.O.S. Trans/Capc'S Cont. Pcbs/Analogues Tyres Waste N.O.S.	A12NE (W)	479	3	317400 174200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
241	Registered Waste Transfer Sites Licence Holder: British Gas Plc (Wales) Licence Reference: 5/77 Reiss Site Location: Grangetown Gasworks, Ferry Road, CARDIFF, South Glamorgan, CF1 7XR Operator Location: Helmont House, Churchill Way, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Record supersededSuperseded Dated: 10th June 1993 Preceded By: 5/77 Licence: Superseded By: T 4 (5/77 REISS) Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Asbestos Inert Solids Max. Capacity In Licence Mixed Aromatic/Aliphatic Hydrocarbons Prohibited Waste: Cable Elemental Sodium/Potassium Liquid Wastes N.O.S. Pcb'S Tyres	A12NE (W)	479	3	317400 174200
242	Registered Waste Transfer Sites Licence Holder: A & S Waste Disposal Licence Reference: 90/02 Site Location: Unit H Victoria Wharf, Ferry Road, Cardiff, South Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1990 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Builders Waste Cardboard Plastics Scrap Metal Slate, Concrete, Brick Timber Topsoil, Subsoil, Clay	A8SE (S)	667	3	318100 173200
243	Registered Waste Transfer Sites Licence Holder: William G Field t/a Gwent Tyre Disposals Licence Reference: 93/05 Site Location: Unit 4 Gulf Works, Penarth Road, Cardiff, South Glamorgan Operator Location: 34 Morby Court, CARDIFF, South Glamorgan, CF1 5BT Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Max.Waste Permitted By Licence Scrap Car/Comm'L Veh. Tyres Prohibited Waste: Liquid Wastes Special Wastes	A17SW (NW)	745	3	317300 174600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
244	Registered Waste Transfer Sites Licence Holder: Charles A Parsons t/a Building Recycle Licence Reference: 89/02 Site Location: Units 7 & 8 Curran Industrial Estate, Curran Road, Cardiff, South Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1989 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Builders Waste Cardboard Max.Waste Permitted By Licence-Stated Metal Scrap Slate, Concrete, Bricks Timber Topsoil, Subsoil, Clay Prohibited Waste: Poisonous, Noxious, Polluting Wastes Putrescible Waste	A23SE (N)	914	3	318300 175100
245	Registered Waste Transfer Sites Licence Holder: Partco Group Ltd Licence Reference: 92/08 Site Location: Unit 1A Stuart Close, Penarth Road, CARDIFF, South Glamorgan, CF1 7QF Operator Location: Lea Francis House, Station Road, Balsall Common, COVENTRY, West Midlands, CV7 7FD Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Cellose Thinners And Max.Storage Paint Waste Ex Paint Finishing Shops Prohibited Waste: Percussive Waste Radioactive Wastes Special Wastes Uk Listed Substances Under 76/484/Ec	A11SE (W)	928	3	316950 174020
245	Registered Waste Transfer Sites Licence Holder: Brown Brothers Automotive Div Licence Reference: 90/01 Site Location: 1 Stuart Close, Penarth Road, Cardiff, South Glamorgan Operator Location: Dana Ltd 1 Stuart Close, Penarth Road, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st February 1990 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Cellulose Thinners Max.Storage Permitted By Licence Paint Waste Ex Paint Finishing Shops Prohibited Waste: Medical (Misuse Of Drugs Act) Percussives & Explosive Waste Radioactive Wastes Special Wastes Waste Cont'G Sub'S In Poisons Act '72 Waste Containing Pcb'S And Analogues Wastes In Aquatic Poll'N Dir.76/464/Ec	A11SE (W)	928	3	316950 174020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
246	Registered Waste Transfer Sites Licence Holder: Woodpecker Products Ltd Licence Reference: 94/03 Site Location: 9 Curran Embankment, Cardiff, South Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st March 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Max.Storage In Licence Sawdust White/Mixed Wood Shavings Prohibited Waste: Waste N.O.S.	A23SE (N)	939	3	318230 175140
247	Registered Waste Treatment or Disposal Sites Licence Holder: John Ford & Sons (Cardiff) Ltd Licence Reference: S 8 (93/03) Site Location: Ferry Road, Grangetown, CARDIFF, South Glamorgan, CF11 7JL Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Scrapyard Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st June 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Engines Ferrous Metal Scrap Max.Storage In Licence Non-Ferrous Metal Scrap Prohibited Waste: Batteries Cable Large Transformers/Capacitors Liquid Wastes Special Wastes Tyres	A13SW (SW)	157	3	317800 173800
248	Registered Waste Treatment or Disposal Sites Licence Holder: N Young t/a City Salvage Ltd Licence Reference: T.17 Site Location: Ferry Road, Grangetown, Cardiff, South Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Asbestos Machinery Max.Storage In Licence Scrap Metal Timber Prohibited Waste: Batteries Free Flammable Solvents Liquid Wastes Pcbs Special Wastes Tyres	A12SE (SW)	343	3	317600 173800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
249	Registered Waste Treatment or Disposal Sites Licence Holder: Wales Gas Licence Reference: 5/77 Site Location: Wales Gas, Ferry Road, Cardiff, South Glamorgan Operator Location: Helmont House, Churchill Way, Cardiff, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Incineration Max Input Rate: Undefined Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 25th November 1977 Preceded By: Not Given Licence: Superseded By: 5/77 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Oil/Water Mixtures	A12NE (W)	479	3	317400 174200
250	Registered Waste Treatment or Disposal Sites Licence Holder: Brian W Hughes t/a B.P & K Demolition Licence Reference: S 9 (93/08) Site Location: Curran Embankment, Butetown, Cardiff, South Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Scrapyard Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 10th June 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Dry Ferrous Swarf Dry Non-Ferrous Swarf Ferrous Metal Scrap Non-Ferrous Metal Scrap Waste Oil From Dismantling Only Prohibited Waste: Any Metal In Fine Powder Form Liquid Waste N.O.S. Sodium/Potassium Special Wastes Trans/Capac'S Cont. Pcbs/Analogues Waste N.O.S. Waste With Free Flam.Solvents	A23SE (N)	895	3	318200 175100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
251	Control of Major Accident Hazards Sites (COMAH) Name: Wales And West Utilities Limited Location: Grangetown Holder Station, Ferry Road, Cardiff, South Glamorgan, Cf11 7DW Reference: Not Supplied Type: Lower Tier Status: Active Positional Accuracy: Manually positioned to the address or location	A12NE (W)	481	8	317393 174157
251	Control of Major Accident Hazards Sites (COMAH) Name: Transco Plc Location: Grangetown Gas Works, Ferry Road, CARDIFF, South Glamorgan, CF1 7DW Reference: 1038311 Type: Lower Tier Status: Active Positional Accuracy: Manually positioned to the address or location	A12NE (W)	501	8	317371 174129
252	Notification of Installations Handling Hazardous Substances (NIHHS) Name: British Gas (Wales) PLC Location: Ferry Road, Grangetown, CARDIFF, South Glamorgan, CF1 7DW Status: Not Active Positional Accuracy: Unknown	A12NE (W)	516	8	317375 174260
253	Planning Hazardous Substance Consents Name: British Gas Wales/Cymru Ltd Location: Ferry Road, Grangetown, Cardiff Authority: Cardiff Council, Regulatory Services Application Ref: H/92/00005/R Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 0 Application date: 30th November 1992 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	473	9	317401 174162
253	Planning Hazardous Substance Consents Name: Transco Location: Grangetown Holder Station, Ferry Road, Cardiff Authority: Vale Of Glamorgan County Borough Council, Planning Department Application Ref: 2001/00048/OBS Hazardous: Unknown at time of report Substance: Unknown at time of report Maximum Quantity: 0 Application date: 10th January 2001 Decision: Continuation of consent Positional Accuracy: Manually positioned to the address or location	A12NE (W)	475	10	317400 174169
253	Planning Hazardous Substance Consents Name: Bg Transco Plc Location: Grangetown Gas Works, Ferry Road, Grangetown, CARDIFF, South Glamorgan, CF11 7XR Authority: Cardiff Council, Regulatory Services Application Ref: H/01/00002/R Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 252 Application date: 18th May 2001 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	479	9	317395 174163
253	Planning Hazardous Substance Consents Name: Bg Transco Plc Location: Grangetown Gas Works, Ferry Road, Grangetown, CARDIFF, South Glamorgan, CF1 7XR Authority: Cardiff Council, Regulatory Services Application Ref: H/01/00001/R Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 252 Application date: 3rd January 2001 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	491	9	317383 174169

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
254	Planning Hazardous Substance Consents Name: Bg Transco Plc Location: Grangetown Gas Works, Ferry Road, Grangetown, CARDIFF, South Glamorgan, CF1 7XR Authority: Cardiff Council, Regulatory Services Application Ref: H/00/00001/R Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 252 Application date: 26th April 2000 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	518	9	317355 174089
254	Planning Hazardous Substance Consents Name: Not Supplied Location: Part Of Land Transco, Ferry Road, Grangetown, Cardiff Authority: Cardiff Council, Regulatory Services Application Ref: H/99/00001/R Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 0 Application date: 22nd January 1999 Decision: Withdrawn Positional Accuracy: Manually positioned to the address or location	A12NE (W)	524	9	317349 174090
255	Planning Hazardous Substance Consents Name: Transco Location: Grangetown Gas Works, Ferry Road, Grangetown, Cardiff, South Glamorgan, Cf1 7xr Authority: Cardiff Council, Regulatory Services Application Ref: H/99/00002/R Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 252 Application date: 12th March 1999 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	519	9	317370 174255

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SE (NE)	0	1	318014 174028
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (NE)	0	1	318014 174028
256	BGS Recorded Mineral Sites Site Name: Gbangstown Location: Grangetown, Cardiff, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 127944 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	290	1	317684 173733
257	BGS Recorded Mineral Sites Site Name: Gbangstown Location: Grangetown, Cardiff, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 127945 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	530	1	317542 173516
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 318100, 174220 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured Concentration: 16.30 mg/kg Cadmium Measured Concentration: 0.90 mg/kg Chromium Measured Concentration: 69.00 mg/kg Lead Measured Concentration: 133.10 mg/kg Nickel Measured Concentration: 38.20 mg/kg	A13NE (NE)	15	1	318100 174220
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 317750, 174260 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured Concentration: 32.60 mg/kg Cadmium Measured Concentration: 1.70 mg/kg Chromium Measured Concentration: 79.30 mg/kg Lead Measured Concentration: 402.80 mg/kg Nickel Measured Concentration: 65.00 mg/kg	A13NW (NW)	184	1	317750 174260

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 318250, 174750 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 27.80 mg/kg Concentration: Cadmium Measured 2.00 mg/kg Concentration: Chromium Measured 93.60 mg/kg Concentration: Lead Measured 811.50 mg/kg Concentration: Nickel Measured 51.20 mg/kg Concentration:	A18NE (N)	563	1	318250 174750
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 317300, 174240 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 15.50 mg/kg Concentration: Cadmium Measured 2.40 mg/kg Concentration: Chromium Measured 85.70 mg/kg Concentration: Lead Measured 288.50 mg/kg Concentration: Nickel Measured 45.00 mg/kg Concentration:	A12NW (W)	584	1	317300 174240
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 318730, 174250 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 16.00 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 86.00 mg/kg Concentration: Lead Measured 99.20 mg/kg Concentration: Nickel Measured 39.40 mg/kg Concentration:	A14NE (E)	633	1	318730 174250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 317770, 174780 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 46.80 mg/kg Concentration: Cadmium Measured 1.90 mg/kg Concentration: Chromium Measured 63.90 mg/kg Concentration: Lead Measured 551.80 mg/kg Concentration: Nickel Measured 48.30 mg/kg Concentration:	A18NW (N)	643	1	317770 174780
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 317130, 174150 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 24.20 mg/kg Concentration: Cadmium Measured 1.20 mg/kg Concentration: Chromium Measured 64.10 mg/kg Concentration: Lead Measured 647.70 mg/kg Concentration: Nickel Measured 63.00 mg/kg Concentration:	A12NW (W)	743	1	317130 174150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 318860, 174760 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured Concentration: 18.00 mg/kg Cadmium Measured Concentration: 2.90 mg/kg Chromium Measured Concentration: 127.60 mg/kg Lead Measured Concentration: 630.10 mg/kg Nickel Measured Concentration: 89.90 mg/kg	A19NE (NE)	948	1	318860 174760
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Cardiff Count Id: 506 Arsenic Minimum Concentration: 6.00 mg/kg Arsenic Average Concentration: 18.00 mg/kg Arsenic Maximum Concentration: 149.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 100.60 mg/kg Chromium Minimum Concentration: 28.00 mg/kg Chromium Average Concentration: 86.00 mg/kg Chromium Maximum Concentration: 2933.00 mg/kg Lead Minimum Concentration: 20.00 mg/kg Lead Average Concentration: 190.00 mg/kg Lead Maximum Concentration: 8158.00 mg/kg Nickel Minimum Concentration: 8.00 mg/kg Nickel Average Concentration: 35.00 mg/kg Nickel Maximum Concentration: 482.00 mg/kg	A13SE (NE)	0	1	318014 174028
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	318141 174025
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	318141 174025

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	318014 174028

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
258	Contemporary Trade Directory Entries Name: John Ford & Sons Ltd Location: Ferry Rd, Cardiff, South Glamorgan, CF11 0JL Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	147	-	317820 173782
259	Contemporary Trade Directory Entries Name: P R G Powerhouse Location: Unit 1G, Cardiff Bay Retail Park, Ferry Road, Cardiff, CF11 0JR Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	240	-	317677 173951
260	Contemporary Trade Directory Entries Name: Asda Petrol Location: Cardiff Bay Retail Park, Ferry Road, Cardiff, CF11 0JR Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	248	-	317782 173673
261	Contemporary Trade Directory Entries Name: Auto Care (Cardiff) Location: Unit 2, Windsor Buildings, Ferry Road, Cardiff, CF11 0JL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	248	-	317718 174318
261	Contemporary Trade Directory Entries Name: Autocare Accident & Service Centre Location: Unit 2, Windsor Buildings, Ferry Road, Cardiff, CF11 0JL Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	248	-	317718 174318
262	Contemporary Trade Directory Entries Name: Master Coat Location: 43, Ferry Road, Cardiff, South Glamorgan, CF11 7DW Classification: Coating Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	277	-	317848 174414
263	Contemporary Trade Directory Entries Name: Banner Woodworking Location: Windsor Works, Earl La, Grangetown, Cardiff, South Glamorgan, CF11 7DP Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	313	-	317872 174464
263	Contemporary Trade Directory Entries Name: Wallen Electrical Location: Earl Lane, Cardiff, CF11 7DP Classification: Electric Motor Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	323	-	317867 174473
264	Contemporary Trade Directory Entries Name: Windsor Motors Location: 208, Clive Street, Cardiff, CF11 7JG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	345	-	317686 174414
265	Contemporary Trade Directory Entries Name: Cardiff Precision Tooling Location: Apollo Works, Clive Street Lane, Cardiff, CF11 7JH Classification: Tool Design, Manufacturers & Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	411	-	317647 174467
265	Contemporary Trade Directory Entries Name: A & P Location: Apollo Works, Clive Street Lane, Cardiff, CF11 7JH Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	411	-	317647 174467
265	Contemporary Trade Directory Entries Name: D M Motor Repairs Location: Rear Of, 176, Clive Street, Cardiff, CF11 7JG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	449	-	317632 174503

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
266	Contemporary Trade Directory Entries Name: Transco Location: Grangetown Gas Works, Ferry Road, Cardiff, CF11 0XR Classification: Gas Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	415	-	317467 174214
267	Contemporary Trade Directory Entries Name: Royal Hamadryad Hospital Location: Hunter Street, Cardiff, CF10 5UQ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	453	-	318512 174370
268	Contemporary Trade Directory Entries Name: Colorama Gas Location: Avondale House, Avondale Rd, Cardiff, South Glamorgan, CF11 7DS Classification: Gas Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SE (NE)	483	-	318289 174650
269	Contemporary Trade Directory Entries Name: Atkins Damp Proof Location: 50, Cambridge Street, CARDIFF, CF11 7DJ Classification: Damp & Dry Rot Control Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	505	-	318094 174717
270	Contemporary Trade Directory Entries Name: D C Optical Location: 13, Moordale Road, Cardiff, CF11 7DU Classification: Optical Goods - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	532	-	318154 174739
271	Contemporary Trade Directory Entries Name: S W Heating Equipment Ltd Location: 98, Holmesdale Street, Cardiff, CF11 7BU Classification: Air Conditioning Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	552	-	317959 174749
272	Contemporary Trade Directory Entries Name: Morrisons Petrol Station Location: International Sports Village, Cardiff Bay, Cardiff, South Glamorgan, CF11 0JP Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	560	-	318016 173305
273	Contemporary Trade Directory Entries Name: Clark'S Original Pies Location: 23, Bromsgrove Street, Cardiff, CF11 7EZ Classification: Food Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	584	-	317780 174720
274	Contemporary Trade Directory Entries Name: Cj Autos Location: Rear Of, 128-130 Clive St, Cardiff, South Glamorgan, CF11 7JE Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	593	-	317594 174649
275	Contemporary Trade Directory Entries Name: R G Cooper Location: 11, Clarence Place, Cardiff, CF10 5GW Classification: Refrigerators & Freezers - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	619	-	318659 174449
276	Contemporary Trade Directory Entries Name: Cardiff Bay Service Station Location: 235, Corporation Road, Cardiff, CF11 7AS Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	633	-	318464 174720
276	Contemporary Trade Directory Entries Name: M R H Service Station Location: 235, Corporation Road, Cardiff, CF11 7AS Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	633	-	318464 174720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
276	Contemporary Trade Directory Entries Name: Esso Location: 235, Corporation Road, Cardiff, CF11 7AS Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	633	-	318464 174720
276	Contemporary Trade Directory Entries Name: Cardiff Bay Service Station Location: 235, Corporation Road, Cardiff, CF11 7AS Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	634	-	318464 174720
276	Contemporary Trade Directory Entries Name: Esso Location: 235, Corporation Road, Cardiff, CF11 7AS Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	634	-	318464 174720
277	Contemporary Trade Directory Entries Name: Dirt Monkeys Cleaning Services Location: 49, St. Fagans Street, Cardiff, CF11 7LH Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	633	-	317882 174811
278	Contemporary Trade Directory Entries Name: M G P Motors Location: 128, Paget Street, Cardiff, CF11 7LA Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	642	-	317744 174768
278	Contemporary Trade Directory Entries Name: M G P Motors Location: 25, St. Fagans Street, Cardiff, CF11 7LG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	647	-	317720 174761
279	Contemporary Trade Directory Entries Name: Aeeves Re-Upholstery Location: 177, Corporation Road, Cardiff, CF11 7AS Classification: Furniture - Repairing & Restoring Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	644	-	318265 174830
280	Contemporary Trade Directory Entries Name: Morrisons Location: Morrisons Petrol Station, Wm Morrisons, International Drive, Cardiff, CF11 0JP Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	650	-	317835 173220
281	Contemporary Trade Directory Entries Name: Grange Service Station Location: 91-97, Clive Street, Cardiff, CF11 7HN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	668	-	317638 174752
282	Contemporary Trade Directory Entries Name: Phoenix Saxton Location: Sterling Works, Clarence Road, Cardiff, CF10 5FA Classification: Fasteners & Fixing Devices Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	678	-	318655 174582
283	Contemporary Trade Directory Entries Name: 4 Access Hire Location: Mertec House, Fleetway, Cardiff, CF11 8TY Classification: Scaffolding & Work Platforms Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	690	-	317326 174544

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
284	Contemporary Trade Directory Entries Name: Newman Designs Location: Fleet Way, Cardiff, South Glamorgan, CF11 8TY Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	691	-	317281 174480
284	Contemporary Trade Directory Entries Name: The Trade Centre Location: Fleet Way, Cardiff, South Glamorgan, CF11 8TY Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	694	-	317292 174504
284	Contemporary Trade Directory Entries Name: City Forge Location: City Forge, Fleetway, Cardiff, CF11 8TY Classification: Blacksmiths & Forgemasters Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	704	-	317277 174498
285	Contemporary Trade Directory Entries Name: J & E Hall Ltd Location: 1, Burt Street, Cardiff, CF10 5FZ Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	699	-	318714 174522
285	Contemporary Trade Directory Entries Name: Baymarine Industrial Services Ltd Location: Aquarian House, Burt St, Cardiff, South Glamorgan, CF10 5FZ Classification: Ship Builders, Repairs & Fittings Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	723	-	318739 174526
285	Contemporary Trade Directory Entries Name: T J Williams Ltd Location: 15-17, Harrowby Street, Cardiff, CF10 5GA Classification: Industrial Instrument & Apparatus Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	740	-	318745 174550
286	Contemporary Trade Directory Entries Name: Nuffield Health Location: Dunleavy Drive, Cardiff, South Glamorgan, CF11 0SN Classification: Hospitals Status: Active Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	702	-	317644 173226
287	Contemporary Trade Directory Entries Name: Grange Town Tyres Location: 94, Clive Street, Cardiff, South Glamorgan, CF11 7JE Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	702	-	317578 174763
288	Contemporary Trade Directory Entries Name: Nuffield Health Assessment Location: Cardiff Bay Hospital, Dunleavy Drive, Cardiff, South Glamorgan, CF11 0SN Classification: Hospitals Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SW)	706	-	317523 173294
289	Contemporary Trade Directory Entries Name: Martyn Madden Location: 110, Judkin Court, Heol Tredwen, Cardiff, CF10 5AX Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	712	-	318635 174666
290	Contemporary Trade Directory Entries Name: Exxentis Location: Dunleavy dr, Cardiff, South Glamorgan, CF11 0SN Classification: Industrial Instrument & Apparatus Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	722	-	317407 173378
291	Contemporary Trade Directory Entries Name: Addright Location: 129, Corporation Road, Cardiff, CF11 7AR Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	727	-	318087 174938

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
291	Contemporary Trade Directory Entries Name: Bingo Media Location: 5, Aber Street, Cardiff, CF11 7AG Classification: Record, Tape & CD Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	762	-	318106 174974
292	Contemporary Trade Directory Entries Name: Chef'S Flavours Ltd Location: 10a, Stadium Close, Cardiff, CF11 8TS Classification: Food Colouring, Flavours & Additive Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	727	-	317145 174126
293	Contemporary Trade Directory Entries Name: Paintstripco Location: 164, Taff Embankment, Cardiff, CF11 7BJ Classification: Paint & Varnish Stripping Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (N)	736	-	318351 174898
294	Contemporary Trade Directory Entries Name: The Fire & Stove Shop Location: Pumping Station, Penarth Road, Cardiff, South Glamorgan, CF11 8TT Classification: Woodburning Stoves Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12NW (W)	746	-	317144 174283
294	Contemporary Trade Directory Entries Name: Auto Fayre Location: Penarth Road, Cardiff, CF11 8TT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12NW (W)	751	-	317140 174289
295	Contemporary Trade Directory Entries Name: Lee & Turner Ltd Location: Gulf Works, Penarth Road, Cardiff, CF11 8TT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	748	-	317311 174618
295	Contemporary Trade Directory Entries Name: Lonsdale Commercial Body Builders Ltd Location: Unit 2, Gulf Works, Penarth Road, Cardiff, CF11 8TW Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	748	-	317311 174618
295	Contemporary Trade Directory Entries Name: Gulf Service Station Location: Gulf Works, Penarth Road, Cardiff, CF11 8TT Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	748	-	317311 174618
296	Contemporary Trade Directory Entries Name: Renault Location: 295, Penarth Road, Cardiff, CF11 8UU Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	749	-	317196 174445
296	Contemporary Trade Directory Entries Name: Renault Cardiff Location: 295, Penarth Road, Cardiff, CF11 8UU Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	749	-	317196 174445
296	Contemporary Trade Directory Entries Name: Renault Cardiff Location: 295, Penarth Road, Cardiff, CF11 8UU Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	749	-	317196 174445
296	Contemporary Trade Directory Entries Name: Renault Location: 295, Penarth Road, Cardiff, South Glamorgan, CF11 8UU Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	749	-	317196 174445

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
296	Contemporary Trade Directory Entries Name: Renault Cardiff Location: 295, Penarth Road, CARDIFF, CF11 8UU Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	749	-	317196 174445
296	Contemporary Trade Directory Entries Name: Wessex Garages Ltd Location: 289, Penarth Road, Cardiff, CF11 8TT Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	763	-	317204 174492
296	Contemporary Trade Directory Entries Name: Sytner Mini Location: 289, Penarth Road, CARDIFF, CF11 8TT Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	763	-	317204 174492
297	Contemporary Trade Directory Entries Name: Shine & Bright Location: Penarth Rd, Cardiff, South Glamorgan, CF11 8TW Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SW (NW)	758	-	317269 174581
297	Contemporary Trade Directory Entries Name: Quay Vehicle Solutions Location: Penarth Rd, Cardiff, South Glamorgan, CF11 8TW Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SW (NW)	758	-	317269 174581
297	Contemporary Trade Directory Entries Name: Concept Saab Location: 291, Penarth Road, CARDIFF, CF11 8TT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	780	-	317231 174566
298	Contemporary Trade Directory Entries Name: Exeldent Location: 6, Grangemoor Court, Cardiff, CF11 0AR Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	758	-	317419 173315
299	Contemporary Trade Directory Entries Name: Clarence Bridge Service Station Location: Unit 1 Hurman St, Cardiff Bay, Cardiff, South Glamorgan, CF10 5FD Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	762	-	318702 174662
300	Contemporary Trade Directory Entries Name: Premier Cars Wales Location: Marriot House, Penarth Road, Cardiff, CF11 8TT Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	765	-	317144 174357
300	Contemporary Trade Directory Entries Name: Ken Thorne Location: Thorne House, Penarth Road, Cardiff, South Glamorgan, CF11 8TT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	765	-	317144 174357
300	Contemporary Trade Directory Entries Name: Carshop Cardiff Location: Penarth Road, Cardiff, South Glamorgan, CF11 8TT Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	765	-	317144 174357
300	Contemporary Trade Directory Entries Name: Lloyds Location: Penarth Rd, Cardiff, South Glamorgan, CF11 8TT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12NW (W)	765	-	317144 174357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
301	Contemporary Trade Directory Entries Name: Vale Carpet Cleaning Cardiff Location: 107 Corporation Road, Cardiff, South Glamorgan, CF11 7AR Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	767	-	318034 174977
301	Contemporary Trade Directory Entries Name: Vale Carpet Cleaning Location: 107, Corporation Road, Cardiff, CF11 7AR Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	767	-	318034 174977
302	Contemporary Trade Directory Entries Name: Bentley Cardiff Location: 293, Penarth Road, Cardiff, CF11 8TT Classification: Car Customisation & Conversion Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	774	-	317205 174515
302	Contemporary Trade Directory Entries Name: Bentley Cardiff Location: 293, Penarth Road, Cardiff, CF11 8TT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	774	-	317205 174515
303	Contemporary Trade Directory Entries Name: Bay Telecom Ltd Location: 108, Taff Embankment, Cardiff, CF11 7BH Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	780	-	318160 174989
304	Contemporary Trade Directory Entries Name: Caledonia Motor Group Location: Kismet House, Penarth Road, Cardiff, CF11 8TT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	787	-	317308 174672
305	Contemporary Trade Directory Entries Name: Rapid Fit Location: Penarth Road, Cardiff, CF11 8YZ Classification: Exhaust & Shock Absorber Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	792	-	317416 174772
305	Contemporary Trade Directory Entries Name: Abbey Garages Ltd Location: Penarth Road, Cardiff, CF11 8YZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	792	-	317416 174772
305	Contemporary Trade Directory Entries Name: Fordthorne Location: Penarth Road, Cardiff, CF11 8YZ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	792	-	317416 174772
305	Contemporary Trade Directory Entries Name: Ford Rapid Fit Location: 281 Penarth Rd, Cardiff, South Glamorgan, CF11 8YZ Classification: Tyre Dealers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	792	-	317416 174771
305	Contemporary Trade Directory Entries Name: Fordthorne Location: Penarth Road, Cardiff, South Glamorgan, CF11 8YZ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	792	-	317416 174772
305	Contemporary Trade Directory Entries Name: Fordthorne Location: Penarth Road, Cardiff, CF11 8YZ Classification: Car Customisation & Conversion Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	792	-	317416 174772

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
305	Contemporary Trade Directory Entries Name: Fordthorne Location: Penarth Road, Cardiff, South Glamorgan, CF11 8YZ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	793	-	317416 174772
305	Contemporary Trade Directory Entries Name: Fordthorne Location: Penarth Road, Cardiff, South Glamorgan, CF11 8YZ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	793	-	317416 174772
305	Contemporary Trade Directory Entries Name: Fordthorne Location: Penarth Road, Cardiff, South Glamorgan, CF11 8YZ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	793	-	317416 174772
305	Contemporary Trade Directory Entries Name: Fordthorne Location: Penarth Road, Cardiff, South Glamorgan, CF11 8YZ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	793	-	317416 174772
305	Contemporary Trade Directory Entries Name: Fordthorns Motor Park Volvo Location: 281 Penarth rd, Cardiff, South Glamorgan, CF11 8YZ Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17NE (NW)	793	-	317416 174772
305	Contemporary Trade Directory Entries Name: Ford Thorne Location: Fordthorne Body Shop, Fordthorne, 281, Penarth Road, Cardiff, CF11 8YZ Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	832	-	317377 174793
306	Contemporary Trade Directory Entries Name: T A Reed Ltd Location: Osprey House, Harrowby Street, Cardiff, CF10 5GA Classification: Marine Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	793	-	318795 174568
306	Contemporary Trade Directory Entries Name: Assembly Auto Repairs Location: 2, Harrowby Street, Cardiff, South Glamorgan, CF10 5GA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	793	-	318795 174568
306	Contemporary Trade Directory Entries Name: Vokes & Elsheikh Ltd Location: 5, Douglas Buildings, Royal Stuart Lane, Cardiff, CF10 5EL Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	816	-	318835 174539
306	Contemporary Trade Directory Entries Name: M T S Network Logistics Uk Ltd Location: 1, Douglas Buildings, Royal Stuart Lane, Cardiff, South Glamorgan, CF10 5EL Classification: Freight Forwarders Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	816	-	318835 174539
306	Contemporary Trade Directory Entries Name: Multilec Electrical Services Location: 4 Douglas Buildings, Royal Stuart Lane, Cardiff, CF10 5EL Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	816	-	318835 174538
306	Contemporary Trade Directory Entries Name: Duct Hygiene Projects Location: 1, Douglas Buildings, Royal Stuart Lane, Cardiff, CF10 5EL Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	816	-	318835 174539

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
306	Contemporary Trade Directory Entries Name: Morgan Abrasives & Industrial Supplies Location: Unit 4, Royal Stuart Workshops, Adelaide Place, Cardiff, CF10 5BR Classification: Abrasive Products - Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	830	-	318841 174559
306	Contemporary Trade Directory Entries Name: Ampersand Glass Location: Unit 12/13, Royal Stuart Workshops, Adelaide Place, Cardiff, South Glamorgan, CF10 5BR Classification: Glass Engravers & Decorators Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	830	-	318841 174559
306	Contemporary Trade Directory Entries Name: Redcraft Ltd Location: Cardiff, CF10 5BR Classification: Glass Engravers & Decorators Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	830	-	318841 174559
307	Contemporary Trade Directory Entries Name: E P O S Systems Location: 37, Judkin Court, Heol Tredwen, Cardiff, CF10 5AU Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	798	-	318708 174713
308	Contemporary Trade Directory Entries Name: Consortia Group Location: 6, Stadium Close, Cardiff, CF11 8TS Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	800	-	317072 174127
308	Contemporary Trade Directory Entries Name: The Cardiff Appliance Warehouse Ltd Location: 4, Stadium Close, Cardiff, CF11 8TS Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	820	-	317053 174148
308	Contemporary Trade Directory Entries Name: Uk Frozen Foods Ltd Location: 1a Stadium Clo, Cardiff, South Glamorgan, CF11 8TS Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	846	-	317026 174114
309	Contemporary Trade Directory Entries Name: J B S Electric Motors & Controls Location: 10, Bargoed Street, Cardiff, CF11 7AF Classification: Electric Motor Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	802	-	318071 175014
310	Contemporary Trade Directory Entries Name: R M D Kwik Form Ltd Location: Penarth Road, Cardiff, South Glamorgan, CF11 8UP Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	807	-	317086 174303
311	Contemporary Trade Directory Entries Name: Metpro Wales Location: 7-8, Stuart Close, Cardiff, CF11 8QF Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	813	-	317071 173982
312	Contemporary Trade Directory Entries Name: Hazelwood Joinery Ltd Location: Hazelwood Ho, Penhevad St, Cardiff, South Glamorgan, CF11 7LT Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18NW (N)	816	-	317786 174971

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
313	Contemporary Trade Directory Entries Name: Westco Location: 307, Penarth Road, Cardiff, CF11 8YN Classification: Floorcoverings - Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	817	-	317061 174220
314	Contemporary Trade Directory Entries Name: Culver Cardiff Ltd Location: Penarth Rd, Cardiff, South Glamorgan, CF11 8TT Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	823	-	317214 174617
314	Contemporary Trade Directory Entries Name: Drainage Systems (Cardiff) Ltd Location: Penarth Rd, Cardiff, South Glamorgan, CF11 8TT Classification: Builders' Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	828	-	317226 174640
315	Contemporary Trade Directory Entries Name: Castell Gwyn Location: 45, Grangemoor Court, Cardiff, CF11 0AH Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	824	-	317396 173245
315	Contemporary Trade Directory Entries Name: Castell Gwyn Location: 45, Grangemoor Court, Cardiff, CF11 0AH Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	824	-	317396 173245
316	Contemporary Trade Directory Entries Name: Kingsmaid Location: Penstone Ct, Chandlery Way, Cardiff, South Glamorgan, CF10 5NL Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19NW (NE)	825	-	318618 174842
317	Contemporary Trade Directory Entries Name: Poeton Location: 283, Penarth Road, Cardiff, CF11 8UL Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	826	-	317360 174772
318	Contemporary Trade Directory Entries Name: Best Choice Tyres Location: 50, Clive Street, Cardiff, CF11 7JD Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	834	-	317542 174892
318	Contemporary Trade Directory Entries Name: Phat Tyres Location: Rear of, 50 Clive St, Cardiff, South Glamorgan, CF11 7JD Classification: Tyre Dealers Status: Inactive Positional Accuracy: Manually positioned to an adjacent address or location	A17NE (NW)	834	-	317542 174892
319	Contemporary Trade Directory Entries Name: S C Circuits Ltd Location: 4, Stuart Close, Cardiff, CF11 8QF Classification: Printed Circuit Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	858	-	317022 174012
320	Contemporary Trade Directory Entries Name: Taylor Motor Services Location: 82a, Stockland Street, Cardiff, CF11 7LX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	863	-	317861 175045
320	Contemporary Trade Directory Entries Name: J McCarthy Motor Services Location: 82a, Stockland Street, Cardiff, CF11 7LX Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	863	-	317861 175045

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
320	Contemporary Trade Directory Entries Name: Taylor Motor Services Location: 82a, Stockland Street, Cardiff, South Glamorgan, CF11 7LX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	863	-	317861 175045
320	Contemporary Trade Directory Entries Name: Clarence Hardware Location: 64, Corporation Road, CARDIFF, CF11 7AW Classification: Hardware Status: Active Positional Accuracy: Automatically positioned to the address	A23SW (N)	868	-	317890 175057
321	Contemporary Trade Directory Entries Name: Cardiff Heating Repairs Location: 79, Overstone Court, Cardiff, CF10 5NT Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	866	-	318484 174981
322	Contemporary Trade Directory Entries Name: Stratstone Land Rover Location: 232, Penarth Road, Cardiff, CF11 8LR Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	870	-	317116 174552
323	Contemporary Trade Directory Entries Name: Cardiff Honda Location: 230, Penarth Road, Cardiff, CF11 8TU Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	887	-	317156 174646
324	Contemporary Trade Directory Entries Name: Kwik-Fit Location: Penarth Road, Cardiff, South Glamorgan, CF10 5DL Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	893	-	317404 174884
324	Contemporary Trade Directory Entries Name: Smits Autogas Ltd Location: Smits House, Penarth Rd, Cardiff, South Glamorgan, CF11 8TT Classification: Autogas Suppliers & Installers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17NE (NW)	920	-	317363 174890
324	Contemporary Trade Directory Entries Name: Williams Motor Co Location: 216, Penarth Road, Cardiff, CF11 8NN Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	960	-	317339 174923
324	Contemporary Trade Directory Entries Name: Williams Motor Co Location: 216, Penarth Road, Cardiff, CF11 8NN Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	962	-	317339 174924
325	Contemporary Trade Directory Entries Name: Utility Grid Installations Location: Mount Stuart House, Mount Stuart Square, Cardiff, South Glamorgan, CF10 5FQ Classification: Gas Companies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	905	-	318892 174625
326	Contemporary Trade Directory Entries Name: Bay Services Location: 61, Lynton Court, Chandlery Way, Cardiff, CF10 5NF Classification: Chemical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	913	-	318777 174810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
327	Contemporary Trade Directory Entries Name: Exhaust Tyres & Batteries Ltd Location: 271 Penarth Road, Cardiff, South Glamorgan, CF11 8TT Classification: Tyre Dealers Status: Active Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	915	-	317404 174911
327	Contemporary Trade Directory Entries Name: S G M Towing Location: 275, Penarth Road, Cardiff, CF11 8TT Classification: Trailers & Towing Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	923	-	317416 174927
327	Contemporary Trade Directory Entries Name: Williams Motor Co Location: 216 Penarth Rd, Cardiff, South Glamorgan, CF11 8NN Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17NE (NW)	928	-	317372 174906
327	Contemporary Trade Directory Entries Name: Hss Lift & Shift Location: 265-273, Penarth Road, Cardiff, CF11 8TT Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	931	-	317412 174935
327	Contemporary Trade Directory Entries Name: Hss Lift & Shift Location: 265-273, Penarth Road, Cardiff, CF11 8TT Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	931	-	317412 174935
328	Contemporary Trade Directory Entries Name: Woodhead R S R Ltd Location: Unit 1a, Stuart Close, Cardiff, CF11 8QF Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A11SE (W)	920	-	316957 174032
328	Contemporary Trade Directory Entries Name: Intertruck Location: Unit 1A, Stuart Close, Cardiff, CF11 8QF Classification: Car Radiator Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A11SE (W)	920	-	316957 174032
329	Contemporary Trade Directory Entries Name: Door Maintenance Co Ltd Location: Unit 7/8, Curran Road, Cardiff, CF10 5DF Classification: Door Manufacturers - Industrial Status: Active Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105
329	Contemporary Trade Directory Entries Name: Britalia Door Products Ltd Location: Unit 8, Curran Road, Cardiff, CF10 5DF Classification: Door Manufacturers - Industrial Status: Active Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105
329	Contemporary Trade Directory Entries Name: Tema Engineering Location: Unit 14-15, Curran Buildings, Curran Road, Cardiff, CF10 5DF Classification: Industrial Services Status: Active Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105
329	Contemporary Trade Directory Entries Name: Blastpride Ltd Location: Unit 7/9, Curran Buildings, Curran Road, Cardiff, CF10 5NE Classification: Blast Cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105
329	Contemporary Trade Directory Entries Name: Blastpride Holdings Ltd Location: Unit 7/9, Curran Buildings, Curran Road, Cardiff, CF10 5NE Classification: Blast Cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
329	Contemporary Trade Directory Entries Name: A B C Dismantlers Location: Curran Road, Cardiff, South Glamorgan, CF10 5DF Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105
329	Contemporary Trade Directory Entries Name: Advanced Powder Coatings Ltd Location: Unit 7/9, Curran Buildings, Curran Road, Cardiff, CF10 5NE Classification: Powder Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105
329	Contemporary Trade Directory Entries Name: A E Knill & Co Ltd Location: Unit 7, Curran Road, Cardiff, CF10 5DF Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	927	-	318335 175105
329	Contemporary Trade Directory Entries Name: Alliance Powder Coatings Location: Unit 7k Curran rd, Cardiff, South Glamorgan, CF10 5DF Classification: Powder Coatings Status: Active Positional Accuracy: Manually positioned to the address or location	A24SW (N)	927	-	318335 175105
330	Contemporary Trade Directory Entries Name: Woodpecker Products Ltd Location: 9, Curran Embankment, Cardiff, CF10 5FX Classification: Sawdust & Shavings Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	933	-	318230 175134
330	Contemporary Trade Directory Entries Name: Cardiff Arms Salvage Location: 9, Curran Embankment, Cardiff, South Glamorgan, CF10 5FX Classification: Salvage Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	933	-	318230 175134
331	Contemporary Trade Directory Entries Name: Madol Location: 36, Corporation Road, Cardiff, CF11 7AU Classification: Window Tinting Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SW (N)	937	-	317821 175111
332	Contemporary Trade Directory Entries Name: C & N Automotive Trade Location: Unit 20, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	944	-	316961 174369
332	Contemporary Trade Directory Entries Name: Core Engineering Ltd Location: Unit 18/A, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Sheet Metal Work Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	944	-	316961 174369
332	Contemporary Trade Directory Entries Name: C I V S Location: Unit 17a, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A16SE (W)	953	-	316966 174418
332	Contemporary Trade Directory Entries Name: C I V S Location: Unit 17a, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A16SE (W)	953	-	316966 174418
333	Contemporary Trade Directory Entries Name: Arc (Uk) Ltd Location: 1100, Roma, Victoria Wharf, Watkiss Way, Cardiff, CF11 0SJ Classification: Chemicals & Allied Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	945	-	317472 173043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
334	Contemporary Trade Directory Entries Name: C3 Imaging (Cardiff) Ltd Location: Unit 10, Stuart Close, Cardiff, South Glamorgan, CF11 8QF Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11SE (W)	948	-	316937 173971
335	Contemporary Trade Directory Entries Name: Finebran Ltd Location: Unit 5/6, Curran Road, Cardiff, CF10 5DF Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	951	-	318435 175097
335	Contemporary Trade Directory Entries Name: A W T Engineering Ltd Location: Unit 7A, Curran Road, Cardiff, CF10 5DF Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	951	-	318435 175097
335	Contemporary Trade Directory Entries Name: Taylor Products Ltd Location: Unit 5, Curran Road, Cardiff, South Glamorgan, CF10 5DF Classification: Heating Equipment - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	951	-	318435 175097
335	Contemporary Trade Directory Entries Name: Mouldings Ltd Location: Unit 6, Curran Road, Cardiff, South Glamorgan, CF10 5DF Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A24SW (N)	952	-	318435 175097
336	Contemporary Trade Directory Entries Name: D & G Autos Location: 10, Clive Street, Cardiff, CF11 7JB Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	956	-	317505 175009
337	Contemporary Trade Directory Entries Name: Nathaniel Mg Cardiff Showroom Location: 218 Penarth Road, Cardiff, South Glamorgan, CF11 8NN Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A17NW (NW)	956	-	317304 174892
338	Contemporary Trade Directory Entries Name: Top Bannana Computers Location: Stuart St, Cardiff, South Glamorgan, CF10 5BW Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A20SW (E)	960	-	319027 174411
339	Contemporary Trade Directory Entries Name: General Engineering Services Location: 244, Penarth Road, Cardiff, CF11 8TU Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	964	-	316908 174124
340	Contemporary Trade Directory Entries Name: Gallaher Location: 236, Penarth Road, Cardiff, CF11 8JF Classification: Tobacco Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	965	-	316921 174285
340	Contemporary Trade Directory Entries Name: Warmfront Fires Location: Unit C, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Fireplaces & Mantelpieces Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	968	-	316916 174267
341	Contemporary Trade Directory Entries Name: Royal Pharmaceutical Society Of Great Britain Location: 14, Mount Stuart Square, Cardiff, South Glamorgan, CF10 5DP Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	966	-	318957 174633

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
342	Contemporary Trade Directory Entries Name: Hosking Accident Repair Centre Location: Unit 5 Hoskin Industrial Estate, Dumballs Road, Cardiff, South Glamorgan, CF10 5FG Classification: Commercial Vehicle Bodybuilders & Repairers Status: Active Positional Accuracy: Automatically positioned to the address	A19NE (NE)	967	-	318827 174834
342	Contemporary Trade Directory Entries Name: Thomas Hosking Ltd Location: Thomas Hosking & Sons Ltd Unit 4, Dumballs Road Industrial Estate, Dumballs Road, Cardiff, CF10 5FG Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	975	-	318836 174835
343	Contemporary Trade Directory Entries Name: A M T Marine & Industrial Engineering Ltd Location: Unit 10, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Marine Engineering Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	971	-	316926 174339
343	Contemporary Trade Directory Entries Name: Robert Smith Jks (Penarth) Ltd Location: Unit 11, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	981	-	316916 174343
343	Contemporary Trade Directory Entries Name: E Cars Uk Location: Unit 11, Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	981	-	316916 174343
344	Contemporary Trade Directory Entries Name: Cardiff Motor Co Location: Unit D3, West Point Industrial Estate, Penarth Road, Cardiff, CF11 8JQ Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	985	-	317013 173538
345	Contemporary Trade Directory Entries Name: Johnstone'S Location: Unit 5 Hadfield Rd, Cardiff, South Glamorgan, CF11 8AQ Classification: Painting & Decorating Supplies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	990	-	317030 174644
346	Contemporary Trade Directory Entries Name: Morgan Lewis Location: 539, Ravenswood, Victoria Wharf, Watkiss Way, Cardiff, CF11 0SD Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A2NE (S)	996	-	317589 172930
347	Contemporary Trade Directory Entries Name: Aa Service Centre Location: 214, Penarth Road, Cardiff, CF11 8NN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	998	-	317323 174957
348	Fuel Station Entries Name: Asda Cardiff Bay Location: Ferry Road, Grangetown, Cardiff, Cardiff, CF11 0JL Brand: ASDA Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	403	-	317632 173605
349	Fuel Station Entries Name: Mfg Cardiff Bay Location: 235, Corporation Road, Grangetown, Cardiff, Cardiff, CF11 7AS Brand: Esso Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A19NW (NE)	633	-	318464 174720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
350	Fuel Station Entries Name: Grange Service Station Location: 91-97, Clive Street St Fagans Street, Grangetown , Cardiff, Cardiff, CF11 7HN Brand: MURCO Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	664	-	317638 174747
351	Fuel Station Entries Name: Morrisons Penarth Location: International Drive , International Sports Village , Cardiff, Cardiff, CF11 0SP Brand: Morrisons Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A8SW (S)	673	-	317834 173196
352	Fuel Station Entries Name: Abbey Garages Cardiff Location: 281, Penarth Road , Grangetown , Cardiff, Cardiff, CF11 8YZ Brand: Unbranded Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	865	-	317348 174812
353	Points of Interest - Commercial Services Name: Denim Master Ltd Location: 151 Ffordd James McGhan, Cardiff, CF11 7JU Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A13SW (W)	159	11	317739 174026
354	Points of Interest - Commercial Services Name: Arc Carwash & Valeting Centre Location: Unit 1g Cardiff Bay Retail Park, Ferry Road, Cardiff, CF11 0JR Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SW (W)	240	11	317677 173951
355	Points of Interest - Commercial Services Name: Auto Care Location: Unit 2 Windsor Buildings, Ferry Road, Cardiff, CF11 0JL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	248	11	317718 174318
355	Points of Interest - Commercial Services Name: Autocare Accident & Service Centre Location: Unit 2 Windsor Buildings, Ferry Road, Cardiff, CF11 0JL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	248	11	317718 174318
356	Points of Interest - Commercial Services Name: Asda Cardiff Bay Location: Ferry Road, Grangetown, Cardiff, CF11 0JL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	399	11	317664 173577
356	Points of Interest - Commercial Services Name: Car Wash Location: Ferry Road, Grangetown, Cardiff, South Glamorgan, CF11 0JL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	399	11	317664 173577
356	Points of Interest - Commercial Services Name: IMO - arc Clean Car Centres Location: Cardiff Bay Retail Park, Ferry Road, Cardiff, CF11 0JR Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	404	11	317663 173571
357	Points of Interest - Commercial Services Name: D M Motor Repairs Location: Rear Of 176, Clive Street, Cardiff, CF11 7JG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	449	11	317632 174503

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
357	Points of Interest - Commercial Services Name: D M Motor Repairs Location: Rear of 176, Clive Street, Cardiff, CF11 7JG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	449	11	317632 174503
358	Points of Interest - Commercial Services Name: C J Autos Location: 128 Clive Street, Cardiff, CF11 7JE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	596	11	317609 174660
359	Points of Interest - Commercial Services Name: Mfg Cardiff Bay Location: 235 Corporation Road, Cardiff, CF11 7AS Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19NW (NE)	633	11	318464 174720
359	Points of Interest - Commercial Services Name: Car Wash Location: 235 Corporation Road, Cardiff, CF11 7AS Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19NW (NE)	633	11	318464 174720
360	Points of Interest - Commercial Services Name: M G P Motors Location: 25 St. Fagans Street, Cardiff, CF11 7LG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	668	11	317638 174752
360	Points of Interest - Commercial Services Name: Grange Service Station Location: 91-97 Clive Street, Cardiff, CF11 7HN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	668	11	317638 174752
360	Points of Interest - Commercial Services Name: M G P Motors Location: 25 St. Fagans Street, Cardiff, CF11 7LG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	668	11	317638 174752
360	Points of Interest - Commercial Services Name: Grange Service Station Location: 91-97 Clive Street, Cardiff, CF11 7HN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	668	11	317638 174752
360	Points of Interest - Commercial Services Name: Springers Location: 7 Llanmaes Street, Cardiff, CF11 7LQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (NW)	716	11	317658 174811
361	Points of Interest - Commercial Services Name: Car Wash Location: International Drive, Cardiff, CF11 0JP Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SW (S)	673	11	317834 173196
361	Points of Interest - Commercial Services Name: Morrisons Penarth Location: International Drive, Cardiff, CF11 0JP Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SW (S)	696	11	317839 173172
362	Points of Interest - Commercial Services Name: Vehicle Repairs & Services & Body Repairs Location: Unit 3a Gulf Works, Penarth Road, Cardiff, CF11 8TT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	718	11	317282 174532

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
363	Points of Interest - Commercial Services Name: Exeldent Location: 6 Grangemoor Court, Cardiff, CF11 0AR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	759	11	317418 173314
364	Points of Interest - Commercial Services Name: Carshop Megastore Ltd Location: Penarth Road, Cardiff, CF11 8TT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	765	11	317144 174357
365	Points of Interest - Commercial Services Name: Fordthorne Location: Penarth Road, Cardiff, CF11 8YZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	792	11	317416 174772
366	Points of Interest - Commercial Services Name: Assembly Auto Repairs Location: 2 Harrowby Street, Cardiff, CF10 5GA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	793	11	318795 174568
367	Points of Interest - Commercial Services Name: E M S Services Location: 6 Stadium Close, Cardiff, CF11 8TS Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12NW (W)	800	11	317072 174127
367	Points of Interest - Commercial Services Name: Reactive Integrated Services Location: 6 Stadium Close, Cardiff, CF11 8TS Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12NW (W)	800	11	317072 174126
367	Points of Interest - Commercial Services Name: Pectel Location: 6 Stadium Close, Cardiff, CF11 8TS Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12NW (W)	800	11	317072 174127
368	Points of Interest - Commercial Services Name: Taylor Motor Services Location: 82a Stockland Street, Cardiff, CF11 7LX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	863	11	317861 175045
368	Points of Interest - Commercial Services Name: Taylor Motor Services Location: 82a Stockland Street, Cardiff, CF11 7LX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	863	11	317861 175045
369	Points of Interest - Commercial Services Name: Kwik-Fit (GB) Limited Location: Penarth Road, Cardiff, CF10 5DL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	893	11	317403 174884
369	Points of Interest - Commercial Services Name: Exhaust Tyres & Batteries Location: 277 Penarth Road, Cardiff, South Glamorgan, CF11 8TT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	893	11	317405 174886
369	Points of Interest - Commercial Services Name: Kwik-Fit (GB) Limited Location: Penarth Road, Cardiff, CF10 5DL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	893	11	317404 174884

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
370	Points of Interest - Commercial Services Name: Cardiff Car Detailing Location: Unit B1 Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SW (W)	913	11	317004 174404
370	Points of Interest - Commercial Services Name: Flat Out Alloys Location: Unit 19 Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SW (NW)	946	11	316997 174483
370	Points of Interest - Commercial Services Name: C I V S Location: Unit 17a Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A16SE (W)	953	11	316966 174418
370	Points of Interest - Commercial Services Name: C I V S Location: Unit 17a Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A16SE (W)	953	11	316966 174418
371	Points of Interest - Commercial Services Name: Woodhead R S R Ltd Location: Unit 1A, Stuart Close, Cardiff, CF11 8QF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11SE (W)	920	11	316957 174032
371	Points of Interest - Commercial Services Name: Serck Intertruck Location: Unit 1A, Stuart Close, Cardiff, CF11 8QF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11SE (W)	920	11	316957 174032
371	Points of Interest - Commercial Services Name: Intertruck Location: Unit 1A, Stuart Close, Cardiff, CF11 8QF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11SE (W)	920	11	316957 174032
371	Points of Interest - Commercial Services Name: Inter Truck Location: Unit 1a, Stuart Close, Cardiff, CF11 8QF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11SE (W)	920	11	316957 174032
372	Points of Interest - Commercial Services Name: S G M Towing Location: 275 Penarth Road, Cardiff, CF11 8TT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	923	11	317416 174927
372	Points of Interest - Commercial Services Name: J & P Autos Location: 206a Penarth Road, Cardiff, CF11 6NN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	988	11	317414 175001
372	Points of Interest - Commercial Services Name: J & P Autos Location: 206a Penarth Road, Cardiff, CF11 6NN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	988	11	317414 175001
372	Points of Interest - Commercial Services Name: J & P Autos Ltd Location: 206a Penarth Road, Cardiff, CF11 6NN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	988	11	317414 175000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
373	Points of Interest - Commercial Services Name: Cardiff Arms Salvage Location: 9 Curran Embankment, Cardiff, CF10 5FX Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A23SE (N)	933	11	318230 175134
373	Points of Interest - Commercial Services Name: Cardiff Arms Salvage Location: 9 Curran Embankment, Cardiff, CF10 5FX Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A23SE (N)	933	11	318230 175134
374	Points of Interest - Commercial Services Name: Cardiff Mini Centre Location: Unit 11 Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11NE (W)	944	11	316961 174369
374	Points of Interest - Commercial Services Name: Kusten Vorland Location: Unit 7 Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A11NE (W)	945	11	316960 174369
374	Points of Interest - Commercial Services Name: Core Engineering Ltd Location: Unit 18/A Freemans Parc, Penarth Road, Cardiff, CF11 8EQ Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A11NE (W)	945	11	316960 174369
375	Points of Interest - Commercial Services Name: Finebran Ltd Location: Unit 5/6, Curran Road, Cardiff, CF10 5DF Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A24SW (N)	951	11	318435 175097
375	Points of Interest - Commercial Services Name: Finebran Ltd Location: Unit 5-6, Curran Road, Cardiff, CF10 5DF Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A24SW (N)	951	11	318435 175097
375	Points of Interest - Commercial Services Name: Cardiff Arms Environmental Services Ltd Location: Unit 7-8 Curran Road Industrial Estate, Curran Road, Cardiff, CF10 5DF Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A24SW (N)	951	11	318435 175096
376	Points of Interest - Education and Health Name: Nuffield Health Cardiff Bay Location: 1 Dunleavy Drive, Cardiff, CF11 0SN Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A7SE (SW)	684	11	317513 173330
377	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	252	11	317853 173625
378	Points of Interest - Manufacturing and Production Name: Philip Collins Location: 43 Ferry Road, Cardiff, CF11 7DW Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A18SW (NW)	277	11	317848 174414
378	Points of Interest - Manufacturing and Production Name: Philip Collins Stoneclad Location: 43 Ferry Road, Cardiff, CF11 7DW Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A18SW (NW)	278	11	317847 174414

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
378	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	330	11	317872 174483
379	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	393	11	317651 174449
379	Points of Interest - Manufacturing and Production Name: Works Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	393	11	317651 174449
379	Points of Interest - Manufacturing and Production Name: Apollo Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	409	11	317645 174464
379	Points of Interest - Manufacturing and Production Name: Works Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	409	11	317644 174464
380	Points of Interest - Manufacturing and Production Name: Tanks Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	517	11	318341 174661
380	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	542	11	318382 174666
381	Points of Interest - Manufacturing and Production Name: Gas Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	535	11	317349 174233
382	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	546	11	318007 173318
383	Points of Interest - Manufacturing and Production Name: Tanks Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	571	11	317316 173994
383	Points of Interest - Manufacturing and Production Name: Tanks Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	596	11	317287 174009
383	Points of Interest - Manufacturing and Production Name: Gas Works Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	645	11	317246 173970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
384	Points of Interest - Manufacturing and Production Name: Works Location: CF10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	675	11	318655 174577
384	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	676	11	318655 174578
385	Points of Interest - Manufacturing and Production Name: Business Centre Location: CF10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	686	11	318728 174457
386	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	700	11	317265 174472
386	Points of Interest - Manufacturing and Production Name: Works Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	700	11	317265 174472
386	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	706	11	317280 174508
386	Points of Interest - Manufacturing and Production Name: Works Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	709	11	317276 174507
387	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	720	11	317175 174302
388	Points of Interest - Manufacturing and Production Name: Tanks Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	749	11	317438 174734
388	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17NE (NW)	755	11	317431 174736
388	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17NE (NW)	757	11	317433 174740
388	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17NE (NW)	759	11	317434 174743

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
388	Points of Interest - Manufacturing and Production Name: Works Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	817	11	317371 174769
388	Points of Interest - Manufacturing and Production Name: Works Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	818	11	317427 174810
388	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	822	11	317421 174811
389	Points of Interest - Manufacturing and Production Name: Gulf Industrial Area Location: CF11 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	756	11	317277 174589
390	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	757	11	318679 174684
390	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	784	11	318730 174660
390	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	800	11	318730 174688
390	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	809	11	318733 174698
390	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	818	11	318735 174711
390	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	831	11	318739 174727
391	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	782	11	318793 174550
391	Points of Interest - Manufacturing and Production Name: Douglas Workshops Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	817	11	318837 174536

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
392	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	805	11	317068 174144
392	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	842	11	317030 174137
392	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	865	11	317009 174078
392	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	869	11	317005 174070
393	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	816	11	317321 174724
394	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NW (N)	844	11	318395 174997
394	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	886	11	318441 175024
395	Points of Interest - Manufacturing and Production Name: Tanks Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SW (W)	868	11	317056 174419
395	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (W)	900	11	317018 174406
395	Points of Interest - Manufacturing and Production Name: Factory Location: CF11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (W)	900	11	317018 174406
396	Points of Interest - Manufacturing and Production Name: Tank Location: CF10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A23SE (N)	897	11	318258 175092
396	Points of Interest - Manufacturing and Production Name: Tank Location: CF10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A23SE (N)	924	11	318256 175120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
397	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	903	11	318724 174851
398	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	937	11	317593 175023
398	Points of Interest - Manufacturing and Production Name: Tank Location: CF11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	941	11	317557 175013
399	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	959	11	318839 174806
399	Points of Interest - Manufacturing and Production Name: Hosking Industrial Estate Location: CF10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	981	11	318825 174858
399	Points of Interest - Manufacturing and Production Name: Hosking Industrial Estate Location: CF10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	989	11	318833 174861
400	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A24SW (N)	972	11	318412 175127
400	Points of Interest - Manufacturing and Production Name: Works Location: CF10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A24SW (N)	972	11	318412 175127
401	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A24SW (NE)	976	11	318567 175061
402	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A22SE (N)	999	11	317642 175112
403	Points of Interest - Manufacturing and Production Name: Tank Location: CF10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A23SE (N)	1000	11	318102 175212
404	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	225	11	317858 173653

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
405	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	323	11	317571 174239
406	Points of Interest - Public Infrastructure Name: Asda Cardiff Bay Location: Ferry Road, Grangetown, Cardiff, CF11 0JL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NW (SW)	399	11	317664 173577
406	Points of Interest - Public Infrastructure Name: Asda Petrol Location: Ferry Road Retail Park, Cardiff, CF11 0JR Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	403	11	317632 173605
406	Points of Interest - Public Infrastructure Name: Cardiff Bay Location: Cardiff Bay Retail Park, Ferry Road, Cardiff, CF11 0JR Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	406	11	317629 173605
406	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	453	11	317654 173512
407	Points of Interest - Public Infrastructure Name: Cardiff Bay Service Station Location: 235 Corporation Road, Cardiff, CF11 7AS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19NW (NE)	633	11	318464 174720
407	Points of Interest - Public Infrastructure Name: Esso Location: 235 Corporation Road, Cardiff, CF11 7AS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19NW (NE)	633	11	318464 174720
407	Points of Interest - Public Infrastructure Name: Esso Location: 235 Corporation Road, Cardiff, CF11 7AS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19NW (NE)	633	11	318464 174720
407	Points of Interest - Public Infrastructure Name: MRH Cardiff Bay Location: 235 Corporation Road, Cardiff, CF11 7AS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19NW (NE)	633	11	318464 174720
407	Points of Interest - Public Infrastructure Name: Cardiff Bay Service Station. Location: 235 Corporation Road, Cardiff, CF11 7AS Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19NW (NE)	634	11	318464 174720
408	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	638	11	318056 173231
409	Points of Interest - Public Infrastructure Name: Grange Service Station Location: 91-97 Clive Street, Cardiff, CF11 7HN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	668	11	317638 174752

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
410	Points of Interest - Public Infrastructure Name: Morrisons Location: International Drive, Cardiff, CF11 0JP Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (S)	673	11	317834 173196
410	Points of Interest - Public Infrastructure Name: Morrisons Petrol Station Location: International Sports Village, Cardiff Bay, Cardiff, CF11 0JP Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (S)	673	11	317834 173196
410	Points of Interest - Public Infrastructure Name: Morrisons Penarth Location: International, Drive, Cardiff, CF11 0JP Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (S)	673	11	317834 173196
411	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	682	11	317237 173868
411	Points of Interest - Public Infrastructure Name: Outfall Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	720	11	317190 173892
411	Points of Interest - Public Infrastructure Name: Outfall Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	724	11	317186 173893
412	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	691	11	318743 174432
412	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	698	11	318750 174432
413	Points of Interest - Public Infrastructure Name: Outfall Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	752	11	318461 174863
413	Points of Interest - Public Infrastructure Name: Outfall Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	754	11	318463 174865
414	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	774	11	318848 174360
415	Points of Interest - Public Infrastructure Name: Abbey Garages Cardiff Location: Penarth Road, Cardiff, CF11 8YZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	793	11	317416 174772

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
415	Points of Interest - Public Infrastructure Name: Abbey Garages Cardiff Location: Penarth Road, Cardiff, CF11 8YZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	865	11	317348 174812
415	Points of Interest - Public Infrastructure Name: Abbey Garages Cardiff Location: 281 Penarth Road, Cardiff, South Glamorgan, CF11 6NF Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	869	11	317342 174812
416	Points of Interest - Public Infrastructure Name: Consortia Group Location: 6 Stadium Close, Cardiff, CF11 8TS Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12NW (W)	800	11	317072 174127
417	Points of Interest - Public Infrastructure Name: Cardiff Bay Police Station Location: Bute Town Police Station, James Street, Cardiff, CF10 5EW Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A19SE (NE)	801	11	318776 174621
418	Points of Interest - Public Infrastructure Name: Outfall Location: CF10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	815	11	318409 174960
419	Points of Interest - Public Infrastructure Name: Recycling Business Location: CF10 Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A23SE (N)	876	11	318202 175080
420	Points of Interest - Public Infrastructure Name: Grangetown (Cardiff) Rail Station Location: Clive Lane, CF11 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A17NE (NW)	923	11	317458 174950
420	Points of Interest - Public Infrastructure Name: Grangetown Station Location: Clive Lane, CF11 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A17NE (NW)	923	11	317458 174950
421	Points of Interest - Public Infrastructure Name: Thomas Hosking Ltd Location: Thomas Hosking & Sons Ltd Unit 4 Dumballs Road Industrial Estate, Dumballs Road, Cardiff, CF10 5FG Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A19NE (NE)	975	11	318836 174835
422	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: CF11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	977	11	317961 172884
423	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	108	11	317868 174240
424	Points of Interest - Recreational and Environmental Name: Skate Ramp Location: Jim Driscoll Way, CF11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (N)	133	11	318052 174340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
425	Points of Interest - Recreational and Environmental Name: Play Area Location: Ferry Road, CF11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	200	11	318025 174402
425	Points of Interest - Recreational and Environmental Name: Grangetown Adventure Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	242	11	318059 174452
425	Points of Interest - Recreational and Environmental Name: Grangetown Adventure Playground Location: Ferry Road, CF11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18SE (N)	246	11	318052 174456
426	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	529	11	318595 174361
426	Points of Interest - Recreational and Environmental Name: Playground Location: Waverley Square, CF10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	558	11	318631 174338
427	Points of Interest - Recreational and Environmental Name: Play Area Location: Pentrebane Street, CF11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NW (N)	717	11	317952 174916
427	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	723	11	317953 174923
428	Points of Interest - Recreational and Environmental Name: Playground Location: Bute Esplanade, CF10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14NE (E)	776	11	318875 174254
428	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	778	11	318876 174258

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
429	Local Nature Reserves Name: Cardiff Bay Wetlands And Hamadryad Park Multiple Area: Y Area (m2): 42603.78 Source: Cardiff Council Designation Date: 31st December 2010	A13NE (E)	163	6	318278 174108
430	Local Nature Reserves Name: Cardiff Bay Wetlands And Hamadryad Park Multiple Area: Y Area (m2): 112910.45 Source: Cardiff Council Designation Date: 31st December 2010	A14SW (E)	481	6	318597 173882

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Cardiff Council - Pollution Control Division Vale Of Glamorgan County Borough Council - Environmental Health Department	January 2020 January 2020	Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 January 2020	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - Welsh Region Natural Resources Wales	January 2020 January 2020	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Vale Of Glamorgan County Borough Council - Environmental Health Department Cardiff Council - Pollution Control Division	June 2014 March 2016	Variable Variable
Local Authority Pollution Prevention and Controls Vale Of Glamorgan County Borough Council - Environmental Health Department Cardiff Council - Pollution Control Division	June 2014 March 2016	Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Vale Of Glamorgan County Borough Council - Environmental Health Department Cardiff Council - Pollution Control Division	June 2014 March 2016	Variable Variable
Nearest Surface Water Feature Ordnance Survey	February 2020	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable
Substantiated Pollution Incident Register Environment Agency Wales - South East Area Natural Resources Wales	January 2020 January 2020	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	January 2020 January 2020	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	January 2020 October 2017	Quarterly Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2019	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	November 2019	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area Natural Resources Wales	November 2019 November 2019	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	January 2020 January 2020	Quarterly Quarterly
Local Authority Landfill Coverage Cardiff Council Vale Of Glamorgan County Borough Council	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cardiff Council Vale Of Glamorgan County Borough Council	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Vale Of Glamorgan County Borough Council - Planning Department Cardiff Council - Regulatory Services	January 2016 October 2015	Variable Variable
Planning Hazardous Substance Consents Vale Of Glamorgan County Borough Council - Planning Department Cardiff Council - Regulatory Services	January 2016 October 2015	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	March 2020	Quarterly
Points of Interest - Education and Health PointX	March 2020	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2020	Quarterly
Points of Interest - Public Infrastructure PointX	March 2020	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2020	Quarterly
Underground Electrical Cables National Grid	October 2019	

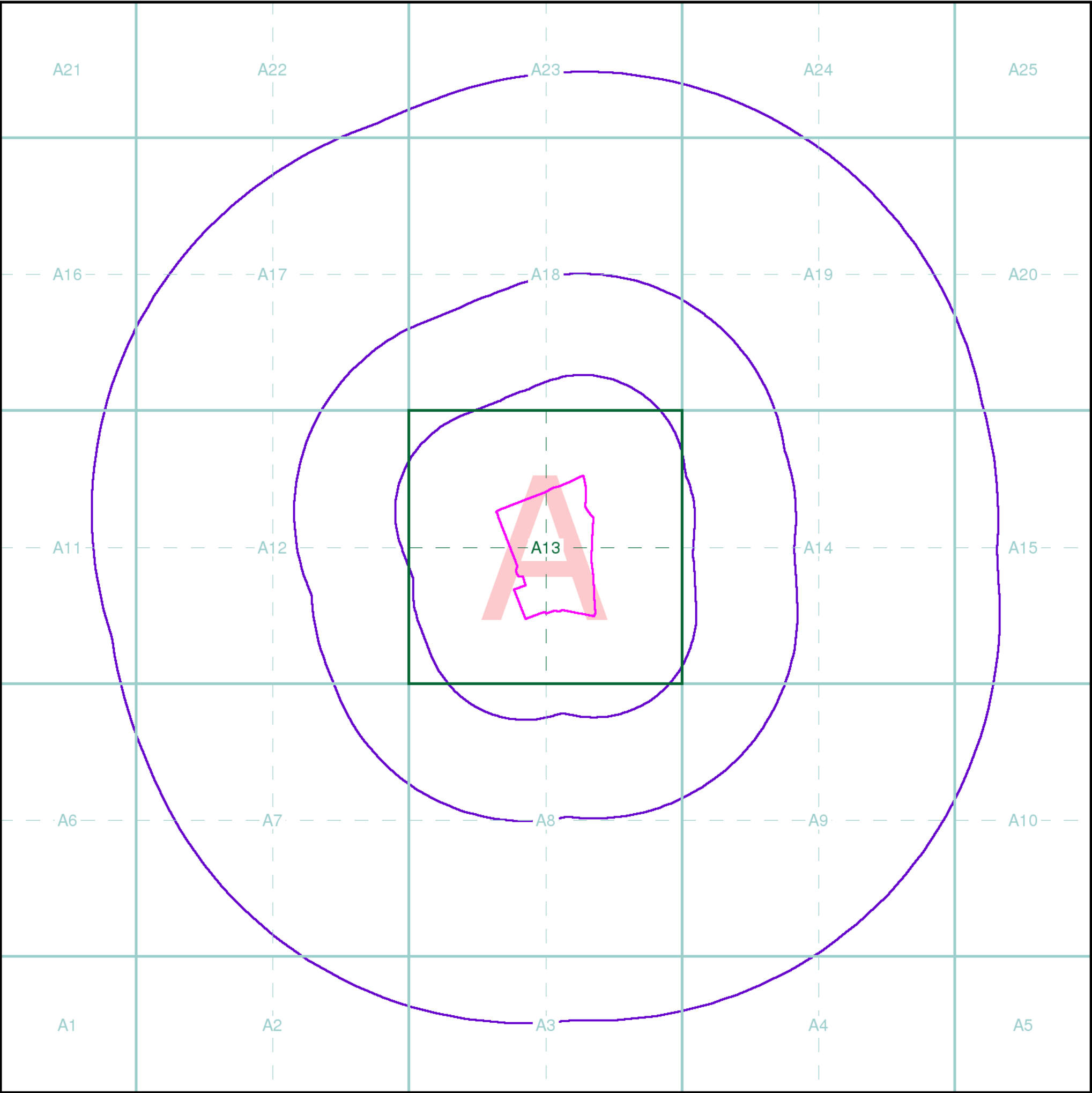
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Cardiff Council Vale Of Glamorgan County Borough Council	February 2020 February 2020	As notified As notified
Areas of Unadopted Green Belt Cardiff Council Vale Of Glamorgan County Borough Council	February 2020 February 2020	As notified As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Cardiff Council Vale Of Glamorgan County Borough Council	August 2018 August 2018	Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	June 2019	Bi-Annually
National Parks Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2019 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Cardiff Council - Pollution Control Division Regulatory Services, City Hall, Cardiff, Mid Glamorgan, CF10 3ND	Telephone: 029 20872000 Fax: 01222 873212 Website: www.cardiff.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Cardiff Council County Hall, Atlantic Wharf, Cardiff, Mid Glamorgan, CF1 5UW	Telephone: 029 2087 2000 Fax: 029 2087 3212 Website: www.cardiff.gov.uk
7	Vale Of Glamorgan County Borough Council Civic Offices, Holton Road, Barry, South Glamorgan, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
8	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	Cardiff Council - Regulatory Services Room 158, City Hall, Cardiff, Mid Glamorgan, CF10 3ND	Telephone: 029 20872429 Fax: 029 2087 2597 Website: www.cardiff.gov.uk
10	Vale Of Glamorgan County Borough Council - Planning Department Dock Offices, Barry Docks, Barry, South Glamorgan, CF63 4RT	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
11	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



Index Map

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

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

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

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr J Alderman, Terra Firma (Wales) Ltd, 5 Deryn Court, Wharfdale Road, Pentwyn, Cardiff, CF23 7HB

Order Details

Order Number: 240915480_1_1
Customer Ref: 16017 Channel View
National Grid Reference: 318010, 174030
Site Area (Ha): 6.01
Search Buffer (m): 1000

Site Details

, 125, Channel View Road, Cardiff, CF11 7HX

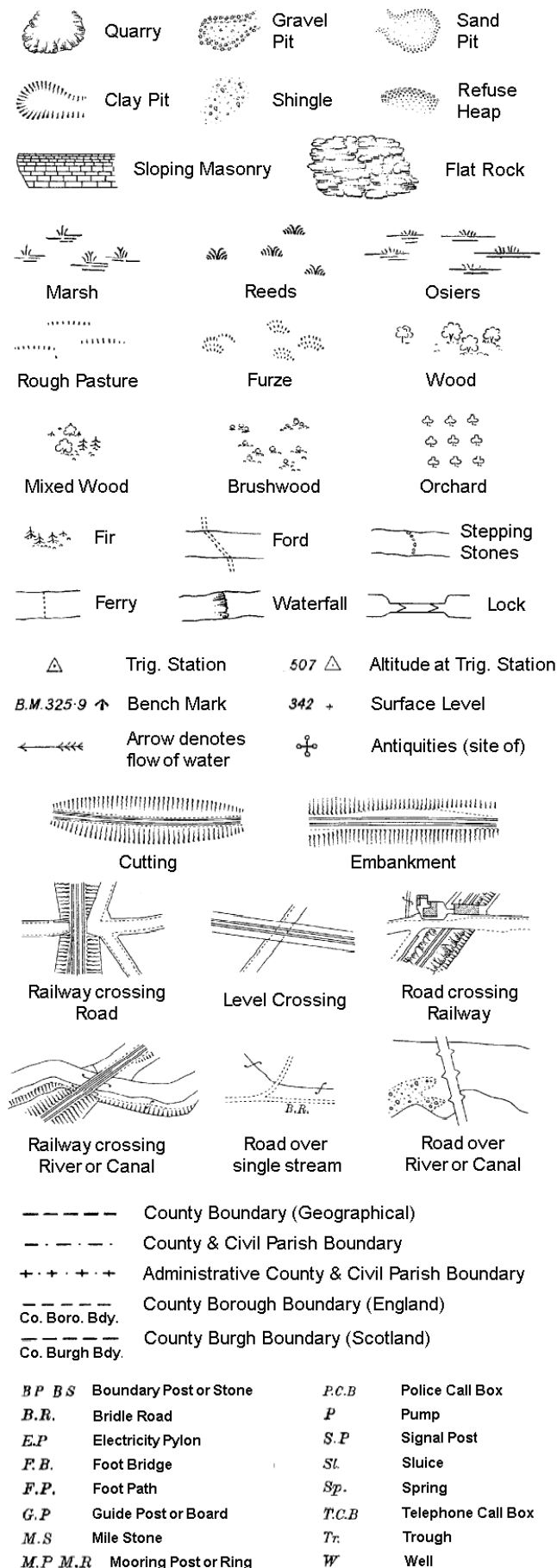
Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



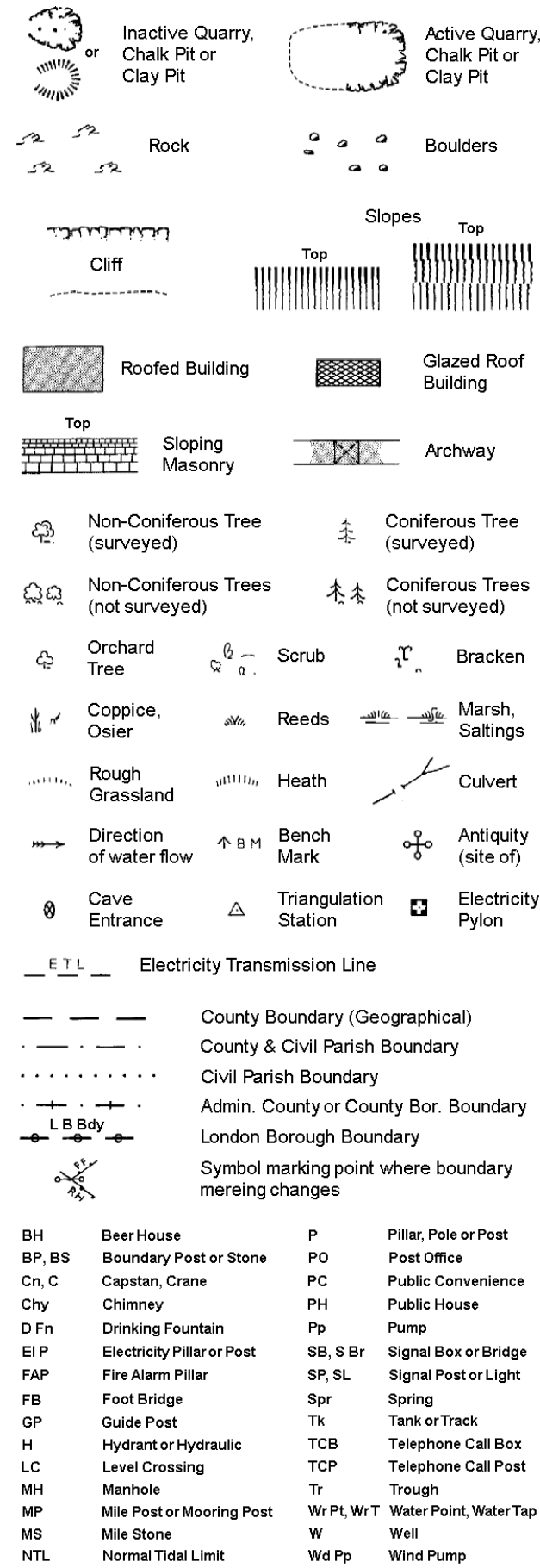
Tel: 0844 844 9952
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Web: www.envirocheck.co.uk

Historical Mapping Legends

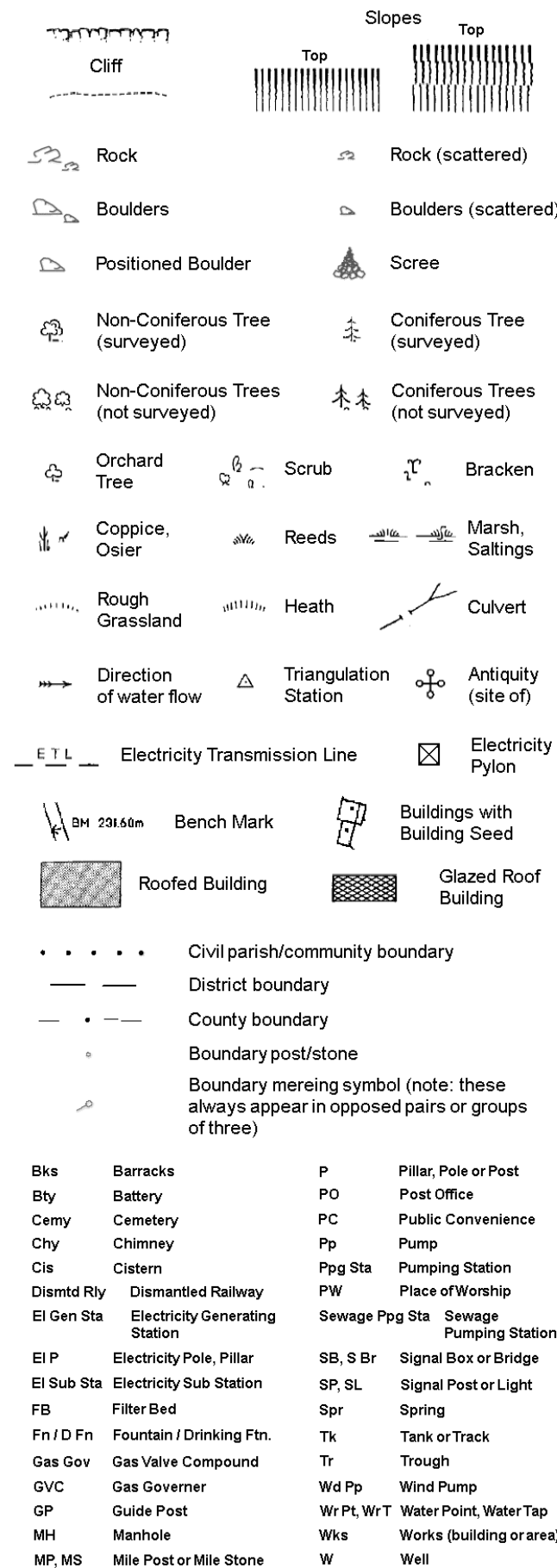
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



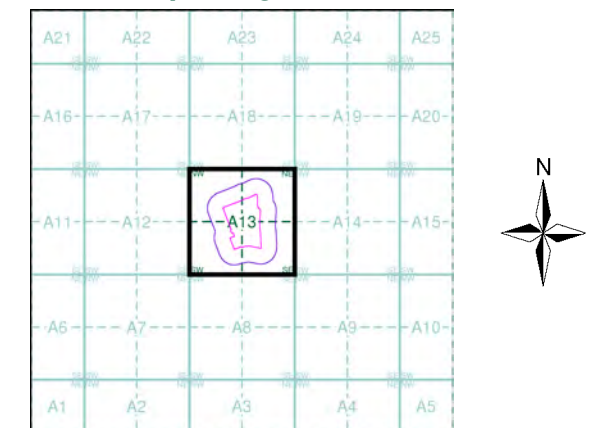
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1880	2
Glamorganshire	1:2,500	1901	3
Glamorganshire	1:2,500	1920	4
Glamorganshire	1:2,500	1941	5
Ordnance Survey Plan	1:1,250	1954	6
Ordnance Survey Plan	1:2,500	1954 - 1955	7
Ordnance Survey Plan	1:1,250	1969 - 1974	8
Ordnance Survey Plan	1:2,500	1970 - 1971	9
Additional SIMs	1:1,250	1972 - 1989	10
Ordnance Survey Plan	1:1,250	1974	11
Additional SIMs	1:1,250	1989	12
Large-Scale National Grid Data	1:1,250	1992	13
Additional SIMs	1:1,250	1992	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:1,250	1994	16
Large-Scale National Grid Data	1:1,250	1994	17
Large-Scale National Grid Data	1:1,250	1995	18
Large-Scale National Grid Data	1:1,250	1996	19
Historical Aerial Photography	1:2,500	2000	20

Historical Map - Segment A13



Order Details

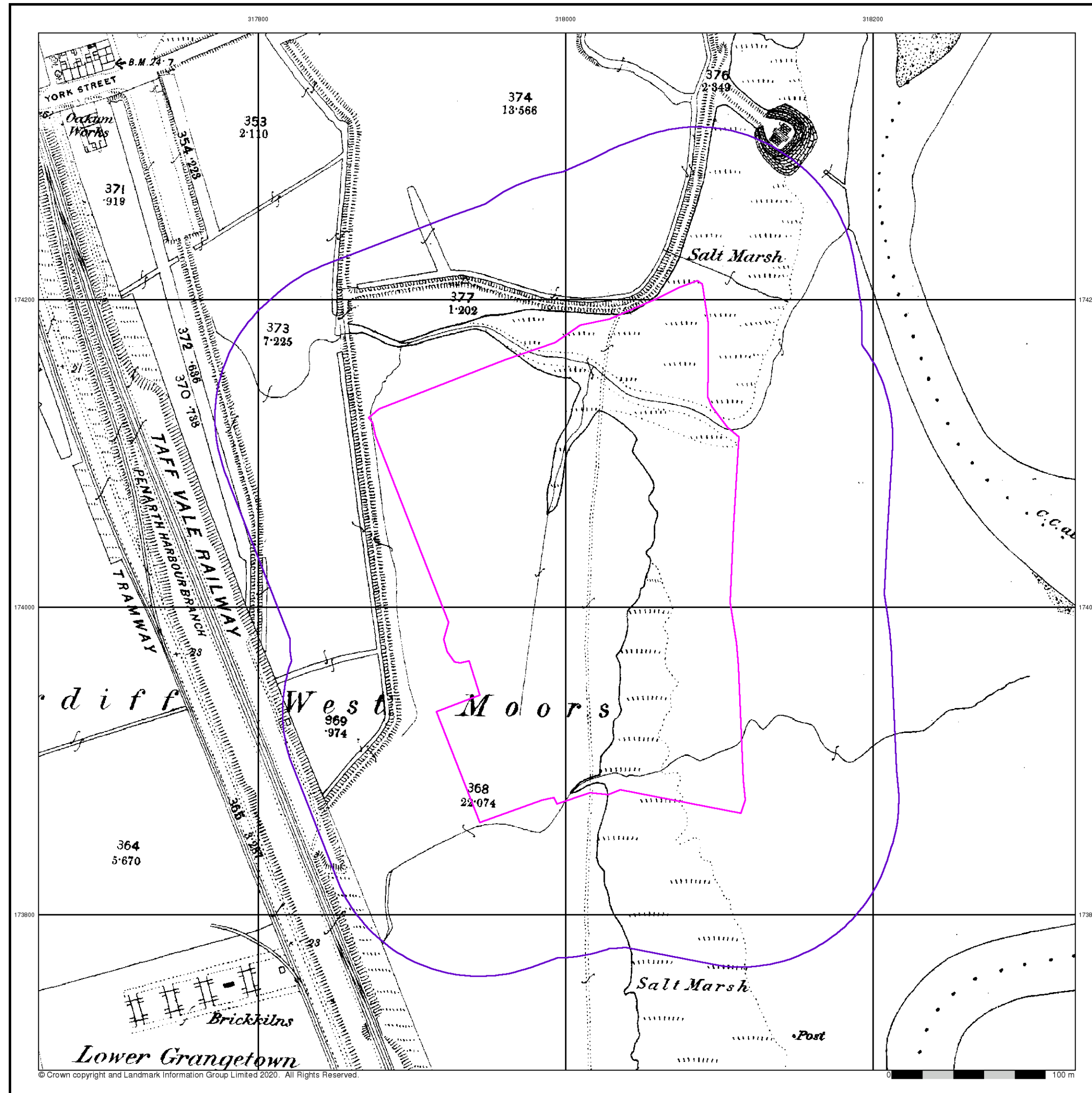
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National Grid Reference: 318010, 174030
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Site Area (Ha): 6.01
Search Buffer (m): 100

Site Details

, 125, Channel View Road, Cardiff, CF11 7HX



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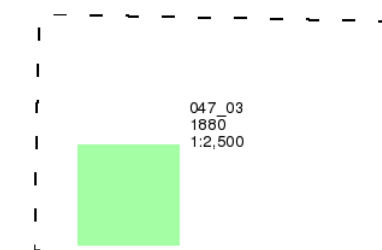
Glamorganshire

Published 1880

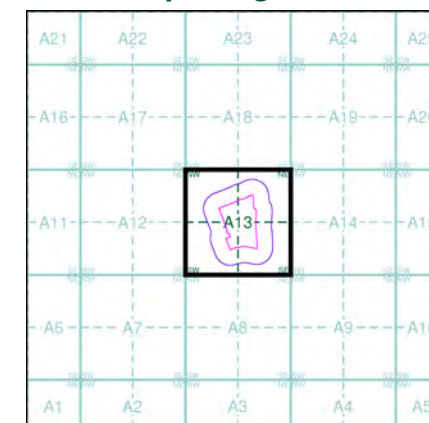
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

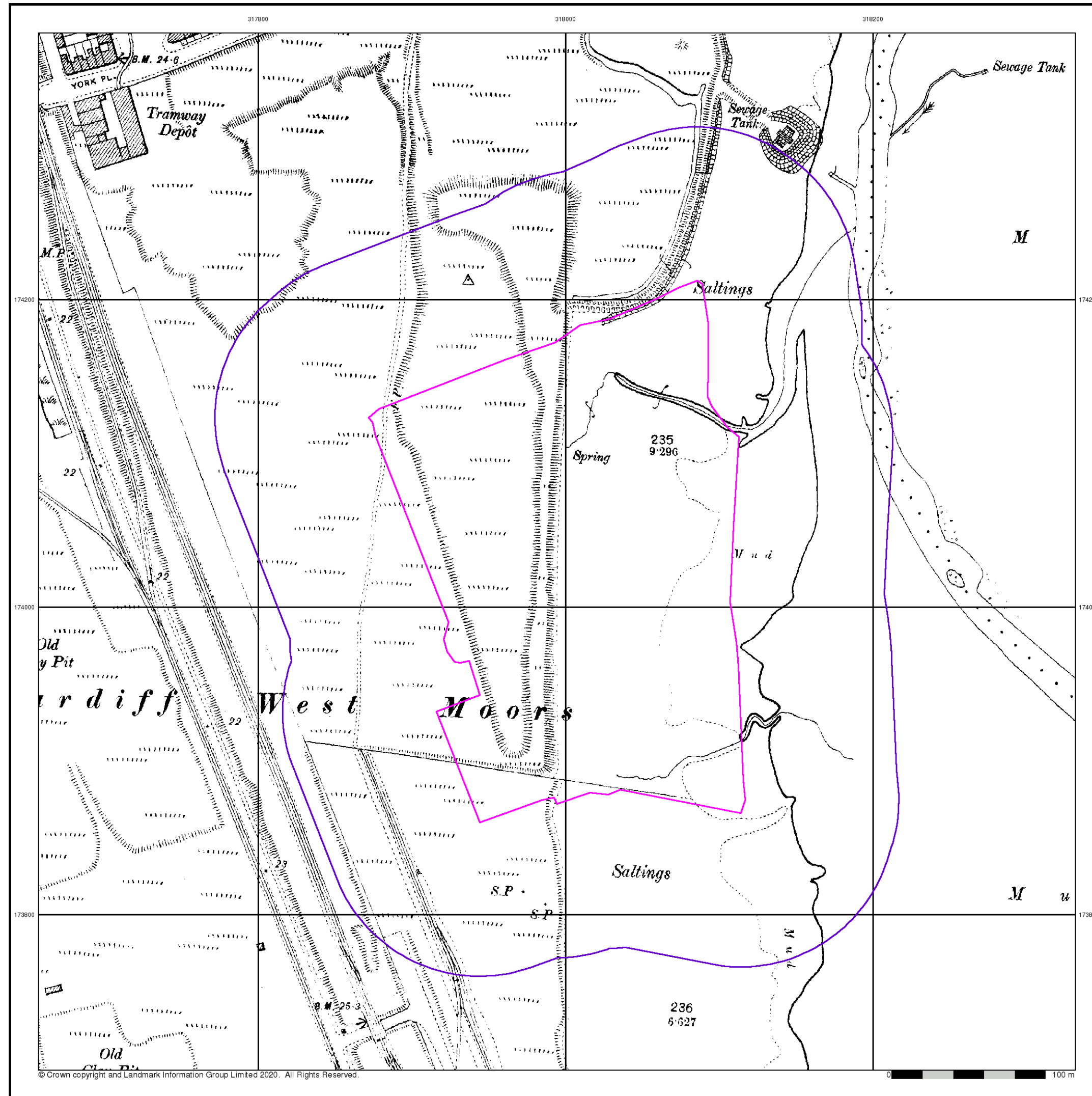
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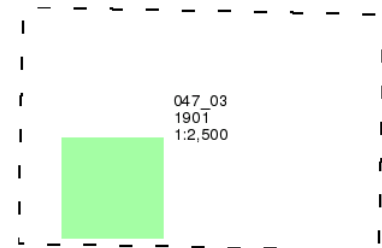
Glamorganshire

Published 1901

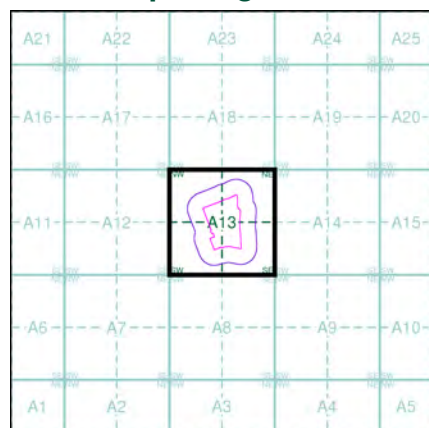
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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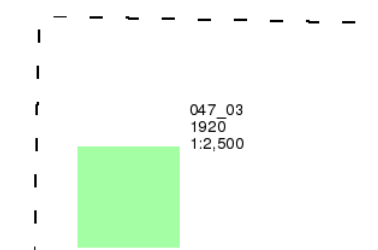
Glamorganshire

Published 1920

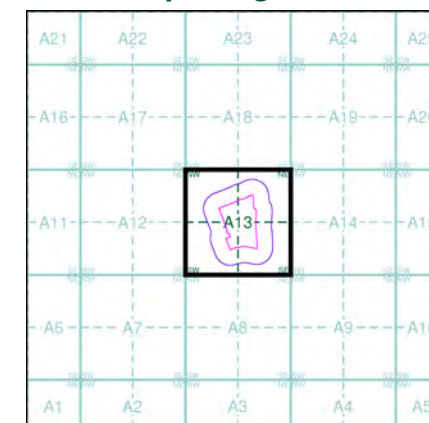
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

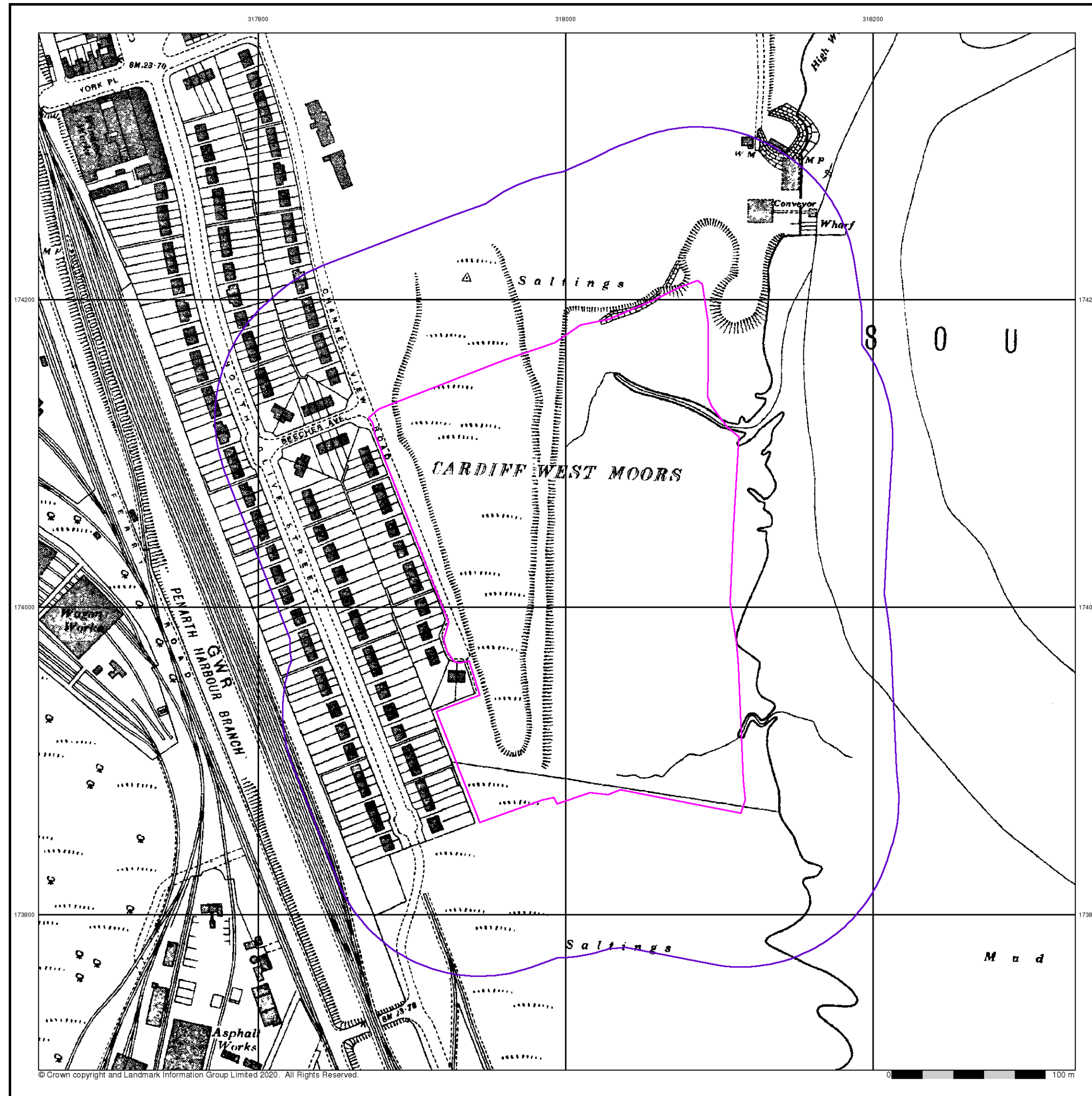
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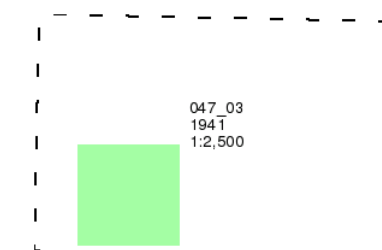
Glamorganshire

Published 1941

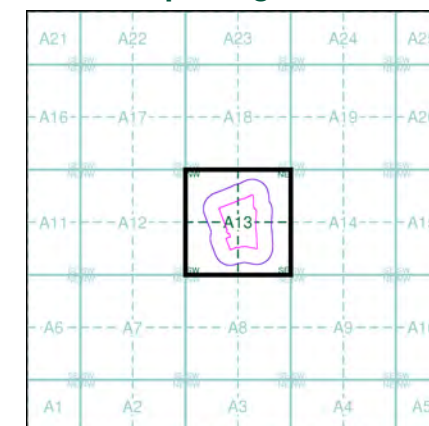
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

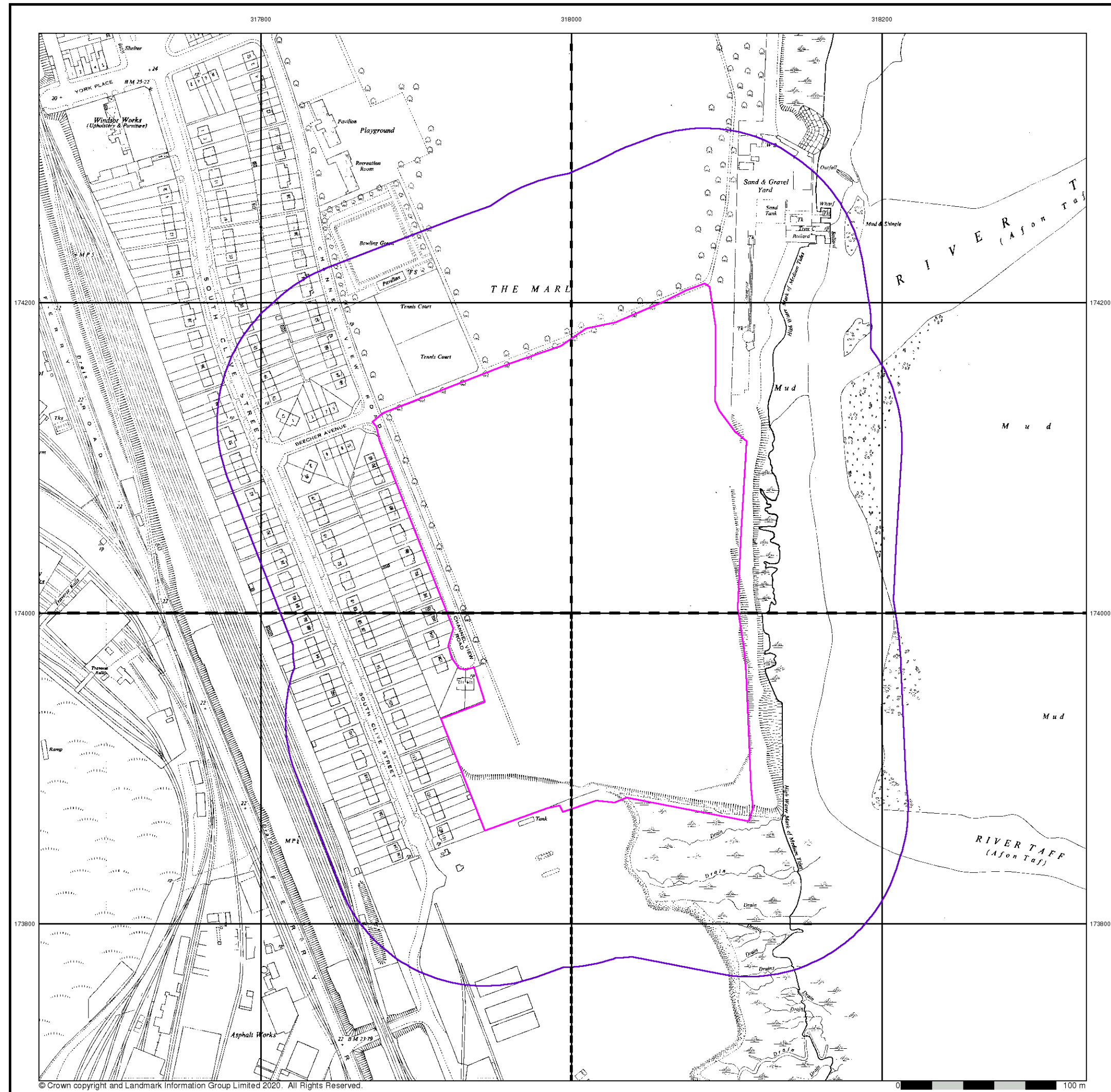
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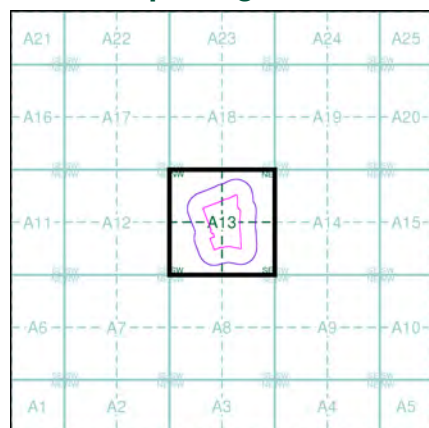
Ordnance Survey Plan
Published 1954
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

ST1774SE 1954 1:1,250	ST1874SW 1954 1:1,250
ST1773NE 1954 1:1,250	ST1873NW 1954 1:1,250

Historical Map - Segment A13



Order Details

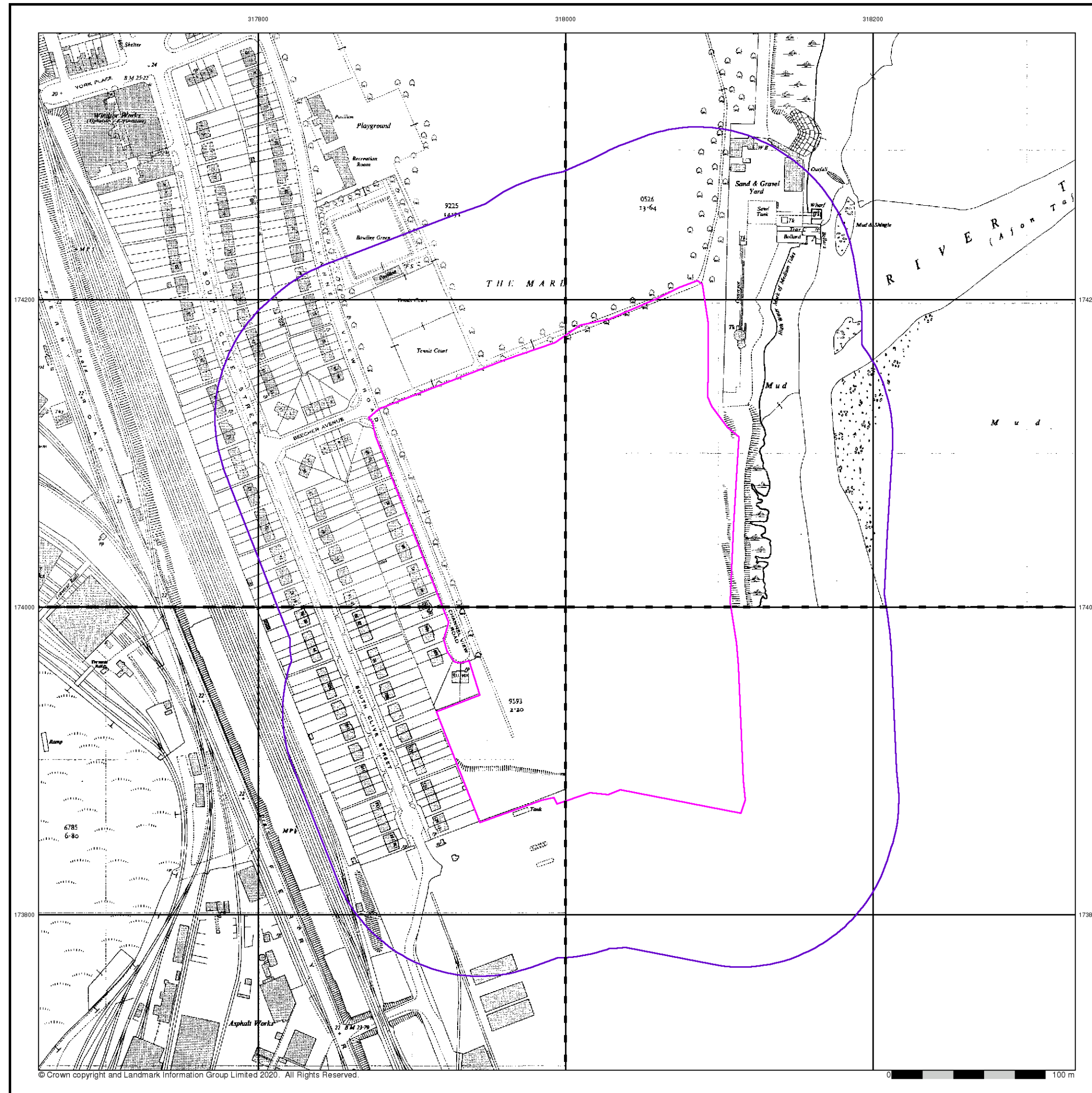
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National Grid Reference: 318010, 174030
Slice: A
Site Area (Ha): 6.01
Search Buffer (m): 100

Site Details

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0 100 m



Ordnance Survey Plan

Published 1954 - 1955

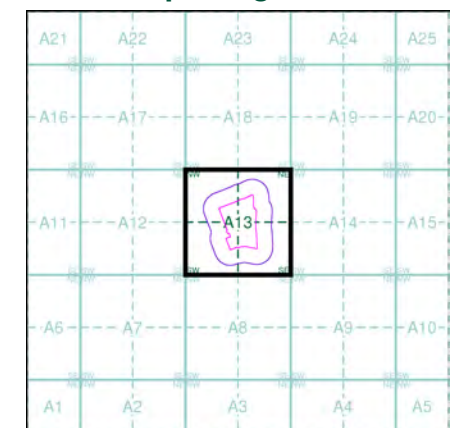
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST1774 1954 1:2,500	ST1874 1954 1:2,500
ST1773 1955 1:2,500	

Historical Map - Segment A13



Order Details

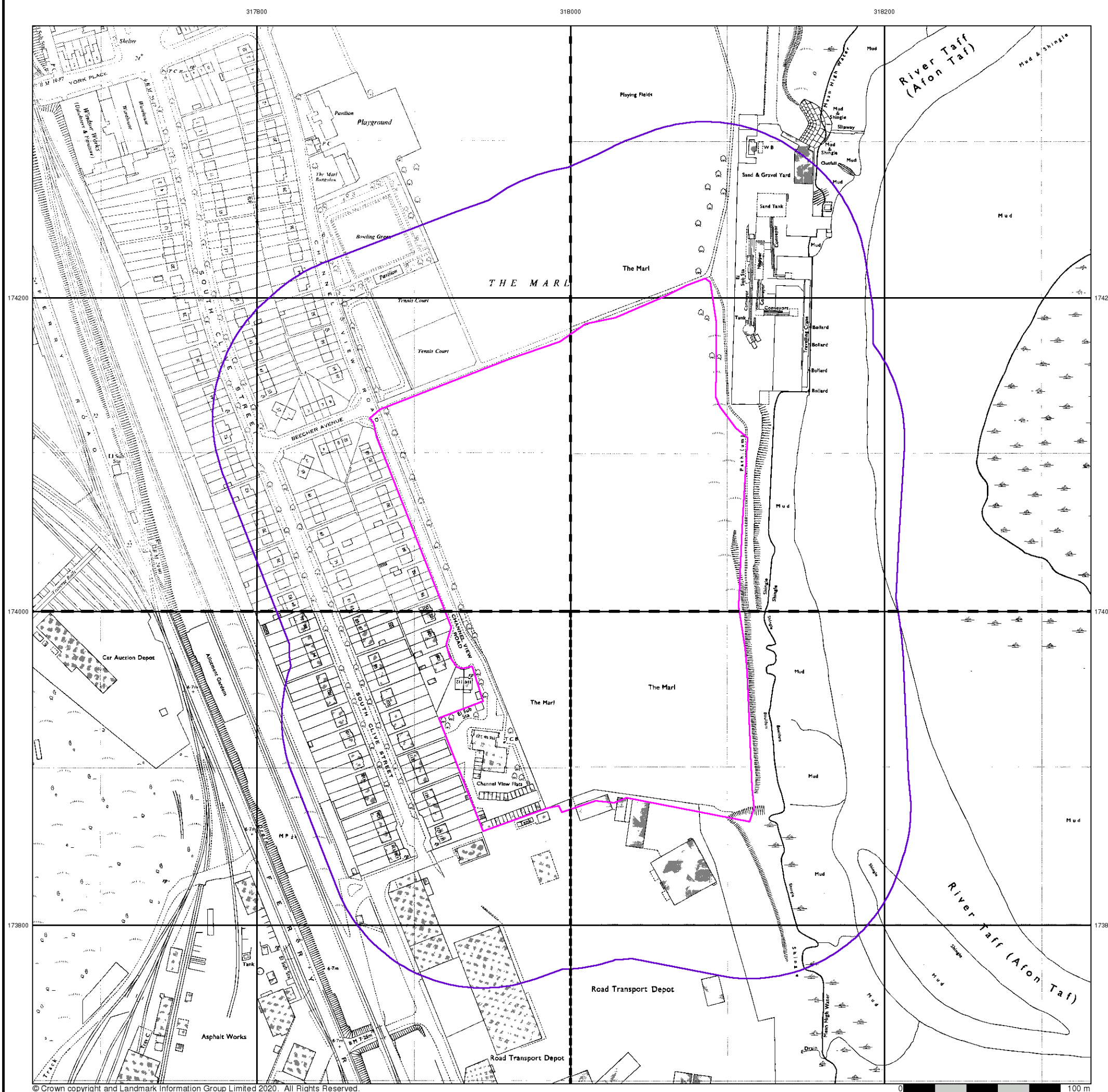
Order Number: 240915480_1_1
Customer Ref: 16017 Channel View
National Grid Reference: 318010, 174030
Slice: A
Site Area (Ha): 6.01
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1969 - 1974

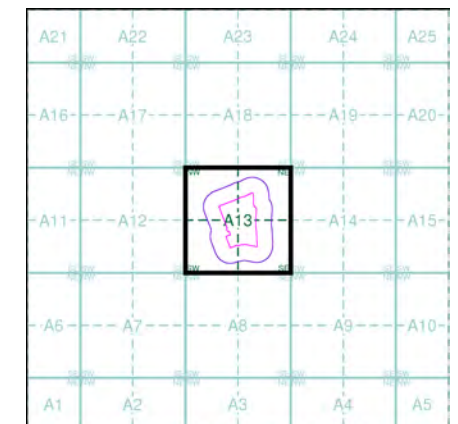
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

ST1774SE 1969 1:1,250	ST1874SW 1974 1:1,250
ST1773NE 1970 1:1,250	ST1873NW 1971 1:1,250

Historical Map - Segment A13



Order Details

Order Number:	240915480_1_1
Customer Ref:	16017 Channel View
National Grid Reference:	318010, 174030
Slice:	A
Site Area (Ha):	6.01
Search Buffer (m):	100

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Ordnance Survey Plan

Published 1970 - 1971

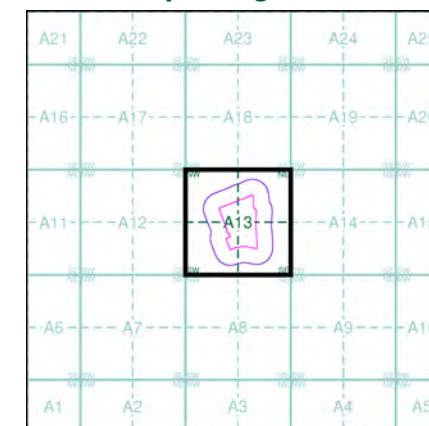
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST1774	1970	1:2,500
ST1773	1971	1:2,500

Historical Map - Segment A13



Order Details

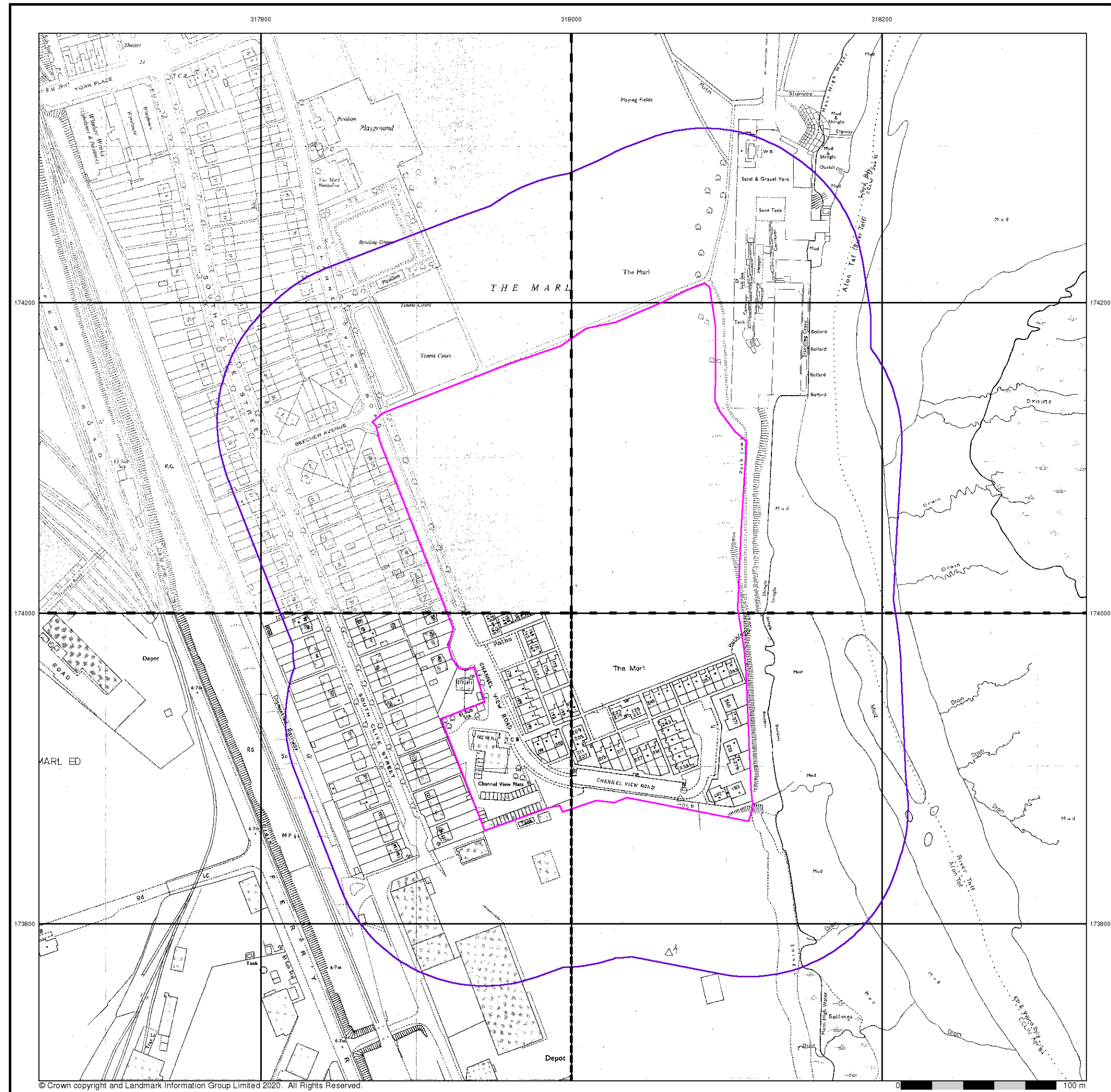
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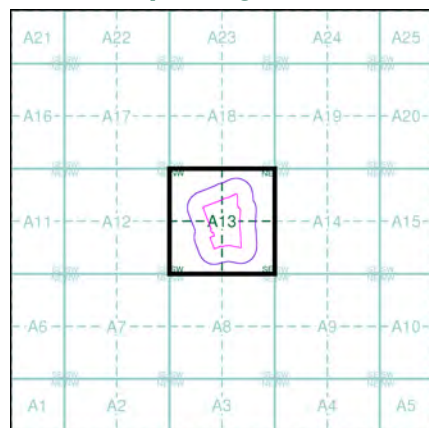
Additional SIMs
Published 1972 - 1989
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

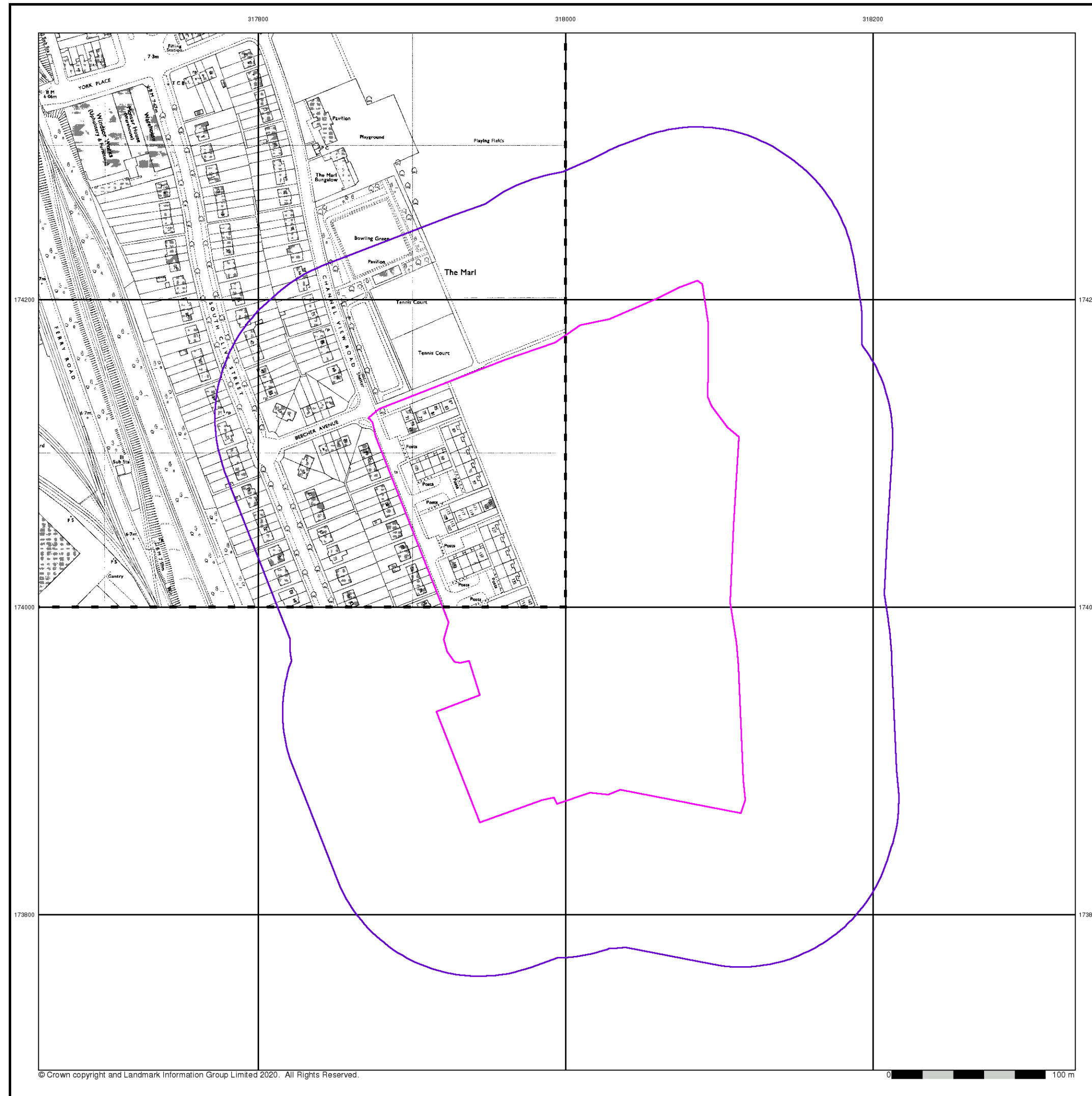
ST1774SE 1972 1:1,250	ST1874SW 1984 1:1,250
ST1773NE 1986 1:1,250	ST1873NW 1989 1:1,250

Historical Map - Segment A13



Order Details
Order Number: 240915480_1_1
Customer Ref: 16017 Channel View
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Site Details
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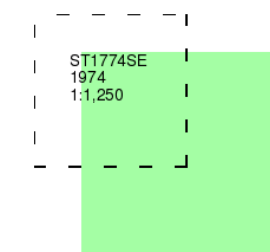
Ordnance Survey Plan

Published 1974

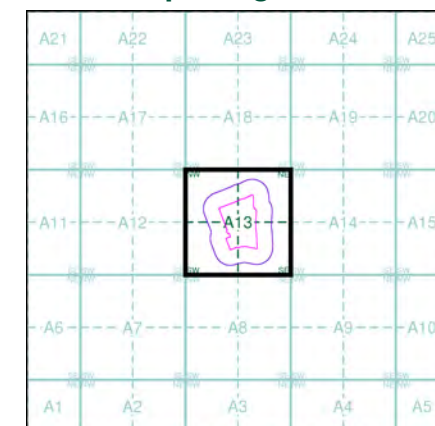
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

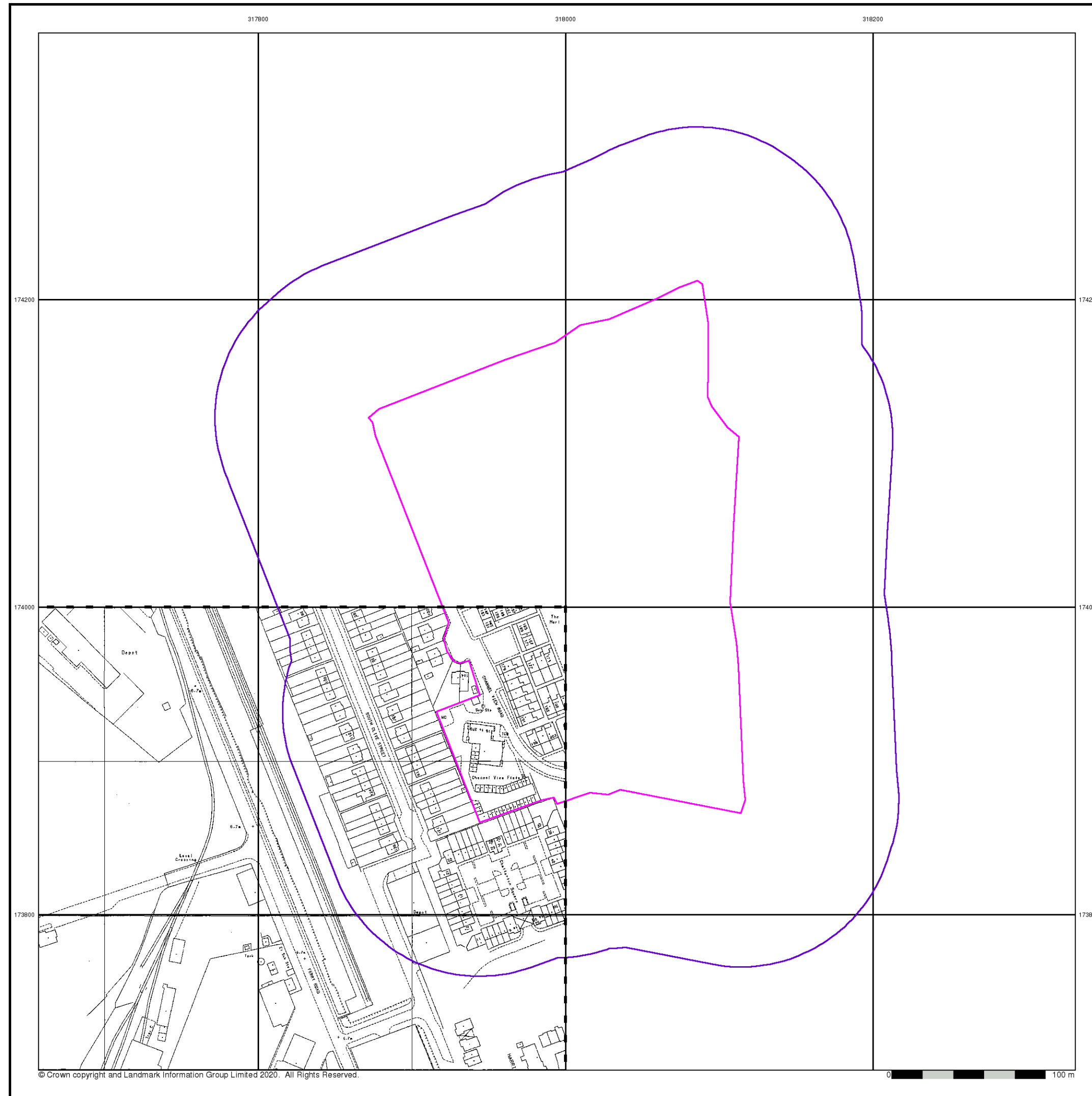
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Search Buffer (m): 100

Site Details

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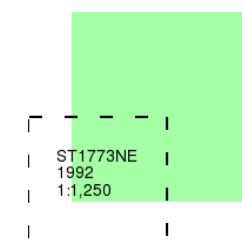
Additional SIMs

Published 1992

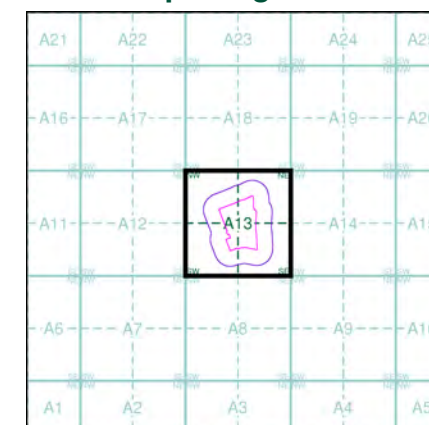
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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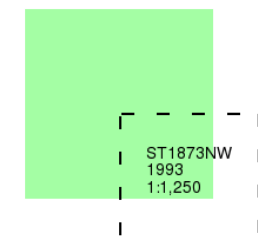
Large-Scale National Grid Data

Published 1993

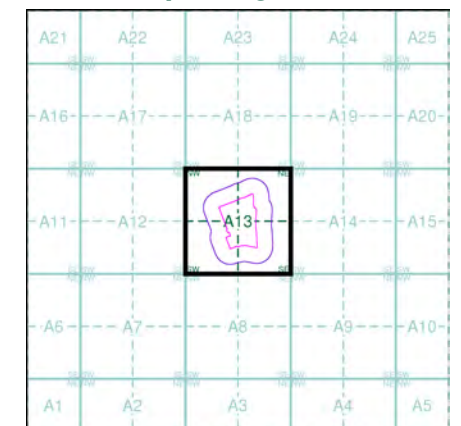
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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National Grid Reference: 318010, 174030
Slice: A
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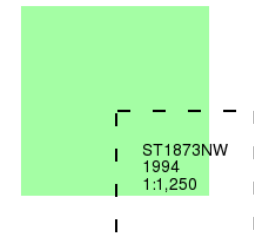
Large-Scale National Grid Data

Published 1994

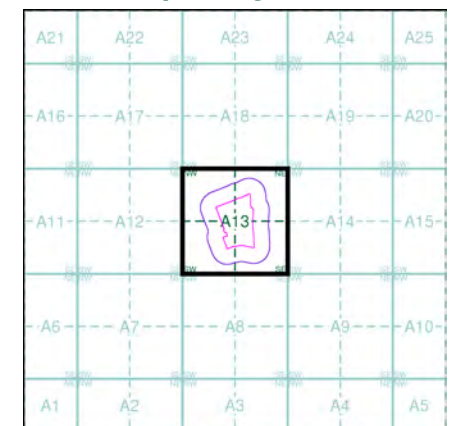
Source map scale - 1:1,250

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

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Historical Map - Segment A13



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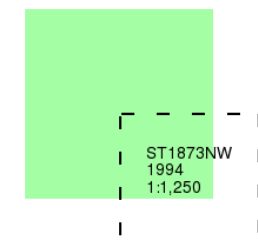
Large-Scale National Grid Data

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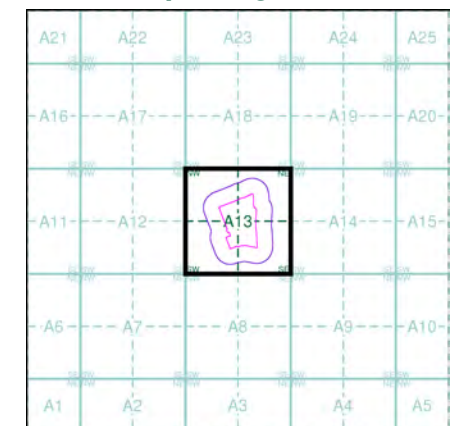
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'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information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

Map Name(s) and Date(s)



Historical Map - Segment A13



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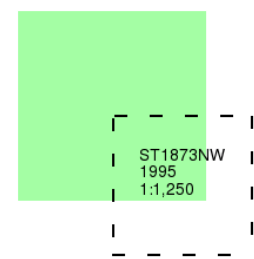


Large-Scale National Grid Data
Published 1995

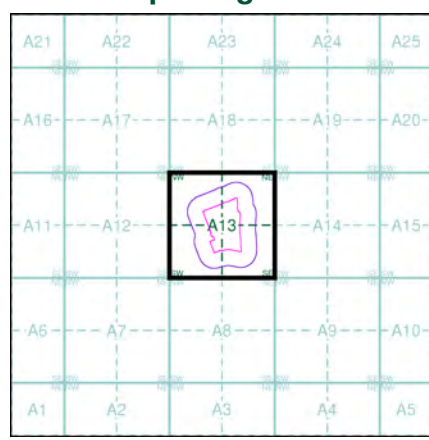
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

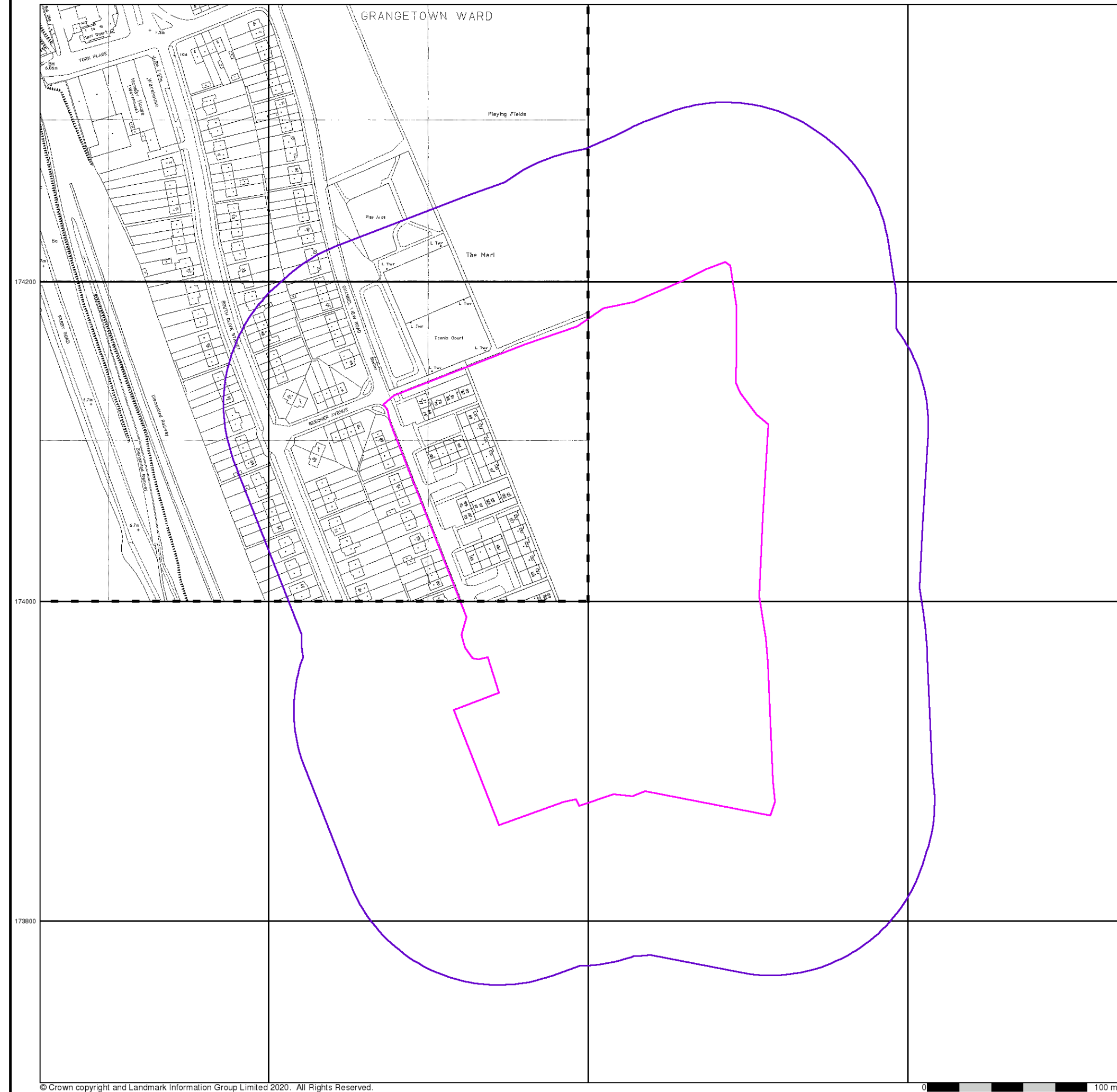
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0 100 m



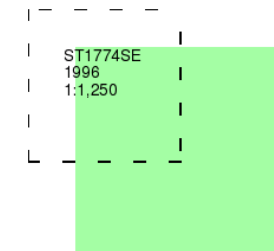
Large-Scale National Grid Data

Published 1996

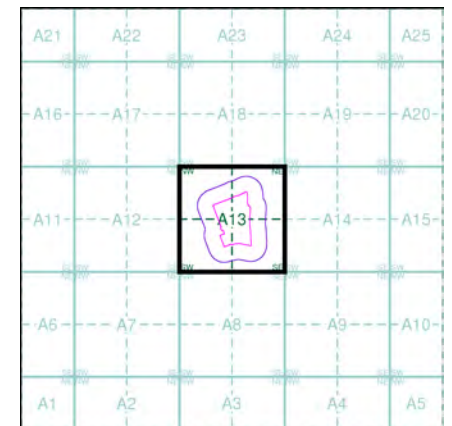
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 240915480_1_1
Customer Ref: 16017 Channel View
National Grid Reference: 318010, 174030
Slice: A
Site Area (Ha): 6.01
Search Buffer (m): 100

Site Details

, 125, Channel View Road, Cardiff, CF11 7HX



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

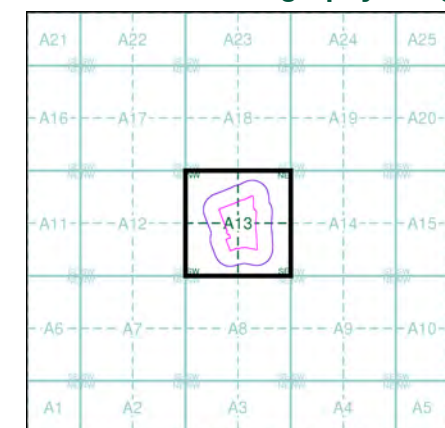


Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A13



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

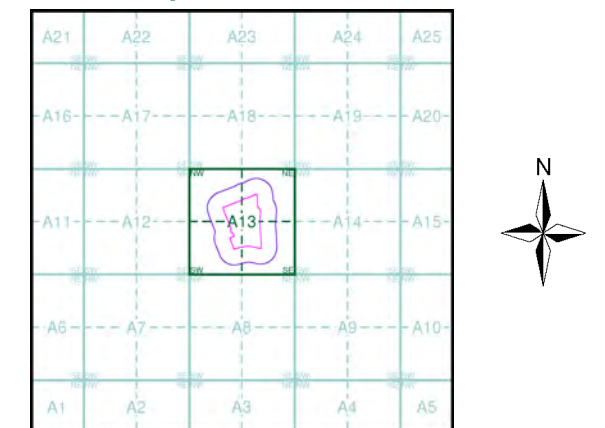
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1885 - 1886	3
Glamorganshire	1:10,560	1901	4
Glamorganshire	1:10,560	1922	5
Glamorganshire	1:10,560	1922	6
Glamorganshire	1:10,560	1938	7
Glamorganshire	1:10,560	1947 - 1951	8
Historical Aerial Photography	1:10,560	1947	9
Historical Aerial Photography	1:10,560	1947	10
Ordnance Survey Plan	1:10,000	1965	11
Ordnance Survey Plan	1:10,000	1974 - 1975	12
Cardiff	1:10,000	1982	13
Ordnance Survey Plan	1:10,000	1984 - 1986	14
Ordnance Survey Plan	1:10,000	1991 - 1996	15
Ordnance Survey Plan	1:10,000	1995	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2020	19

Historical Map - Slice A



Order Details

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